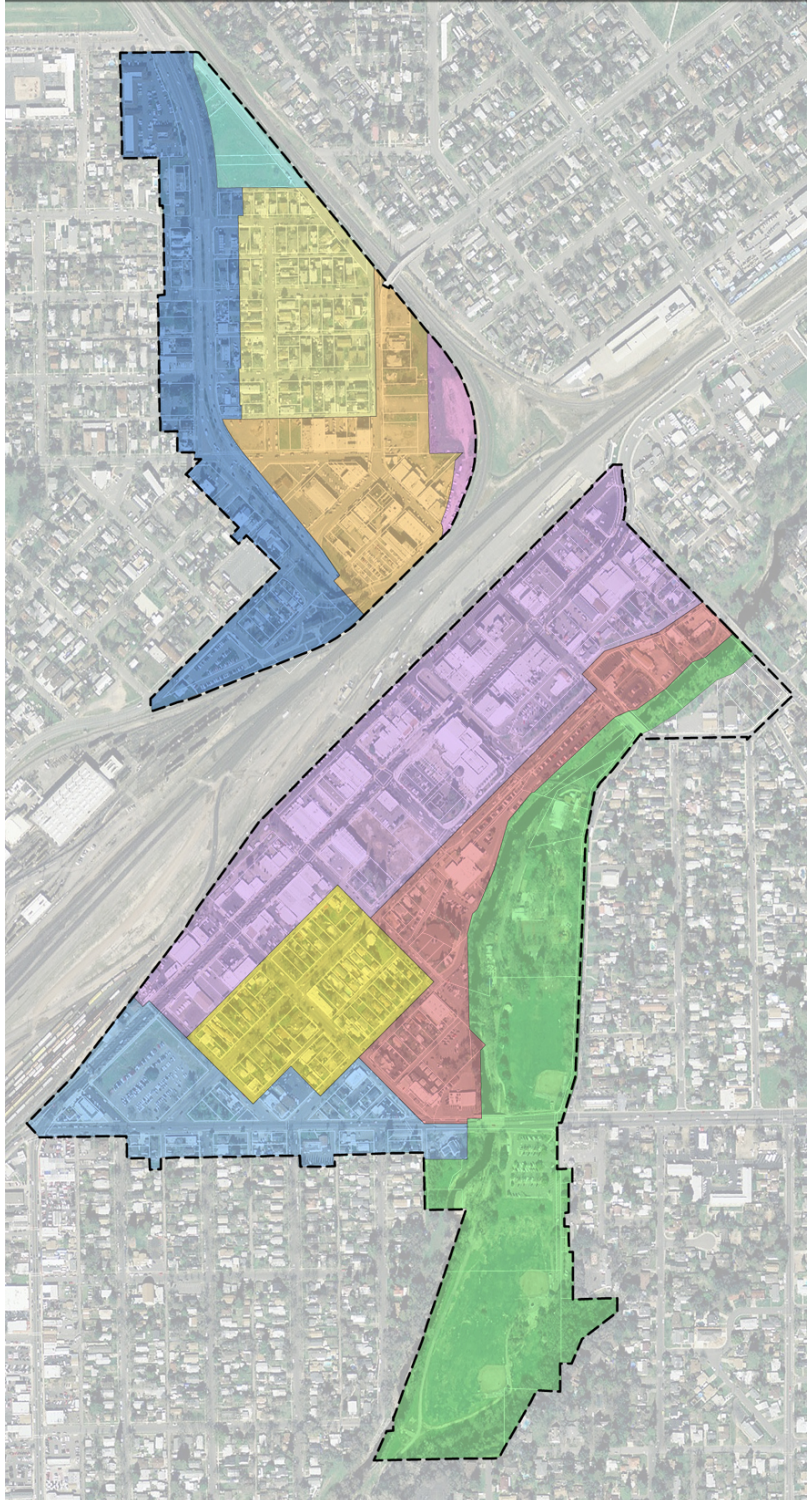


Mitigation Monitoring Program Downtown Roseville Specific Plan



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March 2009

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Mitigation Monitoring Program Downtown Roseville Specific Plan



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MITIGATION MONITORING PROGRAM FOR DOWNTOWN ROSEVILLE SPECIFIC PLAN PROJECT

INTRODUCTION

Sections 15091(d) and 15097 of the State Guidelines for the California Environmental Quality Act (CEQA) require public agencies “to adopt a reporting and monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” A Mitigation Monitoring Program (MMP) is required by the City of Roseville (City) for the Downtown Roseville Specific Plan project because the Final Environmental Impact Report (EIR) for the project identified potentially significant adverse impacts related to construction and implementation activities, and mitigation measures have been identified to mitigate those impacts.

The MMP contained herein is intended to satisfy the requirements of CEQA as it relates to the Downtown Roseville Specific Plan Project EIR. This MMP is intended to be used by City staff and mitigation monitoring personnel to ensure compliance with mitigation measures during implementation of the project. Mitigation measures presented in this MMP were developed during the preparation of the Draft EIR (December 23, 2008) and Final EIR (March 2009) for the project.

The intent of this MMP is to ensure the effective implementation and enforcement of all adopted mitigation measures. The MMP will provide for monitoring of construction activities and in-the-field identification and resolution of environmental concerns that may arise during project implementation. The MMP may be modified by the City during project implementation, as necessary, in response to changing conditions or other refinements.

MITIGATION MONITORING PROGRAM DESCRIPTION

COMPLIANCE

The City will coordinate all monitoring activities and document the implementation of mitigation measures. Unless otherwise specified herein, the City is responsible for taking all actions necessary to implement the mitigation measures according to the specifications provided for each measure, and for demonstrating that the action has been successfully completed. The City, at its discretion, may delegate implementation responsibility or portions thereof to the developer, a licensed contractor, or other designated agent.

The City will coordinate the overall administration of the MMP and will verify that City staff members and/or the construction contractor and other responsible parties have completed the necessary actions for each measure. The table below identifies the mitigation measures adopted in the Final EIR, additional information on the monitoring actions and specific implementing entities, including the responsible parties for monitoring actions, and timing of each mitigation action. In cases where the implementing responsibility is shared between the City and construction contractors, the City will be responsible for ensuring that mitigation requirements are implemented.

FIELD MONITORING OF MITIGATION MEASURES

Prior to the issuance of City-approved construction contracts and applicant-sponsored grading and building permits, and during such time as development plans are being prepared for approval by City staff, the City will be responsible for ensuring compliance with mitigation monitoring applicable to the project design phase.

During construction, the City’s Public Works Department will assign inspectors to be responsible for monitoring the implementation of mitigation measures. These inspectors will report to the City’s Public Works Department and will be thoroughly familiar with mitigation measures in the MMP. In addition, the inspectors will be familiar

with construction contract requirements, schedules, standard construction practices, and mitigation techniques. The City will be responsible for onsite, day-to-day monitoring of construction activities, reviewing construction plans, and reviewing equipment staging/access plans to ensure conformance with adopted mitigation measures. The City will also have the authority to enforce mitigation measures by suspending specific construction activities.

Once construction has been completed, the City will monitor the project, as necessary.

If any mitigation measures are not being implemented, the City may pursue corrective action. Penalties may include, but are not limited to, the following:

1. Written notification and request for compliance,
2. Withholding of permits,
3. Administrative fines,
4. Stop-work orders,
5. Criminal prosecution and/or administrative fines,
6. Forfeiture of security bonds or other guarantees, and/or
7. Revocation of permits or other entitlements.

Mitigation measures applicable to construction contracts issued by the City (e.g., for parking garages) will be conveyed in contract documents. Failure to comply with these requirements by the construction contractor may also necessitate contract-based penalties.

CHANGES TO MITIGATION MEASURES

Any substantive change to the MMP made by City staff shall be reported in writing to the Planning Department. Modification to any mitigation measures may be made by City staff subject to one of the following findings, documented by evidence included in the record:

- a) The mitigation measure included in the Final EIR and the adopted MMP is no longer required because the significant environmental impact identified in the Final EIR has been found to not exist, or to occur at a level which makes the impact less than significant as a result of changes in the project, changes in conditions of the environment, or other factors.

OR

- b) The modified or substitute mitigation measure to be included in the MMP provides a level of environmental protection equal to or greater than that afforded by the mitigation measure included in the Final EIR and the adopted MMP; and the modified or substitute mitigation measures do not have significant adverse effects on the environment in addition to or greater than those which were considered by the responsible hearing bodies in their decisions on the Final EIR and the proposed project; and the modified or substitute mitigation measures are feasible, and the City, through measures included in the MMP or other City procedures, can ensure their implementation.

Findings and related documentation supporting the findings involving modifications to mitigation measures shall be maintained in the project file with the MMP and shall be made available to the public upon request.

MITIGATION MONITORING PROGRAM

The table presented on the following pages provides the MMP for the Downtown Roseville Specific Plan project. The MMP identifies the following.

Mitigation Measure – This provides the text of the mitigation measure identified in the Final EIR and identifies the mitigation measure according to the number in the Final EIR. The mitigation measures are presented by topic (e.g., air quality) in the same sequence as that presented in the Final EIR.

Implementation – This identifies the entity responsible for complying with the requirements of the mitigation measure and identifies the method and/or process by which the mitigation measure will be implemented.

Timing – This identifies the time frame in which the mitigation will take place.

Reviewing Party – This identifies the party responsible for reviewing and ensuring implementation of each mitigation measure.

Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
Public Services			
<p>4.3-4: Increased Demand for Public School Facilities and Services. The proposed project would generate approximately 23 high school students. To ensure adequate funding is available for high school facilities necessary to accommodate the increase in student population caused by the proposed project, landowners and developers shall pay school mitigation fees in accordance with the City of Roseville Ordinance 2434 before issuance of building permits for construction in the Plan area. Development projects in the Plan area that include only residential land uses shall enter into a Mutual Benefit Agreement (MBA) with school districts serving that area.</p> <p>Implementation of Mitigation Measure 4.3-4 would ensure adequate funding is made available to school districts to pay for construction and operation of new school facilities as needed to serve development. School impact fees are typically an insufficient amount to fund 100% of new school facility construction. However, the California Legislature has declared that the school impact fee is deemed to be full and adequate mitigation under CEQA (Government Code Section 65996). With payment of the state-mandate fees, impacts on school services and facilities would be reduced to a less-than-significant level.</p>	<p>The applicant shall pay school mitigation fees in accordance with the City of Roseville Ordinance 2434</p>	<p>Prior to issuance of building permits</p>	<p>PRD</p>
Geology and Soils			
<p>4.4-3: Seismically-Induced Risks to People and Structures Caused by Landslides. To minimize potential damage from unstable soil (landslides) along Dry Creek, the project applicant shall hire a qualified, licensed geotechnical engineer to map the Dry Creek corridor for clay-rich, weak soils, and high groundwater conditions prior to any construction or grading activities occurring in Dry Creek. Any unstable or hazardous slopes identified during the geotechnical investigation shall be identified by the geotechnical engineer and the geotechnical engineer shall provide recommendations for preventing landslides during project design and/or construction. These measures shall be included in grading permits prior to approval by the City.</p>	<p>The applicant shall hire a qualified, licensed geotechnical engineer to map the Dry Creek corridor for clay-rich, weak soils, and high groundwater conditions</p> <p>The project contractor shall Implement standard engineering requirements</p> <p>The project contractor shall implement all recommendations of the geotechnical investigation</p>	<p>Prior to issuance of grading permit; prior to ground-disturbing construction activities associated with bridges</p> <p>During ground-disturbing construction activities</p> <p>During ground-disturbing construction activities</p>	<p>PWD</p> <p>PWD</p> <p>PWD</p>

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
Aesthetics			
<p>4.5-3: Impacts from Lighting and Reflective Surfaces. Operation of the golf course at nighttime would require the use of high-powered floodlights mounted on poles approximately 25 to 30 feet high that would be placed near or adjacent to existing residences. Prior to installation of nighttime lighting at the golf course, the City shall coordinate with a company specializing in or expertise with exterior lighting systems for golf courses (e.g., Abacus). Floodlighting used shall consist of a double asymmetric beam distribution that ensures minimum upward light and tight control of light overspill into adjacent areas. The golf course shall be designed to incorporate a line of trees located along the outermost boundary between the golf course and all adjacent residences.</p>	<p>The applicant shall coordinate with a company specializing in or expertise with exterior lighting systems for golf courses</p>	<p>Prior to installation of nighttime lighting at the golf course</p>	<p>PRD</p>
	<p>The applicant shall design the golf course with double asymmetric beam distribution floodlights</p>	<p>Prior to operation of the golf course</p>	<p>PRD</p>
	<p>The applicant shall design the golf course with a line of trees located along the outermost boundary between the golf course and all adjacent residences</p>	<p>Prior to operation of the golf course</p>	<p>PRD</p>
Traffic and Circulation			
<p>4.6-1: Unacceptable Peak Hour LOS at Signalized Intersections under Existing Plus Project Conditions. The Specific Plan would establish a Pedestrian Overlay District within the Plan area. The Pedestrian Overlay District is would construct physical improvements at intersections in the Plan area to encourage pedestrian activity and increase pedestrian safety. Although three signalized intersections in the study area would operate below LOS C, they would be located in the Pedestrian Overlay District which would make the intersections exempt from the City’s LOS C policy. Therefore, the project would result in a less-than-significant impact.</p>	<p>No actions necessary</p>		
<p>4.6-2: Unacceptable p.m. Peak Hour LOS at Signalized Intersections under Cumulative (2020) Plus Project Conditions. The Specific Plan would establish a Pedestrian Overlay District within the Plan area. The Pedestrian Overlay District is would construct physical improvements at intersections in the Plan area to encourage pedestrian activity and increase pedestrian safety. Establishment of a Pedestrian Overlay District would reduce impacts to the Judah Street/Vernon Street and Washington Boulevard/Main Street intersections because it would these intersections exempt from the City’s LOS C policy such that the intersections would operate at an acceptable LOS.</p> <p>The following mitigation measures are identified for the significant impacts under the Cumulative (2020) Plus Project scenario at signalized study intersections:</p>			

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**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party
<ul style="list-style-type: none"> ▶ LOS D at Yosemite Street/Atlantic Street. The addition of project traffic at this intersection under cumulative 2020 conditions would deteriorate operations from LOS C to LOS D. To mitigate project impacts, the southbound right-turn lane could be restriped as a shared left/right-turn lane. With this restriping, the intersection would operate at an acceptable LOS C. The project would be responsible to pay their fair share toward this improvement. This intersection improvement shall be incorporated into the City of Roseville Capital Improvement Program. Incorporating this intersection improvement into the City’s Capital Improvement Program would establish a funding mechanism to collect the remaining funds for this improvement (beyond the project’s fair share). Therefore, implementation of the ultimate improvement would be guaranteed and the impact is considered less than significant. 	<p>The City of Roseville shall incorporate into the City of Roseville Capital Improvement Program the restriping of the southbound right-turn lane at the Yosemite Street/Atlantic Street intersection as a shared left/right-turn lane</p>	<p>As part of approval of the Specific Plan</p>	<p>PRD</p>
<ul style="list-style-type: none"> ▶ LOS D at Orlando Avenue/Marlin Drive/Cirby Way. The addition of project traffic at this intersection under cumulative 2020 conditions would deteriorate operations from LOS C to LOS D. To mitigate project impacts, the northbound and southbound approaches should be widened to provide one dedicated left-turn lane, one through lane, and one right-turn lane. With these improvements, the intersection phasing could be modified to provide protected left-turn movements, and would operate at an acceptable LOS C. Please note that, given the curvature of Marlin Drive and Orlando Avenue, the creek just north of the intersection, and right-of-way constraints, the identified mitigation may not be feasible. Therefore, this impact is considered significant and unavoidable. 	<p>No actions necessary</p>		
<ul style="list-style-type: none"> ▶ LOS D at Harding Drive/Estates Drive. The addition of project traffic at this intersection under cumulative 2020 conditions would deteriorate operations from LOS C to LOS D. To mitigate project impacts, a dedicated southbound right-turn lane would be needed. With this improvement, the intersection would operate at an acceptable LOS C. The project would be responsible to pay a fair share toward this improvement. Please note that existing development is present on all four quadrants of the intersection, limiting the available right-of-way to implement the improvement which may make the identified mitigation infeasible. Therefore, this impact is considered significant and unavoidable. 	<p>No actions necessary</p>		
<ul style="list-style-type: none"> ▶ LOS E at Sunrise Avenue/Eureka Road. The addition of project traffic at this intersection under cumulative 2020 conditions would deteriorate operations from LOS D to LOS E. To mitigate project impacts, a third eastbound left-turn lane could be added to the intersection. With the 	<p>No actions necessary</p>		

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
improvement, the intersection would operate at LOS D, consistent with the No Project Condition. However, there are potential right-of-way constraints and inherent design complexities of implementing triple left-turn lanes. Therefore, this impact is considered significant and unavoidable.			
4.6-5: Parking. To mitigate parking impacts for the Plan area, the project shall provide an additional 580 parking spaces. This shall be accommodated by providing extra spaces within the three planned parking structures, providing additional public parking spaces (as part of developing and implementing the Parking Management Plan), or require development to provide additional parking (e.g., in-lieu fees).	The City of Roseville shall provide an additional 580 parking spaces in the Plan area	As part of approval of the Specific Plan	PRD
Cultural Resources			
<p>4.7-1: Disturbance of Architectural Resources. Two of the historic-era resources located within the Plan area to appear to be eligible for CRHR listing. These resources include: 316 Vernon Street and 419-425 Vernon Street. The Old Town Roseville area is designated as a historic district at the local level by the City of Roseville. Consequently, it is recommended that any alterations made to these eligible resources be conducted in a manner consistent with the Secretary of the Interior’s Standards for the Treatment of Historic Properties, and the Design Guidelines for Central Roseville. Generally, under CEQA, a project that complies with the Secretary of the Interior’s Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings or the Secretary of Interior’s Standards for Rehabilitation is considered to have mitigated impacts to a historical resource to a less-than-significant level (State CEQA Guidelines Section 15064.5).</p> <p>Development within the Plan area could result in new land uses, infill development, and streetscape improvements. Over the 20-year build-out period for the Specific Plan, future developments within the Plan area could result in impacts to 25 buildings built between 1963 and 1983. These buildings and their locations are listed in Table 4.7-2. Prior to the approval of demolition or building permits that would result in substantial alteration of any of the 15 buildings that will reach 45 years in age by the build-out date, the City shall ensure that an evaluation of significance according to CRHR criteria shall be performed. If the evaluation indicates the property is not eligible for listing in the CRHR, no further action is necessary. If any of these buildings are found to be eligible for listing in the CRHR in conjunction with future evaluations, the</p>	The applicant shall ensure alterations made to buildings at 316 Vernon Street and 419-425 Vernon Street be conducted in a manner consistent with the Secretary of the Interior’s Standards for the Treatment of Historic Properties, and the Design Guidelines for Central Roseville	Prior to issuance of demolition or building permit	PRD
	The applicant shall ensure alterations made to 25 buildings built between 1963 and 1983 are evaluated for significance according to CRHR criteria.	Prior to issuance of demolition or building permit	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<p>City shall ensure that the proposed development is consistent with the Secretary of the Interior’s Standards for the Treatment of Historic Properties or develop other methods to avoid significant impacts to these properties in consultation with the State Office of Historic Preservation (OHP). This measure would reduce potentially significant impacts to Architectural Resources to a less-than-significant level.</p> <p>If it is not feasible to retain an eligible historic resource, prior to demolition, documentation similar to the standards of the Historic American Building Survey (HABS) shall be conducted. A HABS -like recordation would document the site history, construction history, and current appearance of the eligible resource in the context of Roseville’s history. The HABS-like recordation shall be completed by an architectural historian who meets the Secretary of the Interior’s professional qualifications standards, and an experienced HABS photographer. The final document shall be filed in a local library / repository. Although this type of documentation eliminates one adverse impact of demolition (i.e., loss of historical information) it does not prevent the physical loss of a historically significant resource.</p>	<p>If an evaluation determines any of the 25 buildings built between 1963 and 1983 are found to be eligible for listing in the CRHR, the applicant shall ensure development consistent with the Secretary of the Interior’s Standards for the Treatment of Historic Properties or develop other methods to avoid significant impacts to these properties in consultation with the State Office of Historic Preservation (OHP)</p>	<p>Prior to issuance of demolition or building permit</p>	<p>PRD</p>
<p>Implementation of the above mitigation measure would reduce impacts related to disturbance of architectural resources. However, the potential loss of a historically significant resource could occur. While implementation of mitigation measure 4.7-1 would lessen project impacts, demolition of a historical resource would be a significant adverse change and, therefore, considered a significant and unavoidable impact.</p>	<p>If retention of an eligible historic resource is considered infeasible, the applicant shall conduct documentation similar to the standards of the Historic American Building Survey (HABS)</p>	<p>Prior to issuance of demolition or building permit</p>	<p>PRD</p>
<p>4.7-2: Disturbance of Potential Subsurface Cultural Deposits. In the event that unrecorded cultural materials are identified during construction-related ground disturbing activities, potentially destructive work in the vicinity of the find shall cease until a qualified archaeologist can determine the significance of the find and, if appropriate, provide recommendations for treatment to the City. Treatment approved by the City shall be implemented prior to resuming ground disturbing activities.</p>	<p>The project contractor shall Suspend construction work if unrecorded cultural materials are identified</p>	<p>During construction-related ground disturbing activities</p>	<p>PRD</p>
<p>4.7-3: Undiscovered / Unrecorded Human Remains. If human remains are discovered at any project construction site during any phase of construction, work within 50 feet of the remains shall be suspended immediately, and the</p>	<p>The project contractor suspend construction work, if human remains are discovered, and</p>	<p>During construction-related ground disturbing activities</p>	<p>PRD</p>

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<p>City of Roseville, the project applicant, and the county coroner shall be notified immediately. If the remains are determined by the county coroner to be Native American, the Native American Heritage Commission (NAHC) shall be notified within 24 hours, and the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. The City or the project applicant shall also retain a professional archaeologist with Native American burial experience who shall conduct a field investigation of the specific site and consult with the Most Likely Descendant (MLD) identified by the NAHC. As necessary, the archaeologist may provide professional assistance to the MLD including the excavation and removal of the human remains. The City or the project applicant shall implement any mitigation before the resumption of activities at the site where the remains were discovered.</p>	<p>notify City of Roseville</p> <p>The City of Roseville shall notify County Coroner if human remains are discovered</p>	<p>During construction-related ground disturbing activities</p>	<p>PRD</p>
	<p>The City of Roseville shall notify Native American Heritage Commission if human remains are discovered</p>	<p>During construction-related ground disturbing activities</p>	<p>PRD</p>
Hazards and Hazardous Materials			
<p>4.8-1: Exposure of Construction Workers, Residents, and Others to Hazardous Materials. A Health and Safety Plan (HASP) prepared for the construction process, consistent with general industry standards and Occupational Safety and Health Administration (OSHA) requirements, would address the risks to construction personnel and public safety, such that these health and safety risks would be mitigated to an acceptable level. A qualified professional, such as a Certified Industrial Hygienist (CIH), would prepare the HASP to provide guidance for personnel involved in trenching and other excavation work where there is evidence of hydrocarbons or other hazardous materials.</p> <p>The HASP utilized for each construction phase would describe in detail the health and safety guidelines, procedures, and work practices that must be adhered to and the work to be performed, and would also include special details governing certain work, such as working in confined spaces. Should contaminants be found, appropriate measures would be taken to mitigate potential effects related to construction/implementation of the proposed project. This may include excavation of contaminated soils and disposal at an appropriate facility. The potential contaminants of concern are petroleum hydrocarbons and associated chemicals, such as oxygenates and fuel scavengers, and volatile organic carbons (e.g., PCE, TCE).</p>	<p>The project contractor shall prepare site-specific Health and Safety Plan</p>	<p>Prior to grading or construction</p>	<p>PWD</p>

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**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party
<p>The HASP would address appropriate personal protective equipment (PPE), monitoring to protect on-site workers; and the appropriate level of worker training (e.g., Hazardous Waste Operations and Emergency Response training). Monitoring may include visual and olfactory observation (e.g., soil staining or unusual odors), or air monitoring with hand-held devices (e.g., photo-ionization detector) to detect volatile hydrocarbons. Health-risk based action levels should be identified for various contaminants that would trigger modifications to work practices. Work practice modifications may include the cessation of construction activities until soil or groundwater sampling is performed, or an increase in the level of PPE or worker training. A Sampling and Analysis Plan (SAP) would accompany the HASP to determine if contaminants of concern are present and at what concentrations.</p> <p>The HASP would also address procedures to follow if unknown objects (e.g., USTs, underground piping) are encountered during construction activities. Specialized contractors would be hired to decommission and remove such USTs and perform confirmation sampling as necessary. The implementation of an adequate site-specific HASP would reduce the health risk to construction personnel by these recognized environmental conditions to a less-than-significant level.</p> <p>In addition, the following measures shall apply to construction activities, as appropriate.</p> <p>1) The construction contractor shall notify the Roseville Fire Department if evidence of soil or groundwater contamination (e.g., stained soil, unusual odor in groundwater) is encountered during construction activities. Any contaminated areas shall be remediated in accordance with recommendations made by the Fire Department, RWQCB, DTSC, or other appropriate federal, state, or local regulatory agencies.</p>	<p>The project contractor shall notify the Roseville Fire Department if evidence of soil or groundwater contamination is encountered</p> <p>The applicant shall remediate contaminated areas in accordance with recommendations made by the Fire Department, RWQCB, DTSC, or other appropriate federal, state, or local regulatory agencies</p>	<p>During construction-related ground disturbing</p> <p>Prior to construction-related ground disturbing activities</p>	<p>PRD</p> <p>PRD</p>

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<p>2) Prior to demolition of any buildings constructed before 1977, the project applicant shall hire a qualified consultant to investigate whether any of these buildings contain lead and/or asbestos-containing materials and lead that could become friable or mobile during demolition activities. If found, the lead and/or asbestos-containing materials shall be removed by an accredited contractor in accordance with EPA and California OSHA standards. In addition, all activities (construction or demolition) in the vicinity of these materials shall comply with California OSHA lead and asbestos worker construction standards. The lead and asbestos-containing materials shall be disposed of properly at an appropriate off-site disposal facility.</p> <p>The City would require contractors to prepare a site-specific HASP for individual projects within the Plan area to address current or historic RECs identified in the Phase I to verify that contractors are aware of site-specific RECs. As an alternative, the City could prepare a Plan-wide programmatic HASP to address all RECs identified in the Plan area, although preparation of the HASP is the ultimate responsibility of the contractor.</p>	<p>The applicant or project contractor shall investigate whether any building constructed before 1977 contain lead and/or asbestos-containing materials and lead that could become friable or mobile during demolition activities</p> <p>The applicant or project contractor shall remove lead and/or asbestos-containing materials by an accredited contractor in accordance with EPA and California OSHA standards</p>	<p>Prior to approval of building or demolition permit</p> <p>Prior to approval of building or demolition permit</p>	<p>PRD</p> <p>PRD</p>
Biological Resources			
<p>Effects on Special-status Fish Species. The following measures shall be implemented to mitigate adverse effects to special-status fish species potentially resulting from the proposed project. To the extent feasible, the project shall be designed and constructed to avoid and minimize adverse effects to special-status fish species and aquatic habitats within the Specific Plan area.</p> <ul style="list-style-type: none"> ▶ Project construction activities within the aquatic habitat of the active creek channel shall be conducted between June 15 and October 15, during the season that migrating chinook salmon and steelhead are not likely to be present. Construction within the riparian habitat along the upper banks of the creek need not be restricted to this timeframe, provided that the following measures (and those described in Section 4.12, Hydrology and Water Quality”) are implemented to avoid or minimize sediment runoff into the creek. 	<p>The project contractor shall restrict construction activities within the aquatic habitat of the active creek channel to between June 15 and October 15</p>	<p>During construction-related activities</p>	<p>PRD</p>

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**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party	
<ul style="list-style-type: none"> ▶ Silt fencing shall be placed around the construction areas within the aquatic habitat of the active creek channel. Silt fencing shall protect upstream and downstream areas from any construction related impacts. All construction activities within the aquatic habitat of the active creek channel shall be conducted within the silt fence area. Cofferdams shall be used if construction in a live channel is necessary. To the extent feasible, they shall be designed to maintain an open channel to allow continued movement of aquatic species. If dewatering of a construction area is needed, it shall occur according to a Fish Translocation and Salvage Plan prepared by a qualified biologist. ▶ All outflow from any project-related dewatering that may be necessary when excavating the outfall installation areas shall be filtered and pumped downstream of the construction area. ▶ After completion of construction within the aquatic habitat of the active creek channel, all remaining side cast shall be removed from the work area and silt fencing shall be removed. ▶ Revegetation of disturbed areas within the riparian habitat of the active creek channel with native riparian plants shall be accomplished prior to the onset of the winter rains in the year of construction. 	<p>The project contractor shall place silt fencing around the construction areas within the aquatic habitat of the active creek channel</p>	During construction-related activities	PRD	
		<p>The project contractor shall conduct construction activities inside the silt fence area</p>	During construction-related activities	PRD
		<p>The project contractor shall design silt fence to maintain an open channel to allow continued movement of aquatic species</p>	During construction-related activities	PRD
		<p>The project contractor shall filter and pump all outflows downstream of the construction area</p>	During construction-related activities	PRD
		<p>The project contractor shall remove all remaining side cast and silt fencing</p>	After completion of construction-related activities	PRD
	<p>The project contractor shall revegetate disturbed areas within the riparian habitat of the active creek channel with native riparian plants</p>	After completion of construction-related activities; Prior to onset of winter rains in the year of construction	PRD	
<p>4.9-2: Effects on Valley Elderberry Longhorn Beetles. The following measures shall be implemented to mitigate adverse effects to valley elderberry longhorn beetles potentially resulting from the proposed project. If valley elderberry longhorn beetles are delisted in the future, as has recently been proposed by USFWS (USFWS 2006a), these measures may be amended to conform to any revised USFWS guidelines regarding this species.</p> <ul style="list-style-type: none"> ▶ To the extent feasible, implementation of the project shall be designed and constructed to avoid and minimize adverse effects to elderberry shrubs. ▶ Before project construction within the riparian habitat of the active creek channel would begin, focused surveys for elderberry shrubs shall be conducted within the Dry Creek riparian corridor and adjacent municipal parks in and within 100 feet of proposed construction-sites. Such surveys will not be required within areas lacking suitable habitat for elderberry 	<p>The applicant shall design and construct project components to avoid and minimize adverse effects to elderberry shrubs</p>	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD	
	<p>The applicant shall conduct focused surveys for elderberry shrubs shall be conducted within the Dry Creek riparian corridor and adjacent municipal parks in</p>	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD	

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
shrubs (i.e., areas already in residential development).	and within 100 feet of proposed construction-sites		
<p>► Where elderberry shrubs with 1.0 inch or greater stem diameter are found, USFWS conservation guidelines for valley elderberry longhorn beetles shall be followed by establishing a 100-foot buffer around the dripline of such shrubs wherever feasible to completely avoid potential impacts to valley elderberry longhorn beetles (USFWS 1999). All buffers shall be marked with brightly colored flags or fencing and shall be maintained until project construction is complete. Earthmoving activities, herbicide use, and other construction and maintenance activities with potential to impact valley elderberry longhorn beetles and/or their host shrubs would be avoided within these buffer zones. A qualified biologist will provide project contractors and construction crews working in the vicinity of an elderberry shrub buffer zone with a worker-awareness program before such work begins. This program will be used to describe the species, its habits and habitats, its legal status and required protection, and all applicable mitigation measures.</p>	<p>The project contractor shall establish a 100-foot buffer around the dripline of elderberry shrubs wherever feasible with brightly colored flags or fencing</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	PRD
	<p>The project contractor shall restrict earthmoving activities, herbicide use, and other construction and maintenance activities within the 100-foot buffer zone</p>	<p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	PRD
	<p>The project contractor shall hire qualified biologist to provide a worker-awareness program</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	PRD
<p>► If complete avoidance of shrub buffer zones is not feasible, USFWS shall be consulted. It is anticipated that either a new buffer width would be agreed upon along with additional protections for the safety of the beetles and shrubs, or that shrubs that could not be adequately protected would be transplanted to a protected location before construction would begin, in accordance with established USFWS guidelines (USFWS 1999) and a USFWS-approved mitigation and monitoring plan. Shrubs shall be transplanted to an area protected in perpetuity as habitat for valley elderberry longhorn beetles through a conservation easement or similar mechanism. Replacement mitigation plantings shall also be provided based on USFWS guidelines, which require replacement ratios ranging from 1:1 to 8:1 for lost stems at least 1 inch in diameter, depending on the size of the affected stems. Associated native species will be planted at ratios ranging from 1:1 to 2:1 for each elderberry planting. Transplants and mitigation plantings shall be monitored to ensure that USFWS success criteria are met (i.e., 60 percent survival of elderberry plants and associated riparian plantings). The proponent may elect either 10 years of monitoring, with surveys and reports to USFWS every year; or 15 years of monitoring, with surveys and reports on years 1, 2, 3, 5, 7, 10, and 15. The mitigation and monitoring plan shall describe both short- and long-term maintenance and management of the mitigation site; and specify remedial measures to be</p>	<p>The applicant shall consult with USFWS If complete avoidance of elderberry shrub buffer zones is not feasible</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	PRD
	<p>The applicant shall implement measures as determined through consultation with USFWS</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<p>undertaken if mitigation success criteria are not met. Long-term management of mitigation lands shall be ensured by establishing a management endowment or other suitable funding source. The mitigation shall be implemented in a preserved portion of the project site in Dry Creek’s riparian corridor, elsewhere within the Dry Creek watershed, or in suitable habitat elsewhere in Placer County or an adjacent county. If mitigation occurs off-site, it shall be at a location that would provide at least equal-quality habitat for valley elderberry beetles as the project site after implementation of the mitigation.</p>			
<p>4.9-3: Effects on Raptors and Special-status Birds. The following measures shall be implemented to mitigate adverse effects to raptors and special-status birds potentially resulting from the proposed project.</p> <ul style="list-style-type: none"> ▶ Potential disturbance of nesting special-status birds and raptors shall be reduced by limiting vegetation removal and grading to the non-breeding season (generally September 1 to February 28) to the extent feasible. ▶ To avoid nest disturbance and a potential reduction in fledging success resulting from construction activities within the riparian habitat of the active creek channel and during the breeding season (March 1 to August 31), focused surveys for raptors and special-status birds would be conducted by a qualified biologist no more than 15 days prior to the beginning of construction. Surveys for raptors and special-status birds would include suitable nesting habitat within 500 feet of construction areas. If no active nests are found, no further measures would be needed. ▶ If active raptor or special-status bird nests are found, impacts would be avoided by the establishment of appropriate buffers and/or nest monitoring by a qualified biologist. The size of the buffer would be determined by a qualified biologist and may vary, depending on the species biology, location, nest stage, and specific construction activities to be performed while the nest is active. A qualified biologist shall monitor active nests to determine when the young have fledged and are feeding on their own, or the nest has failed. No construction activities would occur within a buffer zone until a qualified biologist confirms that the nest is no longer active. 	<p>The project contractor shall restrict vegetation removal and grading activities to between September 1 to February 28</p> <p>The project contractor shall conduct focused surveys for raptors and special-status birds would be conducted by a qualified biologist during the breeding season</p> <p>If focused surveys find active raptor or special-status bird nests, the project contractor shall establish appropriate buffers as determined by a qualified biologist and/or conduct nest monitoring by a qualified biologist</p> <p>The project contractor shall restrict construction activities inside buffer zone until a qualified biologist confirms that the nest is no longer active</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p> <p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p> <p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p> <p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p> <p>PRD</p> <p>PRD</p> <p>PRD</p>

Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<p>4.9-6: Jurisdictional Waters and Sensitive Natural Communities. The following measures shall be implemented to mitigate adverse effects to jurisdictional waters and sensitive habitats potentially resulting from the proposed project.</p> <ul style="list-style-type: none"> ▶ To the extent feasible, the project shall be designed and constructed to avoid and minimize adverse effects to jurisdictional waters of the United States and riparian habitat within the Specific Plan area. Bioengineering bank stabilization techniques shall be used to the extent feasible and the installation of hardscape within jurisdictional waters of the United States shall be minimized to the greatest extent feasible to achieve the overall project objectives. 	<p>The applicant shall design and construct project components to avoid and minimize adverse effects to jurisdictional waters of the United States and riparian habitat</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p>
<ul style="list-style-type: none"> ▶ Wherever possible, riparian woodland habitat shall be avoided and preserved; the connectivity of the Dry Creek riparian corridor shall be maintained and enhanced. Areas of riparian woodland to remain undisturbed shall be clearly marked for avoidance during construction by methods such as fencing or flagging and construction personnel shall be educated about the need to avoid adverse effects on this resource. 	<p>The applicant shall avoid and preserve riparian woodland habitat</p>	<p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p>
	<p>The applicant shall maintain and enhance the connectivity of the Dry Creek riparian corridor</p>	<p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p>
	<p>The project contractor shall mark areas of riparian woodland with fencing or flagging</p>	<p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p>
	<p>The project contractor shall avoid construction activities inside areas of riparian woodland</p>	<p>During construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p>
<ul style="list-style-type: none"> ▶ The project shall incorporate restoration and enhancement of the riparian corridor into the final design plans and construction specifications. Loose rock and concrete debris along the creek banks shall be removed as appropriate. The riparian corridor along the creek channel shall be enhanced by the planting of native shrub, tree, and understory species to 	<p>The applicant shall design and construct project components to incorporate restoration and enhancement of the riparian corridor</p>	<p>Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel</p>	<p>PRD</p>

**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party
	The project contractor shall remove Loose rock and concrete debris along the creek banks	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
	The project contractor shall enhance the riparian corridor along the creek channel by planting of native shrub, tree, and understory species	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
▶ Before any ground disturbing activities begin within the aquatic or riparian habitat of the active creek channel, a qualified biologist shall map potential waters of the United States as part of a formal delineation of waters of the United States and shall identify all riparian habitat that could be affected by the project. The findings shall be documented in a detailed report and submitted to the USACE for verification as part of the formal Section 404 wetland delineation process. If there would be unavoidable effects under USACE jurisdiction, the Section 404 process shall be completed and the acreage of affected jurisdictional habitat shall be replaced and/or rehabilitated. The acreage of jurisdictional wetland affected shall be replaced on a “no-net-loss” basis in accordance with USACE regulations. Habitat restoration, rehabilitation, and/or replacement shall be at a location and by feasible methods agreeable to USACE. All minimization and compensation measures adopted through the permitting process shall be implemented.	The applicant shall prepare formal delineation map of potential waters of the United States and identify all riparian habitat that could be affected by a qualified biologist	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
	The applicant shall submit findings to USACE for verification as part of the formal Section 404 wetland delineation process	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
▶ Approval by the RWQCB, as determined during the Section 401 and Section 404 permitting processes, shall be required. All mitigation requirements determined through this process shall be implemented before any ground disturbing activities begin.	The applicant shall acquire approval from the RWQCB and implement all requirements of approval	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
▶ If there would be unavoidable effects to habitats under DFG jurisdiction, a streambed alteration agreement shall be obtained and affected habitat shall be replaced and/or rehabilitated. Because project implementation could result change to the natural flow and/or bed and bank of Dry Creek, the project could require a Section 1602 streambed alteration agreement from DFG. If complete avoidance of indentified riparian habitat is not feasible, the acreage of riparian habitat that would be removed shall be replaced or rehabilitated on a “no-net-loss” basis in accordance with DFG regulations	The applicant shall obtain streambed alteration agreement, if there would be unavoidable effects to habitats under DFG jurisdiction.	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
and as specified in the streambed alteration agreement, if needed. Habitat restoration, rehabilitation, and/or replacement shall be at a location and by feasible methods agreeable to DFG. All minimization and compensation measures adopted through the permitting process shall be implemented.	The applicant shall replace or rehabilitate affected habitat on a “no-net-loss” basis in accordance with DFG regulations and as specified in the streambed alteration agreement	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
<p>4.9-8: Protected Trees. The following measures shall be implemented to mitigate adverse effects to protected trees potentially resulting from the proposed project. Tree removal shall be avoided unless 1) necessary for project construction, 2) identified as safety hazards in a Certified Arborist Tree Survey and located in existing or planned public access areas (e.g., streets, trails), or 3) if exotic invasive species (e.g., tree of heaven). In the Dry Creek riparian corridor, snags, dead wood and branches on live trees, and fallen branches shall be retained to the maximum extent possible due to the important habitat functions that they provide for wildlife.</p> <ul style="list-style-type: none"> ▶ Based on final approved project plans, the project applicant shall determine where protected trees are present within areas proposed for construction and shall identify trees for avoidance or removal. ▶ A Tree Preservation Plan shall be prepared for the protected trees within the Plan area that shall be avoided by the project to ensure that they are adequately protected during construction activities. A Certified Arborist shall prepare a Tree Preservation Plan in accordance with the Title 19 Article IV of the Roseville Municipal Code, which shall contain detailed recommendations for tree preservation and removal based on construction and grading plans. The Tree Preservation Plan shall address each tree potentially affected by construction and recommend preservation or removal based on its suitability for preservation, proximity to construction activities, and ability to tolerate impacts. The Tree Preservation Plan shall also include general preservation and construction guidelines to assist in the protection of trees within or near the grading limits or near construction zones. The Tree Preservation Plan shall include recommendations for specific protective measures for trees before, during, and after construction to reduce impacts to trees from development and maintain their health throughout the construction process. The Tree Preservation Plan shall be prepared using information in a Tree Survey and Assessment or similar report including information on each tree’s species, size, location, 	The applicant shall avoid tree removal to the maximum extent possible	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
	The applicant shall determine where protected trees are present within areas proposed for construction and shall identify trees for avoidance or removal	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
	The applicant shall prepare a Tree Preservation Plan, by a Certified Arborist and in accordance with the Title 19 Article IV of the Roseville Municipal Code	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
	The applicant shall submit the Tree Preservation Plan to the City of Roseville for review and approval	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
condition, and suitability for preservation.			
<p>► Where the removal of protected oaks is deemed necessary, the loss shall be mitigated according to Section 19.66.070 of the Roseville Municipal Code which requires that the replacement be calculated based upon an inch-for-inch replacement of the diameter at breast height of the tree removed. Mitigation trees shall be planted at appropriate sites and with appropriate maintenance to ensure their long-term self-sustaining survival. Where possible, mitigation oaks will be planted in canopy gaps along Dry Creek’s riparian corridor within the Plan area, or elsewhere within the City of Roseville. A performance standard of 80 percent of the established mitigation trees shall be met after 5 years. The mitigation trees shall not be dependent upon significant maintenance measures within the last 2 years of monitoring, including supplemental irrigation and staking. Alternatively, an in-lieu fee payment can be made to the City of Roseville Native Oak Tree Propagation Fund, which is calculated per inch based on the diameter at breast height of the tree removed.</p>	The applicant shall mitigate loss of protected trees according to Section 19.66.070 of the Roseville Municipal Code	Prior to construction-related ground disturbing activities within the riparian habitat of the active creek channel	PRD
Air Quality			
<p>4.10-1: Generation of Short-term Construction-Related Emissions of Criteria Air Pollutants and Precursors. In accordance with the PCAPCD, the applicant shall comply with all applicable rules and regulations as listed above (e.g., Rule 202, 218 and 228). In addition, the following mitigation measures shall be implemented to reduce short-term construction-related air quality impacts. In addition, dust control measures are required to be implemented by all projects in accordance with the City of Roseville Grading Ordinance, and the PCAPCD Fugitive Dust Rule 228.</p> <p>1. The applicant shall submit to PCAPCD a Construction Emission / Dust Control Plan within 30 days prior to groundbreaking. If the PCAPCD does not respond within 20 days, the plan shall be considered approved. The plan must address the minimum requirements found in section 300 and 400 of District Rule 228, Fugitive Dust (www.placer.ca.gov/airpollution/airpolut.htm). The applicant shall keep a hard or electronic copy of Rule 228, Fugitive Dust on-site for reference.</p>	The project contractor shall submit a Construction Emission / Dust Control Plan to PCAPCD for review and approval	30 days prior to construction-related ground disturbing activities	PRD

**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party
<p>2. The Construction Emission/Dust Control Plan shall include a comprehensive inventory (i.e. make, model, year, emission rating) of all heavy-duty off-road equipment (50 horsepower (HP) or greater) that will be used an aggregate of 40 or more hours for the construction project. The project representative shall provide PCAPCD with the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman. The plan shall demonstrate that the heavy-duty (> 50 HP) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a project wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most recent ARB fleet average. PCAPCD shall be contacted for average fleet emission data. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. Contractors can access the Sacramento Metropolitan Air Quality Management District’s web site to determine if their off-road fleet meets the requirements listed in this measure (http://www.airquality.org/ceqa/Construction_Mitigation_Calculator.xls).</p>	<p>The project contractor shall prepare a Construction Emission/Dust Control Plan that includes a comprehensive inventory list of f all heavy-duty off-road equipment that will be used an aggregate of 40 or more hours for the construction project</p>	<p>30 days prior to construction-related ground disturbing activities</p>	<p>PRD</p>
	<p>The project contractor shall prepare a Construction Emission/Dust Control Plan that includes anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman</p>	<p>30 days prior to construction-related ground disturbing activities</p>	<p>PRD</p>
	<p>The project contractor shall prepare a Construction Emission / Dust Control Plan that demonstrates that the heavy-duty (> 50 HP) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a project wide fleet-average 20% NOX reduction and 45% particulate reduction compared to the most recent ARB fleet average</p>	<p>30 days prior to construction-related ground disturbing activities</p>	<p>PRD</p>
<p>3. Clean earth moving construction equipment with water or sweep clean, once per day, or as necessary (e.g., when moving onsite), consistent with National Pollutant Discharge Elimination System Best Management Practices, local ordinances, and municipal codes. Water shall be applied to control dust as needed to prevent dust impacts offsite. Operational water truck(s), shall be on-site, as required, to control fugitive dust. Construction vehicles leaving the site shall be cleaned, as needed, to prevent dust, silt, mud, and dirt from being released or tracked off-site.</p>	<p>The project contractor shall clean earth moving construction equipment with water or sweep clean, once per day, or as necessary (e.g., when moving onsite), consistent with National Pollutant Discharge Elimination System Best Management Practices, local ordinances, and municipal codes</p>	<p>During construction-related ground disturbing activities</p>	<p>PRD</p>

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**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party
	The project contractor shall apply water to control dust as needed to prevent dust impacts offsite	During construction-related ground disturbing activities	PRD
4. Spread soil binders on unpaved roads and employee/equipment parking areas. Soil binders shall be non-toxic in accordance with state and local regulations. Apply approved chemical soil stabilizers, or vegetated mats, etc. according to manufacturers' specifications, to all-inactive construction areas (previously graded areas which remain inactive for 96 hours).	The project contractor shall spread soil binders on unpaved roads and employee/equipment parking areas	During construction-related ground disturbing activities	PRD
5. Minimize diesel idling time to a maximum of 10 minutes.	The project contractor shall minimize diesel idling time to a maximum of 10 minutes	During construction-related ground disturbing activities	PRD
6. Utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary diesel power generators, if feasible.	The project contractor shall utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary diesel power generators, if feasible	During construction-related ground disturbing activities	PRD
7. Measures specific to 20+ acre project sites:	The project contractor shall hold a pre-construction meeting to review the construction emission/dust control plan	Prior to construction-related ground disturbing activities	PRD
▶ A pre-construction meeting shall be held to review the construction emission/dust control plan for projects requiring grading of 20+ acres. PCAPCD shall be notified and may attend.			
▶ The applicant shall comply with PCAPCD Fugitive Dust Rule 228; including suspending grading operations when conditions exceed designated wind speeds, and executing proper control of lime or other drying agents.	The project contractor shall comply with PCAPCD Fugitive Dust Rule 228	During construction-related ground disturbing activities	PRD
	The project contractor shall perform a Visible Emissions Evaluations, by an ARB-certified representative, routinely (i.e., once per week) to evaluate project related off-road and heavy-duty on-road equipment emissions for compliance with this requirement	During construction-related ground disturbing activities	PRD
▶ An applicant representative, ARB-certified to perform Visible Emissions Evaluations (VEE), shall routinely (i.e., once per week) evaluate project related off-road and heavy-duty on-road equipment emissions for compliance with this requirement for projects grading	The project contractor shall comply with PCAPCD Visible Emissions Rule 202	During construction-related ground disturbing activities	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<p>more than 20 acres in size, regardless of how many acres are to be disturbed daily.</p> <ul style="list-style-type: none"> ▶ Construction equipment exhaust emissions shall not exceed the PCAPCD Visible Emissions Rule 202. Fugitive dust is not to exceed 40% opacity and not go beyond property boundary at any time. Operators of vehicles and equipment found to exceed opacity limits are to be immediately notified and the equipment must be repaired within 72 hours. 	<p>The project contractor shall notify PCAPCD if Operators of vehicles and equipment found to exceed opacity limits</p>	<p>During construction-related ground disturbing activities</p>	<p>PRD</p>
<p>4.10-2: Generation of Long-Term Operation-Related (Regional) Emissions of Criteria Air Pollutants and Ozone Precursors. The following is a list of mitigation measures developed by PCAPCD to reduce long-term operational impacts to local and regional air quality. Due to the severe nonattainment designation in western Placer County for federal standards, all projects should implement those measures that are logical and feasible.</p> <ol style="list-style-type: none"> 1. Exceed California Title 24 2008 energy efficiency standards by a minimum of 10%. Areas of Title 24 to be exceeded (e.g., insulation, appliances, and fixtures) shall be determined by the applicant and the City. 2. All truck loading and unloading docks shall be equipped with one 110/208-volt power outlet for every two-dock door. Diesel trucks shall be prohibited from idling more than five minutes and must be required to connect to the 110/208-volt power to run any auxiliary equipment. Signage shall be provided. 3. Install a gas outlet in all outdoor recreational fire pits, and permanently installed cooking appliances. 	<p>The applicant shall design projects to exceed California Title 24 energy requirements</p>	<p>Prior to issuance of building permit</p>	<p>PRD</p>
	<p>The applicant shall equip all truck loading and unloading docks with one 110/208-volt power outlet for every two-dock door</p>	<p>During project operation</p>	<p>PRD</p>
	<p>The applicant shall prohibit diesel trucks from idling more than five minutes and require diesel trucks to connect to the 110/208-volt power to run any auxiliary equipment</p>	<p>Prior to issuance of building permit</p>	<p>PRD</p>
<p>The applicant shall install a gas outlet in all outdoor recreational fire pits, and permanently installed cooking appliances</p>	<p>Prior to issuance of building permit</p>	<p>PRD</p>	

Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
4. Only natural gas fireplace appliances are permitted. Where propane or natural gas service is not available, only EPA Phase II certified wood-burning devices shall be allowed in single-family residences. The emission potential from each residence shall not exceed 7.5 grams per hour. Wood-burning or Pellet appliances shall not be permitted in multi-family developments.	The applicant shall allow only natural gas fireplace appliances	Prior to issuance of building permit	PRD
	Where propane or natural gas service is not available, the applicant shall allow only EPA Phase II certified wood-burning devices	Prior to issuance of building permit	PRD
	The applicant shall prohibit wood-burning or pellet appliances in multi-family developments.	Prior to issuance of building permit	PRD
5. Where feasible, install solar electric generation systems. Recommend participation in Roseville Electric incentive programs for energy-efficient development.	The applicant shall install solar electric generation systems, where feasible	Prior to issuance of building permit	PRD
4.10-3: Exposure of Sensitive Receptors to Toxic Air Contaminant Emissions. The following mitigation measures shall be implemented to reduce the exposure of sensitive receptors to TACs: <ul style="list-style-type: none"> ▶ All proposed homes in the Plan area shall be equipped with filter systems with high Minimum Efficiency Reporting Value (MERV) for removal of small particles (such as 0.3 micron) at all air intake points to the home. All proposed dwelling units shall be constructed with mechanical ventilation systems which would allow occupants to keep windows and doors closed and allow for the introduction of fresh outside air, without the requirement of open windows. ▶ Proposed commercial uses that have the potential to emit TACs (e.g., diesel-fueled engines) shall be located as far away as possible from existing and proposed receptors. ▶ Proponents of projects with a residential component shall provide disclosure to future residents advising them of the proximity to the JR Davis Rail Yard and associated health risk impacts. 	The applicant shall equip homes with filter systems with high Minimum Efficiency Reporting Value (MERV) for removal of small particles (such as 0.3 micron) at all air intake points to the home	Prior to issuance of building permit	PRD
	The applicant shall locate commercial uses that have the potential to emit TACs (e.g., diesel-fueled engines) as far away as possible from existing and proposed receptors	Prior to approval of use permit	PRD
	The applicant shall disclose future residents advising them of the proximity to the JR Davis Rail Yard and associated health risk impacts	Prior to issuance of building permit	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
<ul style="list-style-type: none"> ▶ When determining the exact type of facility that would occupy the proposed commercial space, the project shall take into consideration its toxic-producing potential. ▶ Proposed facilities that would require the long-term use of diesel equipment and heavy-duty trucks shall develop a plan to reduce emissions, which may include such measures as scheduling such activities when the residential uses are the least occupied, and requiring such equipment to be shut off when not in use and prohibiting heavy-trucks from idling. ▶ To the extent feasible, sensitive receptors shall be located as far away from the UPRR maintenance facility as possible. ▶ Implement Mitigation Measure 4.10-2-2, described above, with respect to electrification of commercial loading dock areas to reduce emissions associated with truck idling. 	The applicant shall take into consideration its toxic-producing potential of proposed commercial space	Prior to approval of use permit	PRD
	The applicant shall prepare and submit plan to reduce emissions to the City of Roseville for review and approval	Prior to issuance of building permit	PRD
	The applicant shall locate sensitive receptors as far away from the UPRR maintenance facility as possible	Prior to approval of use permit	PRD
	The applicant shall equip all truck loading and unloading docks with one 110/208-volt power outlet for every two-dock door	Prior to issuance of building permit	PRD
4.10-5: Exposure of Sensitive Receptors to Odors. Implementation of Mitigation Measure 4.10-3 to reduce indoor exposure to TACs would also result in a reduction in the intensity of offensive odors from the surrounding odor sources. In addition, the applicant shall require all businesses that occupy the property to install odor-controls as necessary to prevent a substantial dispersion of odors to adjacent residential areas.	The applicant shall install odor-controls as necessary to prevent a substantial dispersion of odors to adjacent residential areas	During project operation	PRD
Noise			
<p>4.11-1: Short-Term Construction-Generated Noise Levels. Although impacts related to short-term construction-generated noise were considered to be less than significant with implementation of the project, the following mitigation is provided to ensure impacts remain at a less-than-significant level. Construction contractors shall implement the following measures during construction activities.</p> <ul style="list-style-type: none"> ▶ Construction equipment shall be properly maintained per manufacturers' specifications and fitted with the best available noise suppression devices (i.e., mufflers, silencers, wraps, etc). Shroud or shield all impact tools, and muffle or shield all intake and exhaust ports on power equipment. 	The project contractor shall maintain construction equipment per manufacturers' specifications and fitted with the best available noise suppression devices (i.e., mufflers, silencers, wraps, etc)	During construction activities	PRD
	The project contractor shall Shroud or shield all impact tools, and muffle or shield all intake and exhaust ports on power equipment	During construction activities	PRD

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**Table 1
Downtown Roseville Specific Plan Project Mitigation Monitoring Program**

Mitigation Measure	Implementation	Timing	Reviewing Party
<ul style="list-style-type: none"> ▶ Construction operations and related activities associated with the proposed project shall comply with the operational hours outlined in the City of Roseville Municipal Code Noise Ordinance; construction operations shall be limited to between the hours of 7 a.m. and 7 p.m. Monday through Friday and between 8 a.m. and 8 p.m. Saturday and Sunday. 	<p>The project contractor shall comply with the operational hours outlined in the City of Roseville Municipal Code Noise Ordinance</p>	During construction activities	PRD
	<p>The project contractor shall restrict construction activities to between the hours of 7 a.m. and 7 p.m. Monday through Friday and between 8 a.m. and 8 p.m. Saturday and Sunday</p>	During construction activities	PRD
<ul style="list-style-type: none"> ▶ Construction equipment should not be idled for extended periods of time in the vicinity of noise-sensitive receptors. 	<p>The project contractor shall restrict construction equipment from idling for extended periods of time in the vicinity of noise-sensitive receptors</p>	During construction activities	PRD
<ul style="list-style-type: none"> ▶ Locate fixed and/or stationary equipment as far as possible from noise sensitive receptors (e.g., generators, compressors, rock crushers, cement mixers). Shroud or shield all impact tools, and muffle or shield all intake and exhaust ports on powered construction equipment. 	<p>The project contractor shall locate fixed and/or stationary equipment as far as possible from noise sensitive receptors (e.g., generators, compressors, rock crushers, cement mixers).</p>	During construction activities	PRD
	<p>The project contractor shall shroud or shield all impact tools, and muffle or shield all intake and exhaust ports on powered construction equipment.</p>	During construction activities	PRD

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**Table 1
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Mitigation Measure	Implementation	Timing	Reviewing Party
<p>► Where feasible, temporary barriers shall be placed as close to the noise source or as close to the receptor as possible and break the line of sight between the source and receptor where modeled levels exceed applicable standards. Acoustical barriers shall be constructed material having a minimum surface weight of 2 pounds per square foot or greater, and a demonstrated Sound Transmission Class (STC) rating of 25 or greater as defined by American Society for Testing and Materials (ASTM) Test Method E90. Placement, orientation, size, and density of acoustical barriers shall be specified by a qualified acoustical consultant.</p>	<p>The project contractor shall place temporary barriers as close to the noise source or as close to the receptor as possible and break the line of sight between the source and receptor where modeled levels exceed applicable standards</p>	During construction activities	PRD
	<p>The project contractor shall construct acoustical barriers, as needed, with material having a minimum surface weight of 2 pounds per square foot or greater, and a demonstrated Sound Transmission Class (STC) rating of 25 or greater as defined by American Society for Testing and Materials (ASTM) Test Method E90</p>	During construction activities	PRD
	<p>The project contractor shall acquire expertise of qualified acoustical consultant for placement, orientation, size, and density of acoustical barriers, as needed</p>	During construction activities	PRD
<p>4.11-3: Long-Term Operational Stationary Source Noise Levels. Project applicant(s) for industrial and commercial/office land uses shall implement the following measures to reduce exposure of sensitive receptors to excessive noise levels from future stationary sources.</p> <p>1. Industrial and Commercial/Office Land Uses. Where these land uses adjoin common property lines with noise-sensitive uses, the following mitigation measures shall be incorporated into the project design to reduce noise exposure from future stationary sources.</p> <p>a. During project review the City’s Planning Department shall determine if the proposed use would likely generate noise levels adversely affecting the adjacent noise-sensitive uses. If a proposed project has the potential to generate or expose noise-sensitive uses to noise levels</p>	<p>The applicant shall determine if the proposed use would likely generate noise levels adversely affecting the adjacent noise-sensitive uses</p>	Prior to issuance of use permit	PRD
	<p>The applicant shall prepare a site-specific acoustical analysis. If a proposed project has the potential to generate or expose noise-sensitive uses to noise levels exceeding the City of Roseville noise standards or result in a substantial (3 dB or greater)</p>	Prior to issuance of use permit	PRD

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Mitigation Measure	Implementation	Timing	Reviewing Party
<p>exceeding the City of Roseville noise standards (Tables 4.11-4 through 4.11-6) or result in a substantial (3 dB or greater) permanent increase in ambient noise levels, the project applicant shall prepare a site-specific acoustical analysis. The acoustical analysis shall be conducted in accordance with the City of Roseville General Plan requirements shown in Table 4.11-5.</p>	<p>permanent increase in ambient noise levels</p>		
<p>b. Loading and unloading areas shall be located so that commercial buildings shield nearby residential land uses from noise generated by loading dock and delivery activities. If necessary, additional sound barriers shall be constructed on the commercial sites to protect nearby noise-sensitive uses.</p>	<p>The applicant shall locate loading and unloading areas so that commercial buildings shield nearby residential land uses from noise generated by loading dock and delivery activities</p>	<p>Prior to issuance of use permit</p>	<p>PRD</p>
<p>c. Loading dock activity and delivery truck activity at the commercial uses developed on the project site shall only occur during the daytime hours of 7 a.m. to 10 p.m., in order to prevent evening and nighttime sleep disturbance at nearby residential land uses.</p>	<p>The applicant shall restrict loading dock activity and delivery truck activity at the commercial uses to only occur during the daytime hours of 7 a.m. to 10 p.m.</p>	<p>During project operation</p>	<p>PRD</p>
<p>d. All commercial HVAC machinery shall be located within mechanical equipment rooms wherever possible. Equipment manufacturer's specifications for venting and access to outside air shall be maintained.</p>	<p>The applicant shall locate all commercial HVAC machinery within mechanical equipment rooms wherever possible</p>	<p>Prior to issuance of use permit</p>	<p>PRD</p>
	<p>The applicant shall maintain equipment manufacturer's specifications for venting and access to outside air</p>	<p>During project operation</p>	<p>PRD</p>
<p>e. Localized noise barriers or rooftop parapets shall be constructed around the HVAC, cooling towers, and mechanical equipment so that line-of-site to the noise source from the property line of the noise-sensitive receptors is blocked. Equipment manufacturer's specifications for venting and access to outside air shall be maintained.</p>	<p>The applicant shall construct localized noise barriers or rooftop parapets around the HVAC, cooling towers, and mechanical equipment</p>	<p>Prior to issuance of use permit</p>	<p>PRD</p>

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Mitigation Measure	Implementation	Timing	Reviewing Party
f. Property maintenance activities at commercial and office uses shall be restricted to daytime hours between 8 a.m. and 9 p.m.	The applicant shall restrict maintenance activities at commercial and office uses to daytime hours between 8 a.m. and 9 p.m.	During project operation	PRD
g. The owner or developer of any mixed-use building containing residential units shall provide written notice to all future residents, occupants, and users that the surrounding area may be subject to levels of noise associated with commercial uses at higher levels than would be expected in residential areas.	The applicant shall provide notice to all future residents, occupants, and users that the surrounding area	Prior to issuance of occupancy permit	PRD
Project applicant(s) for parking structures shall implement the following measures to reduce exposure of sensitive receptors to excessive noise levels from future stationary sources.	The applicant shall orientate parking structures so that nearby noise-sensitive receptors would be shielded from all on-site circulation routes	Prior to issuance of use permit	PRD
2. Parking Structures. Parking structures located in the immediate vicinity of noise-sensitive land uses shall include the following mitigation measures.			
a. Orientate parking structures so that nearby noise-sensitive receptors would be shielded from all on-site circulation routes (entrances, exits, and internal routes). If maintaining visibility is required transparent acoustical screens shall be installed on openings with direct line-of-sight to noise-sensitive receptors.			
b. Parking structures driveways and entrances shall be located so that the structure serves as a barrier to nearby noise-sensitive receptors.	The applicant shall locate parking structures driveways and entrances to act as a barrier to nearby noise-sensitive receptors	Prior to issuance of use permit	PRD
c. Interior reflective surfaces (i.e., ceilings), exposing nearby noise-sensitive receptors to elevated noise levels shall have an acoustically absorptive treatment, such as spray-in cellulose applied.	The applicant shall apply acoustically absorptive treatment to interior reflective surfaces	Prior to issuance of building permit	PRD
d. Parking structure capacity shall be limited during more sensitive evening and nighttime hours (7 p.m. to 7 a.m.). (i.e., 50% capacity from 7 p.m. to 10 p.m., 30% capacity from 10 p.m. to 7 a.m.).	The City of Roseville shall limit parking structure capacity during more sensitive evening and nighttime hours	During project operation	PRD

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
e. To ensure compliance, further analysis of on-site noise generation from the proposed parking structures shall be conducted when tentative maps become available.	The City of Roseville shall conduct noise analysis of on-site noise generation from the proposed parking structures	During project operation	PRD
<p>4.11-4: Land Use Compatibility of On-site Sensitive Receptors with Future Traffic Noise Levels. Project applicant(s) shall implement the following measures to substantially reduce the exposure of sensitive receptors to excessive roadway traffic noise levels.</p> <ul style="list-style-type: none"> ▶ During project review, the City’s planning staff shall determine if the proposed land use would potentially be exposed to noise levels exceeding the City’s noise level standards. If a proposed project has the potential to generate or be exposed to noise levels exceeding the City of Roseville noise standards (refer to Tables 4.11-4 through 4.11-6) or result in a substantial permanent increase in ambient noise levels (3 dB or greater), the project applicant shall prepare a site-specific acoustical analysis. The acoustical analysis shall be conducted in accordance with the City of Roseville General Plan requirements shown in Table 4.11-5. ▶ Disclose all transportation noise (i.e., roadway, railway, race track), vibration levels, and their meanings to purchasers and/or renters prior to contract or title transfer for residential property within the Plan area. ▶ Incorporate site specific design considerations to reduce exterior noise exposure levels. Site design shall include the following measures as applicable to the project-specific site and when feasible: <ul style="list-style-type: none"> • Common outdoor activity areas, such as play structures, swimming pools, or other outdoor congregation areas included in multi-family residential and/or mixed-use developments shall be located such that the building(s) serve as a sound barrier to the nearest predominant noise source. • Distances between noise sources and noise-sensitive uses shall be maximized through the use of noise buffers/setbacks. Setback areas can 	The applicant shall determine if the proposed land use would potentially be exposed to noise levels exceeding the City’s noise level standards	Prior to issuance of use permit	PRD
	The applicant shall prepare a site-specific acoustical analysis, if a proposed project has the potential to generate or expose noise-sensitive uses to noise levels exceeding the City of Roseville noise standards or result in a substantial (3 dB or greater) permanent increase in ambient noise levels	Prior to issuance of use permit	PRD
	The applicant shall disclose all transportation noise (i.e., roadway, railway, race track), vibration levels, and their meanings to purchasers and/or renters prior to contract or title transfer for residential property	Prior to issuance of use permit	PRD
The applicant shall incorporate site specific design considerations to reduce exterior noise exposure levels	Prior to issuance of use permit	PRD	

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Mitigation Measure	Implementation	Timing	Reviewing Party
<p>take the form of open space, frontage roads, recreational areas, storage yards, or other City approved setback.</p> <ul style="list-style-type: none"> Noise barriers shall be constructed to provide shielding of noise-sensitive uses and outdoor activity areas. Barriers may include manmade walls, earthen berms, a combination of walls and berms, and other structures breaking line of sight from noise source to receptor. Barriers shall be located in close proximity to either the noise source or the sensitive receptor. A site specific acoustical analysis shall be performed consistent with Table 4.11-5, and determine effectiveness of various site design measures based on specific construction plans. 	The applicant shall conduct site-specific acoustical analysis to determine effectiveness of various site design measures based on specific construction plans	Prior to issuance of use permit	PRD
<p>4.11-5: Land Use Compatibility of On-site Sensitive Receptors with Future Railroad Noise Levels. Implement mitigation measure 4.11-4 to reduce the exposure of sensitive receptors (i.e., residential, mixed-use development) to significant noise associated with future railroad and rail yard operations.</p>	The applicant shall conduct actions listed above for 4.11-4: Land Use Compatibility of On-site Sensitive Receptors with Future Traffic Noise Levels	Prior to issuance of use permit	PRD
<p>4.11-6: Future Interior Noise Levels at On-site Sensitive Receptors. Project applicant(s) shall implement the following measures for all noise-sensitive land uses with direct exposure to roadways, parking areas, and railways and exterior noise levels greater than 70 dB Ldn:</p> <ul style="list-style-type: none"> All residential uses shall be constructed with air conditioning and mechanical ventilation systems that allow for windows and doors to remain closed and achieve acoustical isolation from traffic and railroad noise. The systems shall allow for the introduction of fresh outside air, without the requirement of open windows. Access to outside air shall be automatically controlled to prevent unintentionally flowing seasonally hot or cold into conditioned space. Attic vents direct exposure to elevated noise levels shall be acoustically baffled, containing at least one 90 degree obstruction to the flow of air. The baffle shall be fitted with an acoustically absorbent liner. Exterior walls shall be constructed of a three-coat stucco or wood siding with an exterior underlayment or sound board. 	<p>The applicant shall construct residential uses with air conditioning and mechanical ventilation systems that allow for windows and doors to remain closed and achieve acoustical isolation from traffic and railroad noise</p> <p>The applicant shall acoustically baffle attic vents</p> <p>The applicant shall construct exterior walls shall be constructed of a three-coat stucco</p>	<p>Prior to issuance of building permit</p> <p>Prior to issuance of building permit</p> <p>Prior to issuance of building permit</p>	<p>PRD</p> <p>PRD</p> <p>PRD</p>

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Mitigation Measure	Implementation	Timing	Reviewing Party
	or wood siding with an exterior underlayment or sound board		
<ul style="list-style-type: none"> ▶ All residential windows and doors with direct exposure to elevated noise levels shall be required to meet a minimum STC rating of 34. 	The applicant shall design residential windows and doors with direct exposure to elevated noise levels to meet a minimum STC rating of 34	Prior to issuance of building permit	PRD
<ul style="list-style-type: none"> ▶ Windows and sliding glass doors shall be mounted in low infiltration rate frames (0.5 cubic feet per minute or less, per ANSI specifications). 	The applicant shall mount windows and sliding glass doors in low infiltration rate frames (0.5 cubic feet per minute or less, per ANSI specifications)	Prior to issuance of building permit	PRD
<ul style="list-style-type: none"> ▶ Exterior doors shall be solid core with perimeter weather-stripping and threshold seals. 	The applicant shall design exterior doors to be solid core with perimeter weather-stripping and threshold seals	Prior to issuance of building permit	PRD
<ul style="list-style-type: none"> ▶ The City shall require project applicants to submit an acoustical analysis which verifies compliance with the City of Roseville interior noise level standard of 45 dB L_{dn}. The analysis shall be based on detailed construction plans and site configuration details, and be conducted by a qualified acoustical consultant. 	The applicant shall prepare and submit an acoustical analysis which verifies compliance with the City of Roseville interior noise level standard of 45 dB L _{dn} .	Prior to issuance of building permit	PRD
<p>Ground-Borne Noise and Vibration Levels at Sensitive Receptors. Project applicant(s) shall implement the following measures to reduce the potential for human annoyance and architectural/structural damage resulting from elevated ground-borne noise and vibration levels.</p> <ul style="list-style-type: none"> ▶ Construction-Induced Vibration: <ul style="list-style-type: none"> • Pile driving required within a 50-foot radius of historic structures should utilize alternative installation methods were possible (e.g., pile cushioning, jetting, pre-drilling, cast-in-place systems, resonance-free vibratory pile drivers). Specifically, geo pier style cast in place systems shall be used where feasible as an alternative to pile driving to reduce the number and amplitude of impacts required for seating the pile. • The pre-existing condition of all buildings within a 50-foot radius, and historical buildings within the immediate vicinity of proposed construction activities shall be recorded in the form of a preconstruction 	<p>The applicant shall utilize alternative installation methods were possible for pile driving required within a 50-foot radius of historic structures</p> <p>The project contractor shall record the pre-existing condition of all buildings within a 50-foot radius, and historical buildings within the immediate vicinity of proposed construction activities</p> <p>The project contractor shall document fixtures and finishes within a 50-foot radius of construction activities susceptible to damage</p>	<p>During construction activities</p> <p>Prior to construction activities</p> <p>Prior to construction activities</p>	<p>PRD</p> <p>PRD</p> <p>PRD</p>

Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
survey. The preconstruction survey shall determine conditions that exist			
<p>before construction begins for use in evaluating damage caused by construction activities. Fixtures and finishes within a 50-foot radius of construction activities susceptible to damage shall be documented (photographically and in writing) prior to construction. All damage will be repaired back to its pre-existing condition.</p> <ul style="list-style-type: none"> Vibration monitoring shall be conducted prior to and during pile driving operations occurring within 100 feet of the historic structures. Every attempt shall be made to limit construction generated vibration levels in accordance with Caltrans recommendations during pile driving and impact activities in the vicinity of the historic structures. Provide protective coverings or temporary shoring of on-site or adjacent historic features as necessary, in consultation with the Preservation Director. <p>► Railroad Induced Vibration:</p> <ul style="list-style-type: none"> Vibration sensitive uses shall be located a minimum of 100 feet from the UPRR centerline. To ensure compliance with FTA and Caltrans recommended guidelines, and site specific ground-borne noise and vibration assessment should be conducted. A ground-borne vibration assessment shall be conducted at proposed building pad locations within 200 feet of UPRR right of ways, prior to project approval. Vibration monitoring and assessment shall be conducted by a qualified noise and vibration control engineer. 	<p>The project contractor shall repair all damage back to its pre-existing condition</p> <p>The project contractor shall conduct vibration monitoring prior to and during pile driving operations occurring within 100 feet of the historic structures</p> <p>The project contractor shall provide protective coverings or temporary shoring of on-site or adjacent historic features</p> <p>The applicant shall locate vibration sensitive uses a minimum of 100 feet from the UPRR centerline</p> <p>The applicant shall conduct ground-borne vibration assessment, by a qualified noise and vibration control engineer, at proposed building pad locations within 200 feet of UPRR right of ways</p>	<p>Within 30 days after completion of construction activities</p> <p>Prior to and during construction activities</p> <p>During construction activities</p> <p>Prior to issuance of use permit</p> <p>Prior to issuance of use permit</p>	<p>PRD</p> <p>PRD</p> <p>PRD</p> <p>PRD</p> <p>PRD</p>
Hydrology and Water Quality			
<p>4.12-5: Expose People or Structures to a Significant Risk of Flooding. All habitable structures constructed in the Plan area shall be located outside the adjusted 100-year flood plain as identified in the <i>Downtown Specific Plan Hydraulic Study</i> (RBF 2008) prepared for the Downtown Roseville Specific Plan. Additional encroachment into areas within the adjusted 100-year flood plain shall require site specific hydraulic modeling. Specific structures identified in the Downtown Roseville Specific Plan shall be prohibited from being constructed inside the adjusted 100-year flood plain unless evaluated and</p>	<p>The applicant shall locate all habitable structures constructed in the Plan area outside the adjusted 100-year flood plain as identified in the <i>Downtown Specific Plan Hydraulic Study</i> (RBF 2008) prepared for the Downtown Roseville Specific</p>	<p>Prior to issuance of use permit</p>	<p>PRD</p>

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Table 1 Downtown Roseville Specific Plan Project Mitigation Monitoring Program			
Mitigation Measure	Implementation	Timing	Reviewing Party
approved through project specific hydraulic modeling including structures associated with mixed-use development and high-density residential.	Plan		
	The applicant shall conduct site specific hydraulic modeling when additional encroachment into areas within the adjusted 100-year flood plain is required	Prior to issuance of use permit	PRD
<p>4.12-6: Proposed Project Structures within the 100-year Flood Zone Could Impede or Redirect Flood Flows. To prevent impeding or redirecting storm water flows in Dry Creek, the following actions shall be implemented for design and construction of improvements identified in the Downtown Roseville Specific Plan adjacent to Dry Creek.</p> <p>1. The Creek Walk identified in the Downtown Roseville Specific Plan shall be constructed at the existing top of bank elevation for Dry Creek and the area south of the new library bridge shall be made inaccessible during major storm events.</p> <p>2. All pedestrian bridges in the Specific Plan area and the grand staircase shall be aligned to prevent increased 100-year flood water surface elevations in Dry Creek. Additional hydraulic analyses shall be conducted for the new pedestrian bridge alignments that are inconsistent with the RBF hydraulic analysis.</p> <p>3. Prior to any golf course related development activities in Saugstad Park, a site-specific hydraulic analysis or other acceptable analysis shall be conducted for a more specific golf course development plan to ensure that there is no risk of impeding or redirecting flood flows. This future analysis shall be reviewed and approved by the City’s Public Works Department.</p>	The applicant shall construct Creek Walk at the existing top of bank elevation for Dry Creek and make the area south of the new library bridge inaccessible during major storm events	Prior to construction activities	PWD
	The applicant shall align all pedestrian bridges and the grand staircase to prevent increased 100-year flood water surface elevations in Dry Creek	Prior to construction activities	PWD
	The applicant shall conduct hydraulic analyses for new pedestrian bridge alignments if inconsistent with the RBF hydraulic analysis	Prior to construction activities	PWD
	The applicant shall conduct hydraulic analyses for a more specific golf course development plan to ensure that there is no risk of impeding or redirecting flood flows	Prior to construction activities	PWD
	The applicant shall submit the hydraulic analyses for a more specific golf course development plan to PWD for review and approval	Prior to construction activities	PWD
4.12-7: Inundation by Seiche, Tsunami, or Mudflow. Implement Mitigation Measure 4.4-3.	The applicant shall hire a qualified, licensed geotechnical engineer to map the Dry Creek corridor for clay-rich, weak soils,	Prior to any construction or grading activities occurring in Dry Creek	PWD

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Mitigation Measure	Implementation	Timing	Reviewing Party
	and high groundwater conditions		

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