

Ontario International Airport Connector Project



DRAFT ENVIRONMENTAL IMPACT REPORT EXECUTIVE SUMMARY

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Prepared for:

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EXECUTIVE SUMMARY

This section of the Draft Environmental Impact Report (EIR) summarizes the characteristics of the proposed Ontario International Airport (ONT) Connector Project (Project), environmental impacts, mitigation measures, and residual impacts with the proposed Project.

INTRODUCTION

This Draft EIR is intended to provide decision-makers and the public with information that enables them to comprehensively consider the environmental consequences of the proposed action. This Draft EIR identifies significant or potentially significant environmental impacts, as well as ways in which those impacts can be reduced to less than significant levels, through the implementation of mitigation measures (MMs), or through the implementation of alternatives to the proposed Project.

SUMMARY OF PROPOSED PROJECT

San Bernardino County Transportation Authority (SBCTA) and the Federal Transit Administration (FTA) are sponsoring the proposed Project to provide a direct airport connection between ONT and the Cucamonga Metrolink Station. SBCTA is the Lead Agency under the California Environmental Quality Act (CEQA), and the FTA is the Lead Agency under the National Environmental Policy Act (NEPA). Partner agencies include Ontario International Airport Authority (OIAA), Omnitrans, the City of Rancho Cucamonga, and the City of Ontario.

The proposed Project is located in the City of Rancho Cucamonga and in the City of Ontario within San Bernardino County. The proposed Project alignment is a reversed L-shaped alignment consisting of the Cucamonga Metrolink Station, Milliken Avenue, East Airport Drive, and ONT in the Project area. Figure ES-1 illustrates the proposed Project area, which is described in Chapter 2.

The proposed Project would construct an underground 4.2-mile-long single tunnel (24-foot inner-diameter, bidirectional tunnel) to provide a direct connection between Cucamonga Metrolink Station and ONT. As shown in Figure ES-1, the northern segment of the proposed Project site is located within the Cucamonga Metrolink Station and its parking lots. From the Cucamonga Metrolink Station parking lots, the tunnel alignment will connect to Milliken Avenue and travel south under the existing roadway. At Ontario Mills Parkway, the tunnel alignment will shift to the western side of Milliken Avenue to avoid the Interstate 10 (I-10) overcrossing. The alignment will continue west of the I-10 overcrossing structure and travel south under I-10. The tunnel alignment will continue to run south; at Guasti Road, the alignment will curve southwest to connect to East Airport Drive. At East Airport Drive, the tunnel alignment will continue to travel west toward the proposed at-grade station at ONT Terminal 4 before reaching the proposed at-grade ONT Terminal 2 station in the City of Ontario.

Three stations would be constructed to serve the Cucamonga Station, ONT Terminal 2, and ONT Terminal 4. One maintenance and storage facility (MSF) would be located adjacent to the Cucamonga Metrolink Station to store, clean and maintain vehicles. One access vent shaft would be constructed to provide a means of emergency passenger egress and first responder access and as ventilation to support tunnel operations. During operation, the proposed Project would utilize autonomous electric vehicles that would transport passengers from each station on-demand. The autonomous electric vehicles would be grouped and queued at their origin station and depart toward the destination station once boarded with passengers.

CLASSIFICATION OF ENVIRONMENTAL IMPACTS

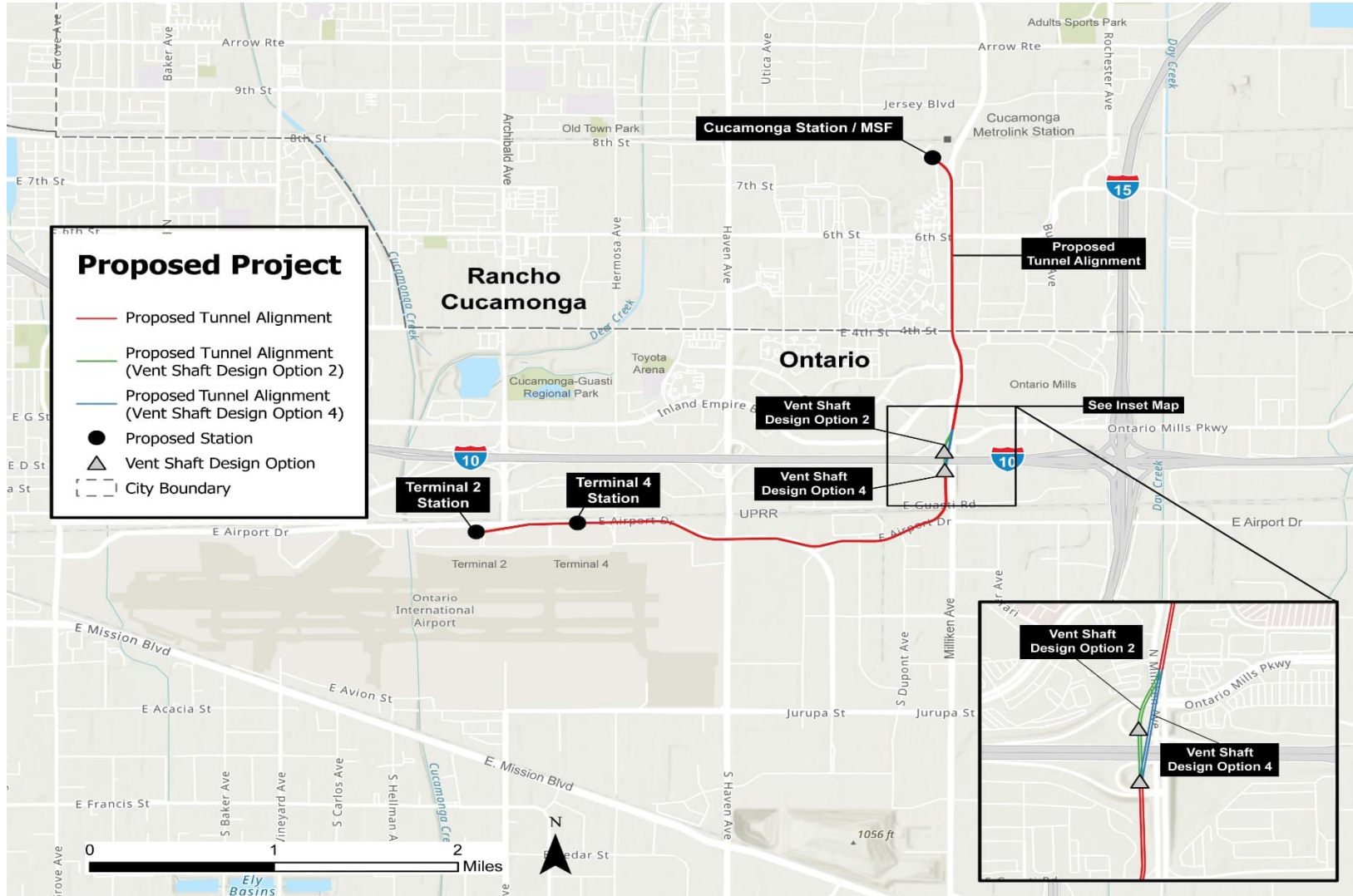
Under CEQA, a “significant impact” represents a substantial or potentially substantial adverse physical change to the environment. In evaluating specific effects, this Draft EIR identifies thresholds of significance for each effect, evaluates the potential environmental change associated with each effect, and then characterizes the effects as impacts in the following categories:

- Less Than Significant—Results in no substantial adverse change to existing environmental conditions.
- Potentially Significant—Constitutes a substantial adverse change to existing environmental conditions that can be mitigated to less than significant levels by implementation of proposed potentially feasible mitigation measures or by the selection of an environmentally superior project alternative.
- Significant and Unavoidable—Constitutes a substantial adverse change to existing environmental conditions that cannot be fully mitigated by implementation of all feasible mitigation measures.

SIGNIFICANT AND UNAVOIDABLE IMPACTS

The following significant, unavoidable adverse impacts would result from project implementation. A detailed discussion of these impacts can be found in Section 4 (Environmental Impact Analysis) of this document.

Figure ES-1 Proposed Project Site



Source: AECOM 2024

- Air Quality
 - Cumulative—MM-AQ-1 would be implemented during construction to address potential impacts for particulate matter with diameter of 10 microns or less (PM₁₀) and particulate matter with diameter of 2.5 microns or less (PM_{2.5}) fugitive emissions and implement dust control measures to reduce impacts. However, the construction of the proposed Project would include PM₁₀ and PM_{2.5} emissions, and development of the cumulative projects would, in combination with the proposed Project, exceed the same significance thresholds. Therefore, the proposed Project's contribution would be cumulatively considerable, and the cumulative impact would be significant and unavoidable.
- Paleontological Resources
 - Project Specific and Cumulative—Although implementation of MM-PAL-1, MM-PAL-2, MM-PAL-3 and MM-PAL-4 may allow for some recovery of small fossils and some fossil material, if safe access to spoils is available, the tunnel boring machine (TBM) used to excavate the tunnel prevents access to the rock face, and produces fragmented material, which precludes the recovery of larger fossils, and limits the amount of contextual information that may be collected for scientific purposes. Additionally, because the locations of potential paleontological resources are unknown, movement of the Project to avoid paleontologically sensitive geologic units, and thus avoid impacts on paleontological resources, is not a viable approach for mitigation. Because mitigation or avoidance is not feasible and the impact must occur for enhancement to take place, impacts to scientifically significant, non-renewable paleontological resources during boring of the tunnel would remain significant and unavoidable.

ALTERNATIVES

As required by CEQA Guidelines Section 15126.6(a) and recent court cases, an EIR must:

Describe a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives.

Further, CEQA Guidelines Section 15126.6(b) states:

The discussion of alternatives shall focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project, even if these alternatives would impede to some degree the attainment of the project objectives or would be more costly.

Alternatives evaluated in this Draft EIR include the following:

- No Project Alternative: No Project/No Action Alternative

- Proposed Project: Project/Action Alternative

SUMMARY OF IMPACTS AND MITIGATION MEASURES

Pursuant to CEQA Guidelines Section 15123(b)(1), Table ES-1 contains a summary of environmental impacts associated with the proposed Project, mitigation measures that would reduce or avoid those effects, and the level of significance of the impacts following the implementation of mitigation measures.

Table ES-1: Summary of Environmental Effects and Proposed Mitigation Measures

Environmental Topic	Impact(s)	Level of Significance Prior to Mitigation	Mitigation Measure(s)	Level of Significance After Mitigation
Aesthetics and Visual Quality	Have a substantial adverse effect on a scenic vista?	LTS	No mitigation is required.	LTS
Aesthetics and Visual Quality	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	NI	No mitigation is required.	NI
Aesthetics and Visual Quality	If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	LTS	No mitigation is required.	LTS
Aesthetics and Visual Quality	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	LTS	No mitigation is required.	LTS
Agricultural and Forestry Resources	Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	NI	No mitigation is required.	NI
Agricultural and Forestry Resources	Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?	NI	No mitigation is required.	NI
Agricultural and Forestry Resources	Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland	NI	No mitigation is required.	NI

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	zoned Timberland Production (as defined by Government Code Section 51104[g])?			
Agricultural and Forestry Resources	Would the project result in the loss of forest land or conversion of forest land to non-forest use?	NI	No mitigation is required.	NI
Agricultural and Forestry Resources	Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	NI	No mitigation is required.	NI
Air Quality	Conflict with or obstruct implementation of the applicable air quality plan?	LTS	No mitigation is required.	LTS
Air Quality	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under and applicable federal or state ambient air quality standard?	PS	MM-AQ-1 Implement Basic Construction Emission Control Practices. The following construction measures to limit and reduce air emissions from the construction sites will be implemented: <ul style="list-style-type: none"> A. Control fugitive dust as required by District Rule 403 and enforced by District staff. B. Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to, soil piles, graded areas, unpaved parking areas, staging areas, and access roads. C. All haul trucks transporting soil, sand, or other loose material off site shall be covered. D. Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered. E. Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited. 	SU for construction. LTS for operation.

Environmental Topic	Impact(s)	Level of Significance Prior to Mitigation	Mitigation Measure(s)	Level of Significance After Mitigation
			<ul style="list-style-type: none"> F. Limit vehicle speeds on unpaved roads to 15 miles per hour (mph). G. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. In addition, building pads shall be laid as soon as possible after grading, unless seeding or soil binders are used. H. Idling times shall be minimized either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by California airborne toxics control measure Title 13, Section 2485 of the California Code of Regulations). Provide clear signage that posts this requirement for workers at the entrances to the site. I. Provide current certificate(s) of compliance for California Air Resources Board (CARB)'s In-Use Off-Road Diesel-Fueled Fleets Regulation [California Code of Regulations, Title 13, Sections 2449 and 2449.1]. J. Maintained all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determined to be running in proper condition prior to operation. 	
Air Quality	Expose sensitive receptors to substantial pollutant concentrations?	LTS	No mitigation is required.	LTS
Air Quality	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	LTS	No mitigation is required.	LTS
Biological Resources	Have a substantial adverse effect either directly or through habitat modifications, on any species identified as a candidate, sensitive,	PS	MM-BIO-1 Nesting habitat for protected or sensitive avian species: 1. Vegetation removal and construction shall occur between September 1 and January 31 whenever feasible.	LTS

Environmental Topic	Impact(s)	Level of Significance Prior to Mitigation	Mitigation Measure(s)	Level of Significance After Mitigation
	<p>or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?</p>		<ol style="list-style-type: none"> 2. Prior to any construction or vegetation removal between February 15 and August 31, a nesting survey shall be conducted by a qualified biologist of all habitats within 500 feet of the construction area. Surveys shall be conducted no less than 3 days and no more than 7 days prior to commencement of construction activities and surveys will be conducted in accordance with California Department of Fish and Wildlife protocol as applicable. If no active nests are identified on or within 500 feet of the construction site, no further mitigation is necessary. A copy of the pre-construction survey shall be submitted to the lead agency San Bernardino Transportation Authority, as well as the California Department of Fish and Wildlife and the United States Fish and Wildlife Service. If an active nest of a Migratory Bird Treaty Act protected species is identified onsite (per established thresholds) the qualified biologist will establish the appropriate exclusionary buffer based on the species and the no-work buffer shall be maintained between the nest and construction activity. This buffer can be reduced in consultation with California Department of Fish and Wildlife and/or United States Fish and Wildlife Service, if applicable. 3. Completion of the nesting cycle shall be determined by qualified ornithologist or biologist. <p>MM-BIO-2 Burrowing Owl Nesting Habitat:</p> <ol style="list-style-type: none"> 1. Prior to construction activity, focused pre-construction surveys shall be conducted for burrowing owls where suitable habitat is present within the construction areas. Surveys shall be conducted no less than 14 days prior to commencement of construction activities and surveys shall be conducted in accordance with California Department of Fish and Wildlife burrowing owl survey protocol. 2. If no occupied burrows are found in the survey area, a letter report documenting survey methods and findings shall be submitted to the 	

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			<p>City of Rancho Cucamonga and/or City of Ontario, as well as the California Department of Fish and Wildlife for review and approval, and no further mitigation is necessary.</p> <ol style="list-style-type: none"> 3. If occupied burrows are found, impacts on the burrows shall be avoided by providing a buffer of 165 feet during the non-breeding season (September 1 through February 14) or 250 feet during the breeding season (February 15 through August 15). The size of the buffer area may be adjusted if a qualified biologist and California Department of Fish and Wildlife determine it would not be likely to have adverse effects on the owls. No project activity shall commence within the buffer area until a qualified biologist confirms that the burrow is no longer occupied. If the burrow is occupied by a nesting pair, a minimum of 7.5 acres of foraging habitat contiguous to the burrow shall be maintained until the breeding season is over. 4. If disturbance of occupied burrows is unavoidable, on-site passive relocation techniques approved by California Department of Fish and Wildlife shall be used to encourage owls to move to alternative burrows outside of the impact area. However, no occupied burrows shall be disturbed during the nesting season unless a qualified biologist verifies through non-invasive methods that juveniles from the occupied burrows are foraging independently and are capable of independent survival. Mitigation for foraging habitat for relocated pairs shall follow guidelines provided in the California Burrowing Owl Consortium’s Burrowing Owl Survey Protocol and Mitigation Guidelines, which ranges from 7.5 to 19.5 acres per pair. <p>MM-BIO-3 Bat Nesting Habitat:</p> <ol style="list-style-type: none"> 1. During the bat maternity season (April 1–August 31), a qualified biologist shall perform a nighttime acoustic and emergence survey at the Union Pacific Railroad bridge over Milliken Avenue to 	

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Biological Resources	Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	LTS	<p>conclusively determine whether a maternity colony is present and identify any bat species present. This survey shall be performed at least one full calendar year before the start of construction to allow adequate time for mitigation planning if a maternity colony is found. If a maternity colony is found at the Union Pacific Railroad bridge over Milliken Avenue, a California Department of Fish and Wildlife approved bat biologist will coordinate with the project team and California Department of Fish and Wildlife to determine appropriate species-specific minimization measures because different species respond differently to various construction activities. Upon approval by California Department of Fish and Wildlife, the species-specific minimization measures shall be implemented and developed in consultation with California Department of Fish and Wildlife.</p> <ol style="list-style-type: none"> 2. To the greatest extent feasible, tree trimming/removal activities shall be performed outside the bat maternity season (April 1–August 31) to avoid direct impacts to nonvolant (flightless) young that may roost in trees within the study area. This period also coincides with the bird nesting season of March 15–September 15. 3. If night work (i.e., between dusk and dawn) is anticipated within 100 feet of structures where bat roosting is confirmed, night lighting shall be used only in areas of active work and focused on the direct area(s) of work and away from any roost features to the greatest extent practicable. 	LTS

Environmental Topic	Impact(s)	Level of Significance Prior to Mitigation	Mitigation Measure(s)	Level of Significance After Mitigation
Biological Resources	Would the project have a substantially adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	LTS	No mitigation is required.	LTS
Biological Resources	Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	PS	MM-BIO-1 also applies to this impact.	LTS
Biological Resources	Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	LTS	No mitigation is required.	LTS
Biological Resources	Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	NI	No mitigation is required.	NI
Cultural Resources	Would the project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	LTS during construction. NI during operation.	No mitigation is required.	LTS during construction. NI during operation.
Cultural Resources	Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	PS	MM-CLT-1 During project construction, limited archaeological monitoring (periodic spot-checks) of excavation activities between the east and west ends of East Terminal Way shall be conducted by a	LTS

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			<p>Registered Archaeologist/Registered Professional Archaeologist. In the event previously undocumented archaeological resources are identified during earthmoving activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease until the nature and significance of the find can be assessed by the consulting tribes and/or by a Registered Archaeologist/ Registered Professional Archaeologist meeting Secretary of Interior standards. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the Yuhaaviatam of San Manuel Nation Cultural Resources Department shall be contacted regarding any pre-contact and/or historic era finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment. If significant pre-contact and/or historic-era cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to Yuhaaviatam of San Manuel Nation Cultural Resources Department for review and comment. The archaeologist shall monitor the remainder of the Project and implement the Plan accordingly.</p>	
Cultural Resources	Would the project disturb any human remains, including those interred outside of formal cemeteries?	LTS during construction. NI during operation.	<p>MM-CLT-2 If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project. No further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to California Public Resources Code Section 5097.98. The County Coroner shall be notified of the find immediately. If the remains are determined to be Native American, the County Coroner shall notify the Native American Heritage</p>	LTS during construction. NI during operation.

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			Commission, which will determine and notify a Most Likely Descendant. With the permission of the landowner or his/her authorized representative, the Most Likely Descendant may inspect the site of the discovery. The Most Likely Descendant shall complete the inspection and make recommendations or preferences for treatment within 48 hours of being granted access to the site.	
Energy	Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	LTS	No mitigation is required.	LTS
Energy	Conflict with obstruct a state or local plan for renewable energy or energy efficiency?	LTS	No mitigation is required.	LTS
Geology, Soils, Seismicity, and Paleontological Resources	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	NI	No mitigation is required.	NI
Geology, Soils, Seismicity, and Paleontological Resources	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking and/or seismic-related ground failure, including liquefaction?	PS	MM-GEO-1 San Bernardino County Transportation Authority shall demonstrate to the City of Rancho Cucamonga and the City of Ontario that the design of the Project complies with all applicable provisions of the California Building Code with respect to seismic design for Zone 4. Compliance would include the following: <ul style="list-style-type: none"> The use of California Building Code Seismic Zone 4 Standards as the minimum seismic-resistant design for all proposed facilities. 	LTS

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Geology, Soils, Seismicity, and Paleontological Resources	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?	PS	<ul style="list-style-type: none"> • Additional seismic-resistant earthwork and construction design criteria (i.e., for the construction of the tunnel approximately up to 70 feet underground and etc.), based on the site-specific recommendations of a California Certified Engineering Geologist in cooperation with the Project’s California-registered geotechnical and structural engineers. • An engineering analysis that demonstrates satisfactory performance of alluvium or fill where either forms part or all of the support. • An analysis of soil conditions and appropriate remediation (compaction, removal/replacement, etc.) prior to using any expansive soils for foundation support. 	LTS
Geology, Soils, Seismicity, and Paleontological Resources	Project result in substantial soil erosion or the loss of topsoil?	LTS	No mitigation required.	LTS
Geology, Soils, Seismicity, and Paleontological Resources	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	PS	MM-GEO-3 A California-licensed Civil Engineer (Geotechnical) shall prepare and submit to the San Bernardino Transportation Authority a detailed soils and geotechnical analysis. This evaluation may require subsurface exploration.	LTS

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			<p>MM-GEO-4 A registered soil professional shall submit to and have approval by the San Bernardino Transportation Authority a site-specific evaluation of unstable soil conditions, including recommendations for ground preparation and earthwork activities specific to the site and in conformance to City of Rancho Cucamonga and City of Ontario Building Codes.</p> <p>MM-GEO-5 The proposed Project shall comply with the recommendations of the final soils and geotechnical report. These recommendations shall be implemented in the design of the Project including, but not limited to, measures associated with site preparation, fill placement, temporary shoring and permanent dewatering, groundwater seismic design features, excavation stability, foundations, soil stabilization, establishment of deep foundations, concrete slabs and pavements, surface drainage, cement type and corrosion measures, erosion control, shoring and internal bracing, and plan review.</p>	
Geology, Soils, Seismicity, and Paleontological Resources	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	PS	MM-GEO-6 San Bernardino County Transportation Authority shall demonstrate that the design of the Project complies with all applicable provisions of the City of Rancho Cucamonga and City of Ontario's Building Codes.	LTS
Geology, Soils, Seismicity, and Paleontological Resources	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	NI	No mitigation is required.	NI
Geology, Soils, Seismicity, and Paleontological Resources	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	PS	MM-PAL-1 Engage a qualified paleontological resources specialist. Prior to construction (any ground-disturbing activities), the contractor shall designate a qualified Paleontological Resources Specialist for the Project (approved by San Bernardino County Transportation Authority). The	SU

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			<p>Paleontological Resources Specialist will be responsible for developing a detailed Paleontological Resources Impact Mitigation Plan as well as implementing the Paleontological Resources Impact Mitigation Plan, including development and delivery of Worker Environmental Awareness Program training, evaluation and treatment of finds, if any, and preparation of a final paleontological mitigation report, per the Paleontological Resources Impact Mitigation Plan. Paleontological Resources Monitors will be selected by the Paleontological Resources Specialist based on their qualifications, and the scope and nature of their monitoring will be determined and directed by the Paleontological Resources Specialist based on the Paleontological Resources Impact Mitigation Plan. The Paleontological Resources Specialist will document, evaluate, and assess any discoveries, as needed.</p> <p>MM-PAL-2 Prepare and implement a Paleontological Resources Impact Mitigation Plan. The Paleontological Resources Impact Mitigation Plan would be consistent with the Society of Vertebrate Paleontology. Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources, the Society of Vertebrate Paleontology Conditions of Receivership for Paleontological Salvage Collections, and relevant guidance from Chapter 8 of the current California Department of Transportation (Caltrans) Standard Environmental Reference. As such, the Paleontological Resources Impact Mitigation Plan would provide for at least the following:</p> <ul style="list-style-type: none"> • Implementation of the Paleontological Resources Impact Mitigation Plan by qualified personnel, including the following positions: <ul style="list-style-type: none"> ○ Paleontological Resources Specialist – The paleontological resources specialist will be required to meet or exceed 	

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			<p>Principal Paleontologist qualifications per Chapter 8 of the current Caltrans Standard Environmental Reference.</p> <ul style="list-style-type: none"> ○ Paleontological Resources Monitors – The Paleontological Resources Monitors would be required to meet or exceed Paleontological Monitor qualifications per Chapter 8 of the current Caltrans Standard Environmental Reference. ● Requirements for paleontological monitoring by qualified Paleontological Resources Monitors of all ground-disturbing activities known to affect, or potentially affect, paleontologically sensitive geologic units. Based on more detailed information on the methods, equipment, and procedures involved in ground disturbance, including the Tunnel Boring Machine, available at the time of preparation, the Paleontological Resources Monitors would provide details of the corresponding levels of paleontological monitoring. The Paleontological Resources Monitors would allow for monitoring frequency in any given location to be increased or decreased as appropriate based on the Paleontological Resources Specialist’s professional judgment in consideration of actual site conditions, geologic units encountered, and fossil discoveries made. ● Provisions for the content development and delivery of paleontological resources Worker Environmental Awareness Program training. ● Provisions for in-progress documentation of monitoring (and, if applicable, salvage/recovery operations) via “daily logs” or a similar approved means. ● Provisions for a “stop work, evaluate, and treat appropriately” response in the event of a known or potential paleontological discovery, including finds in highly sensitive geologic units as well as finds, if any, in geologic units identified as less sensitive, or non-sensitive, for paleontological resources. 	

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			<ul style="list-style-type: none"> Provisions for sampling and recovery of unearthed fossils consistent with Society of Vertebrate Paleontology Standard Procedures and the Society of Vertebrate Paleontology Conditions of Receivership. Recovery procedures would provide for recovery of both macrofossils and microfossils. Provisions for acquiring a repository agreement from an approved regional repository for curation, care, and storage of recovered materials, consistent with the Society of Vertebrate Paleontology Conditions of Receivership. If more than one repository institution is designated, separate repository agreements must be provided. Provisions for preparation of a final monitoring and mitigation report that meets the requirements of the Caltrans Standard Environmental Reference Chapter 8 provisions for the Paleontological Monitoring Report and Paleontological Stewardship Summary. Provisions for the preparation, identification, analysis, and curation of fossil specimens and data recovered, consistent with the Society of Vertebrate Paleontology Conditions of Receivership and any specific requirements of the designated repository institution(s). 	
			<p>MM-PAL-3 Provide Worker Environmental Awareness Program Training for Paleontological Resources. Prior to groundbreaking within the Project, the contractor would provide paleontological resources Worker Environmental Awareness Program training delivered by the Paleontological Resources Specialist. All management and supervisory personnel and construction workers involved with ground-disturbing activities would be required to take this training before beginning work on the Project. Refresher training would also be made available to management and supervisory personnel and workers as needed, based on the judgment of the Paleontological Resources Specialist. At a</p>	

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			<p>minimum, paleontological resources Worker Environmental Awareness Program training would include information on:</p> <ul style="list-style-type: none"> • The coordination between construction staff and paleontological staff; • The construction and paleontological staff roles and responsibilities in implementing the Paleontological Resources Impact Mitigation Plan; • The possibility of encountering fossils during construction; • The types of fossils that may be seen and how to recognize them; and • The proper procedures in the event fossils are encountered, including the requirement to halt work in the vicinity of the find and procedures for notifying responsible parties in the event of a find. <p>Training materials and formats may include, but are not necessarily limited to, in-person training, prerecorded videos, posters, and informational brochures that provide contacts and summarize procedures in the event paleontological resources are encountered. Worker Environmental Awareness Program training contents would be subject to review and approval by San Bernardino County Transportation Authority. Paleontological resources Worker Environmental Awareness Program training may be provided concurrently with cultural resources Worker Environmental Awareness Program training.</p> <p>Upon completion of any Worker Environmental Awareness Program training, the contractor would require workers to sign a form stating that they attended the training and understand and would comply with the information presented. Verification of paleontological resources</p>	

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			<p>Worker Environmental Awareness Program training will be provided to San Bernardino County Transportation Authority by the contractor.</p> <p>MM-PAL-4 Requires to halt construction, evaluate, and treat if Paleontological Resources are found. Consistent with the Paleontological Resources Impact Mitigation Plan, if fossil materials are discovered during construction, regardless of the individual making the discovery, all activity within 50 feet of the discovery would halt and the find would be protected from further disturbance. If the discovery is made by someone other than the Paleontological Resources Specialist or Paleontological Resources Monitors, the person who made the discovery would immediately notify construction supervisory personnel, who would in turn notify the Paleontological Resources Specialist. Notification to the paleontological resources specialist would take place promptly (prior to the close of work the same day as the find), and the paleontological resources specialist would evaluate the find and prescribe appropriate treatment as soon as feasible. Work may continue on other portions of the Project while evaluation (and, if needed, treatment) takes place, as long as the find can be adequately protected in the judgment of the paleontological resources specialist.</p> <p>If the Paleontological Resources Specialist determines that treatment (i.e., recovery and documentation of unearthened fossil[s]) is warranted, such treatment, and any required reporting, would proceed consistent with the Paleontological Resources Impact Mitigation Plan. The contractor would be responsible for ensuring prompt and accurate implementation, subject to verification by San Bernardino County Transportation Authority.</p> <p>The stop work requirement does not apply to drilling or boring since these operations typically cannot be suspended in mid-course. However,</p>	

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			<p>if finds are made during drilling or boring, the same notification and other follow-up requirements would apply. The paleontological resources specialist would coordinate with construction supervisory and drilling/boring staff regarding the handling of recovered fossils.</p> <p>The requirements of this mitigation measure would be detailed in the Paleontological Resources Impact Mitigation Plan and presented as part of the paleontological resources Worker Environmental Awareness Program training.</p>	
Greenhouse Gas Emissions	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	LTS	No mitigation is required.	LTS
Greenhouse Gas Emissions	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	LTS	No mitigation is required.	LTS
Growth Inducing	Would the Project have a significant impact related to growth inducement if it is expected to foster economic or population growth that exceeds planned capacities or is reasonably foreseen to diminish environmental quality?	LTS	No mitigation is required.	LTS
Hazards and Hazardous Materials	Create significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	LTS	No mitigation is required.	LTS
Hazards and Hazardous Materials	Create as significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	PS	MM-HAZ-1 In the event that previously unknown or unidentified soil and/or groundwater contamination that could present a threat to human health or the environment is encountered during construction in the project area, construction activities in the immediate vicinity of the contamination shall cease immediately. If contamination is	LTS

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			<p>encountered, a Risk Management Plan shall be prepared and implemented that (1) identifies the contaminants of concern and the potential risk each contaminant would pose to human health and the environment during construction and post-development and (2) describes measures to be taken to protect workers and the public from exposure to potential site hazards. Such measures could include a range of options including, but not limited to, physical site controls during construction, remediation, long-term monitoring, post-development maintenance or access limitations, or some combination thereof. Depending on the nature of contamination, if any, appropriate agencies shall be notified (e.g., City of Ontario Fire Department, City of Rancho Cucamonga Fire Department). If needed, a Site Health and Safety Plan that meets Occupational Safety and Health Administration requirements shall be prepared and in place prior to commencement of work in any contaminated area.</p>	
			MM-HWQ-1 would also apply to this impact.	
Hazards and Hazardous Materials	Emit hazardous materials or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	NI	No mitigation is required.	NI
Hazards and Hazardous Materials	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	PS	MM-HAZ-1 would also apply to this impact.	LTS
Hazards and Hazardous Materials	Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public	LTS	No mitigation is required.	LTS

Environmental Topic	Impact(s)	Level of Significance Prior to Mitigation	Mitigation Measure(s)	Level of Significance After Mitigation
	use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?			
Hazards and Hazardous Materials	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	PS	MM-HAZ-2 To ensure adequate access for emergency vehicles when construction activities would result in temporary lane or roadway closures, the developer shall consult with the City Police Departments and Fire Departments to disclose temporary lane or roadway closures and alternative travel routes. The developer shall be required to keep a minimum of one lane in each direction free from encumbrances at all times on perimeter streets accessing the Project site. At any time only a single lane is available, the developer shall provide a temporary traffic signal, signal carriers (i.e., flagpersons), or other appropriate traffic controls to allow travel in both directions. If construction activities require the complete closure of a roadway segment, the developer shall coordinate with the Police Departments and Fire Departments to designate proper detour routes and signage indicating alternative routes.	LTS
Hazards and Hazardous Materials	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	NI	No mitigation is required.	NI
Hydrology and Water Quality	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	PS	MM-HWQ-1 If temporary construction dewatering on the project site is required, San Bernardino County Transportation Authority shall obtain a dewatering permit prior to the issuance of a grading permit. Poned water in excavations shall be tested prior to discharge to the storm drain system. If installation of foundation piles has the potential to intercept groundwater and the water would be discharged to the excavation floor, groundwater testing to a minimum depth of 50 feet, or as otherwise determined by the City of Ontario or City of Rancho Cucamonga, shall be conducted to the satisfaction of the Water	LTS

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			Resources Protection Program staff. If contaminated groundwater is determined to be present, treatment and discharge of the contaminated groundwater shall be conducted in compliance with applicable regulatory requirements including the Santa Ana Regional Water Quality Control Board standards.	
Hydrology and Water Quality	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that the project may impeded sustainable groundwater management of the basin?	PS	MM-HWQ-1 also applies to this impact.	LTS
Hydrology and Water Quality	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off- site; substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site; create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; and/or impede or redirect flood flows?	LTS	No mitigation is required.	LTS
Hydrology and Water Quality	In flood hazard, tsunami, or seiche zones, risk release of pollutant due to project inundation?	PS	MM-HWQ-2 SBCTA shall submit the Project design plans to the City of Ontario Building Department and the San Bernardino County Building Department to obtain approval that the design, construction, and operation meets all safety standards for the portion of the project within the Federal Emergency Management Agency designated 100-year	LTS

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			floodplain. MM-HWQ-3 SBCTA shall prepare an Emergency Operations Plan. The Emergency Operations Plan shall include provisions for an evacuation action plan to respond to a notification of San Antonio Dam failure. The evacuation plan in the Emergency Operations Plan shall include action plans to evacuate all the people within the project area during a San Antonio Dam failure.	
Hydrology and Water Quality	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	NI	No mitigation is required.	NI
Land Use and Planning	Physically divide an established community?	PS	MM-TRA-1 also applies to this impact, as listed in Transportation and Traffic below.	LTS
Land Use and Planning	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	NI	No mitigation is required.	NI
Mineral Resources	Would the project result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?	NI	No mitigation is required.	NI
Mineral Resources	Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	NI	No mitigation is required.	NI
Noise and Vibration	Generation of a substantial temporary or permanent increase in ambient noise levels in	LTS	No mitigation is required.	LTS

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	the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			
Noise and Vibration	Generation of excessive groundborne vibration or groundborne noise levels?	LTS	No mitigation is required.	LTS
Noise and Vibration	For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	LTS	No mitigation is required.	LTS
Population and Housing	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	LTS	No mitigation is required.	LTS
Population and Housing	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	NI	No mitigation is required.	NI
Public Services and Recreation	Result in substantial adverse physical impacts associated with the provision of, or need for, new or physically altered fire protection and emergency response facilities, the construction of which could cause significant environmental impacts, in order to maintain	LTS	No mitigation is required.	LTS

Environmental Topic	Impact(s)	Level of Significance Prior to Mitigation	Mitigation Measure(s)	Level of Significance After Mitigation
	acceptable service ratios, response times, or other performance objectives for fire protection and emergency response?			
Public Services and Recreation	Result in substantial adverse physical impacts associated with the provision of, or need for, new or physically altered police protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for police protection?	LTS	No mitigation is required.	LTS
Public Services and Recreation	Result in substantial adverse physical impacts associated with the provision of, or need for, new or physically altered school facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for schools and/or result in substantial adverse physical impacts associated with the provision of, or need for, new or physically altered other public facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for other public facilities?	LTS	No mitigation is required.	LTS
Public Services and Recreation	Would the proposed project increase the use of existing neighborhood and regional parks or other recreational facilities such that	LTS	No mitigation is required.	LTS

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	substantial physical deterioration of the facility would occur or be accelerated?			
Public Services and Recreation	Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment and/or result in substantial adverse physical impacts associated with the provision of, or need for, new or physically altered recreational facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for parks?	LTS	No mitigation is required.	LTS
Transportation and Traffic	Conflict with a program, plan, or ordinance or policy addressing the circulation systems, including transit, roadway, bicycle and pedestrian facilities?	PS	MM-TRA-1 San Bernardino County Transportation Authority and the contractor shall prepare a Transportation Management Plan as needed to facilitate the flow of traffic and transit service in and around construction zones. The Transportation Management Plan shall include, at minimum, the following measures: <ul style="list-style-type: none"> Schedule a majority of construction-related travel (i.e., deliveries, hauling, and worker trips) during off-peak hours, and, where feasible, maintain two-way traffic circulation along affected roadways during peak hours. Avoid the closure of two major adjacent streets where feasible. Designated routes for project haul trucks primarily utilize the Interstate 10 corridor. These routes shall be consistent with land use and mobility plans and situated to minimize noise, vibration, and other possible impacts. 	LTS

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Transportation and Traffic	Conflict or be inconsistent with CEQA Guidelines §15064.3 subdivision (b)?	PS	<ul style="list-style-type: none"> • Develop detour routes to facilitate traffic movement through construction zones without significantly increasing cut-through-traffic in adjacent residential areas. • Develop and implement an outreach program and public awareness campaign in coordination with the California Department of Transportation, the City of Rancho Cucamonga, the City of Ontario and the San Bernardino County to inform the general public about the construction process and planned roadway closures, potential impacts, and mitigation measures. • Provide wayfinding signage, lighting, and access to specify pedestrian safety amenities (such as handrails, fences, and alternative walkways) during construction. • Where construction encroaches on sidewalks, walkways and crosswalks, special pedestrian safety measures shall be used, such as detour routes and temporary pedestrian barricades. • Coordinate with first responders and emergency service providers to minimize impacts on emergency response. • Maintain customer and delivery access to all operating businesses near construction work areas. • The Project contractor shall encourage construction workers to participate in vanpool and carpool opportunities to reduce congestion and Vehicle Miles Travelled on the regional transportation network. • The Project contractor shall be encouraged to hire local construction workers who would have lower commute distance to the construction site. 	LTS

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Transportation and Traffic	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	LTS	No mitigation is required.	LTS
Transportation and Traffic	Result in inadequate emergency access?	PS	MM-TRA-1 also applies to this impact.	LTS
Tribal Cultural Resources	Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, a in the local register of historical resources as defined in Public Resources Code Section 5020.1 (k).	PS	MM-TCR-1 Areas found during construction to contain significant tribal cultural resources shall be examined by a qualified consulting archaeologist or historian for appropriate protection and preservation. If evidence of potential tribal cultural resources is observed, construction near the resources shall cease, the appropriate Native American tribal groups shall be consulted, and, in coordination with the appropriate Native American tribal groups, a qualified archaeologist or historian shall determine whether the resource uncovered during construction is a tribal cultural resource as defined under Public resources Code Section 21074. The appropriate Native American tribal groups shall be contacted in the event of any pre-contact and/or historic-era cultural resources discovered during project implementation; and will be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resource Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with the appropriate Native American tribal groups, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents the appropriate Native American tribal groups for the remainder of the project's construction activities, should the appropriate Native American tribal groups elect to place a monitor on-site.	LTS

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			Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to San Bernardino County Transportation Authority for dissemination to the appropriate Native American tribal groups. San Bernardino County Transportation Authority shall, in good faith, consult with the appropriate Native American tribal groups.	
Tribal Cultural Resources	Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	PS	MM-TCR-1 would also apply to this impact.	LTS
Utilities and Service Systems	Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or	LTS NI for Natural Gas	No mitigation is required.	LTS NI for Natural Gas

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	telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			
Utilities and Service Systems	Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	LTS	No mitigation is required.	LTS
Utilities and Service Systems	Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	LTS	No mitigation is required.	LTS
Utilities and Service Systems	Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	LTS	No mitigation is required.	LTS
Utilities and Service Systems	Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	NI	No mitigation is required.	NI
Wildfire	If located in or near SRAs or lands classified as very high fire hazard severity zones, would the Project substantially impair an adopted emergency response plan or emergency evacuation?	NI	No mitigation is required.	NI

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Wildfire	If located in or near SRAs or lands classified as very high fire hazard severity zones, would the Project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire?	NI	No mitigation is required.	NI
Wildfire	If located in or near SRAs or lands classified as very high fire hazard severity zones, would the Project require the installation or maintenance of associated infrastructure (such as roads fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	NI	No mitigation is required.	NI
Wildfire	If located in or near SRAs or lands classified as very high fire hazard severity zones, would the Project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	NI	No mitigation is required.	NI

NOTE: LTS – Less Than Significant; NI- No Impact; PS- Potentially Significant; SU- Significant and Unavoidable.