## **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 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
- proposed, future South Tahoe Greenway share-use path and Lake Tahoe Passenger Ferry Project.

TTD, Tahoe Regional Planning Agency (TRPA), and 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 the 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.

## 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.

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 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 and moderate-income 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 safety for residents, pedestrians, and bicyclists in local neighborhoods;
- implement regional and local plans, including the Lake Tahoe Regional Plan and Regional Transportation Plan/Sustainable Communities Strategy;
- enhance visitor and community experience; and
- promote the economic vitality of the area.



Exhibit S-1

**Project Site and Study Area Location** 

## 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.
- B. *Multimodal mobility and safety*. Ongoing and proposed resort redevelopment in the tourist core area has increased pedestrian traffic, creating a need for improved pedestrian safety, mobility, and multi-modal transportation options. 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 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—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 (Caltrans 2016, NDOT 2016).

The roadways within the project site also have inadequate facilities for pedestrians, bicyclists, and vehicles. The inadequate facilitates detract from community character and quality of life of both residents and visitors. The poor transportation facilities and pedestrian/bicycle environment create constraints to the economic vitality 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 needed 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 Department of Environmental Protection [NDEP] 2010). Improvements to stormwater runoff 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, and undesirable traffic 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;

- facilitate the creation of a safe and walkable district that enhances pedestrian and bicyclist activities and safety and improves the City of South Lake Tahoe's and Douglas County's competitiveness with other regional and national tourist destinations;
- create gateway and streetscape features that create 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;
- 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 project site boundaries. 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)**



Main Street Concept Illustration

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 located to the west of the existing intersection, and proceed south along existing Moss Road. 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. TTD has designated Alternative B as the "locally preferred action," because TTD believes it best meets the objectives of the project and it emerged as the most supported alternative following public scoping.

### **ROAD NETWORK CHANGES**

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 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 Nevada Department of Transportation (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. 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 this 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. Appendix B also includes exhibits that distinguish full and partial parcel acquisitions the realignment alternatives.

#### MIXED-USE REDEVELOPMENT SITES

Alternative B includes the 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 for dislocated residents and business owners in the immediate vicinity.

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



Realigned US 50 Near Pedestrian Bridge

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 the entrance 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 require the acquisition of right-of-way similar 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. This 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.



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 and the outreach that followed, areas of controversy could include the purpose and need for the project, displacement of existing residents and businesses in the City of South Lake Tahoe, impacts on Van Sickle Bi-State Park, noise impacts in residential neighborhoods, effects on water quality, effects on air quality, and impacts on public safety. 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." Appendix A includes a complete list of comments received during the scoping period.

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 72 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 and relocation assistance to affected persons prior to initiating construction of the transportation improvements and initiating the right-of-way acquisition process 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.

### 

- 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 between 0.08 and 0.09 acre, depending on the alternative, 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.

#### Impacts on Utilities

- 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 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.

#### 

▼ 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

Implement Water Quality Enhancements Beyond the Lake Tahoe Environmental Improvement 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.

## 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.

After receiving comments from the public and reviewing agencies, a final environmental document will be prepared. The lead agencies may prepare additional environmental and/or engineering studies to address comments. The final environmental document will include responses to comments received on the Draft EIR/EIS/EIS. If the decision is made to approve an action alternative to implement the project, a Notice of Determination will be published for compliance with CEQA and FHWA will issue a Record of Decision (ROD) for compliance with NEPA.

Chapter 3, "Affected Environment, Environmental Consequences, and Avoidance, Minimization, and/or Mitigation Measures," of this 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.

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** CEOA/TRPA NEPA CEQA/TRPA Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable NI = No impact 3.2 Land Use Impact 3.2-1: Conflict with or impede implementation of The design features of Alts A. B. C. D. No avoidance, minimization, or mitigation measures are NA Alts A. B. C. E = LTSD. E = LTS existing land use plans and policies Alternatives A. B. C. D. and required to reduce impacts such that no additional Implementation of Alternatives B. C. and D transportation E would avoid or minimize mitigation measures are needed or feasible to implement improvements and mixed-use development, including conflicts with implementing for the purposes of NEPA or to a less-than-significant level replacement housing, would have the potential to conflict with land use plans and policies for the purposes of CEQA and TRPA. certain policies in relevant planning documents (see Appendix such that no additional E and summarized herein). However, a conflict with a specific mitigation measures are policy alone does not constitute "inconsistency" with a land use needed or feasible to plan. The environmental effects of any policy conflicts are implement. addressed in the individual resource sections in Chapter 3, "Affected Environment, Environmental Consequences, and Avoidance, Minimization, and/or Mitigation Measures," of this document. Mitigation is incorporated to avoid or minimize significant effects to the extent feasible. Because Alternatives B, C, and D would implement the broader vision and goals of the overarching land use plans (i.e., RTP/SCS, TCAP, SSAP, and ATP), these alternatives would not be in conflict with existing land use plans. Because Alternative A would not construct a realigned US 50 around the tourist core along with other pedestrian and bicycle improvements, Alternative A would not meet the planning goals of the RTP/SCS, TCAP, and SSAP; however, Alternative A would not preclude construction of future transportation improvements in the study area. Similarly, Alternative E would only meet some of the goals of these plans related to safe pedestrian movement along US 50 in the resort-casino portion of the tourist core, because of the limited extent and nature of the improvements. Neither Alternative A nor Alternative E would preclude the possibility for a future proposal to implement

similar transportation improvements as those identified in Alternatives B, C, and D. For these reasons, while Alternatives A

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 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 applicat	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	and unavoidable
and E would not meet planning goals, they would not be in conflict with existing land use plans.					
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.	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 nonconforming use such that no additional mitigation measures are needed or feasible to implement Alt A = NI	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.	NA	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	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	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.	Alt A = NI Alts B, C, D, E = NAdv	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	Impact [	before wild gadon (by Alternative)		Avoidance, N	Minimization	ı, 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	ble NAdv = Not	adverse NI = I	No impact	PS = Potentially significant S	= Significant	SU = Significant a	nd unavoidable	
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 redevelopment of this site could prolong the disruption in access to this recreation facility. Alternative E would result in temporary interference with pedestrian and vehicle access to Edgewood Tahoe Golf Course associated with the option to restripe Lake Parkway on the lake side of US 50. Alternative A would not result in disruption of public access.	recreation a for Alternat Alt A = NI	ireas. No Impact		Transportation project address access recrea and bicycle maccess to recrede tour plans to specifications.  1. During contrail interson Linear Parin the conbicycle and temporary vehicle transing signage was park, at the 50, and aptrail users any construction.  2. During contrail users any construction will age Was eastward the pedess vehicle, pedes v	n Manageme sees all mode tion areas, in odes. To mit reation resouthat meet, at the instruction of section, the park may be restruction area of pedestrian area of trail/path of a poundation of the intersection proaching the about the time ruction-related instruction of any intersection along the reaction bridge redestrian, areark shall be and traffic correct along roading the constitutions, bicylineads vestrians, bicylineads westrians, bicylineads westrians.	all ensure that the ent Plan (TMP) prepared for the es of transportation used to including vehicle, pedestrian, igate short-term decreases in urces, the TMP shall include a minimum, the following the relocated US 50/Pioneer bedestrian and bike trail within quired to be temporarily closed ea. If this closure is required, all a traffic shall be detoured to a in the highway, separated from sical barrier such as "K-Rail." ed at the western end of Linea on of Wildwood Avenue and US the construction zone to alert ming, duration, and nature of ed 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 introl for all modes. Signage will dways and sidewalks truction zone and in parking within Van Sickle Bi-State Park clists, and motorists about the nature of construction-related				

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

Resource Topics/Impacts	Impact Determinations (C	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		n, and/or Mitigation Measures	Environmental Consequence Impact Determinations (CEC after Mitigation (by Alterr		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
			access to Edgewood I maintained by the use Measures will be taken to project construction activide detours are required, warrestricted access and detours and equate public safety. Domarked, and construction be installed to prevent act to clearly delineate the defor recreation facilities by the prohibited from July 1 throan approved detour has be pedestrian detours will be reviewed and approved by	ough Labor Day weekend unless een established. All bicycle and identified in the TMP and will be			
Impact 3.3-2: Long-term change in public access to public lands and recreation areas  Alternatives B, C, and D transportation improvements and mixed-use development including replacement housing would include improvements that facilitate enhanced access from the tourist core by creating an improved setting for walking and bicycling throughout the core area. Alternatives B, C, and D would increase public access to Van Sickle Bi-State Park and/or Linear Park as a result of the pedestrian/bicycle bridge over realigned US 50 that would increase connectivity for 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	The design features of Alternatives B, C, and D would avoid or minimize long-term changes in public access to public lands and recreation areas such that no additional mitigation measures are needed or feasible to implement. Alts A, E = NI	Alts A, E = NI Alts B, C, D = B	required to reduce impact mitigation measures are r	needed or feasible to implement or to a less-than-significant level		NA	Alts A, E = NI Alts B, C, D = B

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 applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significa	nt and unavoidable	
Parkway west of existing US 50, which would occur within the existing road footprint.						
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 three locations 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 resources 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 mixed-use development including replacement housing has already been contemplated 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	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 A, E = NI	Alts B, C, D = LTS Alts A, 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 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

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Conseq Impact Determination after Mitigation (by	is (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 = Significar	nt and unavoidable
facilities would not increase, and additional recreation resources would not be required.					
Impact 3.3-4: Changes to the quality of recreation user experience  Because Alternatives A and E would not include any infrastructure improvements in the vicinity of Lake Tahoe, public lands and/or recreation areas, Alternatives A and E would not affect the recreation user experience in the study area.  The effects of Alternatives B, C, and D transportation improvements on the quality of recreation user experience at the Linear Park and Edgewood Companies mountain parcel 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	The design features of Alternatives B, C, D, and Alternative E would avoid or minimize the change in the quality of recreation user experience environmental consequences such that no additional mitigation measures are needed or feasible to implement. Alt A = NI	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
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,					

Resource Topics/Impacts	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)  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 = r	mixed-use NA = Not applical	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Significant a	ind unavoidable
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 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 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 (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	C, and D transportation in NEPA, CEQA, and TRPA. With respect to changes in that affect the character a Point neighborhood, imple 1a (see Section 3.7, "Visu	neasure applies to Alternatives B, approvements for the purposes of n visual conditions and noise and cohesiveness of the Rocky ement Mitigation Measure 3.7-ial Resources/Aesthetics") and 5-3a, 3.15-3b, and 3.15-3c (see	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

alignment, although vehicular connectivity through 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** CEQA/TRPA NEPA CEQA/TRPA 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 SU = Significant and unavoidable neighborhood would be maintained. Increased trip lengths for pedestrians and bicyclists in this neighborhood would in part be offset by the enhanced bicycle and pedestrian features (e.g., sidewalk and bicycle lane) along the new highway. These three alternatives would physically divide residences 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. 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

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

Because Alternative A would include no changes and Alternative E would not include project components located

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 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 applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	and unavoidable
within an established neighborhood community, these alternatives would not adversely affect community character or cohesion or disrupt or divide an established community.					
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	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 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 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 a	and unavoidable	
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.						
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 the mixed-use development, including replacement housing, Alternatives B, C, and D would generate a net increase of up to approximately 180 – 210 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.	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	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 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	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable	
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 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.	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	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	Impact Determinations (C	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)		n, and/or Mitigation Measures	Impact D	ental Consequer eterminations (C Aitigation (by Alt	CEQA, TRPA)
	NEPA	CEQA/TRPA			N	IEPA	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 S	SU = Significant ar	nd unavoidable
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 2012) 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 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.	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	required to reduce impac mitigation measures are i	needed or feasible to implement or to a less-than-significant level		NA	Alts A, E = NI Alts B, C, D = LTS

Resource Topics/Impacts	Environmental Conseque Impact Determinations ( before Mitigation (by A	CEQA, 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 applica	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	Significant SU = Significant a	nd unavoidable
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.	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 Study  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) shall coordinate with STPUD, DCSID, 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 identify all utility relocations affected by the transportation improvements. To minimize disruption to utility services, relocation of the utility lines shall occur after any required clearing and demolition within the study area and before construction of the realigned US 50 and other transportation improvements. Actions needed to comply with this mitigation measure include coordination with each affected utility company to prepare a utility relocation study that would, at a minimum, include the following:  ✓ plans that identify the utility infrastructure elements that require relocation as a result of constructing	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

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

Table S-1 Summ	ary of Resource Topic	s with impact	S and Avoidan	ce, wimimiza	ation, and/or wiitigat	tion weasures			
Resource Topics/Impacts		Impact [	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 applicab	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant a	nd unavoidable
						Ition improvements and mixed- luding replacement housing; roid any human health			
					hazards or environme	ental hazards associated with hing some utility infrastructure,			
					relocation as part of c transportation improv development, includir	ements and mixed-use ng replacement housing, which minimize disruption to the			
					pertinent processes ( documents and requi completed, as necess	environmental evaluations and e.g., CEQA, NEPA, and/or TRPA rements), all of which shall be eary, before final plans for the ent, including replacement			
					<ul> <li>preparation and apprendineer; and</li> <li>approval as adequate companies and Caltra necessary.</li> </ul>				
Impact 3.5-2: Increased demain Alternatives B, C, and D transponding generate water demand for dust construction that would be met Implementation of Alternatives development, including replace water supplies for operation of uses and for fire suppression. In the mixed-use development, in	ortation improvements would st suppression during t by water trucks as necessa B, C, and D mixed-use ement housing, would requir residential and commercial Water demand associated w	Alternatives ry. would avoid water dema e environmer consequen ith additional r	ntal ces such that no	Alt A = NI Alts B, C, D, E = LTS	No avoidance, minimization 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

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 applicate	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable
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.	measures are needed or feasible to implement.					
Impact 3.5-3: Increased demand for wastewater collection,	Alts A, E = NI	Alts A, E = NI	_	: Ensure sufficient capacity in	Alts A, E = NI	Alts A, E = NI Alts B, C, D =
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 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 flows to 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.	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	Alts B, C, D = PS	This mitigation measure is and D mixed-use developments for the purposes. Prior to completion of project the mixed-use developments for the mixed-use developments and square footage STPUD finds that the project design, in units and square footage STPUD finds that the project design flows cause the STPUD ling SSMH BJ181 to surcharge applicant shall develop plaimprovements that would wastewater flows. The progressible for covering the would be needed to serve the improvements shall be weather flows in the sewer and SSMH BJ181, located Tahoe Vacation Resort on plans shall identify the time that the capacity of the ling to complete the server of the server	allow for conveyance of buildout	Alts B, C, D, E = No additional mitigation measures would be needed or are feasible to implement.	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)  NEPA CEQA/TRPA		Avoidance, Minimization, and/or Mitigation Measures		Impact	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
							NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial LTS = Less than significant MU =	mixed-use NA = Not applical	ole NAdv = Not	adverse N	NI = No impact	PS = Potentially significant	S = Significant	SU = Significant	and unavoidable
			mixed-used If STPUD If flows cont SSMH BJ2 either development of the would wastewatt would be improved. The project STPUD that and converse the housing, a system has system has system in the structure of the structure of the structure of the structure of the system has system in the structure of the structure o	e development. finds that project tribute to an exication and exication	eted prior to occupancy of the ct-generated peak wastewate sting surcharge condition at and the project applicant shand construct improvements conveyance of buildout atively, the project applicant their fair share towards BJ25.  provide a will-serve letter from wastewater treatment collectic cture has adequate capacity to lopment, including replacements to the eted prior to the issuance of City of South Lake Tahoe.	on		
Impact 3.5-4: Increased generation of solid waste  Under the build alternatives, waste generated during land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities would require disposal.  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.	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize solid waste demand environmental consequences such that no additional mitigation measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, E = LTS	required to mitigation for the put	o reduce impact measures are r	on, or mitigation measures are ts such that no additional needed or feasible to impleme or to a less-than-significant lev and TRPA.	nt	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			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 = Significa	ant and unavoidable	
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 mixed-use development, including replacement housing, population increases would not be substantial enough to require additional police, fire, or emergency services. Demand for law enforcement, fire, and emergency services would not increase with Alternatives A and E.	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 emergency services such that no additional mitigation measures are needed or feasible to implement.	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	
Impact 3.5-7: Increased demand for public schools Implementation of Alternatives B, C, and D transportation improvements would result in a decrease in population due to the removal of housing units. This is likely to reduce the number of students in the study area and would not require the construction of additional public schools. With Alternatives B, C,	Alts A, E = NI The design features of Alternatives B, C, and D would avoid or minimize the environmental	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** CEOA/TRPA NEPA CEQA/TRPA 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 SU = Significant and unavoidable and D mixed-use development, including replacement housing, consequences related to the number of additional students would be minimal compared demand for schools. 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 NA Alts A, B, C, Alts A, B, C, D, No avoidance, minimization, or mitigation measures are redevelopment of the mixed-use development sites to The design features of E = NIrequired to reduce impacts such that no additional D, E = NIaccommodate replacement housing (Before Opening Day) Alternatives B, C, and D mitigation measures are needed or feasible to implement Redevelopment of the mixed-use development sites to would avoid or minimize for the purposes of NEPA or to a less-than-significant level accommodate displaced residents would not affect the impacts on intersection for the purposes of CEOA 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 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 Mitigation Measure 3.6-2: Change the eastbound and Alts A. B. D. E = NA The design features of Alt A = LTSAlt A = LTS intersection operations - 2020 (Opening Day) Alternatives A, B, D, and E Alts B, D, E = westbound directional traffic on US 50 Alt C = No additional Alts B, D, E = The US 50/South Shore Community Revitalization Project would avoid or minimize This mitigation would apply to Alternative C transportation mitigation measures would not generate additional 2020 (opening day) vehicle trips the impacts on intersection Alt C = Simprovements for the purposes of NEPA, CEQA, and TRPA. 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	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	
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, 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 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.	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.		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.	would be needed or are feasible to implement.		
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	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	Alt A, B, D = LTS Alts E = B Alt C = S	Mitigation Measure 3.6-3: Change the eastbound and westbound directional traffic on US 50 pursuance to Mitigation Measure 3.6-2  This mitigation would apply to Alternative C transportation improvements for the purposes of NEPA, CEQA, and TRPA.	Alts A, B, D, E = NA Alt C = Mitigation Measure 3.6-3 has been incorporated into Alternative C, but there are no other feasible	Alt A, B, D = LTS Alts E = B Alt C = SU	

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 = S	Significant SU = Significant a	nd unavoidable	
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.	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.		See Mitigation Measure 3.6-2 above. The same mitigation measure would apply.	mitigation, avoidance, or minimization measures that could further reduce to the extent feasible the environmental consequences related to impact on roadway segment operations.		
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 Report/Draft Environmental Impact Statement [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	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 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/TRP				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 = F	Potentially significant S = S	ignificant SU = Significant	and unavoidable	
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 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	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 m required to reduce impacts such t mitigation measures are needed for the purposes of NEPA or to a lefor the purposes of CEQA and TRE	that no additional or feasible to implement ess-than-significant level	NA	Alts B, C, D, E = B Alt A = NI	

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 =	Significant SU = Significant a	nd unavoidable	
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.						
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 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.	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 leve for the purposes of CEQA and TRPA.		Alts B, C, D = B Alts A, E = LTS	
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	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	Alts B, C, D = LTS Alt A = NI Alt E = 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 leve for the purposes of CEQA and TRPA.		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

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 = S	Significant SU = Significant a	nd unavoidable	
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.	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.				minimization measures that could further reduce construction-related traffic impacts.		
Impact 3.6-8: Impacts on vehicular, bicycle, and pedestrian safety – 2020 (Opening Day)  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. 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. Construction of replacement housing at one or more of the mixed-use development sites would not substantially alter vehicular travel within the study area and would have no effect on bicycle or pedestrian infrastructure. Mixed-use development at the remaining site(s)	The design features of Alternatives B, C, D, and E would avoid or minimize the impacts on vehicular, bicycle, and pedestrian safety in 2020 such that no additional mitigation measures are needed or feasible to implement; there would be no mechanism by which to implement or enforce avoidance or mitigation measures to minimize impacts on vehicular,	Alts B, C, D, E = B Alt A = SU	required to reduce impact mitigation measures are	on, or mitigation measures are its such that no additional needed or feasible to implement or to a less-than-significant level and TRPA.	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 impacts on vehicular, bicycle, and pedestrian safety in 2020 from Alternative A.	Alts B, C, D, E = B Alt A = 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 =	Significant SU = Significant a	nd unavoidable	
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.	bicycle, and pedestrian safety in 2020 from Alternative A.					
Impact 3.6-9: Impacts on emergency access – 2020 (Opening Day)  The build alternatives could affect police services, fire protection, and emergency medical services response times and delivery of emergency services. Alternatives B, D, and E would reduce congestion along existing US 50 and thereby improve long-term emergency access within the study area. There would be no changes under Alternative A. Alternative C would result in increased congestion and reduced emergency access to a segment of existing US 50 due to the new circulation patterns. Because mixed-use development would be constructed between 2020 and 2040, Alternatives B, C, and D mixed-use development were not analyzed under this 2020 (opening day) scenario. Replacement housing constructed at one of the three mixed-use development under the 2020 scenario would not interfere with existing emergency access and would be constructed to meet City requirements for emergency access.	The design features of Alternatives A, B, D, and E would avoid or minimize the impacts on emergency access in 2020 such that no additional mitigation measures are needed or feasible to implement; Mitigation Measure 3.6-9 has been incorporated into Alternative C to further reduce to the extent feasible the environmental consequences related to emergency access in 2020.	Alts A, B, D, E = LTS Alt C = S	Mitigation Measure 3.6-9: 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. See Mitigation Measure 3.6-2 above. The same mitigation measure would apply.	Alts A, B, D, E = NA Alt C = Mitigation Measure 3.6-9 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 2020.	Alts A, B, D, E = LTS Alt C = SU	
Impact 3.6-10: Construction-related parking impacts  Construction staging areas for transportation improvements associated with Alternatives B, C, D, and E could be located on one or more parking lots at Harvey's Lake Tahoe, Hard Rock Hotel and Casino, and Montbleu Resort and Casino. These property owners have indicated there is sufficient parking in their parking garages. A construction staging area on the Harvey's parking lot would not interfere with the annual summer concert series. The use of any of these sites would be implemented through a willing agreement between the property owner and construction contractor. Construction	Alt A = NI Mitigation Measure 3.6-10 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the environmental consequences related to temporary loss of parking; The design features of Alternative E would avoid or minimize construction-	Alt A = NI Alt E= LTS Alts B, C, D = S	Mitigation Measure 3.6-10: Prepare a detailed parking plan to meet Heavenly Village Center demand during construction, pursuant to Mitigation Measure 3.6-11  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. See Mitigation Measure 3.6-11. The same mitigation measure would apply.	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	

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 applicat	ble NAdv = Not	t adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	nd unavoidable	
impacts on parking associated with project construction would be temporary in nature and would only occur leading up to 2020 (opening day).  Although construction details associated with the mixed-use component, including replacement housing, of each of the build 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 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.	related parking environmental consequences such that no additional mitigation measures are needed or feasible to implement.					
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	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 = LTS 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	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

Resource Topics/Impacts	Impact D	ental Consequen eterminations (C Mitigation (by Alt	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures			Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	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 = S	ignificant	SU = Significant a	nd unavoidable
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.				recommend parking den parking star applicant produced permitted a use permited the Heave adequacy of would remark aley's by concluding remust demo.  A Adequating the propulation of the parking demand ration City Code but would not a transpoutline to or free or the parking demand ration could be a transpoutline to or free or the parking demand ration could not a transpoutline to or free or the parking demand ration could not a transpoutline to or free or the parking demand ration could not a transpoutline to or free or the parking demand ration could not be a transpoutline to or free or the parking demand ration could not be a transpoutline to or free or the parking demand ration could not be a transpoutline to or free or the parking demand ration could not be a transpoutline to or free or the parking demand ration could not be a transpoutline to the parking demand ration co	dations including and and and and and and achindreds would be for to groundent, including response of the Heavenly din after displationstruction of placement ho instrate the foliate off-street proceduse as a fironmental implemental implementation the enhanced beginning after this shope section 6.10 to be limited to ortation manaransit incentice.	f South Lake Tahoe Code. The ing in the parking plan to meet ieve City of South Lake Tahoe be implemented by the project breaking of the mixed-use eplacement housing, at Site 3. submitted to the City of South to TRPA as necessary to obtain tion of the parking demand ratios enter. It would demonstrate the y Village Center parking that cement of parking behind if the mixed-use development, busing, at Site 3. The parking plan ellowing:  arking would be provided for determined by a parking plan; apact of the use would be ction in parking spaces (City ne use permit); and are vehicles and pedestrians by the lesser requirement. In pose a reduction in parking sping center from those set forth based on a plan that proposes, to, one or more of the following: agement plan, which would ives, such as a shuttle system at transit passes for			

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 applicat	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable
			<ul> <li>▲ Additional parking, which could be constructed elsewhere in the project site for the US 50/South Shore Community Revitalization Project.</li> <li>▲ Establishment of a shared parking facility, in which uses have different peak periods, parking demand would not overlap, and would meet peak demands.</li> </ul>		
Impact 3.6-12: Impacts on intersection operations – 2040 (Horizon Year)  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 peakhour 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 operations at three intersections to unacceptable levels or exacerbate already unacceptable operations. Improvements under Alternative E would operate intersections at annual average and summer peak-hour LOS D or better.	The design features of Alternatives 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 implement; Mitigation Measure 3.6-12 has been incorporated into Alternative C to further reduce to the extent 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.	Alts B, D, E = LTS Alt A = SU Alt C = S	Mitigation Measure 3.6-12: 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. 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 impacts on intersection operations from Alternative A. Alt C = No additional mitigation measures would be needed or are feasible to implement.	Alts B, C, D, E = LTS Alt A = SU

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	n, 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	
Impact 3.6-13: Impacts on roadway segment operations – 2040 (Horizon Year)  Under 2040 horizon year conditions, Alternatives B and D transportation improvements and mixed-use development, including replacement housing, and Alternative E would result in acceptable roadway segment LOS during annual average and summer peak hours. Under Alternative A, one roadway study segment would operate at unacceptable LOS. Under Alternative C transportation improvements and mixed-use development, including replacement housing, three roadway segments would be reduced to unacceptable roadway segment LOS.	The design features of Alternatives B, D, and E would avoid or minimize the environmental consequences related to roadway segment operations in 2040; Mitigation Measure 3.6-13 has been incorporated into Alternative C to further reduce to the extent feasible the environmental consequences related to roadway segment operations in 2040; There would be no mechanism by which to implement or enforce avoidance or mitigation measures to minimize Alternative A impacts on roadway segment operations in 2040.	Alts B, D, E = LTS Alt A = SU Alt C = S	westbound directional tra Mitigation Measure 3.6-2 This mitigation would app improvements for the pur	3: Change the eastbound and iffic on US 50 pursuant to ly to Alternative C transportation poses of NEPA, CEQA, and TRPA. 3.6-2 above. The same mitigation	Alts B, D, E = NA Alt A = Adverse effects on roadway segment operations 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. Alt C = Mitigation Measure 3.6-13 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 roadway segment operations in 2040.	Alts B, D, E = LTS Alts A, C = SU	
Impact 3.6-14: Impacts on vehicle miles of travel – 2040 (Horizon 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,	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	required to reduce impac mitigation measures are	needed or feasible to implement or to a less-than-significant level	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 Consequer Impact Determinations (C before Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization	n, 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	ind unavoidable	
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 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 (Horizon 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	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	Alts B, C, D, E = B Alt A = NI	required to reduce impact mitigation measures are r	needed or feasible to implement or to a less-than-significant level	Alts B, C, D, E = NA Alt A = NI	Alts B, C, D, E = B Alt A = NI	

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 applicate	ble NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significan	t and unavoidable	
bicycle or pedestrian infrastructure would occur under Alternative A.	measures are needed or feasible to implement.					
Impact 3.6-16: Impacts on transit –2040 (Horizon 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 (Horizon 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. 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.	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 Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Miti	igation 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 = Potenti	ially significant S = S	Significant SU = Significant a	nd unavoidable	
Impact 3.6-18: Impacts on vehicular, bicycle, and pedestrian safety – 2040 (Horizon 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. 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 required to reduce impacts such that no mitigation measures are needed or feator the purposes of NEPA or to a less-th for the purposes of CEQA and TRPA.	o additional sible to implement	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 (Horizon 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 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.	The design features of Alternatives B, D, and E would avoid or minimize the environmental consequences related to 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	Alts B, D = LTS Alt E = B Alt A = SU Alt C = S	Mitigation Measure 3.6-19: Change the westbound directional traffic on US 50 Mitigation Measure 3.6-2  This mitigation would apply to Alternative improvements for the purposes of NEP/See Mitigation Measure 3.6-2 above. The measure would apply.	pursuant to ve C transportation A, CEQA, and TRPA.	Alts B, D, E = NA Alt A = Adverse effects on emergency access 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. 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	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 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** CEOA/TRPA NEPA CEQA/TRPA Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable NI = No impact which to implement or environmental enforce avoidance or consequences related to mitigation measures to emergency access in 2040. minimize impacts on vehicular, bicycle, and pedestrian safety in 2040 from Alternative A. Impact 3.6-20: Daily vehicle trip ends (DVTE) impacts - 2040 Alt A = NIAlts B. C. D. E Mitigation Measure 3.6-20: Mitigate DTVE impacts Alts A. E = NA Alts B. C. D. E = LTS (Horizon Year) Mitigation Measure 3.6-20 = LTS through Air Quality Mitigation Fund Contribution Alts B. C. D = NoAlternatives B. C. and D transportation improvements would has been incorporated into Alt A = NIThis mitigation would apply to Alternatives B, C, and D Alt A = NIadditional mitigation not generate any additional DVTEs. However, these three Alternatives B. C and D to mixed-use development for the purposes of NEPA, CEQA, measures would be needed or are feasible to alternatives would all generate greater than 200 net new further reduce to the extent and TRPA. DVTEs with the implementation of the mixed-use development. feasible the environmental The project proponent shall contribute to the Air Quality implement. Mitigation Fund in accordance with Chapter 65 - Traffic Because the displaced housing would be replaced at a one for consequences related to one basis with the replacement housing component of these generating additional daily and Air Quality Mitigation Program of the TRPA Code. The alternatives, the replacement housing would not generate any vehicle trip ends; The air quality mitigation fee shall be assessed in accordance net new DVTEs. Alternative A would include no modifications to design features of with the mitigation fee schedule in the TRPA Rules of Alternative E would avoid or the existing conditions. Alternative E would not generate any Procedure. Fees generated by the air quality mitigation fee additional DVTEs. minimize the are used to support programs/improvements that reduce environmental VMT, improve air quality, and encourage alternative consequences related to modes of transportation. daily vehicle trip ends in 2040 such that no additional mitigation measures are needed or feasible to implement. 3.7 Visual Resources/Aesthetics Impact 3.7-1: Degradation of scenic quality and visual Alt A = NIAlt A = NIMitigation Measure 3.7-1a: Mitigate for Changes in Visual Alt A = NIAlt A = NIMitigation Measures 3.7-1a Alts B. C. D. E Character from Pioneer Trail to Montreal Road Alts B. C. D. and E = Alts B. C. D. E character and 3.7-1b have been = S Mitigation Measures 3.7-= SU Build Alternatives B through E would involve physical changes This mitigation measure would apply to the transportation incorporated into 1a and 3.7-1b have been within the project site that would be visually evident to the improvements included in Alternatives B. C. and D for the Alternative B. C. D. and E to incorporated into public. Depending on the nature and intensity of project-related purposes of NEPA, CEQA, and TRPA.

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 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 SU = Significant and unavoidable Realigning US 50 through the existing Rocky Point Alternatives B, C, and D, changes, they could potentially degrade the existing visual further reduce to the extent quality or character of the site and its surroundings, including a feasible the environmental residential neighborhood between Pioneer Trail and but there are no other potential decrease in the TRPA Travel Route rating of roadway consequences related to Montreal Road would cause substantial changes in visual feasible mitigation, travel units or inconsistency with the TRPA SOIP, TRPA Design the degradation of scenic conditions. Realigned US 50 would be designed in avoidance, or Review Guidelines, or applicable height and design standards. quality and visual accordance with all applicable design standards and minimization measures Under Alternatives B, C, and D, the existing four-lane US 50 character. guidelines and thus would exhibit a high level of visual that could further reduce through the tourist core would be reconfigured as a two-lane quality; however, it would result in significant change in to the extent feasible the roadway. Lake Parkway and Montreal Road would be visual character on the neighborhood. The addition of environmental developed as the realigned US 50, either as a four-lane or twonoise barriers could also contribute to the adverse change consequences related to in visual character. lane roadway, depending on the alternative. A new section of scenic quality and visual roadway would be built from Montreal Road at Fern Road character. Mitigation Measure 3.7-1b: Mitigate for Changes in Visual connecting to existing US 50 near what is now the intersection Character on Roadway Travel Unit #32 of US 50 and Pioneer Trail through an existing neighborhood. This mitigation measure would apply to Alternative E for Under Alternative E, no changes to existing roadways would purposes of NEPA, CEQA, and TRPA. occur, except the removal of the signalized at-grade pedestrian The elevated skywalk would be a massive, new, humanscramble between Montbleu Resort Casino and Spa and the made feature within Roadway Travel Unit #32 and would Hard Rock Hotel and Casino. Instead, an elevated pedestrian be seen by motorists on US 50 traveling in either direction skywalk structure would be constructed over US 50 through as they approach the skywalk and they travel beneath it. the Casino Core from Stateline Avenue to the north end of the The visual dominance of the skywalk would cause a Montbleu Resort Casino. decrease in the travel route rating from 13.5 to 10 for Most effects on scenic quality from implementation of Roadway Travel Unit #32, indicating an adverse effect on Alternatives B, C, and D would result in a mix of impacts either scenic quality. In views from the road, the skywalk would because no changes in visual conditions would occur, changes decrease the intactness and unity of views from the road, that would occur would be visually beneficial, or changes would and the visual presence of the skywalk structure and its be compatible with existing conditions. Proposals for the mixedenclosure of the highway would substantially degrade the use development projects would have to undergo their own character of the roadway corridor as experienced by environmental review once they are defined and submitted for motorists. permitting, so it is unlikely that there would be a significant To mitigate for this impact, TTD, TRPA, and FHWA could difference between the build alternatives with the transportation modify the design the elevated skywalk feature to reduce improvements alone or with the mixed-use development. its visual mass by converting it to more narrow overhead Development of Alternative E would result in scenic quality pedestrian walkway crossings only. This design impacts, because it would cause a decrease in the travel route modification would avoid impacts on the intactness and

rating for Roadway Travel Unit #32 due to a decline in scenic

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	
quality from the covering of the road with a pedestrian structure. Effects on visual character associated with Alternatives B, C, and D within the residential neighborhood between Montreal Road 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 CEQA and TRPA.			unity of views from the roa eliminate degradation of t corridor as experienced b	the character of the roadway			
Impact 3.7-2: Interference with or disruption of scenic vistas or scenic resources  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 needed along the new section of US 50 to reduce traffic noise on residential properties. Alternative E would involve constructing an elevated pedestrian skywalk over US 50. Large, elevated structures have the potential to block or disrupt scenic vistas or views of individual scenic resources.  Implementation of Alternatives B, C, and D would result in minimal impacts on scenic vistas and views of identified scenic resources because no such views would be affected by project features. Any new mixed-use development that might occur 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 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 Measure3.7-2 has been incorporated into Alternative E to further reduce to the extent feasible impacts on scenic vistas and scenic resources.	Alt A = NI Alts B, C, D = LTS Alt E = S	Quality Rating for Scenic I This mitigation measure v purposes of NEPA, CEQA, The proposed skywalk str constructed as part of Alte potential to affect views o resources, by interfering v 32.1 and 32.3. The skywa the Scenic Quality rating o resources. To mitigate for this impact modify the design of the e reduce its visual mass, as Measure 3.7-1b. This des the walkway's interference	vould apply to Alternative E for and TRPA.	Alts A, B, C, D = NA Alt E = Mitigation Measure 3.7-2 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 scenic vistas and scenic resources.	Alt A = NI Alts 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 NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial Alt A = NIAlt A = NIMitigation Measure 3.7-3: Mitigate for Headlights Shining Alts A, E = NA Impact 3.7-3: Increased light and glare Alt A = NINew 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, additional mitigation = LTS has been incorporated into PS 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 NEPA, CEQA, and TRPA. needed or are feasible to further reduce to the extent safety lighting (street lights) at intersections of local streets with Sound barriers (walls or other noise abatement measures) feasible the light and glare implement. realigned US 50. The introduction of a new source of light impacts. The design would be necessary to control traffic noise within the during nighttime hours in these urban settings would not features of Alternative E Rocky Point residential neighborhood that realigned US 50 would pass through (see Mitigation Measures 3.15-3a, substantially alter the amount of illumination, recognizing the would avoid or minimize 3.15-3b, and 3.15-3c in Section 3.15, "Noise and existing night lighting of roadways, parking lots, and light and glare impacts commercial areas. Alternatives B, C, and D would also route such that no additional Vibration"). A secondary effect of the noise abatement the western segment of realigned US 50 through an existing mitigation measures are measures would be to block vehicle headlights from residential neighborhood east of Pioneer Trail. The headlights needed or feasible to intruding onto residential properties. The barriers should be placed along realigned US 50 where private residences of traffic on the realigned highway could potentially affect implement. residents whose homes border on the realigned US 50. Mixedborder the realigned highway. Such barriers should be use development that could be part of Alternatives B, C, and D constructed of solid material (e.g., wood, brick, adobe, an would consist of new buildings and new exterior lighting. earthen berm, boulders, or combination thereof). All Standard design practices and regulations in local ordinances barriers will be designed to blend into the restored and planning documents pertaining to fixed sources of lighting landscape along the highway, to the extent feasible. would limit spillover illumination. Alternatives B, C, D, and E Ensuring a character consistent with the surrounding area would have a less-than-significant impact from fixed sources of may involve the use of strategically placed boulders. light and glare. Alternatives B, C, and D would have a native trees, or other vegetation; the addition of special potentially significant impact from headlights of vehicles materials (e.g., wood or stonework) on the facade of the sound wall; and/or a sound wall that is covered in shining onto residential properties bordering realigned US 50 in the Rocky Point neighborhood. Alternative A would have no 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 = NINo avoidance, minimization, or mitigation measures are NA Alt A = NIAlts B, C, D, E Alts B, C, D, E The build alternatives would not affect the NRHP-listed Friday's Alts B, C, D, E = NArequired to reduce impacts such that no additional Station, NRHP-eligible Pony Express Rider statue, or NRHP-= LTS mitigation measures are needed or feasible to implement = LTS

eligible site 26 Do 451/KBG-4. The build alternatives would not

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	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 applicate	ble NAdv = Not	adverse NI = No impact PS = Potentially sig	nificant S = S	Significant SU = Significant a	nd unavoidable
physically alter 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.			for the purposes of NEPA or to a less-than-sign for the purposes of CEQA and TRPA.	nificant level		
Impact 3.8-2: Disturb unique archaeological resources Construction and excavation activities associated with the build alternatives could result in sediment disturbance and removal, which can adversely affect archaeological resources. There are no known archaeological resources that would be damaged or destroyed by the build alternatives (Alternatives B, C, D, and E). Because Alternatives B, C, D, and E would include excavation and other ground-disturbing activities, these alternatives could result in adverse physical effects on unknown archaeological resources.	Alt A = NI Mitigation Measures 3.8- 2a, 3.8-2b, and 3.8-2c have been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible the environmental consequences related to unknown archaeological resources such that there would be No Adverse Effect on unknown archaeological 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.	Alt A = NI Alts B, C, D, E = PS	Mitigation Measure 3.8-2a: Install an Environic Sensitive Area fence The following mitigation would apply to transp improvements and mixed-use development, in replacement housing, for Alternatives B, C, an Alternative E for the purposes of NEPA, CEQA, An Environmentally Sensitive Area (ESA) fence installed to protect the unevaluated portion of Johnson's Cut-Off/Pony Express Trail/Lincoln alignment north of the project area. The fence installed from the entrance to Friday's Station a point 400 feet east of the Johnson's Cut-Off, Express Trail/Lincoln Highway segment. A signinstalled at the east end of the fence to exclude construction personnel access from the area fence. The fence shall be installed in coordina qualified archaeologist prior to ground-disturb and shall remain in place until after the project completed. The condition of the fence shall be periodically during the course of construction archaeologist who supervised its installation.  Mitigation Measure 3.8-2b: Conduct archaeolomonitoring The following mitigation was included in the REIR/EIS, which included the US 50/South Shoc Community Revitalization Project as one of the Capital Improvement Program projects in the mitigation would apply to transportation improvand mixed-use development, including replace	ortation including id D, and and TRPA. e shall be if the Highway e shall be on US 50 to //Pony in shall be de behind the attion with a ing activities of that been in the monitored by the including inclu	Alt A = NA 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

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 NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial housing, for Alternatives B, C, and D, and Alternative E for the purposes of NEPA, CEOA, and TRPA. In accordance with existing regulations, for grounddisturbing 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 considered a substitute for efforts to identify and evaluate cultural resources prior to project initiation. Where necessary, the project proponent shall seek Native American input and consultation. Mitigation Measure 3.8-2c: Stop work in the event of an archaeological discovery 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. If potentially significant cultural resources are discovered during ground-disturbing activities associated with individual project preparation, construction, or completion, the project proponent shall require the construction

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 CEOA/TRPA NEPA CEQA/TRPA Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable NI = No impact 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 Department of Parks and Recreation (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) for California projects. Consultation with the Nevada State Historic 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. Alt A = NIAlt A = NIMitigation Measure 3.8-3: Stop work if human remains Alt A = NAAlt A = NIImpact 3.8-3: Accidental discovery of human remains Construction and excavation activities associated with Mitigation Measure 3.8-3 Alts B, C, D, E are discovered Alts B. C. D = No Alts B, C, D, E has been incorporated into The following mitigation was included in the RTP/SCS = LTS development activities may result in sediment disturbance and = PS additional mitigation removal, which can unearth human remains if they are Alternatives B. C. D. and E EIR/EIS, which included the U.S. 50/South Shore measures would be Community Revitalization Project as one of the TTD needed or are feasible to present. Because the project would allow excavation and other to further reduce to the ground-disturbing activities, adverse physical effects on extent feasible the Capital Improvement Program projects in the RTP. This implement. undiscovered or unrecorded human remains could occur. environmental mitigation would apply to transportation improvements consequences related to and mixed-use development, including replacement disturbance of

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

Resource To	ppics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Ali	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	J = mixed-use	NA = Not applicab	ole NAdv = Not	adverse	NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
		undiscove unrecorde remains.			the pur In accoremain an indivithat the site overlie a) The information of the b) If the site overlie a. The information overlie	poses of NEPA, CE rdance with existing are discovered of vidual project site, ere will be no further or any nearby are adjacent human reapplicable Count or med and has decause of death is ne remains are of The descendants. Americans have landowner or the excavation work, disposing of, with remains and any provided in Publication of the Native Americans have landowner or the excavation work, disposing of, with remains and any provided in Publication of the Native Americans have landowner or the excavation work, disposing of, with remains and any provided in Publication of the Native Americans have unable to identify descendant faile within 24 hours a commission. The site shall be construction. Unan remains, grammony (as defined tection and Repat covered during group of the site of the project of the projec	ng regulations, if any human or recognized in any location on the project proponent will ensure her excavation or disturbance of the areasonably suspected to remains until:  by Coroner/Sheriff has been termined that no investigation of			

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by A	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
Impact 3.8-4: Disturb tribal cultural resources  Construction and excavation activities associated with the build alternatives could result in sediment disturbance and removal, which can adversely affect archaeological resources, including tribal cultural resources. There are no known tribal cultural resources that would be damaged or destroyed by Alternatives B, C, D, and E.  Because Alternatives B, C, D, and E would include excavation and other ground-disturbing activities, these alternatives could result in adverse physical effects on unknown tribal cultural resources.	Alt A = NI Mitigation Measures 3.8-4a and 3.8-4b have been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible environmental consequences related to unknown tribal cultural resources. The design features of Alternatives B, C, D, and E would avoid or minimize environmental consequences related to known tribal cultural resources.	Alt A = NI Alts B, C, D, E = PS	Mitigation Measure 3.8-4a: Conduct tribal cultural resources monitoring  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 tribal cultural resources, such as 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 tribal cultural resource 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 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	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

Resour	ce Topics/Impacts	Impa	onmental Consequenc act Determinations (CE fore Mitigation (by Alte	EQA, TRPA)	Avoidance, Minimization	Avoidance, Minimization, and/or Mitigation Measures			nces (NEPA)/ CEQA, TRPA) Itemative)
			NEPA	CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse B = Benefi	ial LTS = Less than significant	MU = mixed-u	se NA = Not applicabl	e NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
					qualified archaeologist ca find, and, if necessary, de measures in consultation agencies and interested pshall follow accepted profany find including submitt Record forms (Form DPR the California Historical Reoffice (North Central Information projects. The consulting a such resources for significh Historical Resources eligit 5024.1; Title 14 CCR Sective Nevada State Historic Prewashoe Tribe of Nevada aundertaken for the portion Consultation with the California shall be underta project in California. If the archaeologist, in cor Historic Preservation Officheritage Commission, and California, determines that PRC Section 21074 defin then construction may prodetermines that further in	o stop work in that area until a in assess the significance of the velop appropriate treatment with TRPA and other appropriate barties. A qualified archaeologist dessional standards in recording and of the standard DPR Primary 523) and location information to desources Information Center mation Center) for California rchaeologist shall also evaluate cance per California Register of colity criteria (PRC Section tion 4852). Consultation with the deservation Officer and the land California shall be land California shall be land California Native American Heritage land have for the portions of the land the portions of the land the find does not meet the lattion for tribal cultural resources, occeed. If the archaeologist ifformation is needed to evaluate ncy shall be notified and a data			

Resource Topics/Impacts	Environmental Consequen Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization	n, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
	NEPA	CEQA/TRPA			NEPA	CEQA/TRF	
Adv = Adverse B = Beneficial LTS = Less than significant MU = n	mixed-use NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = Si	gnificant SU =	Significant and unavoidab	
3.9 Floodplains							
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	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	required to reduce impact mitigation measures are r	needed or feasible to implement or to a less-than-significant level	NA	Alts A, E = Alts B, C, D = LTS	
3.10 Water Quality and Stormwater Runoff			<u> </u>				
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	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	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 = LTS	

impact these resources.

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 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 applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S =	Significant SU = Significant a	nd unavoidable
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 water quality by implementing required stormwater infrastructure. Alternatives A is the no build alternative and would have no impact relative to 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 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 lever for the purposes of CEQA and TRPA.		Alt A = NI Alts B, C, D = B Alt E = LTS
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	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 Rocky Point Stormwater Improvements  This mitigation measure applies to Alternatives B, C, and for the purposes of NEPA, CEQA, and TRPA.  The project proponent shall demonstrate that all Rocky Point Stormwater Improvements continue to meet the goals for which they were established, 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 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	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 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 Consec Impact Determination after Mitigation (by	is (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 = Significa	nt and unavoidable
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.			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.		
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		ı			
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	Alts A, E = NI The design features of Alternatives B, C, and D would avoid or minimize the soil compaction and	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 Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Environmental Cons Impact Determinati after Mitigation	ions (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 = Signific	cant and unavoidable
acres. Because the project would comply with TRPA land coverage regulations, including mitigation of disturbances in LCD 1b at a ratio of 1.5:1, TRPA permit requirements (e.g., SWPPP, BMPs), and (for mixed-use development, including replacement housing) transfer of excess allowable land coverage, there would be minimal potential to create an adverse effect related to land coverage. Alternatives A and E would not result in changes to TRPA-related land coverage.	land coverage environmental consequences such that no additional mitigation measures are needed or feasible to implement.				
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 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	Alt A = NI The design features of Alternatives B, C, D, and E would avoid or minimize	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	NA	Alt A = NI Alts B, C, D, E = LTS

Resource Topics/Impacts	Environmental Consequer Impact Determinations (C before Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization	n, and/or Mitigation Measures	Environmental Consequences (NEP Impact Determinations (CEQA, TRF 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	ignificant	SU = Significant a	nd unavoidable
saturated conditions. All transportation improvement components of Alternatives B, C, and D would be designed to meet California Department of Transportation (Caltrans) and Nevada Department of Transportation (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 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.	the potential risks due to seismic shaking, liquefaction, or seiche inundation hazards.		for the purposes of NEPA for the purposes of CEQA	or to a less-than-significant level and TRPA.			
3.12 Hazards, Hazardous Materials, and Risk of Upset	I						
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	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	Alt A = NI Alts B, C, D, E = LTS	required to reduce impact mitigation measures are	needed or feasible to implement or to a less-than-significant level		NA	Alt A = NI Alts B, C, D, = LTS

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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 (NEP/ Impact Determinations (CEQA, TRP 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	ignificant SU = Significant a	nd unavoidable	
construction projects. Use of hazardous materials would occur in compliance with all local, state, and federal regulations.	needed or feasible to implement.					
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 naturally-occurring radon gas, exposure to which has the potential to cause lung cancer. In addition, ADL could be present on and near roadway shoulders. Although the project incorporates best management practices, avoidance measures, and regulatory compliance, through construction of the project, it would be possible that previously unidentified contaminants, such as radon gas or ADL, could be disturbed or encountered by residents and workers. Although the project incorporates best management practices, avoidance measures, and regulatory compliance to reduce the potential for adverse effects, there is a risk of exposure of residents to radon gas and workers to ADL or other unknown contaminants.	Alt A = NI Mitigation Measures 3.12- 2a, 3.12-2b, 3.12-2c, and 3.12-2d have been incorporated into Alternatives B, C, D, and E to further reduce to the extent feasible the potential for exposure to recognized environmental conditions.	Alt A = NI Alts B, C, D, E = PS	Mitigation Measure 3.12-2a: Conduct surveys for asbestos-containing materials, aerially deposited lead, and lead-based paints and coatings  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.  1. Demolition of buildings and roadways containing asbestos and lead-based materials shall require specialized procedures and equipment, and appropriately certified personnel, as detailed in the applicable regulations. Buildings and roadways intended for demolition that were constructed before 1980 shall be surveyed for asbestos, while those constructed before 1971 shall be surveyed for lead. Prior to construction, all existing road right-of-ways in the project site shall be surveyed for lead contamination because of ADL and use of paint and coatings containing lead. All sampling shall be conducted consistent with applicable Caltrans and NDMV requirements.  2. A demolition plan shall be prepared for any location with positive results for asbestos or lead. The plan will specify how to appropriately contain, remove, and dispose of the asbestos and lead-containing material while meeting all requirements and BMPs to protect human health and the environment. A lead compliance plan shall be prepared by a Certified Industrial Hygienist (consistent with the requirements of Caltrans' SSP 14-11.07).	Alt A = NA 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	

Table S-1	Summ	ary of Resource Topic	s with Impac	s and Avoidan	ce, Minimiza	ation, and/or Mitigati	on Measures			
	Resource To	ppics/Impacts	Impact	nental Consequen Determinations (C e 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			NE	:PA	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 SL	l = Significant ar	nd unavoidable
						the written plan to the El Environmental Manager Division, describing the rincluding, but not limited locations that could contremove plumbing fixture potentially containing, hadetermine the waste class package contaminated is identify disposal site(s) power wastes. Demolition shall been accepted by the El Environmental Manager and all potentially hazard removed to the satisfact Environmental Health Deapplicant shall also proving the County that lead-bass and abatement, as approximated abatement, as approximated so concentrations greater that is prior to ground disturbar Tahoe Tom's Gas Station collected from the propositis location to evaluate petroleum hydrocarbon is 1998. Based on the resuconsistent with standard measures shall be devel	methods to be used to, If to, the following: (a) identify tain hazardous residues; (b) Is known to contain, or azardous materials; (c) Is sification of the debris; (d) Items and wastes; and (e) Items and wastes but he plan has Item Dorado County Department of Item Hazardous Waste Division dous components have been Item of El Dorado County Item of El Dorado County Item and asbestos testing Item of El Dorado County I			

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 NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial Environmental Management, Hazardous Waste Division. 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 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 RECs described above: ■ soils identified by the ADL surveys as being contaminated by lead within survey area ROWs: asbestos-containing materials surveys as contaminated by lead-based paint and asbestos-

Resource	e Topics/Impacts	Impact I	nental Consequen Determinations (C Mitigation (by Al	CEQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	nental Conseque Determinations Mitigation (by A	(CEQA, TRPA)
		NEPA (		CEQA/TRPA			NEPA	CEQA/TRPA
Adv = Adverse B = Beneficia	al 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	and unavoidable
					containing materials within bridge, pipe, and building materials;			
					■ guidance for relocation, removal, or repair of hazardous materials storage facilities (USTs or ASTs) that are affected by project construction; and			
					▲ information on assessment and potential handing of contaminated soils found during relocation.			
					The plan shall include procedures to stop work if evidence of potential hazardous materials or contamination of soils or groundwater is encountered during construction, including the applicable requirements of the Comprehensive Environmental Response, Compensation, and Liability Act and CCR Title 22 regarding the disposal of wastes.  Mitigation Measure 3.12-2c: Conduct radon investigation and implement radon-resistant construction techniques This mitigation would apply to mixed-use development sites associated with Alternatives B, C, and D for the purposes of NEPA, CEQA, and TRPA.  Prior to the occupancy of housing units associated with the three future mixed-use development sites, the			
					applicant or construction manager shall retain a licensed radon contractor to determine if radon is detected beyond the 4 pCi/L threshold. If the amount of radon exceeds the established threshold, the applicant shall retain a licensed radon contractor to reduce the radon in the affected residences to below the established threshold. Methods include, but are not limited to, the soil suction radon reduction system, which entails the installation of a vent pipe system and fan that pull radon from beneath the house and vent it to the outside. The radon contractor shall develop clear instructions for proper maintenance of the radon monitoring systems that would be installed in			

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, N	Minimization	, and/or Mitigation Measu	Impac	nmental Conseque et Determinations ( er 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	ble NAdv = Not	adverse NI =	No impact	PS = Potentially significant	S = Significant	SU = Significant a	nd unavoidable
			reduction syst statements sil with a modera Mitigation Me and, if necess implement re This mitigation sites associat purposes of N Prior to groun human occup shall retain ar 40 CFR Sectic evaluation ba regarding the and the distandetermine who warranted. If I shall be designed by the sampling practice, remeimplemented	tem, if require that indicate that experience and indicate that experience and indicate that experience and indicate that experience and indicate and contained and contained and consideration measured to the satisfator and indicate and consideration measured in the satisfator and indicate and indicate and consideration measured in the satisfator and indicate and indicate and consideration measured in the satisfator and indicate an	y to the mixed-use develop natives B, C, and D for the	recas  I ment  or lager I in VEC  low, by to  ng I sults y		
Impact 3.12-3: Exposure of people or structures to a significant risk of loss, injury, or death involving wildfires Implementation of all of the build alternatives would result in construction activities associated with the proposed transportation improvements and mixed-use development, including replacement housing. There would be a temporary, elevated risk of accidental ignition of a wildland fire, because of increased construction activity in a forested area that has a	The design features of Alternatives B, C, and D would avoid or minimize the potential to increase exposure of people or	Alts A, E = NI Alts B, C, D = LTS	required to re mitigation me	duce impacts asures are no ses of NEPA o	n, or mitigation measures as s such that no additional eeded or feasible to impler or to a less-than-significant and TRPA.	ment	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	ignificant SU = Significant a	nd unavoidable	
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, 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						
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 NOx threshold, and therefore CO emissions could be significant. Construction of Alternative E would not exceed EDCAQMD's NOx or CO threshold. All build alternatives (Alternatives B through E) could result in excessive fugitive dust emissions. In addition to construction associated with the roadway improvements, construction emissions related to the potential future mixed-use development sites for Alternatives B, C, and D could occur sometime in the future. Construction associated with redeveloping the mixed-use development sites alone with Alternatives B, C, and D would not exceed EDCAQMD's thresholds for NOx, ROG, or CO, but could result in excessive fugitive dust emissions.	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 NO <sub>x</sub> emissions  This mitigation would apply to Alternatives B, C, and D for purposes of NEPA, CEQA, and TRPA.  For all construction activities, the project proponent shall ensure that construction contractors comply with the following on-site construction measures to reduce emissions of NO <sub>x</sub> :   ■ 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 days before the use of subject heavy-duty off-road equipment, the project representative shall provide EDCAQMD with the anticipated construction timeline including start date, name, and phone	Alt A = NA Alts B, C, D, E = No additional mitigation measures would be needed or are feasible to implement.	Alt A = NI Alts B, C, D, = LTS	

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

Resource To	opics/Impacts	Impact	nental Consequenc Determinations (CE e Mitigation (by Alt	EQA, TRPA)	Avoida	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 applicable	le NAdv = Not	adverse	NI = No impact	PS = Potentially significant	S = Significant	SU = Significant a	nd unavoidable	
					and a Before constant appropriate to be owned achier redustrate alter treat becomes a becomes a becomes a become a clipped and construction and c.5 County of the before a becomes a becom	onsite foreman. re approval of G truction contractoval, a written can eavy-duty (> 50 e used in the coned, leased, and seve a project wide ction in NOx emit ewide fleet averages for reducing model engines, I native fuels, enginent products, and available. The EDCAQMD's Coulator.  In Measure 3.13 ction-related fugit igation would appear for the contractor section contractor section contractor section contractor sections.	rading Permits, the tor shall submit for EDCAQMI alculation demonstrating that horsepower) off-road vehicle istruction project, including subcontractor vehicles, will be fleet-average 20 percent assions as compared to ARB ge emissions. Acceptable emissions may include use of ow-emission diesel products fine retrofit technology, after-and/or other options as they be calculation shall be provident on the calculation of the calcul	f ed			
Impact 3.13-2: Consistency witransportation conformity The US Department of Transportation for the Mobility 2035) on January 28,	ortation (DOT) made a CAA ne TMPO's 2012 RTP/SCS (i.	Alternative would avoid e., effect on a	s B, C, D, and E d an adverse ir quality and are with air quality	Alt A = NI Alts B, C, D, E = LTS	No avoid required mitigation for the p	dance, minimizati d to reduce impac on measures are	ion, or mitigation measures are ts such that no additional needed or feasible to impleme or to a less-than-significant le	nt	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				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	= Significant	SU = Significant a	nd unavoidable	
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 (TRPA and TMPO 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.	plans and regional transportation conformity such that no additional mitigation measures are needed or feasible to implement.							
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 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 triggered during project operations. Implementation of any of the alternatives, including Alternative A, and associated mixed-use developments would not result in increased concentrations of CO that would expose sensitive receptors to unhealthy levels.	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	required to reduce impact mitigation measures are	ion, or mitigation measures are its such that no additional needed or feasible to impleme for to a less-than-significant le for and TRPA.	nt	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 Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) before Mitigation (by Alternative)  Avoidance, Minimization		Avoidance, Minimization, and/or Mitigation Measures	Environmental Conso Impact Determinati after Mitigation (	ons (CEQA, TRPA)
	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 = \$	Significant SU = Signific	ant and unavoidable
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, 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. Guidance 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 would be placed in close proximity to sensitive land uses.	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
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	The design features of Alternatives A, B, C, D, and E would avoid or minimize GHG emissions 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 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 applica	ble NAdv = Not	adverse NI = No impact PS =	= Potentially significant S = S	Significant SU = Significant a	nd unavoidable
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 MTCO2e/year 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.	measures are needed or feasible to implement.					
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 policies in place, as well as design measures that would protect against these climate change risks.	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 measures are needed or feasible to implement.	Alt A = NI Alts B, C, D, Alt E = LTS	No avoidance, minimization, or required to reduce impacts suc mitigation measures are neede for the purposes of NEPA or to a for the purposes of CEQA and T	ch that no additional ed or feasible to implement a less-than-significant level	NA	Alt A = NI Alts B, C, D, Alt E = LTS
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 the	Alt A = NI The design features of Alternatives B, C, and D would avoid or minimize the impacts related to	Alt A = NI Alt B, C, D = LTS Alt E = S	Mitigation Measure 3.15-1: Impreduce exposure of sensitive reby nighttime construction activi	eceptors to noise generated	Alts A, B, C, D = NA Alt E = Mitigation Measure 3.15-1 has been incorporated into Alternative E, but there	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

Resource Topics/Impacts	Environmental Conseq Impact Determination before Mitigation (b	s (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 app	icable NAdv = No	t adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Significant a	and unavoidable
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.	short-term construction noise such that no additional mitigation measures are needed or feasible to implement; Mitigation Measure 3.15-has been incorporated in Alternative E to further reduce to the extent feasible adverse construction-related noise	0	Alternative E only for the put TRPA.  The project proponent sha measures to reduce the levexposure during the evening 6:30 p.m. and 8:00 a.m. The measures already requestractices Policy for the Mir Construction-Generated Normal Construction-Generated Normal Construction-Generating of performed at night untraffic conflicts.  Designate a disturbar person's telephone normal construction sites residences. The distureceive all public commercial commercial public commeter determining the causi implementing any feat problem.  Provide advanced not land uses, tourist accommercial land uses where nighttime constructions sites where nighttime constructions sites accommercial land uses where nighttime constructions sites and the types of measures and the types of measures and the impact at particular the impact at particu	avel of construction noise and and nighttime hours between the measures are in addition to uired by TRPA's Best Construction nimization of Exposure to oise and Ground Vibration (TRPA telp:4 to 5). construction activity shall be ness necessary to minimize  the coordinator and post that tumber conspicuously around and provide to nearby rbance coordinator shall aplaints and be responsible for the of the complaint and asible measures to alleviate the tice to owners of all residential commodations, and to located within 1,110 feet the construction would occur sures being implemented to potentially affected receptors.	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.	

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

	e Mitigation (by Alt	EQA, TRPA) temative)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
NEPA CEQA/TRPA		CEQA/TRPA				NEPA	CEQA/TRPA
= mixed-use	NA = Not applicab	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significan	t and unavoidable
			<ul> <li>✓ Place temporary noise close to the noise sous such that it will break source and receptor.</li> <li>✓ Coordinating with own accommodation units nighttime construction year and days of the visit he lowest, to the example of the example of the lowest, to the example of the lowest example of the</li></ul>	e barriers or noise curtains as arce or receptor as possible the line of sight between the the line of sight between the the line of sight between the mers of all tourist is within this distance to limit in activity during those times of week when tourist occupancy extent feasible.  If areas used to support in activity, locate all equipment in mearby noise-sensitive in noise barriers shall be placed taging areas to shield nearby tors from excessive noise areas.  In so on all trucks and equipment in activity and provide an intermediate and areas and construction more an background noise levels.  In geonstruction materials and areas and construction sites een the hours of between 8:00 eparture of trucks hauling ging areas and construction only between the hours of and 6:30 p.m. This requirement all haulers at the time of the			
	= mixea-use	= mixed-use NA = Not applicat	= mixed-use NA = Not applicable NAGV = Not 3	<ul> <li>✓ Place temporary nois close to the noise sous such that it will break source and receptor.</li> <li>✓ Coordinating with own accommodation units nighttime constructio year and days of the vist he lowest, to the exist he lowest, and the lowest, to the exist he lowest, and the lowest he lowest he lowest, and the lowest he lo</li></ul>	✓ 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	<ul> <li>✓ 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.</li> <li>✓ 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.</li> <li>✓ 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.</li> <li>✓ 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.</li> <li>✓ 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 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.</li> <li>✓ Offer hotel accommodations to residents who would</li> </ul>	<ul> <li>✓ 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.</li> <li>✓ 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.</li> <li>✓ 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.</li> <li>✓ 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.</li> <li>✓ 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 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.</li> <li>✓ Offer hotel accommodations to residents who would</li> </ul>

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 applicat	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable
			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 the mixed-use development sites could expose nearby buildings to ground vibration levels that exceed FTA's 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  Designate a disturbance coordinator and post that person's telephone number conspicuously around the locations where pile driving would be performed. The disturbance coordinator shall receive all public complaints and be responsible for	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, E = SU

Table S-1	Summary of Resource Topic	s with Impact	s and Avoidan	ce, Minimiz	ation, and/or Mitigation Measures			
R	esource Topics/Impacts	Impact	nental Consequen Determinations (C e 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 = I	Beneficial LTS = Less than significant	MU = mixed-use	NA = Not applical	ole NAdv = Not	adverse NI = No impact PS = Potentially significant S = S	ignificant SU = Significant a	nd unavoidable	
					determining the cause of the complaint and implementing any feasible measures to alleviate the problem. The contact information of the disturbance coordinator shall also be provided to the owners of all properties for which a pre-inspection survey is performed.  Mitigation Measure 3.15-2b: Implement measures to reduce exposure of buildings and other structures to			
					levels of ground vibration that could result in structural			
					damage and to limit the level of human annoyance			
					The following noise abatement measures would apply for Alternative E only for the purposes of NEPA, CEQA, and TRPA.			
					The project proponent shall hire a qualified Nevada- and			
					California-registered geotechnical engineer to perform			
					site-specific study of the geotechnical conditions at the proposed skywalk site. The study shall determine the			
					propagation rate of ground vibration in the area, taking			
					into account local soil conditions, the age of the nearby			
					buildings, and other factors. The study shall determine			
					whether nearby structures and buildings could experience			
					structural damage from pile driving activity at the skywalk			
					site. The study shall also determine whether nearby residential dwellings, tourist accommodation units, and/or			
					commercial land uses would experience levels of ground			
					vibration that exceed FTA's vibration standard of 80 VdB			
					for human response.			
					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 or within			
					60 feet where sonic pile driving would occur. The inspection shall document pre-existing conditions,			
					including any pre-existing structural damage. The pre-			

Resource To	pics/Impacts	Impact [	nental Consequen Determinations (C Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization	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	ble NAdv = No	adverse NI = No impact	PS = Potentially significant S = Si	ignificant	SU = Significa	nt and unavoidable
					the use of photographs, vand shall include inside a cracks in walls, floors, driwith sufficient detail for occompletion of pile driving new actual vibration damboth surveys shall be proverview and acceptance of occur during construction be halted until the problem aceliminate the problem and Any damage to nearby but the pre-existing condition proponent.  The study shall also ident lessen the potential for state the potential for human massociated with construct project proponent shall reto implement the measur measures shall include, be following:  All necessary piles shall designed geotechnicated.  To the extent feasible designed so that impus ufficient distance from	d protect the adjacent buildings. ildings shall be repaired back to at the expense of the project ify site-specific measures to ructural damage and to reduce esponse from ground vibration ion of the skywalk and the equire construction contractor(s) residentified in the study. Such out are not limited to, the all be driven with sonic pile pact pile drivers, unless sonic ined to be infeasible by a			

propagation conditions), and sonic-driven piles are

Table S-1 Summary of Resource Topics with Impacts and Avoidance, Minimizat	n, and/or Mitigation Measures
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Resource Topics/Impacts	Environmental Conseque Impact Determinations ( before Mitigation (by A	CEQA, TRPA)	Avoidance, Minimizatio	n, 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 = Si	Significant SU = Significant and una		nd unavoidable
Adv = Adverse B = Beneficial LIS = Less than significant MU =	MA = Not applica	ble NAdv = Not	placed at least 60 fer structures to minimiz structural damage (e propagation condition)  To the extent feasible designed so that imp sufficient distance fro accommodation units (e.g., 300 feet, assum conditions), and soni sufficient distance fro structures to minimiz feet, assuming normal.  To further reduce pile impacts, holes shall be feasible depth. This will blows and/or the amount the pile, and would con activity closer to the grattenuated more effect.  Pile driving, earth mon activities shall be phase simultaneously in are receptors. The total will be substantially less operated separately;  Designate a disturbation person's telephone in the skywalk constructives in the disturbation. The disturbation is the structures in the disturbation in the skywalk constructives in the disturbation. The disturbation is the structure is denoted the structure is denoted to minimize the structures the structure	et from nearby buildings and e the potential to cause .g., 60 feet, assuming normal ns); e, project structures shall be act-driven piles are placed a om residences and tourist s to minimize human response ning normal propagation codriven piles are placed a om nearby buildings and e human response (e.g., 175 al propagation conditions); e-driving ground vibration be predrilled to the maximum would reduce the number of ount of time required to seat oncentrate the pile-driving ground where noise can be	gnificant	SU = Significant a	nd unavoidable

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	n, 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	Significant SU = Significant a	nd unavoidable	
				be provided to the owners of the a pre-inspection survey is			
			land uses, tourist acc commercial land uses where impact pile driv 175 feet of where son place. This noticing sl when and where pile types of measures be impact at potentially noticing shall also pro	tice to owners of all residential ommodations, and is located within 300 feet of wing would take place or within nic pile driving would take hall inform the recipients of driving would occur and the sing implemented to lessen the affected receptors. This by the contact information sturbance coordinator.			
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 applicable FHWA noise abatement criteria by the design year (i.e., 2040).  With Alternatives B, C, and D multiple existing noise-sensitive	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 the exposure of sensitive receptors to increased traffic noise levels.	Alt A = NI Alts B, C, D, E = S	reduction measures to reaffected receptors The following noise abate the Alternative B transport use redevelopment sites and TRPA.  Performance Requirement Traffic noise reduction meachieve the following:  1. Ensure that Receptors exposed to an average exceeds the land use established in TRPA's Statement 092 (TRPA 136 is not exposed to level that exceeds the	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 as 80, 88, 89, 90, and 91 are not the daily traffic noise level that abased 55 CNEL threshold Pioneer/Ski Run Plan Area as 2002c:3) and that Receptor an average daily traffic noise a land use-based 65 CNEL in TRPA's Tourist Core Area Plan	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 mitigation, avoidance, or minimization measures that could further reduce to the extent feasible the environmental consequences related to	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** CEQA/TRPA NEPA CEQA/TRPA 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 SU = Significant and unavoidable corridor would be exposed to noise levels that exceed TRPA's under cumulative conditions. These land use-based applicable land use-based CNEL threshold. CNEL 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 priority over Performance Requirements 3 and 4; the applicable traffic noise standard established by the City of 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 3 interior noise levels do not exceed 45 CNEL with windows and doors closed. However, the owners of dB, which is a TRPA significance criterion and a CEQA 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 These exceedances would occur under existing-plus-project approach the applicable NAC and/or experience a conditions (2020) and/or under cumulative-plus-project traffic noise level increase greater than Caltrans's conditions (2040) with a considerable contribution of the incremental increase criterion of 12 dB. For NEPA exceedance directly resulting from the implementation of the purposes, the feasibility of achieving this performance selected alternative. The intensity of these impacts would not requirement can be based on the Noise Abatement be substantially different with development of the replacement Decision Report prepared for the project housing at the mixed-use redevelopment sites with Alternatives (Caltrans2016), which was prepared pursuant to B, C, and D. guidance in Caltrans's Traffic Noise Analysis Protocol for New Highway Construction and Reconstruction

ı	Vo	ise	Rec	luct	ion I	eatu	res
					_		

Noise-reduction features may include, but are not limited to, any combination of the following:

Projects (Caltrans 2011) and 23 CFR 772; and
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.

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

Resource T	opics/Impacts	Impact	nental Consequenc Determinations (CE e Mitigation (by Alto	EQA, TRPA)	Avoida	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	le NAdv = Not	t adverse	NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable	
					rubb surfa prop over thick 15 p traff to 6 spee qual vehich has redu Cour than noise are to The mater boul each traff cont CNE sour with vege factor such and Mitig	erized hot-mix as ace treatment werties on top of lay shall be designess and rubbe ercent by weight in noise levels as dB (noise levels as dB (noise levels as dB) as compared the traffic travelity as compared to the traffic travelity as the predominant sound barriers of the predominant sound barriers of the predominant as ound barriers of the traffic to an excellent the traffic to an excellent the traffic to an excellent to an excellent the traffic traffic to an excellent the traffic tra	egment of roadway with isphalt (RHMA) or equivalent ith known noise-reducing the roadway surface. The RHMA igned with appropriate or component quantity (typically tof the total blend), such that re reduced by an average of 4 vary depending on travel ical conditions, and pavement id to noise levels generated by ing on standard asphalt. RHMA chieve this level of noise arts of California (Sacramento ment will require more frequent in ance and repair to maintain its fectiveness.  Or sound barriers between ind the roadway segments that it noise source at the receptors, must be constructed of solid brick, adobe, an earthen berm, ation thereof). The reflectivity of will be minimized to ensure that doff the barrier does not eedance of applicable TRPA other receptors. The level of in a barrier can be minimized obsorptive surface or with the to the barrier. Scenic quality into account during design, natural materials (e.g., berms fuce the visible mass of a wall. 3.7-3 also proposes the use of the				

Table S-1	Summ	ary of Resource Topic	s with Imp <i>a</i>	cts and Avoidan	ce, Minimiza	ntion, and/or Mitigat	tion Measures			
	Resource To	pics/Impacts	Impa	nmental Consequen ct Determinations (C fore Mitigation (by Ali	EQA, TRPA)	Avoidance, Minimization	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-us	e NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable
						describes details to el cause negative visual Visual Resources/Aes designed to blend into the highway, to the ex character 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 control of the specific location, le barriers for Alternative Bengineering design deviprovide engineering detinitiation of preliminary transportation improves purposes, however, bas planning-level noise and approximate location and Alternative Bengineering design deviprovide engineering detinitiation of preliminary transportation improves purposes, however, bas planning-level noise and approximate location and Alternative Bengineering designment to protect them. The approximin the range of 1,00	w removal on the adjacent sound barrier can be divided segments with a gap in the provide pedestrian access other.  ength, height, and design of noise B must be defined during relopment. It is not feasible to tails of noise barriers prior to the engineering for the ments. For conceptual planning sed on the environmental alysis in this document, the nd height of noise barriers for			

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

Resource To	opics/Impacts	Impact	nental Consequend Determinations (Cl e Mitigation (by Alt	EQA, TRPA)	Avoidance, Minimization	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	le NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	ignificant	SU = Significant a	and unavoidable
					between 6 to 8 fee Noise barriers wou right-of-way.  The conceptual ex be from the interse Pioneer Trail (near Primrose Road clo curve of the highwalignment (near th Road and Montreat Primerse Pioneer Trail (near Moss Road and Pierer Road (near th parking area of He Reduced vehicle specilimits, advisory signs, serve as traffic calmin barrier, center islanded design of any special not prevent the ability removal of any surfact biking.  Offer to the property motels/hotels, or oth units where the interiduced in sullation, upganded in sullation, upg	tent of the north barrier would ection of realigned US 50 and the existing intersection of oneer Trail) east to beyond he existing corner of the back eavenly Village Center).  The eds through posted speed and/or design features that he gelements (e.g., median s, and raised crosswalks). The traffic-calming features shall by to provide adequate snow does used for driving, walking, or cowners of residences, her tourist accommodation for noise levels would exceed noise insulation of exterior sound Transmission Class including but not limited to grades to drywall, acoustical hels, new windows, and new			

Table S-1	Summ	ary of Resource Topic	s with Impac	s and Avoidar	ice, Minimiza	ation, and/or Mitigation Measures			
	Resource To	ppics/Impacts	Impact	nental Consequer Determinations (C e 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	and unavoidable
			before Mitigation (by Alternative    NEPA   CEQA/   Ifficant   MU = mixed-use   NA = Not applicable   NA			accommodation units that do not currently have air conditioning, install an air conditioning system if necessary to ensure that residents can close all windows and doors during nighttime hours and maintain adequate interior comfort.  ✔ Acquire properties where the noise level would exceed TRPA thresholds, applicable Caltrans noise abatement criteria, and/or applicable local noise standards; or where traffic noise levels would increase by 3 dB CNEL or greater. Acquisition of additional properties shall only occur if other feasible noise reduction measures are not available to achieve the applicable standards or minimize traffic noise increases to less than 3 dB CNEL.  Selection and Design Process The selection and design of specific traffic noise reduction measures shall be supported by a site-specific noise abatement assessment conducted by a qualified acoustical engineer or consultant selected by the project proponent. This study shall be fully funded by the project proponent and approved by the project proponent, TRPA, and Caltrans prior to project construction. If necessary to support the effectiveness of selected noise reduction measures, the 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). 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			

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 NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial 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 mixeduse 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 (City of South Lake Tahoe and

	Resource To	ppics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Ali	EQA, TRPA)	Avoidance, Minimization	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 applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable	
						This performance required Performance Required Performance Required 2. TTD shall offer to retro (Receptor 55) sufficied interior noise level dowindows and doors of motel may choose to 3. To the extent feasible those receptors ident experience a traffic noise level incremental increase purposes, the feasibile requirement can be to Decision Report preparation (Caltrans's Traffic Noise Highway Construction (Caltrans 2011) and 24. To the extent feasible those receptors ident experience a traffic noise receptors ident experience a traffic noise Reduction Features Noise Reduction Features to, the same features identification Measure 3.15-	ofit the South Shore Innertly to ensure that its ambient ees not exceed 45 CNEL with losed. However, the owner of the refuse this offer; e, reduce traffic noise levels at iffed in Table 3.15-12 that would oise level that exceeds or cable NAC and/or experience a ease greater than Caltrans's criterion of 12 dB. For NEPA lity of achieving this performance based on the Noise Abatement ared for the project (Caltrans expared pursuant to guidance in se Analysis Protocol for New and Reconstruction Projects 23 CFR 772; and a reduce traffic noise levels at iffied in Table 3.15-12 that would oise level that exceeds the extandard (established by the hoe), and/or would experience a ease of 3 dB or greater.  In may include, but are not limited intified for Alternative B in 3a.  Seth, height, and design of noise				

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 Adv = Adverse B = Beneficial LTS = Less than significant MU = mixed-use NA = Not applicable NAdv = Not adverse PS = Potentially significant S = Significant SU = Significant and unavoidable NI = No impact 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): ▲ 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. ▲ 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 Primrose Road close to Pioneer Trail) east to the curve of the highway onto the Montreal Road alignment (near the existing intersection of Echo Road and Montreal Road).

■ The conceptual extent of the north barrier would be from the intersection of realigned US 50 and Pioneer Trail (near the existing intersection of Moss Road and Pioneer Trail) east to beyond Fern Road (near the existing corner of the back parking area of

Heavenly Village Center).

Table S-1	Summ	ary of Resource Topic	s with Im	pacts and Avoidan	ice, Minimiz	ation, and/o	r Mitigati	on Measures				
	Resource To	pics/Impacts	Im	vironmental Consequen pact Determinations (C before Mitigation (by Al	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 = mixed	d-use NA = Not applicat	ble NAdv = Not	adverse NI = No	o impact	PS = Potentially significant S = S	Significant	SU = Significant a	nd unavoidable	
						measures to re Alternative C shi identified for Alt Mitigation Mease reduction mease affected recept The following not the Alternative I use developme and TRPA. Performance Romance Romance Traffic noise receptive the following not the Alternative I and the exposed to exceeds the established Statement I and it is not to be in the exposed to exceed the established Statement I and it is not to be in the exposed to exceed the established of the exceptor Statement I and portions of the exposed for Receptor 25 noise level I alternative TRPA land I established	and design of adduce traffic mall adhere to the reaction of th	of specific traffic noise reduction noise impacts under to the same requirements in Mitigation Measure 3.15-5a. In the same requirements in Mitigation Measure 3.15-5a. In the same requirement traffic noise under traffic noise exposure at the nent measures would apply to ation improvements and mixed-the purposes of NEPA, CEQA,				

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 NI = No impact PS = Potentially significant S = Significant SU = Significant and unavoidable Adv = Adverse B = Beneficial under cumulative-no-project conditions. This performance requirement shall take priority over Performance Requirements 2, 3, and 4; 2. TTD shall offer to retrofit the Trailhead Motel (Receptor 20) with sufficient noise insulation to ensure that its ambient interior noise levels do not exceed 45 CNEL with windows and doors closed. However, the owners of the motel may choose to refuse this offer: 3. To the extent feasible reduce traffic noise levels at Receptors 42, 68, 71, 83, and 84 so they would not 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 (Caltrans 2011) and 23 CFR 772 and is included in Appendix E to the RTP/SCS EIR/EIS; and 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 may include, but are not limited to, the same features identified for Alternative B in

Noise Reduction Features

Mitigation Measure 3.15-3a.

TTD	/TDDA	/ ELI\\\/ \\

Resource T	opics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization	n, and/or Mitigation Measures	Impact [	nental Conseque Determinations Mitigation (by A	(CEQA, TRPA)
			NEPA	CEQA/TRPA				NEPA	CEQA/TRPA
Adv = Adverse B = Beneficial	LTS = Less than significant M	U = mixed-use	NA = Not applicat	ole NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant	SU = Significant a	and unavoidable
					south side of the relocated specific location, length, h barrier for Alternative D m engineering design develor. Alternative B, adhere to M negative visual impacts (s Resources/Aesthetics). It engineering details of a not of preliminary engineering improvements. For conceptowever, based on the enanalysis in this document, height of the noise barrier.  A A barrier would need to the realigned US 50 a residences behind it. estimated to be in the The height needed for attenuation would be road surface. The noise within the public right of the south barrier wo frealigned US 50 an existing intersection of east to the curve of the Road alignment (near Heavenly Village Cent.  If the existing residem (represented by Receptaced with mixed-ucompletion of the real a barrier would also needs to the r	ust be defined during opment and, as described for litigation Measure 3.7-3 to avoid ee Section 3.7, Visual is not feasible to provide bise barrier prior to the initiation of for the transportation ptual planning purposes, vironmental planning-level noise, the approximate location and for Alternative D are as follows: to be built on the south side of dignment to protect affected. The approximate length is a range of 800 to 1,000 feet. If an approximately 5 dB between 6 to 8 feet above the se barrier would be entirely ending the from the intersection of Pioneer Trail (near the off Echo Road and Pioneer Trail) he highway onto the Montreal of the existing corner of the			

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

Resource T	opics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Al	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures		Environmental Consequences (N Impact Determinations (CEQA, after Mitigation (by Alternati		
			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 = Si	ignificant	SU = Significant a	and unavoidable
Auv = Auverse B = Beneficial	LIS = Less than significant	INIO = ITIXECI-USE	ма = посарриса	ie ivauv = not	these affected reside of the barrier on the r 50 alignment is estim to 800 feet.  Selection and Design Pro The selection and design measures to reduce traffication Alternative D shall adhere identified for Alternative E Mitigation Measure 3.15-reduction measures to reaffected receptors  The following noise abate Alternative E for the purpor Performance Requirement Traffic noise reduction meachieve the following:  1. Ensure that implement contribute to an exceed CNEL threshold established Area Plan (City of Sou 2013:5-3 to 5-4) at R conditions. This means shall be implemented by a minimum of 1 de Alternative E condition requirement would all not contribute to an extransportation noise services.	nces. The approximate length north side of the realigned US nated to be approximately 600  cess of specific traffic noise reduction c 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 oses of CEQA and TRPA.  Ints casures shall be implemented to easures shall be implemented to easure of the land use-based 65 of the land use-based 65 of the land use-based 65 of the land traffic noise exposure at easures and TRPA ecceptor 136 under cumulative is that noise reduction measures it to reduce the traffic noise level is under the cumulative-plus-	gmicant	SU = Signinicant	and unavoidable

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	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 applical	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Significant a	and unavoidable
			99, 102, 107, 135, a offset the contribution cumulative conditions CNEL standard estab Tahoe for these land 3. TTD shall offer to retro 20) and the Park Tah sufficiently to ensure levels do not exceed closed. However, the choose to refuse this Noise Reduction Features Noise reduction features to, the same features ide Mitigation Measure 3.15-Selection and Design Pro The selection and design measures to reduce traffi Alternative E shall adhere	ofit the Trailhead Motel (Receptor one Aspen Court (Receptor 107) that its ambient interior noise 45 CNEL with windows and doors owners of these motels may offer.  Is may include, but are not limited intified for Alternative B in 3a.  Cess  of specific traffic noise reduction		
Impact 3.15-4: Noise/land use compatibility of mixed-use redevelopment sites  Alternatives A and E would not include the redevelopment of any areas within the project site that would expose new land uses to excessive noise levels.  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.	Alts A, E = NI Mitigation Measure 3.15-4 has been incorporated into Alternatives B, C, and D to further reduce to the extent feasible the potential to expose land uses to an incompatible noise environment.	Alts A, E = NI Alts B, C, D = PS	measures to ensure that mixed-use redevelopmen levels greater than 60 CN. The following noise abate the Alternative B, C, and I for the purposes of NEPA. Performance Requirement Developers of each mixed required to ensure that an exceed 60 CNEL at all controls.	ment measures would apply to O mixed-use development sites , CEQA, and TRPA.	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 Impacts and Avoidance, Minimization, and/or Mitigation Measures

Resource T	ppics/Impacts	Impact	nental Consequen Determinations (C e Mitigation (by Al	EQA, TRPA)	Avoida	nce, Minimizatio	n, and/or Mitigation Measures	Environmental Consequences (NEPA)/ Impact Determinations (CEQA, TRPA) after Mitigation (by Alternative)		
			NEPA	CEQA/TRPA				NEPA C		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
Common outdoor activity area mixed-use redevelopment site developed under Alternatives outdoor activity areas could be that exceed the City of South I	s that would potentially be B, C, and D. These common e exposed to traffic noise leve				be achi housing condition Noise F Measure but are so year as p and stranger from the material stranger	eved at each site is units and under to in for Alternatives is deduction Features es to reduce noise not limited to, anying back common ossible from the tegically locating our activity areas ic on the nearby inple of this type or ing Forest Suites way and Heaven alling outdoor souvelopment properity areas and the sound barriers merial (e.g., wood, ders, or combinate is noise reflection from a textured or abstation on or next do into the overall hetically pleasing character of the some the dominanting a character.	e exposure levels may include, or combination of the following: noutdoor activity areas as far nearest segment(s) of US 50; buildings to shield common of from noise generated by segment(s) of US 50. An of design layout exists at the service Resort on the corner of Lake			

Resource	Topics/Impacts	Impact	nental Conseque Determinations (G Mitigation (by A	CEQA, TRPA)	Avoidance, Minimizatio	n, and/or Mitigation Measures	Environmental Consequences (NE Impact Determinations (CEQA, TR after Mitigation (by Alternative		
			NEPA	CEQA/TRPA			NEPA	CEQA/TRP/	
Adv = Adverse B = Beneficial	LTS = Less than significant M	U = mixed-use	NA = Not applica	ble NAdv = Not	adverse NI = No impact	PS = Potentially significant S = S	Significant SU = Sign	ificant and unavoidable	
					vegetation; the additi wood or stonework) of and/or a sound wall to special icon panels of emblems meaningful on sound barriers so applicable local guide location and design of to any space requirer 50. Where desired a into two overlapping spedestrian access from and/or	oulders, native trees, or other on of special materials (e.g., on the façade of a sound wall; that is covered in vegetation. Idepicting works of art or to the area may be included long as they comply with any elines for public art. The of sound barriers shall adherements for snow removal on US sound barrier can be divided segments with a gap to provide om one side to the other; wity areas, such as swimming uilding rooftops.			
					noise exposure at outdoo use redevelopment site s acoustical engineer or co 8.6 of the City of South La study for each site shall b seeking to develop the sit prior to project constructi- effectiveness of selected site-specific noise abaten additional sound level me detailed site-specific mod FHWA's Traffic Noise Mod	of specific measures to reduce or activity areas at each mixed-hall be conducted by a qualified insultant pursuant to Policy HS-ake Tahoe General Plan. The refully funded by the applicant re and approved by City staff on. If necessary to support the moise reduction measures, the ment assessment may involve reasurements and/or the use of deling with software such as del (FHWA 2006), SoundPLAN dnaA (DataKustik 2015).			

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** CEOA/TRPA NEPA CEQA/TRPA 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 SU = Significant and unavoidable 3.16 Biological Environment Alts A. E = NI NA Impact 3.16-1: Disturbance or loss of common vegetation Alts A. E = NI No mitigation is required for any of the alternatives. Alts A. E = NI Alts B. C. D = Alts B. C. D = communities and wildlife habitats The design features of With three of the build alternatives (Alternatives B, C, and D), Alternative B. C. and D LTS LTS project implementation would result in the removal or would avoid or minimize disturbance of 0.5 to 1.7 acres of common natural vegetation the disturbance or loss of communities and habitats, including Jeffrey pine and low common vegetation sagebrush. Because these habitats are locally and regionally communities and wildlife common and abundant, and the project site is presently habitats. 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 projectrelated removal of common vegetation communities would occur. Impact 3.16-2: Disturbance or loss of sensitive habitats Alts A, E = NI Alts A, E = NI Mitigation Measure 3.16-2a: Implement vegetation Alts A, E = NAAlts A, E = NIAlts B, C, D = NoAlts B, C, D = (jurisdictional wetlands, riparian vegetation, SEZ, aquatic Mitigation Measures 3.16-Alts B, C, D = protection measures and revegetate disturbed areas habitat) 2a, 3.16-2b, and 3.16-2c PS This mitigation would apply to the transportation additional mitigation LTS Implementing Alternatives B, C, and D would result in direct have been incorporated improvements and mixed-use development sites included measures would be removal and disturbance of sensitive habitats, including waters into Alternatives B, C, and D in Alternatives B, C, and D for the purposes of NEPA, needed or are feasible to to further reduce to the of the United States, waters of the state, riparian habitat, and CEOA, and TRPA. implement. SEZs. With the no-build alternative (Alternative A) or Alternative extent feasible the Vegetation will not be disturbed, injured or removed. E, no project-related disturbance of sensitive habitats would environmental except in accordance with the TRPA Code and other conditions of project approval. All trees, major roots, and occur. consequences related to disturbance or loss of other vegetation, not specifically designated and approved sensitive habitats. for removal in connection with a project will be protected according to methods approved by TRPA. All vegetation outside the construction site boundary, as well as other

vegetation designated on the approved plans, will be protected by installing temporary fencing pursuant to Subsections 33.6.9 and 33.6.10 of the TRPA Code. Areas

Table S-1	Summ	ary of Resource Topic	s with Impac	ts and Avoidan	ice, Minimiz	ation, and/or Mitigation Measures			
	Resource To	ppics/Impacts	Impact	nental Consequer Determinations (C e 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 = Significan	t and unavoidable	
						outside the construction site boundary that sustain vegetation damage during construction will be revegetated according to a revegetation plan in accordance with Section 61.4.  Mitigation Measure 3.16-2b: Conduct delineation of waters of the United States and obtain authorization for fill and required permits  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 preliminary delineation of potential wetlands and other waters of the United States was conducted in 2010 and 2011 (TTD 2015). However, the preliminary delineation has not been verified by USACE. Additionally, because the delineation was completed more than 5 years before project construction, it is considered expired, and will need to be repeated prior to permit application and approval.  Before the start of on-site construction activities on any potentially affected jurisdictional resource, a qualified biologist will survey the project site for sensitive natural communities. Sensitive natural communities or habitats are those of special concern to resource agencies or those that are afforded specific consideration, based on Section 404 of the CWA, Sections 1600 et seq. of the California Fish and Game Code, and other applicable 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			

Resource To	pics/Impacts	Impact	nental Consequend Determinations (Cl e Mitigation (by Alt	EQA, TRPA)	Avoidance, Minimization, and/or Mitigation Measures	Impact	mental Conseque t Determinations ( er Mitigation (by Al	CEQA, TRPA
			NEPA	CEQA/TRPA			NEPA	CEQA/TRF
y = Adverse B = Beneficial	LTS = Less than significant	MU = mixed-use	NA = Not applicab	le NAdv = Not	adverse $NI = No impact$ $PS = Potentially significant$ $S = S$	ignificant	SU = Significant a	nd unavoidab
					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, authorization for such fill 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			
					agreement (LSAA) is required. If required under Section			
					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			
		[			management (Mikingstian Managemen 2 4 C Ob) and Mikingstian			1

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. The restoration plan for SEZs shall include the following:
  - identification of compensatory mitigation sites and criteria for selecting these mitigation sites;
  - complete assessment of the existing biological resources in the restoration areas;
  - in kind reference habitats for comparison with compensatory SEZs (using performance and success criteria) to document success;
  - monitoring protocol, including schedule and annual report requirements (Compensatory habitat shall be monitored for a minimum of five years from completion of mitigation, or human intervention [including recontouring and grading], or until the success criteria identified in the approved mitigation plan have been met, whichever is longer);

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	n, 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 and unavoida		
			best available scie specifications for r composition, amou gaps and bare grou minimum, compen must achieve 80 p vegetation by the e maintenance and u dying plants shall t continued until 80 achieved;  corrective measure are not met;  responsible parties reports; and  responsible parties	native plant densities, species ant of dead woody vegetation und, and survivorship; at a satory mitigation planting sites ercent survival of planted end of the five-year monitoring period or dead and be replaced and monitoring percent survivorship is es if performance standards as for monitoring and preparing as for receiving and reviewing ifying success or prescribing			
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,	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	improvements and mixed in Alternatives B, C, and D CEQA, and TRPA. A Tree Removal, Protection prepared by the project protection measures to concriteria and other requirer Code, prevent damage to remain, and determine applications and approaches	g plan pplies to the transportation -use development sites included of for the purposes of NEPA, on, and Replanting Plan shall be roponent to provide tree comply with the performance ments of Chapter 61 of the TRPA trees that are proposed to	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	

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	
provided that findings demonstrate that the tree removal is necessary. In Alternative A no trees would be removed.			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.			
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 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	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:  ■ Before construction activities begin, invasive plant infestations will be identified and appropriately treated where feasible. A qualified biologist will conduct a pre-construction survey for noxious weeds and other invasive plants in project construction areas, and determine the feasibility and appropriate method of removal/treatment. Treatments will be selected based on their effectiveness for each species ecology and phenology. All treatment methods—including the potential use of herbicides outside of potential wetland and SEZ areas—will be conducted in accordance with the law, regulations, and policies governing the land owner. Herbicides will not be used in sensitive habitats, including potential wetlands and SEZs. Land owners will be notified	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 Impacts and Avoidance, Minimization, and/or Mitigation Measures

	Resource To	pics/Impacts	Impact	nental Consequer Determinations (C e 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 = No	adverse NI = No imp	oact PS = Potentiall	y significant S = S	Significant	SU = Significant	and unavoidable
spread or introduction of invasive plants into common or sensitive vegetation communities and habitats from these alternatives.					In areas where weed areas will clearly delineated.  To ensure that the project site weeds, the proj seeds wheneve	of herbicides for inva- treatment is not feas be clearly flagged or e work exclusion. fill material and seed are free of invasive p ect will use on-site so r available. Fill and so imported to the proje	ible, noxious fenced to s imported to lants/noxious ources of fill and eed materials				
						certified weed-f addition, only co	ree by the Resident E ertified weed-free imp upland areas) will be	Ingineer. In ported materials			
						site clean and v project site fron unknown weed soil or plant par project site. Vel using high-pres weed-cleaning s area. Cleaning s botanist or noxi away from aqua inspected by th mud or other sig could be preser the equipment entry into work		ent entering the s or areas of d of all attached red into the will be cleaned esignated a weed-infested nated by a rand located ment will be tal monitor for or propagules roject site. If itor will deny			
						the plants will be a landfill in seal in another man	eed-infested areas ar e cut, if feasible, and ed bags or disposed ner acceptable to TR propriate. If cutting w	I disposed of in of or destroyed PA or other			

Table S-1 Su	mmary of Resource Topi	cs wit	-	s and Avoidan		ation, a	nd/or Mitiga	tion Measures		Fnvironr	mental Conseque	nces (NFPA)/
Resour	ce Topics/Impacts		Impact I	Determinations (C Mitigation (by Al	EQA, TRPA)	Avoida	nnce, Minimizatio	n, and/or Mitigation Measu		Impact	Determinations ( r Mitigation (by Al	CEQA, TRPA)
			NEPA CEQA/TRPA							NEPA	CEQA/TRPA	
Adv = Adverse B = Benefic	ial LTS = Less than significant	MU =	= mixed-use	NA = Not applicat	ole NAdv = Not	adverse	NI = No impact	PS = Potentially significant	S = Sign	nificant	SU = Significant a	nd unavoidable
						simi area mati cons they  Loca reve seed proju a siri of th such orch	lar materials will to minimize the erials by equipme struction. These rare not blown or ally collected nating getation shall be a material will be ect site, from with inilar elevation whe appropriate aun as cultivated time.	ve seed sources for used when possible. Plant collected from or near the nin the same watershed, an en possible and with appreciate thority. Persistent nonnation (Phleum pretense), is glomerata), or ryegrass	t and at roval eves			

## ATTACHMENT 1 TO TABLE S-1

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

<b>Table 3.13-8</b>	Best Available Control Measures		
Source Category	Control Measure	Guidance	
Backfilling	<ul> <li>O1-1 Stabilize backfill material when not actively handling; ar</li> <li>O1-2 Stabilize backfill material during handling; and</li> <li>O1-3 Stabilize soil at completion of activity.</li> </ul>	<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	<ul> <li>Maintain stability of soil through pre-watering of site prictor to clearing and grubbing; and</li> <li>Stabilize soil during clearing and grubbing activities; and</li> <li>Stabilize soil immediately after clearing and grubbing activities.</li> </ul>	▲ Apply water in sufficient quantity to prevent generation of	
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	■ Use of high pressure air to clear forms may cause exceedance of Rule requirements.	
Crushing	O4-1 Stabilize surface soils prior to operation of support equipment; and O4-2 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	O5-1 Pre-water soils prior to cut and fill activities; and O5-2 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 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris.	▲ Apply water in sufficient quantities to prevent the generation of visible dust plumes	
Disturbed soil	<ul> <li>O7-1 Stabilize disturbed soil throughout the construction sit and</li> <li>O7-2 Stabilize disturbed soil between structures</li> </ul>	e;	
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 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 08-3 Stabilize soils once earth-moving activities are complete	■ Upwind fencing can prevent material movement on site.	
Importing/ exporting of bulk materials	O9-1 Stabilize material while loading to reduce fugitive dust emissions; and O9-2 Maintain at least 6 inches of freeboard on haul vehicles and O9-3 Stabilize material while transporting to reduce fugitive dust emissions; and	<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> </ul>	

 Table 3.13-8
 Best Available Control Measures

Source Category		Control Measure	Guidance
	09-4 09-5	Stabilize material while unloading to reduce fugitive dust emissions; and Comply with Vehicle Code Section 23114.	▲ Provide water while loading and unloading to reduce visible dust plumes.
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> <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		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		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	5 5 7	<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	·	<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, pretrench 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>

 Table 3.13-8
 Best Available Control Measures

Source Category	Control Measure	Guidance
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	▲ Haul waste material off site immediately.
Unpaved roads/ parking lots	<ul> <li>19-1 Stabilize soils to meet the applicable performance standards; and</li> <li>19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.</li> </ul>	■ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements.
Vacant land	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.	

CVC = California Vehicle Code; mph = miles per hour

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