

II. SUMMARY

A. PROJECT UNDER REVIEW

This EIR has been prepared to evaluate the potential environmental effects of the MacArthur Transit Village project. The project site includes the BART parking lot, the BART plaza, Frontage Road between West MacArthur Boulevard and 40th Street, and seven privately-owned parcels. The MacArthur Transit Village Project seeks to redevelop and revitalize an underutilized site in Oakland to create a vibrant transit village that provides pedestrian-oriented, mixed-use development (residential, commercial and community services) that enhances the character of the neighborhood and improves access to (for all travel modes) and ridership of BART.

The 8.2-acre project site is located in North Oakland, within the block bound by 40th Street, Telegraph Avenue, West MacArthur Boulevard, and State Route 24 (SR-24), as shown in Figure I-1. The project would include five buildings with up to 675 units of high-density multi-family housing, up to 44,000 square feet of neighborhood-serving commercial, and 5,000 square feet of community space or childcare facility space. Approximately 17 percent of the units (20 percent of total market-rate units) would be below market-rate (affordable), with the remainder of the units being market-rate condominiums. The project includes approximately 700 residential, commercial and community use parking spaces and 300 BART patron parking spaces. The proposed project is described in detailed in Chapter III, Project Description.

B. SUMMARY OF IMPACTS AND MITIGATION MEASURES

This summary provides an overview of the analysis contained in Chapter V, Setting, Impacts, Standard Conditions of Approval, and Mitigation Measures. CEQA requires a summary to include discussion of: (1) potential areas of controversy; (2) significant impacts; (3) cumulative impacts; (4) significant irreversible and unavoidable impacts; and (5) alternatives to the proposed project. Each of these topics are summarized below.

1. Potential Areas of Controversy

Letters and verbal comments received on the Notices of Preparation (NOP) (February 15, 2006 and June 13, 2006) raised a number of topics that the commentors wanted addressed in the EIR, including transportation, parking, air quality, noise, visual resources, storm drainage and water quality, utilities and infrastructure impacts that may result from the proposed project. In addition, some of the comments offered in the NOP comment letters addressed the merits of the project itself and not the potential adverse environmental

impacts that are the subject of this EIR. Verbal comments offered by those in attendance at the CEQA Scoping Sessions, held on February 28, 2006 and March 15, 2006, included many of the comments offered in writing as comments on the NOP. Copies of the NOPs and written comment letters are included in Appendix A.

2. Significant Impacts

Under CEQA, a significant impact on the environment is defined as "...a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance."¹ Implementation of the proposed project has the potential to result in adverse environmental impacts related to transportation. Transportation impacts would be significant without the implementation of Standard Conditions of Approval and mitigation measures, but, with the exception of two intersections (#3 and #22), would be reduced to a less-than-significant level if the Standard Conditions of Approval and mitigation measures noted in this report are implemented. Impacts are anticipated to be less than significant for all other environmental topics.

3. Alternatives to the Proposed Project

Chapter V includes the analysis of three alternatives to the proposed project to meet the requirements of CEQA to analyze a range of reasonable alternatives to the project that would feasibly attain most of the project's basic objectives and avoid or substantially lessen any of the significant effects of the project. The three project CEQA alternatives analyzed in Chapter V include:

- The **No Project/No Build Alternative**, which assumes the continuation of existing conditions within the project site.
- The **Existing Zoning Alternative**, which assumes development in accordance with the existing zoning (C-28 and R-70) and General Plan land use designation (Neighborhood Center Mixed-Use). The Existing Zoning Alternative would include demolition of all existing buildings and the BART parking lot and remediation of hazardous materials on-site. Development under this alternative would include 530 dwelling units, 44,000 square feet of commercial space (this may include a community space) and approximately 1,015 parking spaces (including 300 exclusive BART parking spaces). Development would consist of five new buildings (including a parking garage). Structures within the existing C-28 zone (properties adjacent to MacArthur Boulevard and Telegraph Avenue) would have a maximum height of 55 feet and structures within the R-70 zone (properties currently developed with the BART parking lot) would have a maximum height of 40 feet. This alternative would include new access/circulation improvements and BART plaza improvements.

¹14 California Code Regs. 15382; Public Resources Code 21068.

- The **Mitigated Reduced Building/Site Alternative**, which assumes development would only occur on the BART parking lot. The Mitigated Reduced Building/Site Alternative would include demolition of the BART parking lot, but all other buildings and uses would remain. Development under this alternative would include four five- to six-story structures with approximately 200 dwelling units, 20,000 square feet of commercial space and 750 parking spaces (including 300 exclusive BART parking spaces).

Three additional planning alternatives to the project are also considered in this EIR. These alternatives may not lessen or avoid any of the significant, adverse environmental effects of the project as they are evaluated primarily to consider variants to the project that may be desirable to the project developer, the City, BART, and/or members of the community. The planning/project merit alternatives analyzed in Chapter V include:

- The **Proposed Project with Full BART Replacement Parking Alternative**, which assumes the proposed project is developed with a 600-space parking garage for BART patrons (as opposed to a 300-space parking garage for BART patrons). Parking spaces under the Proposed Project with Full BART Replacement Parking would be approximately 1,300 with 600 exclusive BART parking spaces. All other project components remain the same (up to 675 residential units, 44,000 square feet of commercial area and 5,000 square feet of community space or childcare facility). Site improvements and circulation pattern are the same the proposed project.
- The **Tower Alternative**, which assumes a 23-story tower building would be constructed at Building D. Under the proposed project, Building D is a four-story residential building. In the Tower Alternative, residential units would increase to 868 units with 720 market-rate and 148 affordable units (as opposed to 675 residential units with 562 market-rate and 113 affordable units) and parking would increase to approximately 1,210 parking spaces, including 300 exclusive BART parking spaces. All other project components remain relatively similar with 34,000 square feet of commercial area and 7,500 square feet of community space or childcare facility. Site improvements and circulation pattern are the same the proposed project.
- The **Increased Commercial Alternative**, which assumes 172,000 square feet of commercial office development, would occur at Building A. Under the proposed project, Building A is a five- to six-story mixed-use building with 230 market-rate units above 26,000 square feet of ground floor commercial and live/work flex space. Under the Commercial Alternative, 172,000 square feet of commercial office space is introduced onto the site with 475 residential units (395 market-rate and 80 affordable units), 27,000 square feet of commercial commercial area and 5,000 of community space or childcare facility. Site improvements and circulation pattern are the same the proposed project.

4. Significant Unavoidable and Cumulative Impacts

As discussed at the end of each topical section in Chapter IV, Setting, Impacts and Mitigation Measures, the project would not significantly contribute to any significant cumulative impacts for any topics other than transportation. The project would significantly contribute to cumulative impacts at the following intersections:

- Telegraph Avenue/52nd Street and Claremont Avenue intersection (#2)
- Telegraph Avenue/51st Street intersection (#3)
- West Street/40th Street intersection (#8)
- the Telegraph Avenue/40th Street intersection (#13)
- Market Street/MacArthur Boulevard intersection (#16)
- Telegraph Avenue/MacArthur Boulevard intersection (#20)
- Broadway/MacArthur Boulevard intersection (#22)

The project's contribution to the cumulative impact at each of the above intersections can be mitigated to a less-than-significant level except at intersection #3 and intersection #22. No other significant and unavoidable impacts would result.

C. SUMMARY TABLE

Information in Table II-1, Summary of Impacts, City Standard Conditions of Approval and Mitigation Measures has been organized to correspond with environmental issues discussed in Chapter IV. The table is arranged in four columns: (1) impacts; (2) level of significance prior to mitigation (when mitigation is necessary); (3) required Standard Conditions of Approval and/or recommended mitigation measures; and (4) level of significance after implementation of Standard Conditions of Approval and/or mitigation. Levels of significance are categorized as follows: LTS = Less Than Significant; S = Significant; and SU = Significant and Unavoidable. A series of mitigation measures is noted where more than one mitigation measure is required to achieve a less-than-significant impact, and alternative mitigation measures are identified when available. For a complete description of potential impacts and recommended mitigation measures, please refer to the specific discussions in Chapter IV.

Table II-2 lists recommended improvements identified throughout the document to address project issues not considered significant environmental impacts under CEQA. The recommendations should be considered by the City during the review of the project's merits, independent of the CEQA impacts and mitigation measures. The failure to adopt such recommendations, however, would not result in any new impacts or the increase in severity of previously identified impacts.

Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
A. LAND USE			
<i>No significant land use impacts would occur.</i>			
B. PUBLIC POLICY			
<i>No significant public policy impacts would occur.</i>			
C. TRANSPORTATION, CIRCULATION AND PARKING			
<i>No significant construction period transportation-related impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i>	<p>COA TRANS-1: Prior to the issuance of each building permit, the project sponsor and construction contractor shall meet with the Transportation Services Division and other appropriate City of Oakland agencies to determine traffic management strategies to reduce, to the maximum extent feasible, traffic congestion and the effects of parking demand by construction workers during construction of this project and other nearby projects that could be simultaneously under construction. The project sponsor shall develop a construction management plan for review and approval by the City Transportation Services Division. The plan shall also be submitted to BART and AC Transit for review and comment. The plan shall include at least the following items and requirements:</p> <ul style="list-style-type: none"> • A set of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak traffic hours, detour signs if required, lane closure procedures, signs, cones for drivers, and designated construction access routes. • Notification procedures for adjacent property owners and public safety personnel regarding when major deliveries, detours, and lane closures will occur. • Location of construction staging areas for materials, equipment, and vehicles (must be located on the project site). • Identification of haul routes for movement of construction vehicles that would minimize impacts on vehicular and pedestrian traffic, circulation and safety; and provision for monitoring surface streets used for haul routes so that any damage and debris attributable to the haul trucks can be identified and corrected by the project applicant. 	LTS	

LTS = Less Than Significant , SU = Significant and Unavoidable, S = Significant

Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
COA TRANS-1 <i>continued</i>		<ul style="list-style-type: none"> • Temporary construction fences to contain debris and material and to secure the site. • Provisions for removal of trash generated by project construction activity. • A process for responding to, and tracking, complaints pertaining to construction activity, including identification of an on-site complaint manager. • Subject to City review and approval, prior to start of construction, a construction worker transportation demand management (TDM) program shall be implemented to encourage construction workers to carpool or use alternative transportation modes in order to reduce the overall number of vehicle trips associated with construction workers. • Identification and maintenance of vehicular, bicycle, pedestrian and transit access to and from the BART Station. <p>It is anticipated that this Construction Traffic Management Plan would be developed in the context of a larger Construction Management Plan, which would address other issues such as hours of construction on-site, limitations on noise and dust emissions, and other applicable items.</p>	
<p><u>TRANS-1</u>: The addition of project traffic would cause a significant impact at the Telegraph Avenue/51st Street intersection (#3) under Cumulative Year 2015 Baseline Plus Project conditions. The project would contribute to LOS E operations during the PM peak hour and increase critical movement average delay by more than 6 seconds.</p>	S	<p><u>TRANS-1</u>: Optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Telegraph Avenue/51st Street intersection and coordinate signal phasing and timing with the adjacent Telegraph Avenue/52nd Street and Claremont Avenue intersection and other intersections in the same coordination group. To implement this measure, the project sponsor shall submit a signal optimization plan to City of Oakland's Transportation Services Division for review and approval. The plan shall consist of signal timing parameters for the signals in the coordination group. The project sponsor shall fund the cost of preparing and implementing the plan.</p>	LTS

LTS = Less Than Significant , SU = Significant and Unavoidable, S = Significant

Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
TRANS-1 <i>continued</i>		As shown in Table IV.C-15, after implementation of this measure, the intersection would continue to operate at LOS E during the PM peak hour. However, the increase in average delay for the critical movements would be reduced to less than the 6-second threshold of significance. No significant effects would result from implementation of this measure.	
TRANS-2: The addition of project traffic would cause a significant impact at the Market Street/MacArthur Boulevard intersection (#16) under Cumulative Year 2015 Baseline Plus Project conditions. The project would degrade intersection operations from LOS D to LOS E during the PM peak hour.	S	<p>TRANS-2: Change the signal cycle length to 90 seconds and optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Market Street/MacArthur Boulevard intersection. To implement this measure, the project sponsor shall submit a signal optimization plan to City of Oakland's Transportation Services Division for review and approval. The plan shall consist of signal timing parameters for the Market Street/MacArthur Boulevard intersection. The project sponsor shall fund the cost of preparing and implementing the plan.</p> <p>As shown in Table IV.C-15, after implementation of this measure, the intersection would operate at LOS C during both AM and PM peak hours. No significant effects would result from implementation of this measure.</p>	LTS
TRANS-3: The addition of project traffic would cause a significant impact at the Telegraph Avenue/52 nd Street and Claremont Avenue intersection (#2) under Cumulative 2030 Baseline Plus Project conditions. The project would contribute to LOS F operations and increase intersection average delay by more than 2 seconds during the AM peak hour; would contribute to LOS E operations and increase critical movement average delay by more than 6 seconds during the PM peak hour.	S	<p>TRANS-3: Implement the following measures:</p> <ul style="list-style-type: none"> • Prohibit left-turns from northbound Telegraph Avenue into westbound 52nd Street during the peak commute times (i.e., 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.). Currently, a small volume of traffic uses this movement (about 10 peak hour vehicles), which can be diverted to 51st Street. Thus, the peak hour prohibition on left-turns would not result in excessive and circuitous diversions. • Change signal cycle length to 120 seconds and optimizing signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Telegraph Avenue/52nd Street and Claremont Avenue intersection; coordinate signal timing and phasing with the adjacent Telegraph Avenue/51st Street intersection and other intersections in the same coordination group. 	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
TRANS-3 <i>continued</i>		<p>To implement these measures, the project sponsor shall submit the following to City of Oakland's Transportation Services Division for review and approval:</p> <ul style="list-style-type: none"> • Signing plans to prohibit left-turns from northbound Telegraph Avenue into westbound 52nd Street. • Signal timing plans for the signals in the coordination group. <p>The project sponsor shall fund the cost of preparing and implementing these plans.</p> <p>As shown in Table IV.C-17, after implementation of this measure, the intersection would continue to operate at LOS F during the AM peak hour. However, the increase in intersection average delay would be reduced to less than the two-second threshold of significance. The intersection would operate at LOS C during the PM peak hour after implementation of this measure. The increase in signal cycle length may result in additional delay for pedestrians and bicycles. However, no significant effects would result from implementation of this measure.</p>	
<p>TRANS-4: The addition of project traffic would cause a significant impact at the Telegraph Avenue/51st Street intersection (#3) under Cumulative Year 2030 Baseline Plus Project conditions. The project would contribute to LOS F operations during both AM and PM peak hours; would increase critical movement average delay by more than 4 seconds during the AM peak hour; and would increase intersection average delay by more than 2 seconds during the PM peak hour.</p>	S	<p>TRANS-4: Implement the following measures:</p> <ul style="list-style-type: none"> • Change signal cycle length to 120 seconds and optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Telegraph Avenue/51st Street intersection and coordinate signal phasing and timing with the adjacent Telegraph Avenue/52nd Street and Claremont Avenue intersection and other intersections in the same coordination group. To implement this measure, the project sponsor shall submit a signal optimization plan to City of Oakland's Transportation Services Division for review and approval. The plan shall consist of signal timing parameters for the signals in the coordination group. The project sponsor shall fund the cost of preparing and implementing the plan. 	SU

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
TRANS-4 <i>continued</i>		<p>As shown in Table IV.C-17, after changing the signal cycle and turns, the intersection would continue to operate at LOS F during the PM peak hour, and the increase in average delay for the critical movements would continue to be more than the 4-second threshold of significance. Thus, this measure is not sufficient to mitigate the impact to a less-than-significant level. In addition, the increase in signal cycle length may result in additional delay for pedestrians and bicycles.</p> <ul style="list-style-type: none"> To help further minimize impacts at this intersection, a Transportation Demand Management (TDM) program shall be implemented at the project site to encourage more residents and employees to shift from driving alone to other modes of travel. Potential TDM measures may include, but are not limited to, transit ticket subsidies, awareness programs, direct transit sales, providing a guaranteed ride home program, and parking management strategies. The effectiveness of the TDM program shall be regularly monitored, and if necessary adjusted to meet its goals. The project applicant shall submit the TDM program to the City for its review and approval. The plan shall also be submitted to BART for review and comment. The project applicant shall also be responsible for funding and implementing the TDM program. <p>The components of the proposed TDM program have not been finalized. Additionally, it is difficult to accurately predict a TDM program's effectiveness and to quantify the effects on reducing project trip generation. To present a conservative analysis, this study assumes that the intersection would continue to operate at LOS F with the implementation of this mitigation measure. Thus, these measures will partially mitigate the impact, but are not sufficient to mitigate the impact to a less-than-significant level.</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
<p>TRANS-5: The addition of project traffic would cause a significant impact at the West Street/40th Street intersection (#8) under Cumulative Year 2030 Baseline Plus Project conditions. The project would degrade intersection operations from LOS D to LOS E in the PM peak hour.</p>	<p>S</p>	<p>TRANS-5: Optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the West Street/40th Street intersection. To implement this measure, the project sponsor shall submit a signal optimization plan to City of Oakland’s Transportation Services Division for review and approval. The plan shall consist of signal timing parameters for the West Street/40th Street intersection. The project sponsor shall fund the cost of preparing and implementing the plan.</p> <p>As shown in Table IV.C-17, after implementation of this measure, the intersection would operate at LOS A during the PM peak hour. No significant effects would result from implementation of this measure.</p>	<p>LTS</p>
<p>TRANS-6: The addition of project traffic would cause a significant impact at the Telegraph Avenue/40th Street intersection (#13) under Cumulative Year 2030 Baseline Plus Project conditions. During the PM peak hour, the project would contribute to LOS F operations and would increase critical movement average delay by more than 4 seconds.</p>	<p>S</p>	<p>TRANS-6: Implement the following measures:</p> <ul style="list-style-type: none"> • Provide protected/permitted left-turn phasing on eastbound and westbound 40th Street approaches. • Change signal cycle length to 105 seconds during the PM peak hour, and optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Telegraph Avenue/40th Street intersection. The change in signal cycle length may also require coordination with other intersections in the same coordination group. <p>To implement these measures, the project sponsor shall submit the following to City of Oakland’s Transportation Services Division for review and approval:</p> <ul style="list-style-type: none"> • Plans, Specifications, and Estimates (PS&E) to modify intersection to provide left-turn phasing on eastbound and westbound 40th Street approaches. • Signal timing plans for the signals in the coordination group. <p>The project sponsor shall fund the cost of preparing and implementing these plans.</p>	<p>LTS</p>

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Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
TRANS-6 <i>continued</i>		As shown in Table IV.C-17, after implementation of these measures, the intersection would operate at LOS D during both AM and PM peak hours. The increase in signal cycle length may result in additional delay for pedestrians and bicycles. However, no significant effects would result from implementation of this measure.	
<p>TRANS-7: The addition of project traffic would cause a significant impact at the Market Street/MacArthur Boulevard intersection (#16) under Cumulative Year 2030 Baseline Plus Project conditions. The project would contribute to LOS F operations, and would increase intersection average delay by more than 2 seconds, during both AM and PM peak hours.</p>	S	<p>TRANS-7: The impact shall be mitigated by the following:</p> <ul style="list-style-type: none"> • Stripe a left-turn lane on northbound Market Street at MacArthur Boulevard. The left-turn lane can be accommodated within the existing right-of-way, but may result in loss of a few on-street parking and relocation of an AC Transit bus stop on northbound Market Street. • Change signal cycle length to 110 seconds during the AM peak hour and 90 seconds during the PM peak hour, and optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Market Street/MacArthur Boulevard intersection. <p>To implement these measures, the project sponsor shall submit the following to City of Oakland’s Transportation Services Division for review and approval:</p> <ul style="list-style-type: none"> • Plans, Specifications, and Estimates (PS&E) to stripe a left-turn lane on northbound Market Street at MacArthur Boulevard. • Signal timing plans for the Market Street/MacArthur Boulevard intersection. <p>The project sponsor shall fund the cost of preparing and implementing these plans.</p> <p>As shown in Table IV.C-17, after implementation of these measures, the intersection would operate at LOS C during both AM and PM peak hours. The increase in signal cycle length may result in additional delay for pedestrians and bicycles. However, no significant effects would result from implementation of this measure.</p>	LTS

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Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
<p>TRANS-8: The addition of project traffic would cause a significant impact at the Telegraph Avenue/MacArthur Boulevard intersection (#20) under Cumulative Year 2030 Baseline Plus Project conditions. The project would degrade intersection operations from LOS D to LOS E in the AM peak hour.</p>	<p>S</p>	<p>TRANS-8: Implement the following measures:</p> <ul style="list-style-type: none"> • Provide protected/permitted left-turn phasing on northbound and southbound Telegraph Avenue approaches. • Change signal cycle length to 120 seconds and optimize signal timing (i.e., adjust the allocation of green time for each intersection approach) at the Telegraph Avenue/MacArthur Boulevard intersection. Signal phasing and timing shall also be coordinated with other intersections in the same coordination group. <p>To implement this measure, the project sponsor shall submit the following to City of Oakland’s Transportation Services Division for review and approval:</p> <ul style="list-style-type: none"> • Plans, Specifications, and Estimates (PS&E) to modify intersection to provide left-turn phasing on northbound and southbound Telegraph Avenue approaches. • Signal timing parameters for the signals in the coordination group. <p>The project sponsor shall fund the cost of preparing and implementing the plan.</p> <p>As shown in Table IV.C-17, after implementation of this measure, the intersection would operate at LOS D during the AM peak hour and LOS E during the PM peak hour. The increase in signal cycle length may result in additional delay for pedestrians and bicycles. No significant effects would result from implementation of this measure.</p>	<p>LTS</p>

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
<p>TRANS-9: The addition of project traffic would cause a significant impact at the Broadway/ MacArthur Boulevard intersection (#22) under Cumulative Year 2030 Baseline Plus Project conditions. The project would contribute to LOS F operations and would increase intersection average delay by more than 2 seconds during the AM peak hour.</p>	<p>S</p>	<p>TRANS-9: Implement the following measures:</p> <ul style="list-style-type: none"> To help further minimize impacts at this intersection, a Transportation Demand Management (TDM) program shall be implemented at the project site to encourage more residents and employees to shift from driving alone to other modes of travel. Potential TDM measures may include, but are not limited to, transit ticket subsidies, awareness programs, direct transit sales, providing a guaranteed ride home program, and parking management strategies. The effectiveness of the TDM program shall be regularly monitored, and if necessary adjusted to meet its goal. The project applicant shall submit the TDM program to the City for its review and approval. The plan shall also be submitted to BART for review and comment. The project applicant shall also be responsible for funding and implementing the TDM program. <p>The components of the proposed TDM program have not been finalized. Additionally, it is difficult to accurately predict a TDM program's effectiveness and to quantify the effects on reducing project trip generation.</p> <p>To present a conservative analysis, this study assumes that the intersection would continue to operate at LOS F with the implementation of this mitigation measure. Thus, these measures will partially mitigate the impact, but are not sufficient to mitigate the impact to a less-than-significant level.</p>	<p>SU</p>

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Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
D. AIR QUALITY			
<p><i>No significant construction-related air quality impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i></p>		<p>COA AIR-1: Dust Control. <i>Prior to issuance of a demolition, grading, or building permit.</i> During construction, the project applicant shall require the construction contractor to implement the following measures required as part of BAAQMD basic and enhanced dust control procedures required for construction sites. These include:</p> <p>BASIC (Applies to ALL construction sites)</p> <ul style="list-style-type: none"> a) Water all active construction areas at least twice daily. Watering should be sufficient to prevent airborne dust from leaving the site. Increased watering frequency may be necessary whenever wind speeds exceed 15 miles per hour. Reclaimed water should be used whenever possible. b) Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least 2 feet of freeboard (i.e., the minimum required space between the top of the load and the top of the trailer). c) Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites. d) Sweep daily (with water sweepers using reclaimed water if possible) all paved access roads, parking areas and staging areas at construction sites. e) Sweep streets (with water sweepers using reclaimed water if possible) at the end of each day if visible soil material is carried onto adjacent paved roads. f) Limit the amount of the disturbed area at any one time, where feasible. g) Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph. 	<p>LTS</p>

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Air Quality <i>continued</i>		h) Pave all roadways, driveways, sidewalks, etc. as soon as feasible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used. i) Replant vegetation in disturbed areas as quickly as feasible. j) Enclose, cover, water twice daily or apply (non-toxic) soil stabilizers to exposed stockpiles (dirt, sand, etc.). k) Limit traffic speeds on unpaved roads to 15 miles per hour. l) Clean off the tires or tracks of all trucks and equipment leaving any unpaved construction areas.	
		ENHANCED (All "Basic" Controls listed above plus the following if the construction site is greater than 4 acres) a) All "Basic" controls listed above, plus: b) Install sandbags or other erosion control measures to prevent silt runoff to public roadways. c) Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for one month or more). d) Designate a person or persons to monitor the dust control program and to order increased watering, as necessary, to prevent transport of dust offsite. Their duties shall include holidays and weekend periods when work may not be in progress. The name and telephone number of such person shall be provided to the BAAQMD prior to the start of construction as well as posted on-site over the duration of construction. e) Install appropriate wind breaks at the construction site to minimize wind blown dust.	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Air Quality <i>continued</i>		<p>COA AIR-2: Construction Emissions. <i>Prior to issuance of a demolition, grading, or building permit.</i> To minimize construction equipment emissions during construction, the project applicant shall require the construction contractor to:</p> <ul style="list-style-type: none"> a) Demonstrate compliance with BAAQMD Regulation 2, Rule 1 (General Requirements) for all portable construction equipment subject to that rule. BAAQMD Regulation 2, Rule 1, provides the issuance of authorities to construct and permits to operate certain types of portable equipment used for construction purposes (e.g., gasoline or diesel-powered engines used in conjunction with power generation, pumps, compressors, and cranes) unless such equipment complies with all applicable requirements of the "CAPCOA" Portable Equipment Registration Rule" or with all applicable requirements of the Statewide Portable Equipment Registration Program. This exemption is provided in BAAQMD Rule 2-1-105. b) Perform low- NOx tune-ups on all diesel-powered construction equipment greater than 50 horsepower (no more than 30 days prior to the start of use of that equipment). Periodic tune-ups (every 90 days) shall be performed for such equipment used continuously during the construction period. 	
E. NOISE AND VIBRATION			
No significant construction-related noise and vibration impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.		<p>COA NOISE-1: Days/Hours of Construction Operation. <i>Ongoing throughout demolition, grading, and/or construction.</i> The project applicant shall require construction contractors to limit standard construction activities as follows:</p> <ul style="list-style-type: none"> a) Construction activities are limited to between 7:00 a.m. and 7:00 p.m. Monday through Friday, except that pile driving and/or other extreme noise generating activities greater than 90 dBA limited to between 8:00 a.m. and 4:00 p.m. Monday through Friday. 	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Noise & Vibration <i>continued</i>		<p>b) Any construction activity proposed to occur outside of the standard hours of 7:00 a.m. to 7:00 p.m. Monday through Friday for special activities (such as concrete pouring which may require more continuous amounts of time) shall be evaluated on a case-by-case basis, with criteria including the proximity of residential uses and a consideration of resident’s preferences for whether the activity is acceptable if the overall duration of construction is shortened and such construction activities shall only be allowed with the prior written authorization of the Building Services Division.</p> <p>c) Construction activity shall not occur on Saturdays, with the following possible exceptions:</p> <ul style="list-style-type: none"> • Prior to the building being enclosed, requests for Saturday construction for special activities (such as concrete pouring which may require more continuous amounts of time), shall be evaluated on a case-by-case basis, with criteria including the proximity of residential uses and a consideration of resident’s preferences for whether the activity is acceptable if the overall duration of construction is shortened. Such construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division. • After the building is enclosed, requests for Saturday construction activities shall only be allowed on Saturdays with the prior written authorization of the Building Services Division, and only then within the interior of the building with the doors and windows closed. <p>d) No extreme noise generating activities (greater than 90 dBA) shall be allowed on Saturdays, with no exceptions.</p> <p>e) No construction activity shall take place on Sundays or Federal holidays.</p> <p>f) Construction activities include but are not limited to: truck idling, moving equipment (including trucks, elevators, etc.) or materials, deliveries, and construction meetings held on-site in a non-enclosed area.</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Noise & Vibration <i>continued</i>		<p>COA NOISE-2: Noise Control. <i>Ongoing throughout demolition, grading, and/or construction.</i> To reduce noise impacts due to construction, the project applicant shall require construction contractors to implement a site-specific noise reduction program, subject to city review and approval, which includes the following measures:</p> <ul style="list-style-type: none"> a) Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically-attenuating shields or shrouds, wherever feasible). b) Except as provided herein, impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered wherever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used if such jackets are commercially available, and this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever such procedures are available and consistent with construction procedures. c) Stationary noise sources shall be located as far from adjacent receptors as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or use other measures as determined by the City to provide equivalent noise reduction d) The noisiest phases of construction shall be limited to less than 10 days at a time. Exceptions may be allowed if the City determines an extension is necessary and all available noise reduction controls are implemented. 	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Noise & Vibration <i>continued</i>		<p>COA NOISE-3: Noise Complaint Procedures. <i>Ongoing throughout demolition, grading, and/or construction.</i> Prior to the issuance of each building permit, along with the submission of construction documents, the project applicant shall submit to the City Building Services Division a list of measures to respond to and track complaints pertaining to construction noise. These measures shall include:</p> <ul style="list-style-type: none"> a) A procedure and phone numbers for notifying the City Building Services Division staff and Oakland Police Department; (during regular construction hours and off-hours); b) A sign posted on-site pertaining with permitted construction days and hours and complaint procedures and who to notify in the event of a problem. The sign shall also include a listing of both the City and construction contractor’s telephone numbers (during regular construction hours and off-hours); c) The designation of an on-site construction complaint and enforcement manager for the project; d) Notification of neighbors and occupants within 300 feet of the project construction area at least 30 days in advance of extreme noise generating activities about the estimated duration of the activity; and e) A preconstruction meeting shall be held with the job inspectors and the general contractor/on-site project manager to confirm that noise measures and practices (including construction hours, neighborhood notification, posted signs, etc.) are completed. 	LTS
		<p>COA NOISE-4: Interior Noise. <i>Prior to issuance of a building permit.</i> If necessary to comply with the interior noise requirements of the City of Oakland’s General Plan Noise Element and achieve an acceptable interior noise level, noise reduction in the form of sound-rated assemblies (i.e., windows, exterior doors, and walls) shall be incorporated into project building design, based upon recommendations of a qualified acoustical engineer. Final recommendations for sound-rated assemblies will depend on the specific building designs and layout of buildings on the site and shall be determined during the design phase; however, the following sound-rated assembly recommendations, based on</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Noise & Vibration <i>continued</i>		<p>the conceptual project layout and design (described in Chapter III, Project Description) should be included in the final study and will be included in the Standard Condition of Approval:</p> <p>An alternate form of ventilation, such as air conditioning systems, shall be included in the design for all units located within 659 feet of the centerline of SR-24, or within 153 feet of the centerline of 40th Street, or within 166 feet of the centerline of MacArthur Boulevard to ensure that windows can remain closed for prolonged periods of time to meet the interior noise standard and Uniform Building Code Requirements.</p> <p>All residential building façades directly exposed to and within 240 feet of the centerline of SR-24 must be constructed to meet the interior DNL 45 dB requirement; this likely could be achieved with an overall STC-30 rating with windows having a minimum STC-34 rating. This could be achieved with a typical 1-inch insulated glazing assembly, possibly with one light being laminated (or other appropriate example assembly). Quality control must be exercised in construction to ensure all air-gaps and penetrations of the building shell are controlled and sealed.</p> <p>COA NOISE-5: Pile Driving and Other Extreme Noise Generators. <i>Ongoing throughout demolition, grading, and/or construction.</i> To further reduce potential pier drilling, pile driving and/or other extreme noise generating construction impacts greater than 90 dBA, a set of site-specific noise attenuation measures shall be completed under the supervision of a qualified acoustical consultant. Prior to commencing construction, a plan for such measures shall be submitted for review and approval by the City to ensure that maximum feasible noise attenuation will be achieved. This plan shall be based on the final design of the project. A third-party peer review, paid for by the project applicant, may be required to assist the City in evaluating the feasibility and effectiveness of the noise reduction plan submitted by the project applicant. The criterion for approving the plan shall be a determination that maximum feasible noise attenuation will be achieved. A special inspection deposit is required to ensure compliance with the noise reduction plan. The amount of the deposit shall be</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Noise & Vibration <i>continued</i>		<p>determined by the Building Official and the deposit shall be submitted by the project applicant concurrent with submittal of the noise reduction plan. The noise reduction plan shall include, but not be limited to, an evaluation of implementing the following measures. These attenuation measures shall include as many of the following control strategies as applicable to the site and construction activity:</p> <ul style="list-style-type: none"> a) Erect temporary plywood noise barriers around the construction site, particularly along on sites adjacent to residential buildings; b) Implement “quiet” pile driving technology (such as pre-drilling of piles, the use of more than one pile driver to shorten the total pile driving duration), where feasible, in consideration of geotechnical and structural requirements and conditions; c) Utilize noise control blankets on the building structure as the building is erected to reduce noise emission from the site; d) Evaluate the feasibility of noise control at the receivers by temporarily improving the noise reduction capability of adjacent buildings by the use of sound blankets for example, and implement such measure if such measures are feasible and would noticeably reduce noise impacts; and e) Monitor the effectiveness of noise attenuation measures by taking noise measurements. 	LTS
		<p>COA NOISE-6: Vibrations Adjacent Historic Structures. <i>Prior to issuance of a demolition, grading or building permit.</i> The project applicant shall retain a structural engineer or other appropriate professional to determine threshold levels of vibration and cracking that could damage buildings adjacent to the project site and design means and methods of construction that shall be utilized to not exceed the thresholds.</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
F. HYDROLOGY AND WATER QUALITY			
<p><i>No significant hydrology and water quality impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i></p>		<p>COA HYDRO-1 (same as COA GEO-1): Erosion and Sedimentation Control Plan. Prior to any grading activities.</p> <p>a) The project applicant shall obtain a grading permit if required by the Oakland Grading Regulations pursuant to Section 15.04.780 of the Oakland Municipal Code. The grading permit application shall include an erosion and sedimentation control plan. The erosion and sedimentation control plan shall include all necessary measures to be taken to prevent excessive stormwater runoff or carrying by stormwater runoff of solid materials on to lands of adjacent property owners, public streets, or to creeks as a result of conditions created by grading operations. The plan shall include, but not be limited to, such measures as short-term erosion control planting, waterproof slope covering, check dams, interceptor ditches, benches, storm drains, dissipation structures, diversion dikes, retarding berms and barriers, devices to trap, store and filter out sediment, and stormwater retention basins. Off-site work by the project applicant may be necessary. The project applicant shall obtain permission or easements necessary for off-site work. There shall be a clear notation that the plan is subject to changes as changing conditions occur. Calculations of anticipated stormwater runoff and sediment volumes shall be included, if required by the Director of Development or designee. The plan shall specify that, after construction is complete, the project applicant shall ensure that the storm drain system shall be inspected and that the project applicant shall clear the system of any debris or sediment.</p> <p><i>Ongoing throughout grading and construction activities.</i></p> <p>b) The project applicant shall implement the approved erosion and sedimentation plan. No grading shall occur during the wet weather season (October 15 through April 15) unless specifically authorized in writing by the Building Services Division.</p>	<p>LTS</p>

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Hydrology & Water Quality <i>continued</i>		<p>COA HYDRO-2: Stormwater Pollution Prevention Plan (SWPPP). <i>Prior to and ongoing throughout demolition, grading, and/or construction activities.</i> The project applicant must obtain coverage under the General Construction Activity Storm Water Permit (General Construction Permit) issued by the State Water Resources Control Board (SWRCB). The project applicant must file a notice of intent (NOI) with the SWRCB. The project applicant will be required to prepare a stormwater pollution prevention plan (SWPPP). At a minimum, the SWPPP shall include a description of construction materials, practices, and equipment storage and maintenance; a list of pollutants likely to contact stormwater; site-specific erosion and sedimentation control practices; a list of provisions to eliminate or reduce discharge of materials to stormwater; Best Management Practices (BMPs), and an inspection and monitoring program. Prior to the issuance of any construction-related permits, the project applicant shall submit a copy of the SWPPP and evidence of approval of the SWPPP by the SWRCB to the Building Services Division. Implementation of the SWPPP shall start with the commencement of construction and continue through the completion of the project. After construction is completed, the project applicant shall submit a notice of termination to the SWRCB.</p>	LTS
		<p>COA HYDRO-3: Post-Construction Stormwater Pollution Management Plan. <i>Prior to issuance of building permit (or other construction-related permit.</i> The applicant shall comply with the requirements of Provision C.3 of the National Pollutant Discharge Elimination System (NPDES) permit issued to the Alameda Countywide Clean Water Program. The applicant shall submit with the application for a building permit (or other construction-related permit) a completed Stormwater Supplemental Form for the Building Services Division. The project drawings submitted for the building permit (or other construction-related permit) shall contain a stormwater pollution management plan, for review and approval by the City, to limit the discharge of pollutants in stormwater after construction of the project to the maximum extent practicable.</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Hydrology & Water Quality <i>continued</i>		<p>a) The post-construction stormwater pollution management plan shall include and identify the following:</p> <ul style="list-style-type: none"> • All proposed impervious surface on the site; • Anticipated directional flows of on-site stormwater runoff; and • Site design measures to reduce the amount of impervious surface area and directly connected impervious surfaces; and • Source control measures to limit the potential for stormwater pollution; and • Stormwater treatment measures to remove pollutants from stormwater runoff. <p>b) The following additional information shall be submitted with the post-construction stormwater pollution management plan:</p> <ul style="list-style-type: none"> • Detailed hydraulic sizing calculations for each stormwater treatment measure proposed; and • Pollutant removal information demonstrating that any proposed manufactured/mechanical (i.e., non-landscape-based) stormwater treatment measure, when not used in combination with a landscape-based treatment measure, is capable of removing the range of pollutants typically removed by landscape-based treatment measures. <p>All proposed stormwater treatment measures shall incorporate appropriate planting materials for stormwater treatment (for landscape-based treatment measures) and shall be designed with considerations for vector/mosquito control. Proposed planting materials for all proposed landscape-based stormwater treatment measures shall be included on the landscape and irrigation plan for the project. The applicant is not required to include on-site stormwater treatment measures in the post-construction stormwater pollution management plan if he or she secures approval from Planning and Zoning of a proposal that demonstrates compliance with the requirements of the City's Alternative Compliance Program.</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Hydrology & Water Quality <i>continued</i>		<i>Prior to final permit inspection.</i> The applicant shall implement the approved stormwater pollution management plan.	
		<p>COA HYDRO-4: Maintenance Agreement for Stormwater Treatment Measures. <i>Prior to final zoning inspection.</i> For projects incorporating stormwater treatment measures, the applicant shall enter into the “Standard City of Oakland Stormwater Treatment Measures Maintenance Agreement,” in accordance with Provision C.3.e of the NPDES permit, which provides, in part, for the following:</p> <ul style="list-style-type: none"> • The applicant accepting responsibility for the adequate installation/ construction, operation, maintenance, inspection, and reporting of any on-site stormwater treatment measures being incorporated into the project until the responsibility is legally transferred to another entity; and • Legal access to the on-site stormwater treatment measures for representatives of the City, the local vector control district, and staff of the Regional Water Quality Control Board, San Francisco Region, for the purpose of verifying the implementation, operation, and maintenance of the on-site stormwater treatment measures and to take corrective action if necessary. The agreement shall be recorded at the County Recorder’s Office at the applicant’s expense. 	LTS
G. GEOLOGY, SOILS AND SEISMICITY			
No significant geology, soils and seismicity impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.		<p>COA GEO-1 (same as COA HYDRO-1): Erosion and Sedimentation Control Plan. <i>Prior to any grading activities.</i></p> <p>a) The project applicant shall obtain a grading permit if required by the Oakland Grading Regulations pursuant to Section 15.04.780 of the Oakland Municipal Code. The grading permit application shall include an erosion and sedimentation control plan. The erosion and sedimentation control plan shall include all necessary measures to be taken to prevent excessive stormwater runoff or carrying by stormwater runoff of solid materials on to lands of adjacent property owners, public streets, or to creeks as a result of conditions created by grading operations. The plan shall include, but not be limited to, such measures as short-term erosion control planting, waterproof</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
<p>Geology, Soils and Seismicity <i>continued</i></p>		<p>slope covering, check dams, interceptor ditches, benches, storm drains, dissipation structures, diversion dikes, retarding berms and barriers, devices to trap, store and filter out sediment, and stormwater retention basins. Off-site work by the project applicant may be necessary. The project applicant shall obtain permission or easements necessary for off-site work. There shall be a clear notation that the plan is subject to changes as changing conditions occur. Calculations of anticipated stormwater runoff and sediment volumes shall be included, if required by the Director of Development or designee. The plan shall specify that, after construction is complete, the project applicant shall ensure that the storm drain system shall be inspected and that the project applicant shall clear the system of any debris or sediment.</p> <p><i>Ongoing throughout grading and construction activities.</i></p> <p>b) The project applicant shall implement the approved erosion and sedimentation plan. No grading shall occur during the wet weather season (October 15 through April 15) unless specifically authorized in writing by the Building Services Division.</p>	
		<p>COA GEO-2: Soils Report. <i>Required as part of the submittal of a Tentative Tract or Tentative Parcel Map.</i> A preliminary soils report for each construction site within the project area shall be required as part of this project. The soils reports shall be based, at least in part, on information obtained from on-site testing. Specifically the minimum contents of the report should include:</p> <p><i>A. Logs of borings and/or profiles of test pits and trenches:</i></p> <p>a) The minimum number of borings acceptable, when not used in combination with test pits or trenches, shall be two (2), when in the opinion of the Soils Engineer such borings shall be sufficient to establish a soils profile suitable for the design of all the footings, foundations, and retaining structures.</p> <p>b) The depth of each boring shall be sufficient to provide adequate design criteria for all proposed structures.</p>	<p>LTS</p>

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Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Geology, Soils and Seismicity <i>continued</i>		<p>c) All boring logs shall be included in the soils report.</p> <p><i>B. Test pits and trenches:</i></p> <p>a) Test pits and trenches shall be of sufficient length and depth to establish a suitable soils profile for the design of all proposed structures.</p> <p>b) Soils profiles of all test pits and trenches shall be included in the soils report.</p> <p><i>C. A plat shall be included which shows the relationship of all the borings, test pits, and trenches to the exterior boundary of the site. The plat shall also show the location of all proposed site improvements. All proposed improvements shall be labeled.</i></p> <p><i>D. Copies of all data generated by the field and/or laboratory testing to determine allowable soil bearing pressures, sheer strength, active and passive pressures, maximum allowable slopes where applicable and any other information which may be required for the proper design of foundations, retaining walls, and other structures to be erected subsequent to or concurrent with work done under the grading permit.</i></p> <p><i>E. Soils Report.</i> A written report shall be submitted which shall but is not limited to the following:</p> <p>a. Site description.</p> <p>b. Local and site geology.</p> <p>c. Review of previous field and laboratory investigations for the site.</p> <p>d. Review of information on or in the vicinity of the site on file at the Information Counter, City of Oakland, Office of Planning and Building.</p> <p>e. Site stability shall be addressed with particular attention to existing conditions and proposed corrective attention to existing conditions and proposed corrective actions at locations where land stability problems exist.</p> <p>f. Conclusions and recommendations for foundations and retaining structures, resistance to lateral loading, slopes, and specifications, for fills, and pavement design as required.</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
<p>Geology, Soils and Seismicity <i>continued</i></p>		<p>g. Conclusions and recommendations for temporary and permanent erosion control and drainage. If not provided in a separate report they shall be appended to the required soils report.</p> <p>h. All other items which a Soils Engineer deems necessary.</p> <p>i. The signature and registration number of the Civil Engineer preparing the report.</p> <p><i>F. The Director of Planning and Building may reject a report that she/he believes is not sufficient. The Director of Planning and Building may refuse to accept a soils report if the certification date of the responsible soils engineer on said document is more than three years old. In this instance , the Director may be require that the old soils report be recertified, that an addendum to the soils report be submitted, or that a new soils report be provided.</i></p>	
		<p>COA GEO-3: Geotechnical Report. <i>Required as part of the submittal of a tentative Tract Map or tentative Parcel Map.</i></p> <p>a) A site-specific, design level, Landslide or Liquefaction geotechnical investigation for each construction site within the project area shall be required as part if this project. Specifically:</p> <p>Each investigation shall include an analysis of expected ground motions at the site from identified faults. The analyses shall be accordance with applicable City ordinances and polices, and consistent with the most recent version of the California Building Code, which requires structural design that can accommodate ground accelerations expected from identified faults.</p> <p>The investigations shall determine final design parameters for the walls, foundations, foundation slabs, surrounding related improvements, and infrastructure (utilities, roadways, parking lots, and sidewalks).</p> <p>The investigations shall be reviewed and approved by a registered geotechnical engineer. All recommendations by the project engineer, geotechnical engineer, will be included in the final design, as approved by the City of Oakland.</p>	<p>LTS</p>

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Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Geology, Soils and Seismicity <i>continued</i>		<p>The geotechnical report shall include a map prepared by a land surveyor or civil engineer that shows all field work and location of the “No Build” zone. The map shall include a statement that the locations and limitations of the geologic features are accurate representations of said features as they exist on the ground, were placed on this map by the surveyor, the civil engineer or under their supervision, and are accurate to the best of their knowledge.</p> <p>Recommendations that are applicable to foundation design, earthwork, and site preparation that were prepared prior to or during the projects design phase, shall be incorporated in the project.</p> <p>A peer review is required for the Geotechnical Report. Personnel reviewing the geologic report shall approve the report, reject it, or withhold approval pending the submission by the applicant or subdivider of further geologic and engineering studies to more adequately define active fault traces.</p> <p>Final seismic considerations for the site shall be submitted to and approved by the City of Oakland Building Services Division prior to commencement of the project.</p> <p>b) Tentative Tract or Parcel Map approvals shall require, but not be limited to approval of the Geotechnical Report.</p>	
H. PUBLIC HEALTH AND HAZARDS			
<p><i>No significant public health and hazards impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i></p>		<p>COA HAZ-1: Hazards Best Management Practices. <i>Prior to issuance of a demolition, grading, or building permit.</i> The project applicant and construction contractor shall ensure that construction best management practices are implemented as part of construction to minimize the potential negative effects to groundwater and soils. These shall include the following:</p> <ul style="list-style-type: none"> a) Follow manufacture’s recommendations on use, storage, and disposal of chemical products used in construction; b) Avoid overtopping construction equipment fuel gas tanks; c) During routine maintenance of construction equipment, properly contain and remove grease and oils; 	LTS

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Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Public Health & Hazards <i>continued</i>		<p>d) Properly dispose of discarded containers of fuels and other chemicals.</p> <p>e) Ensure that construction would not have a significant impact on the environment or pose a substantial health risk to construction workers and the occupants of the proposed development. Soil sampling and chemical analyses of samples shall be performed to determine the extent of potential contamination beneath all UST's, elevator shafts, clarifiers, and subsurface hydraulic lifts when on-site demolition, or construction activities would potentially affect a particular development or building.</p> <p>f) If soil, groundwater or other environmental medium with suspected contamination is encountered unexpectedly during construction activities (e.g., identified by odor or visual staining, or if any underground storage tanks, abandoned drums or other hazardous materials or wastes are encountered), the applicant shall cease work in the vicinity of the suspect material, the area shall be secured as necessary, and the applicant shall take all appropriate measures to protect human health and the environment. Appropriate measures shall include notification of regulatory agency(ies) and implementation of the actions described in Standard Conditions of Approval (see COA HAZ-3 and HAZ-5 below) as necessary, to identify the nature and extent of contamination. Work shall not resume in the area(s) affected until the measures have been implemented under the oversight of the City or regulatory agency, as appropriate.</p>	
		<p>COA HAZ-2: Asbestos Removal in Structures. <i>Prior to issuance of a demolition permit.</i> If asbestos is found to be present in building materials to be removed, demolition and disposal is required to be conducted in accordance with procedures specified by Regulation 11, Rule 2 (Asbestos Demolition, Renovation and Manufacturing) of Bay Area Air Quality Management District (BAAQMD) regulations, as may be amended.</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Public Health & Hazards <i>continued</i>		<p>COA HAZ-3: Phase I and/or Phase II Reports. <i>Prior to issuance of a demolition, grading, or building permit.</i> Prior to issuance of demolition, grading, or building permits the project applicant shall submit to the Fire Prevention Bureau, Hazardous Materials Unit, a Phase I environmental site assessment report, and a Phase II report if warranted by the Phase I report for the project site. The reports shall make recommendations for remedial action, if appropriate, and should be signed by a Registered Environmental Assessor, Professional Geologist, or Professional Engineer.</p>	LTS
		<p>COA HAZ-4: Lead-Based Paint/Coatings, Asbestos, or PCB Occurrence Assessment. <i>Prior to issuance of a demolition, grading, or building permit.</i> The project applicant shall submit a comprehensive assessment report, signed by a qualified environmental professional, documenting the presence or lack thereof of asbestos-containing materials (ACM), lead-based paint, and any other building materials or stored materials classified as hazardous waste by State or federal law.</p>	LTS
		<p>COA HAZ-5: Environmental Site Assessment Reports Remediation. <i>Prior to issuance of a demolition, grading, or building permit.</i> If the environmental site assessment reports recommend remedial action, the project applicant shall:</p> <ul style="list-style-type: none"> a) Consult with the appropriate local, State, and federal environmental regulatory agencies to ensure sufficient minimization of risk to human health and environmental resources, both during and after construction, posed by soil contamination, groundwater contamination, or other surface hazards including, but not limited to, underground storage tanks, fuel distribution lines, waste pits and sumps. b) Obtain and submit written evidence of approval for any remedial action if required by a local, State, or federal environmental regulatory agency. 	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Public Health & Hazards <i>continued</i>		<p>c) Submit a copy of all applicable documentation required by local, State, and federal environmental regulatory agencies, including but not limited to: permit applications, Phase I and II environmental site assessments, human health and ecological risk assessments, remedial action plans, risk management plans, soil management plans, and groundwater management plans.</p> <p>Prior to issuing any permits for construction at the project site, a Construction-Phase Risk Management Plan (RMP) shall be prepared for the project. The RMP shall include any health and safety measures determined necessary in the HHRA to protect the health of construction workers and nearby public during construction activities. These measures may potentially include dust control, air monitoring, and/or the use of personal protective equipment during construction activities. Action levels for contaminants of concern shall be established, with detailed descriptions of corrective actions to be taken in the event that the action levels are reached during monitoring. The RMP shall also include safety and emergency response measures included in the City's Standard Conditions HAZ-1 and HAZ-2. The RMP shall be reviewed and approved by the City of Oakland or designated regulatory oversight agency.</p> <p>d) Implementation of COA HAZ-5 would require a Remediation Action Plan (RAP). Required remedial actions shall include measures to ensure that any potential added health risks to future site users as a result of hazardous materials are reduced to a cumulative human health risk of less than 1×10^{-6} (one in one million) for carcinogens and a cumulative hazard index of 1.0 for non-carcinogens, or other site-specific goals established by regulatory oversight agencies. The potential risks to human health in excess of these goals may be reduced either by remediation of the contaminated soils or groundwater (e.g., excavation).</p>	

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Public Health & Hazards <i>continued</i>		and off-site disposal of soils and treatment of groundwater) and/or implementation of institutional controls and engineering controls (IC/EC). IC/EC may include the use of hardscape (buildings and pavements), importation of clean soil in landscaped areas to eliminate exposure pathways, and deed restrictions. Specific remedies would depend on the findings of the site-specific HHRA and the requirements of the regulatory agencies	
		COA HAZ-6: Lead-Based Paint Remediation. <i>Prior to issuance of a demolition, grading, or building permit.</i> If lead-based paint is present, the project applicant shall submit specifications signed by a certified Lead Supervisor, Project Monitor, or Project Designer for the stabilization and/or removal of the identified lead paint in accordance with all applicable laws and regulations, including but not necessarily limited to: Cal/OSHA's Construction Lead Standard, 8 CCR1532.1 and DHS regulation 17 CCR Sections 35001 through 36100, as may be amended.	LTS
		COA HAZ-7: Asbestos Remediation. <i>Prior to issuance of a demolition, grading, or building permit.</i> If asbestos-containing materials (ACM) are present, the project applicant shall submit specifications signed by a certified asbestos consultant for the removal, encapsulation, or enclosure of the identified ACM in accordance with all applicable laws and regulations, including but not necessarily limited to: California Code of Regulations, Title 8; Business and Professions Code; Division 3; California Health & Safety Code 25915-25919.7; and Bay Area Air Quality Management District, Regulation 11, Rule 2, as may be amended.	LTS
		COA HAZ-8: Other Materials Classified as Hazardous Waste. <i>Prior to issuance of a demolition, grading, or building permit.</i> If other building materials or stored materials classified as hazardous waste by State or federal law is present, the project applicant shall submit written confirmation that all State and federal laws and regulations shall be followed when profiling, handling, treating, transporting and/or disposing of such materials.	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Public Health & Hazards <i>continued</i>		<p>COA HAZ-9: Health and Safety Plan per Assessment. <i>Prior to issuance of a demolition, grading, or building permit.</i> If the required lead-based paint/coatings, asbestos, or PCB assessment finds presence of such materials, the project applicant shall create and implement a health and safety plan to protect workers from risks associated with hazardous materials during demolition, renovation of affected structures, and transport and disposal.</p>	LTS
		<p>COA HAZ-10: Fire Safety Phasing Plan. <i>Prior to issuance of a demolition, grading, or building permit and concurrent with any p-job submittal permit.</i> The project applicant shall submit a separate fire safety phasing plan to the Planning and Zoning Division and Fire Services Division for their review and approval. The fire safety plan shall include all of the fire safety features incorporated into the project and the schedule for implementation of the features. Fire Services Division may require changes to the plan or may reject the plan if it does not adequately address fire hazards associated with the project as a whole or the individual phase.</p>	LTS
		<p>COA HAZ-11: Fire Safety. <i>Prior to and ongoing throughout demolition, grading, and/or construction.</i> The project applicant and construction contractor will ensure that during project construction, all construction vehicles and equipment will be fitted with spark arrestors to minimize accidental ignition of dry construction debris and surrounding dry vegetation.</p>	LTS
I. PUBLIC SERVICES			
<p><i>No significant public services impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i></p>		<p>COA SERV-1: Conformance with other Requirements. <i>Prior to issuance of a demolition, grading, P-job, or other construction related permit.</i> a) The project applicant shall comply with all other applicable federal, state, regional and/or local codes, requirements, regulations, and guidelines, including but not limited to those imposed by the City's Building Services Division, the City's Fire Marshal, and the City's Public Works Agency.</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Public Services <i>continued</i>		b) The applicant shall submit approved building plans for project-specific needs related to fire protection to the Fire Services Division for review and approval, including, but not limited to automatic extinguishing systems, water supply improvements and hydrants, fire department access, and vegetation management for preventing fires and soil erosion.	
		COA SERV-2: Fire Safety Phasing Plan. <i>Prior to issuance of a demolition, grading, and/or construction and concurrent with any p-job submittal permit,</i> the project applicant shall submit a separate fire safety phasing plan to the Planning and Zoning Division and Fire Services Division for their review and approval. The fire safety plan shall include all of the fire safety features incorporated into the project and the schedule for implementation of the features. Fire Services Division may require changes to the plan or may reject the plan if it does not adequately address fire hazards associated with the project as a whole or the individual phase.	LTS
J. UTILITIES AND INFRASTRUCTURE			
<i>No significant utilities and infrastructure impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i>		COA UTIL-1: Waste Reduction and Recycling. The project applicant will submit a Construction & Demolition Waste Reduction and Recycling Plan (WRRP) and an Operational Diversion Plan (ODP) for review and approval by the Public Works Agency. <i>Prior to issuance of demolition, grading, or building permit.</i> Chapter 15.34 of the Oakland Municipal Code outlines requirements for reducing waste and optimizing construction and demolition (C&D) recycling. Affected projects include all new construction, renovations/ alterations/modifications with construction values of \$50,000 or more (except R-3), and all demolition (including soft demo).The WRRP must specify the methods by which the development will divert C&D debris waste generated by the proposed project from landfill disposal in accordance with current City requirements. Current standards, FAQs, and forms are available at www.oaklandpw.com/Page39.aspx or in the Green Building Resource Center. After approval of the plan, the project applicant shall implement the plan.	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Utilities & Infrastructure <i>continued</i>		<p><i>Ongoing.</i> The ODP will identify how the project complies with the Recycling Space Allocation Ordinance, (Chapter 17.118 of the Oakland Municipal Code), including capacity calculations, and specify the methods by which the development will meet the current diversion of solid waste generated by operation of the proposed project from landfill disposal in accordance with current City requirements. The proposed program shall be implemented and maintained for the duration of the proposed activity or facility. Changes to the plan may be re-submitted to the Environmental Services Division of the Public Works Agency for review and approval. Any incentive programs shall remain fully operational as long as residents and businesses exist at the project site.</p>	
		<p>COA UTIL-2: Storm Water and Sewer. <i>Prior to completing the final design for the project's sewer service.</i> Confirmation of the capacity of the City's surrounding stormwater and sanitary sewer system and state of repair shall be completed by a qualified civil engineer with funding from the project applicant. The project applicant shall be responsible for the necessary stormwater and sanitary sewer infrastructure improvements to accommodate the proposed project. In addition, the applicant shall be required to pay additional fees to improve sanitary sewer infrastructure if required by the City. Improvements to the existing sanitary sewer collection system shall specifically include, but are not limited to, mechanisms to control or minimize increases in infiltration/inflow to offset sanitary sewer increases associated with the proposed project. To the maximum extent practicable, the applicant will be required to implement Best Management Practices to reduce the peak stormwater runoff from the project site. Additionally, the project applicant shall be responsible for payment of the required installation or hook-up fees to the affected service providers.</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
K. CULTURAL AND PALEONTOLOGICAL RESOURCES			
<p><i>No significant cultural and paleontological resources impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i></p>		<p>COA CULT-1: Archaeological Resources. <i>Ongoing throughout demolition, grading, and/or construction</i></p> <p>Pursuant to CEQA Guidelines section 15064.5 (f), “provisions for historical or unique archaeological resources accidentally discovered during construction” should be instituted. Therefore, in the event that any prehistoric or historic subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and the project applicant and/or lead agency shall consult with a qualified archaeologist or paleontologist to assess the significance of the find. If any find is determined to be significant, representatives of the project proponent and/or lead agency and the qualified archaeologist would meet to determine the appropriate avoidance measures or other appropriate measure, with the ultimate determination to be made by the City of Oakland. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, and a report prepared by the qualified archaeologist according to current professional standards.</p> <p>In considering any suggested measure proposed by the consulting archaeologist in order to mitigate impacts to historical resources or unique archaeological resources, the project applicant shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, project design, costs, and other considerations. If avoidance is unnecessary or infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the project site while measure for historical resources or unique archaeological resources is carried out.</p>	<p>LTS</p>

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Cultural & Paleontological Resources <i>continued</i>		Should an archaeological artifact or feature be discovered on-site during project construction, all activities within a 50-foot radius of the find would be halted until the findings can be fully investigated by a qualified archaeologist to evaluate the find and assess the significance of the find according to the CEQA definition of a historical or unique archaeological resource. If the deposit is determined to be significant, the project applicant and the qualified archaeologist shall meet to determine the appropriate avoidance measures or other appropriate measure, subject to approval by the City of Oakland, which shall assure implementation of appropriate measure measures recommended by the archaeologist. Should archaeologically-significant materials be recovered, the qualified archaeologist shall recommend appropriate analysis and treatment, and would prepare a report on the findings for submittal to the Northwest Information Center.	
		<p>COA CULT-2: Human Remains. <i>Ongoing throughout demolition, grading, and/or construction</i></p> <p>In the event that human skeletal remains are uncovered at the project site during construction or ground-breaking activities, all work shall immediately halt and the Alameda County Coroner shall be contacted to evaluate the remains, and following the procedures and protocols pursuant to Section 15064.5 (e)(1) of the CEQA Guidelines. If the County Coroner determines that the remains are Native American, the City shall contact the California Native American Heritage Commission (NAHC), pursuant to subdivision (c) of Section 7050.5 of the Health and Safety Code, and all excavation and site preparation activities shall cease within a 50-foot radius of the find until appropriate arrangements are made. If the agencies determine that avoidance is not feasible, then an alternative plan shall be prepared with specific steps and timeframe required to resume construction activities. Monitoring, data recovery, determination of significance and avoidance measures (if applicable) shall be completed expeditiously.</p>	LTS

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Table II-1 Summary of Impacts, Conditions of Approval (COA) and Mitigation Measures (MM)

Impact	Level of Significance Without MM	Standard COA/MM	Level of Significance With MM/COA
Cultural & Paleontological Resources <i>continued</i>		<p>COA CULT-3: Paleontological Resources. <i>Ongoing throughout demolition, grading, and/or construction</i></p> <p>In the event of an unanticipated discovery of a paleontological resource during construction, excavations within 50 feet of the find shall be temporarily halted or diverted until the discovery is examined by a qualified paleontologist (per Society of Vertebrate Paleontology standards (SVP 1995,1996)). The qualified paleontologist shall document the discovery as needed, evaluate the potential resource, and assess the significance of the find. The paleontologist shall notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find. If the City determines that avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the project on the qualities that make the resource important, and such plan shall be implemented. The plan shall be submitted to the City for review and approval.</p>	LTS
L. AESTHETIC RESOURCES			
<p><i>No significant lighting impacts would occur with implementation of the City Standard Conditions of Approval listed in this table.</i></p>		<p>COA AES-1: Lighting Plan. <i>Prior to the issuance of an electrical or building permit</i></p> <p>The proposed lighting fixtures shall be adequately shielded to a point below the light bulb and reflector and that prevent unnecessary glare onto adjacent properties. All lighting shall be architecturally integrated into the site.</p>	LTS

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Table II-2 Recommendations

TRANS-1: In consultation with City of Oakland staff and pending feasibility studies, the following improvements should be considered in and around the project area:

- Removal of the slip right-turns on northbound and southbound Telegraph Avenue at West MacArthur Boulevard.
- Providing street furniture and widening sidewalks where feasible in and around the project site.
- Providing pedestrian scale lighting on MacArthur Boulevard under the freeway overpass.
- Specific intersection improvements, such as advanced stop bars, median refuge islands, reduced corner curb radii, raised crosswalks, curb bulb-outs, audible pedestrian signals, and pedestrian and bicycle signal detection.

TRANS-2: Project applicant should pay to monitor traffic volumes and speeds on the following roadways before and after the completion of the proposed project:

- 37th Street between West MacArthur Boulevard and Telegraph Avenue;
- 38th Street between Telegraph Avenue and Webster Street; and
- Clarke Street and Ruby Street between 38th Street and 40th Street.

In consultation with local residents, and in accordance with all legal requirements, appropriate traffic calming measures, such as speed humps, or roadway closures, should be considered if and when excessive traffic volumes or speeding are observed. These potential improvements should be funded by the project applicant.

NOISE-1: All exterior active use areas, including playgrounds, patios, and decks, shall either be shielded by buildings to block any direct line of sight to 40th Street, MacArthur Boulevard, or SR-24; or be located a minimum of 87 feet from the centerline of 40th Street, a minimum of 94 feet from the centerline of MacArthur Boulevard, and a minimum of 372 feet from the centerline of SR-24.