Initial Study – Community Plan Evaluation

Case No.: 2016-005406ENV
Project Address: 42 Otis Street
Zoning: NCT-3 (Moderate Scale Neighborhood Commercial Transit) Zoning District
50-X Height & Bulk District
Block/Lot: 3505/020
Lot Size: 4,083.55 square feet
Plan Area: Market and Octavia Neighborhood Area Plan
Project Sponsor: Jonathan Pearlman, Elevation Architects, 415-537-1125
Staff Contact: Josh Pollak, josh.pollak@sfgov.org, 415-575-8766

PROJECT DESCRIPTION

The project site is located on the north side of Otis Street, on the block surrounded by Brady Street, Market Street, and 12th Street in the South of Market neighborhood in the Market & Octavia Neighborhood plan area. The project site contains a two-story industrial building on an approximately 4,100-square-foot lot, currently used as commercial space for a pest management business. The proposed project would demolish the existing building and construct a new 15,805-square-foot, five-story, 55-foot-tall, mixed-used building.

The proposed building would have 24 single-room occupancy (SRO) residential units on the upper floors, and 1,900 square feet of ground-floor commercial space fronting Otis Street. A second floor rear deck would provide 820 square feet of open space for project residents, and a fifth floor roof deck would provide 970 square feet of open space. Approximately 500 square feet of solar panels would be installed on the roof, covering over 15 percent of the roof area.

In accordance with San Francisco’s Inclusionary Housing Program, 3 of the 24 units would be below market rate (BMR) units. No off-street parking would be provided as part of the project, but 24 Class I bicycle parking spaces would be provided for residential use, and two Class II bicycle parking spaces would be provided for commercial use. The Class I bicycle parking would be located on the ground floor of the new building. The proposed project would remove an existing curb cut on Otis Street, which currently provides access to the existing building’s ground-level garage. The proposed building would be supported by a mat slab foundation. The proposed project would not involve any excavation.

Figure 1 on page 2 shows the project location, and figures 2 through 7 on pages 3 through 8 show project plans and an elevation drawing.

The proposed 42 Otis project would require building permits from the Department of Building Inspection for demolition of the existing building and for the proposed new construction on the project site.
Figure 1. Location Map
Figure 2. Existing Site Plan
Figure 3. Proposed Site Plan
Figure 4. First Floor Plan
Figure 5. Second Floor Plan (Typical)
Figure 6. Roof Plan
Figure 7. Front Elevation
EVALUATION OF ENVIRONMENTAL EFFECTS

This initial study evaluates whether the environmental impacts of the proposed project are addressed in the programmatic environmental impact report for the Market and Octavia Neighborhood Plan (Market and Octavia PEIR). The initial study considers whether the proposed project would result in significant impacts that: (1) are peculiar to the project or project site; (2) were not identified as significant project-level, cumulative, or off-site effects in the PEIR; or (3) are previously identified significant effects, which as a result of substantial new information that was not known at the time that the Market and Octavia PEIR was certified, are determined to have a more severe adverse impact than discussed in the PEIR. Such impacts, if any, will be evaluated in a project-specific, focused mitigated negative declaration or environmental impact report. If no such impacts are identified, no additional environmental review shall be required for the project beyond that provided in the Market and Octavia PEIR and this project-specific initial study in accordance with CEQA section 21083.3 and CEQA Guidelines section 15183.

Mitigation measures identified in the PEIR are discussed under each topic area, and measures that are applicable to the proposed project are provided under the Mitigation Measures section at the end of this checklist.

The Market and Octavia PEIR identified significant impacts related to shadow, wind, archeology, transportation, air quality, hazardous materials, and geology. Mitigation measures were identified for these impacts and reduced all of these impacts to less-than-significant levels with the exception of those related to shadow (impacts on two open spaces: the War Memorial Open Space and United Nations Plaza) and transportation (project- and program-level as well as cumulative traffic impacts at nine intersections; project-level and cumulative transit impacts on the 21 Hayes Muni line).

The proposed project would include construction of a five-story, 55-foot-tall mixed-use building with 24 SRO residential units and ground floor retail. As discussed below in this initial study, the proposed project would not result in new, significant environmental effects, or effects of greater severity than were already analyzed and disclosed in the Market and Octavia PEIR.

CHANGES IN THE REGULATORY ENVIRONMENT

Since the certification of the Market and Octavia PEIR in 2007, several new policies, regulations, statutes, and funding measures have been adopted, passed, or are underway that affect the physical environment and/or environmental review methodology for projects in the Market and Octavia neighborhood plan areas. As discussed in each topic area referenced below, these policies, regulations, statutes, and funding measures have implemented or will implement mitigation measures or further reduce less-than-significant impacts identified in the PEIR. These include:

- State legislation amending CEQA to eliminate consideration of aesthetics and parking impacts for infill projects in transit priority areas, effective January 2014.
- State legislation amending CEQA and San Francisco Planning Commission resolution replacing level of service (LOS) analysis of automobile delay with vehicle miles traveled (VMT) analysis, effective March 2016 (see “CEQA Section 21099” heading below).

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- San Francisco Bicycle Plan update adoption in June 2009, Better Streets Plan adoption in 2010, Transit Effectiveness Project (aka “Muni Forward”) adoption in March 2014, Vision Zero adoption by various City agencies in 2014, Proposition A and B passage in November 2014, and the Transportation Sustainability Program (see initial study Transportation section).

- San Francisco ordinance establishing Noise Regulations Related to Residential Uses near Places of Entertainment effective June 2015 (see initial study Noise section).

- San Francisco ordinances establishing Construction Dust Control, effective July 2008, and Enhanced Ventilation Required for Urban Infill Sensitive Use Developments, amended December 2014 (see initial study Air Quality section).

- San Francisco Clean and Safe Parks Bond passage in November 2012 and San Francisco Recreation and Open Space Element of the General Plan adoption in April 2014 (see initial study Recreation section).

- Urban Water Management Plan adoption in 2011 and Sewer System Improvement Program process (see initial study Utilities and Service Systems section).

- Article 22A of the Health Code amendments effective August 2013 (see initial study Hazardous Materials section).

Aesthetics and Parking
In accordance with CEQA Section 21099 – Modernization of Transportation Analysis for Transit Oriented Projects – aesthetics and parking shall not be considered in determining if a project has the potential to result in significant environmental effects, provided the project meets all of the following three criteria:

a) The project is in a transit priority area;

b) The project is on an infill site; and

c) The project is residential, mixed-use residential, or an employment center.

The proposed project meets each of the above three criteria and thus, this checklist does not consider aesthetics or parking in determining the significance of project impacts under CEQA.² Project elevations are included in the project description.

Automobile Delay and Vehicle Miles Traveled
In addition, CEQA Section 21099(b)(1) requires that the State Office of Planning and Research (OPR) develop revisions to the CEQA Guidelines establishing criteria for determining the significance of transportation impacts of projects that “promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses.” CEQA Section 21099(b)(2) states that upon certification of the revised guidelines for determining transportation impacts pursuant to Section 21099(b)(1), automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion shall not be considered a significant impact on the environment under CEQA.

² San Francisco Planning Department. Eligibility Checklist: CEQA Section 21099 – Modernization of Transportation Analysis for 42 Otis Street, December 22, 2017. This document (and all other documents cited in this report, unless otherwise noted), is available for review at the San Francisco Planning Department, 1650 Mission Street, Suite 400 as part of Case File No. 2016-005406ENV.
In January 2016, OPR published for public review and comment a _Revised Proposal on Updates to the CEQA Guidelines on Evaluating Transportation Impacts in CEQA_ recommending that transportation impacts for projects be measured using a vehicle miles traveled (VMT) metric. On March 3, 2016, in anticipation of the future certification of the revised CEQA Guidelines, the San Francisco Planning Commission adopted OPR’s recommendation to use the VMT metric instead of automobile delay to evaluate the transportation impacts of projects (Resolution 19579). (Note: the VMT metric does not apply to the analysis of project impacts on non-automobile modes of travel such as transit, walking, and bicycling.) Therefore, impacts and mitigation measures from the Market and Octavia PEIR associated with automobile delay are not discussed in this checklist, including PEIR Mitigation Measures D1 Traffic Mitigation Measure for Hayes and Gough Streets Intersection (LOS C to LOS F PM peak hour), D2 Traffic Mitigation Measure for Hayes and Franklin Streets Intersection (LOS D to LOS F PM peak hour), D3 Traffic Mitigation Measure for Laguna/Market/Hermann/Guerrero Streets Intersection (LOS D to LOS E PM peak hour), D4 Traffic Mitigation Measure for Market/Sanchez/Fifteenth Streets Intersection (LOS E to LOS E with increased delay PM peak hour), D5 Traffic Mitigation Measure for Market/Church/Fourteenth Streets Intersection (LOS E to LOS E with increased delay PM peak hour), D6 Traffic Mitigation Measure for Mission Street/Otis Street/South Van Ness Avenue Intersection (LOS F to LOS F with increased delay PM peak hour), and D7 Traffic Mitigation Measure for Hayes Street/Van Ness Avenue Intersection (LOS F to LOS F with increased delay PM peak hour). Instead, a VMT analysis is provided in the Transportation section.

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**Topics:**

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<tr>
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1. **LAND USE AND LAND USE PLANNING—Would the project:**

   a) Physically divide an established community? ☐ ☐ ☐ ☒

   b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect? ☒ ☒ ☒ ☒

The Market and Octavia PEIR determined that implementation of the neighborhood plan would not result significant impacts on land use and land use planning, and no mitigation measures were identified. The proposed project would consist of a five-story, 55-foot-tall mixed use building with 24 SRO residential units, and 1,900 square feet of ground-level commercial space. The proposed project is within the scope of development projected under the Market and Octavia Neighborhood Plan.

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3 This document is available online at: [https://www.opr.ca.gov/s_ab743.php](https://www.opr.ca.gov/s_ab743.php).
The Citywide Planning and Current Planning divisions of the planning department have determined that the proposed project is permitted in the NCT-3 (Moderate Scale Neighborhood Commercial Transit) Use District and is consistent with the height, bulk, development density and land uses as envisioned in the plan.\(^4\)\(^5\)

Because the proposed project is consistent with the development density established in the Market and Octavia Neighborhood Plan, implementation of the proposed project would not result in significant impacts that were not identified in the Market and Octavia PEIR related to land use and land use planning, and no mitigation measures are necessary.

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<tr>
<td>2. POPULATION AND HOUSING— Would the project:</td>
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<td>a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?</td>
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<td>b) Displace substantial numbers of existing housing units or create demand for additional housing, necessitating the construction of replacement housing?</td>
<td>☐</td>
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<tr>
<td>c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?</td>
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One goal of the Market and Octavia neighborhood plan is to implement citywide policies to increase the supply of high-density housing in neighborhoods having sufficient transit facilities, neighborhood-oriented uses, and infill development sites. The Market and Octavia PEIR analyzed a projected increase of 7,620 residents in the plan area by the year 2025 and determined that this anticipated growth would not result in significant adverse physical effects on the environment. No mitigation measures were identified in the PEIR.

Pursuant to CEQA Guidelines 15131 and 15064(e), economic and social effects such as gentrification and displacement are only considered under CEQA where these effects would cause substantial adverse physical impacts on the environment. Only where economic or social effects have resulted in adverse physical changes in the environment, such as “blight” or “urban decay” have courts upheld


environmental analysis that consider such effects. But without such a connection to an adverse physical change, consideration of social or economic impacts “shall not be considered a significant effect” per CEQA Guidelines 15382. While the Market and Octavia PEIR disclosed that adoption of the plan could contribute to some displacement of existing businesses or residences as specific sites are developed due to market pressure for higher density residential development or to accommodate planned transportation and public open space, it did not determine that these potential socio-economic effects would result in significant adverse physical impacts on the environment.

The proposed project would construct 24 SRO units, 1,900 square feet of ground-level commercial space, and would contain no office space resulting in an increase of about 24 residents, as well as employees occupying the ground floor commercial space. These direct effects of the proposed project on population and housing are within the scope of the population and housing growth anticipated under the Market and Octavia neighborhood plan and would not result in new or substantially more severe significant impacts on the physical environment beyond those identified in the Market and Octavia PEIR. The project’s contribution to indirect effects on the physical environment attributable to population growth are evaluated in this initial study under land use, transportation and circulation, noise, air quality, greenhouse gas emissions, recreation, utilities and service systems, and public services.

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<td>3. CULTURAL AND PALEONTOLOGICAL RESOURCES—Would the project:</td>
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<tr>
<td>a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5, including those resources listed in Article 10 or Article 11 of the San Francisco Planning Code?</td>
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<tr>
<td>b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?</td>
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<td>c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?</td>
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<td>d) Disturb any human remains, including those interred outside of formal cemeteries?</td>
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Historic Architectural Resources

Pursuant to CEQA Guidelines Sections 15064.5(a)(1) and 15064.5(a)(2), historical resources are buildings or structures that are listed, or are eligible for listing, in the California Register of Historical Resources or are identified in a local register of historical resources, such as Articles 10 and 11 of the San Francisco Planning Code. The Market and Octavia PEIR noted that although development would be allowed in the plan area, the implementation of urban design guidelines and other rules, such as evaluation under CEQA, would reduce the overall impact on historic architectural resources to a less-than-significant level. No mitigation measures were identified.
The existing building on the project site was previously evaluated in the Market and Octavia Historical Resources Survey. The building was constructed in 1906, was occupied by the Star Sheet Metal and Heating Company in 1953, and was used as an industrial building. The façade of the building has been substantially altered since original construction. The survey did not find the existing building to be an individual historic resource, or a contributor to a historic district. The survey found the existing building ineligible for national, state or local listing, and therefore is not a historic resource.

For these reasons, the proposed project would not result in significant impacts on historic architectural resources that were not identified in the Market and Octavia PEIR. No historic resource mitigation measures would apply to the proposed project.

**Archeological Resources**

The Market and Octavia PEIR determined that implementation of the area plan could result in significant impacts on archeological resources and identified four mitigation measures that would reduce these potential impacts to a less than significant level. Market and Octavia PEIR Mitigation Measure C1: Soil-Disturbing Activities in Archeologically Documented Properties, applies to properties for which a final archeological research design and treatment plan is on file at the Northwest Information Center and the Planning Department. Mitigation Measure C2: General Soil-Disturbing Activities, applies to properties for which no archeological assessment report has been prepared or for which the archeological documentation is incomplete or inadequate to serve as an evaluation of potential effects on archeological resources under CEQA. Mitigation measure C2 requires that a Preliminary Archeological Sensitivity Study be prepared by a qualified consultant. Mitigation Measure C3: Soil-Disturbing Activities in Public Street and Open Space Improvements, applies to improvements to public streets and open spaces if those improvements disturb soils below a depth of four feet bgs, and requires an Archeological Monitoring Program. Mitigation Measure C4: Soil-Disturbing Activities in the Mission Dolores Archeological District, applies to properties in the Mission Dolores Archeological District. It requires that a specific archeological testing program be conducted by a qualified archeological consultant with expertise in California prehistoric and urban historical archeology, as well as an archeological monitoring program and archeological data recovery program if appropriate.

The PEIR anticipated that development at the project site would have the potential to disturb archeological deposits, and Market and Octavia PEIR Mitigation Measure C2 would apply to the proposed project. Market and Octavia PEIR Mitigation Measure C2 states that any project resulting in soils disturbance beyond a depth of four feet and located within properties within the Plan Area for which no archeological assessment report has been prepared shall be required to conduct a preliminary archeology sensitivity study (PASS) prepared by a qualified archeological consultant having expertise in California prehistoric and urban historical archeology. Based on the study, a determination shall be made if additional measures are needed to reduce potential effects of a project on archeological resources to a less-than-significant level.

The Planning Department’s archeologist conducted a preliminary archeological review (PAR) of the project site in conformance with the study requirements of Mitigation Measure C2 and determined that the Planning Department’s second standard archeological mitigation measure (Archeological Monitoring
Program) would apply to the proposed project. The PAR and its requirements of the Archeological Monitoring Program (AMP) are consistent with Mitigation Measure C2 from the Market and Octavia PEIR.

Through implementation of the AMP, an archeological consultant would determine which project construction activities may disturb any CEQA-significant archeological resources present on the project site where ground-disturbing activities would take place. If an intact archeological deposit is encountered, all soils disturbing activities in the vicinity of the deposit shall cease until the deposit is evaluated. If the ERO in consultation with the archeological consultant determines that a significant archeological resource is present and that the resource could be adversely affected by the proposed project, either the project shall be re-designed so as to avoid any adverse effect on the significant archeological resource or an archeological data recovery program shall be implemented.

In compliance with Market and Octavia PEIR Mitigation Measure C2, the project is required to implement Project Mitigation Measure 1, which includes implementation of the procedures set forth in the Archeological Monitoring Program, and would ensure that the proposed project would not cause a substantial adverse change in the significance of an archeological resource and would not disturb any human remains, including those interred outside of formal cemeteries. Project Mitigation Measure 1 would reduce the potential effect of the project’s construction on CEQA-significant archeological resources to a less-than-significant level.

For the above reasons, the proposed project would not result in significant or substantially greater impacts on archeological resources than those that were identified in the Market and Octavia PEIR.

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<td>4. TRANSPORTATION AND CIRCULATION—Would the project:</td>
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<td>a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?</td>
<td>☒</td>
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<td>b) Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?</td>
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7 The full text of this mitigation measure is located in the Mitigation Measures section below...
The project site is not located within an airport land use plan area or in the vicinity of a private airstrip. Therefore, initial study checklist topic 4c is not applicable to the proposed project.

The Market and Octavia PEIR anticipated that growth resulting from the zoning changes would not result in significant impacts related to pedestrians, bicyclists, loading, emergency access, or construction. The PEIR states that in general, the analyses of pedestrian, bicycle, loading, emergency access, and construction transportation impacts are specific to individual development projects, and that project-specific analyses would need to be conducted for future development projects under the Market and Octavia Neighborhood Plan.

Accordingly, the planning department conducted project-level analysis of the pedestrian, bicycle, loading, and construction transportation impacts of the proposed project. Based on this project-level review, the department determined that the proposed project would not have significant impacts that are peculiar to the project or the project site.

The Market and Octavia PEIR anticipated that growth resulting from future projects within the Plan area could result in a significant impact on the 21-Hayes Muni bus route during the weekday p.m. hour, and identified one transit-specific transportation mitigation measure, which is described further below in the Transit sub-section. Even with mitigation, however, it was anticipated that the significant adverse cumulative impacts on transit lines could not be reduced to a less than significant level. Thus, the impact was found to be significant and unavoidable.

As discussed above under “Automobile Delay and Vehicle Miles Traveled”, in response to state legislation that called for removing automobile delay from CEQA analysis, the Planning Commission adopted resolution 19579 replacing automobile delay with a vehicle miles traveled (VMT) metric for analyzing transportation impacts of a project. Therefore, impacts and mitigation measures from the Market and Octavia PEIR associated with automobile delay are not discussed in this initial study.

The Market and Octavia PEIR did not evaluate VMT. The VMT analysis presented below evaluates the project’s transportation effects using the VMT metric.

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6 San Francisco Planning Department. Transportation Calculations for 42 Otis Street, San Francisco, California, December 22, 2017.
Vehicle Miles Traveled (VMT) Analysis

Many factors affect travel behavior. These factors include density, diversity of land uses, design of the transportation network, access to regional destinations, distance to high-quality transit, development scale, demographics, and transportation demand management. Typically, low-density development at great distance from other land uses, located in areas with poor access to non-private vehicular modes of travel, generate more automobile travel compared to development located in urban areas, where a higher density, mix of land uses, and travel options other than private vehicles are available.

Given these travel behavior factors, San Francisco has a lower VMT ratio than the nine-county San Francisco Bay Area region. In addition, some areas of the City have lower VMT ratios than other areas of the City. These areas of the City can be expressed geographically through transportation analysis zones. Transportation analysis zones are used in transportation planning models for transportation analysis and other planning purposes. The zones vary in size from single city blocks in the downtown core, multiple blocks in outer neighborhoods, to even larger zones in historically industrial areas like the Hunters Point Shipyard.

The San Francisco County Transportation Authority uses the San Francisco Chained Activity Model Process (SF-CHAMP) to estimate VMT by private automobiles and taxis for different land use types. Travel behavior in SF-CHAMP is calibrated based on observed behavior from the California Household Travel Survey 2010-2012, Census data regarding automobile ownership rates and county-to-county worker flows, and observed vehicle counts and transit boardings. SF-CHAMP uses a synthetic population, which is a set of individual actors that represents the Bay Area’s actual population, who make simulated travel decisions for a complete day. The transportation authority uses tour-based analysis for office and residential uses, which examines the entire chain of trips over the course of a day, not just trips to and from the project. For retail uses, the transportation authority uses trip-based analysis, which counts VMT from individual trips to and from the project (as opposed to entire chain of trips). A trip-based approach, as opposed to a tour-based approach, is necessary for retail projects because a tour is likely to consist of trips stopping in multiple locations, and the summarizing of tour VMT to each location would over-estimate VMT. 9,10

For residential development, the existing regional average daily VMT per capita is 17.2.11 For retail development, regional average daily retail VMT per employee is 14.9.12 Average daily VMT for all three

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9 To state another way: a tour-based assessment of VMT at a retail site would consider the VMT for all trips in the tour, for any tour with a stop at the retail site. If a single tour stops at two retail locations, for example, a coffee shop on the way to work and a restaurant on the way back home, then both retail locations would be allotted the total tour VMT. A trip-based approach allows us to apportion all retail-related VMT to retail sites without double-counting.


11 Includes the VMT generated by the households in the development and averaged across the household population to determine VMT per capita.

12 Retail travel is not explicitly captured in SF-CHAMP, rather, there is a generic “Other” purpose which includes retail shopping, medical appointments, visiting friends or family, and all other non-work, non-school tours. The retail efficiency metric captures all of the “Other” purpose travel generated by Bay Area households. The denominator of employment (including retail; cultural, institutional, and educational; and medical employment; school enrollment, and number of households) represents the size, or attraction, of the zone for this type of “Other” purpose travel.
land uses is projected to decrease in future 2040 cumulative conditions. Refer to Table 1: Average Daily Vehicle Miles Traveled, which includes the transportation analysis zone in which the project site is located, 578.

### Table 1: Average Daily Vehicle Miles Traveled

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<th>Land Use</th>
<th>Existing</th>
<th>Cumulative 2040</th>
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<tr>
<td></td>
<td>Bay Area</td>
<td>Bay Area</td>
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<tr>
<td></td>
<td>Regional</td>
<td>Regional</td>
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<tr>
<td></td>
<td>Average</td>
<td>Average</td>
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<tr>
<td></td>
<td>minus 15%</td>
<td>minus 15%</td>
</tr>
<tr>
<td>Households (Residential)</td>
<td>17.2</td>
<td>14.6</td>
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<tr>
<td></td>
<td>3.7</td>
<td>13.7</td>
</tr>
<tr>
<td>Employment (Retail)</td>
<td>14.9</td>
<td>12.6</td>
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<td>8.9</td>
<td>12.4</td>
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A project would have a significant effect on the environment if it would cause substantial additional VMT. The State Office of Planning and Research’s (OPR) Revised Proposal on Updates to the CEQA Guidelines on Evaluating Transportation Impacts in CEQA (“proposed transportation impact guidelines”) recommends screening criteria to identify types, characteristics, or locations of projects that would not result in significant impacts to VMT. If a project meets one of the three screening criteria provided (map-based screening, small projects, and proximity to transit stations), then it is presumed that VMT impacts would be less than significant for the project and a detailed VMT analysis is not required. Map-based screening is used to determine if a project site is located within a transportation analysis zone that exhibits low levels of VMT; small projects are projects that would generate fewer than 100 vehicle trips per day; and the proximity to transit stations criterion includes projects that are within a half mile of an existing major transit stop, have a floor area ratio of greater than or equal to 0.75, vehicle parking that is less than or equal to that required or allowed by the planning code without conditional use authorization, and are consistent with the applicable sustainable communities strategy.

As Table 1 shown the project site meets the map-based screening criterion; it is located in a TAZ that exhibits low levels of VMT. Specifically, the existing and future (2040) residential VMT levels for TAZ 578, at 3.7 and 3.1, respectively, are more than 70 percent below the corresponding existing and future (2040) thresholds (or 15 percent below Bay Area regional average VMT). In addition, the existing and future (2040) retail VMT thresholds for TAZ 578, at 8.9 and 9.0, respectively are more than 27 percent below the corresponding existing and future (2040) thresholds (or 15 percent below Bay Area regional average VMT). The proposed project also meet the proximity to transit stations screening criterion, which further indicates that it would not generate substantial additional VMT. Therefore, the proposed project would not cause substantial additional VMT and impacts would be less than significant.

### Trip Generation

The proposed project would demolish an existing two-story industrial building, and construct a new 15,805-square-foot, five story, 55-foot-tall mixed-use building with 24 SRO units and 1,900 square feet of

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ground-floor commercial space. No off-street vehicle parking is proposed; however, 24 Class I bicycle parking spaces would be provided for residential use, and two Class II bicycle parking spaces would be provided for commercial use.

Localized trip generation of the proposed project was calculated using a trip-based analysis and information in the 2002 Transportation Impacts Analysis Guidelines for Environmental Review (SF Guidelines) developed by the San Francisco Planning Department. The proposed project would generate an estimated 456 person trips (inbound and outbound) on a weekday daily basis, consisting of 252 person trips by auto, 90 transit trips, 111 walk trips and 12 trips by other modes. During the p.m. peak hour, the proposed project would generate an estimated 57 person trips, consisting of 28 person trips by auto, 13 transit trips, 14 walk trips and 2 trips by other modes.

Transit

The project site is located within a quarter mile of several local transit lines including Muni bus lines 14, 14R, 47, 49, 6, 7, 7R, 7X, 9, and 9R and Muni Metro lines serving Van Ness station. The proposed project would be expected to generate 90 daily transit trips, including 13 during the p.m. peak hour. Given the wide availability of nearby transit, the addition of 13 p.m. peak hour transit trips would be accommodated by existing capacity. As such, the proposed project would not result in unacceptable levels of transit service or cause a substantial increase in delays or operating costs such that significant adverse impacts in transit service could result.

The Market and Octavia PEIR identified significant and unavoidable cumulative impacts relating to transit delays to the 21-Hayes Muni route. This degradation of transit service would occur as a result of changes to the configuration of Hayes Street, which were designed to enhance local vehicle circulation. The 21-Hayes route does not run near the project site, and as stated above, the project site is well served by other transit lines. Therefore, the proposed project would not contribute considerably to this significant cumulative transit impact.

For the above reasons, the proposed project would not result in significant impacts that were not identified in the Market and Octavia PEIR related to transportation and circulation and would not contribute considerably to cumulative transportation and circulation impacts that were identified in the Market and Octavia PEIR.

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<tr>
<td>5. NOISE—Would the project:</td>
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<tr>
<td>a) Result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</td>
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14 San Francisco Planning Department, Transportation Calculations for 42 Otis Street, San Francisco, California, December 22, 2017.
The project site is not located within an airport land use plan area, within two miles of a public airport, or in the vicinity of a private airstrip. Therefore, topic 12e and f from the CEQA Guidelines, Appendix G is not applicable.

The Market and Octavia PEIR noted that the background noise levels in San Francisco are elevated primarily due to traffic noise and that some streets, such as Market Street, have higher background noise levels. The PEIR determined that implementation of the plan would not result in significant noise impacts during construction activities. The PEIR also determined that incremental increases in traffic-related noise attributable to implementation of the plan would be less than significant. No mitigation measures related to noise were identified in the Market and Octavia PEIR.

**Construction Noise**

The PEIR identified an increase in the ambient noise levels during construction, dependent on the types of construction activities and construction schedules, and noise from increased traffic associated with construction truck trips along access routes to development sites. The PEIR determined that compliance with the San Francisco Noise Ordinance (Noise Ordinance), codified as Article 29 of the San Francisco Police Code, would reduce construction impacts to less-than-significant levels.

All construction activities for the proposed project (approximately 5 months) would be subject to the San Francisco Noise Ordinance. Construction noise is regulated by the noise ordinance, which requires construction work to be conducted in the following manner: (1) noise levels of construction equipment, other than impact tools, must not exceed 80 dBA at a distance of 100 feet from the source (the equipment generating the noise); (2) impact tools must have intake and exhaust mufflers that are approved by the Director of Public Works (PW) or the Director of the Department of Building Inspection (DBI) to best accomplish maximum noise reduction; and (3) if the noise from the construction work would exceed the ambient noise levels at the site property line by 5 dBA, the work must not be conducted between 8:00
p.m. and 7:00 a.m. unless the Director of PW authorizes a special permit for conducting the work during that period.

DBI is responsible for enforcing the noise ordinance for private construction projects during normal business hours (8:00 a.m. to 5:00 p.m.). The police department is responsible for enforcing the noise ordinance during all other hours. Nonetheless, during the construction period for the proposed project of approximately 6 months, occupants of the nearby properties could be disturbed by construction noise. Times may occur when noise could interfere with indoor activities in nearby residences and other businesses near the project site. The increase in noise in the project area during project construction would not be considered a significant impact of the proposed project, because the construction noise would be temporary, intermittent, and restricted in occurrence and level, as the contractor would be required to comply with the noise ordinance, which would reduce construction noise impacts to a less-than-significant level.

**Operational Noise**

The PEIR noted that plan-related land use changes would have the potential to create secondary noise impacts associated with projects’ fixed-location heating, ventilating, or air-conditioning equipment and other localized noise-generating activities. The PEIR determined that existing ambient noise levels in the plan area would generally mask noise from new on-site equipment. Therefore, the increase in noise levels from operation of equipment would be less than significant.

The proposed project would be subject to the following interior noise standards, which are described for informational purposes. The California Building Standards Code (Title 24) establishes uniform noise insulation standards. The Title 24 acoustical requirement for residential structures is incorporated into Section 1207 of the San Francisco Building Code and requires these structures be designed to prevent the intrusion of exterior noise so that the noise level with windows closed, attributable to exterior sources, shall not exceed 45 dBA in any habitable room. Title 24 allows the project sponsor to choose between a prescriptive or performance-based acoustical requirement for non-residential uses. Both compliance methods require wall, floor/ceiling, and window assemblies to meet certain sound transmission class or outdoor-indoor sound transmission class ratings to ensure that adequate interior noise standards are achieved. In compliance with Title 24, DBI would review the final building plans to ensure that the building wall, floor/ceiling, and window assemblies meet Title 24 acoustical requirements. If determined necessary by DBI, a detailed acoustical analysis of the exterior wall and window assemblies may be required.

Additionally, the proposed project would be subject to the Noise Regulations Relating to Residential Uses near Places of Entertainment (Ordinance 70-15, effective June 19, 2015). The intent of these regulations is to address noise conflicts between residential uses in noise critical areas, such as in proximity to highways and other high-volume roadways, railroads, rapid transit lines, airports, nighttime entertainment venues or industrial areas. In accordance with the adopted regulations, residential structures to be located where the day-night average sound level (Ldn) or community noise equivalent level (CNEL) exceeds 60 decibels shall require an acoustical analysis with the application of a building permit showing that the proposed design would limit exterior noise to 45 decibels in any habitable room.

For the above reasons, the proposed project would not result in significant noise impacts that were not identified in the Market and Octavia PEIR.
### 6. AIR QUALITY—Would the project:

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<tbody>
<tr>
<td>a) Conflict with or obstruct implementation of the applicable air quality plan?</td>
<td>☐</td>
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<tr>
<td>b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</td>
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<tr>
<td>c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal, state, or regional ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?</td>
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<tr>
<td>d) Expose sensitive receptors to substantial pollutant concentrations?</td>
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<td>e) Create objectionable odors affecting a substantial number of people?</td>
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The Market and Octavia PEIR identified potentially significant air quality impacts resulting from temporary exposure to elevated levels of fugitive dust and diesel particulate matter (DPM) during construction of development projects under the area plan. The PEIR identified two mitigation measures that would reduce these air quality impacts to less-than-significant levels. Market and Octavia PEIR Mitigation Measures E1 and E2 address air quality impacts during construction. All other air quality impacts were found to be less than significant.

#### Construction Dust Control

Market and Octavia PEIR Mitigation Measure E1: Construction Mitigation Measure for Particulate Emissions, requires individual projects involving construction activities to include dust control measures and to maintain and operate construction equipment so as to minimize exhaust emissions of particulates and other pollutants. The San Francisco Board of Supervisors subsequently approved a series of amendments to the San Francisco Building and Health Codes, generally referred to as the Construction Dust Control Ordinance (Ordinance 176-08, effective July 30, 2008). The intent of the Construction Dust Control Ordinance is to reduce the quantity of fugitive dust generated during site preparation, demolition, and construction work in order to protect the health of the general public and of on-site workers, minimize public nuisance complaints, and to avoid orders to stop work by DBI. Project-related construction activities would result in construction dust, primarily from ground-disturbing activities. In compliance with the Construction Dust Control Ordinance, the project sponsor and contractor responsible for construction activities at the project site would be required to control construction dust on the site through a combination of watering disturbed areas, covering stockpiled materials, street and sidewalk sweeping and other measures.

The regulations and procedures set forth by the San Francisco Dust Control Ordinance would ensure that construction dust impacts would not be significant. These requirements supersede the dust control provisions of PEIR Mitigation Measure E1. Therefore, PEIR Mitigation Measure E1: Construction
Mitigation Measure for Particulate Emissions related to dust control is no longer necessary to reduce construction-related dust impacts of the proposed project. Therefore, the proposed project would not result in significant impacts related to construction dust that were not identified in the Market and Octavia PEIR and no mitigation is required.

Criteria Air Pollutants

In accordance with the state and federal Clean Air Acts, air pollutant standards are identified for the following six criteria air pollutants: ozone, carbon monoxide, particulate matter, nitrogen dioxide, sulfur dioxide, and lead. These air pollutants are termed criteria air pollutants because they are regulated by developing specific public health- and welfare-based criteria as the basis for setting permissible levels. The BAAQMD’s CEQA Air Quality Guidelines (Air Quality Guidelines) provide screening criteria for determining whether a project’s criteria air pollutant emissions would violate an air quality standard, contribute to an existing or projected air quality violation, or result in a cumulatively considerable net increase in criteria air pollutants. Pursuant to the Air Quality Guidelines, projects that meet the screening criteria do not have a significant impact related to criteria air pollutants. Criteria air pollutant emissions during construction and operation of the proposed project would meet the Air Quality Guidelines screening criteria of 240 dwelling units for construction and 494 dwelling units for operation, as the proposed project would construct 24 dwelling units. Therefore, the project would not have a significant impact related to criteria air pollutants, and a detailed air quality assessment is not required.

Health Risk

Since certification of the PEIR, San Francisco Board of Supervisors approved amendments to the San Francisco Building and Health Codes, referred to as the Enhanced Ventilation Required for Urban Infill Sensitive Use Developments or Health Code, Article 38 (Ordinance 224-14, amended December 8, 2014)(Article 38). The Air Pollutant Exposure Zone as defined in Article 38 are areas that, based on modeling of all known air pollutant sources, exceed health protective standards for cumulative PM2.5 concentration, cumulative excess cancer risk, and incorporates health vulnerability factors and proximity to freeways. For sensitive use projects within the Air Pollutant Exposure Zone, such as the proposed project, the ordinance requires that the project sponsor submit an Enhanced Ventilation Proposal for approval by the Department of Public Health (DPH) that achieves protection from PM2.5 (fine particulate matter) equivalent to that associated with a Minimum Efficiency Reporting Value 13 filtration. DBI will not issue a building permit without written notification from the Director of Public Health that the applicant has an approved Enhanced Ventilation Proposal. In compliance Article 38, the project sponsor has submitted an initial application to DPH.

Construction

The project site is located within an identified Air Pollutant Exposure Zone; therefore, the ambient health risk to sensitive receptors from air pollutants is considered substantial. The proposed project would require heavy-duty off-road diesel vehicles and equipment during three months of the anticipated five-month construction period. Thus, Project Mitigation Measure 2 (Construction Air Quality) has been identified for the project to implement the Market and Octavia PEIR Mitigation Measure E2 related to

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15 Bay Area Air Quality Management District, CEQA Air Quality Guidelines, May 2017. See pp. 3-2 to 3-3.
construction emissions exhaust by requiring construction equipment engines meeting higher emissions standards (lower emissions). Project Mitigation Measure 2 would reduce DPM exhaust from construction equipment by 89 to 94 percent compared to uncontrolled construction equipment. Therefore, impacts related to construction health risks would be less than significant through implementation of Project Mitigation Measure 2. The full text of Project Mitigation Measure 2 is provided in the Mitigation Measures Section below.

Siting New Sources

The proposed project would not include any sources that would emit DPM or other TACs. Therefore, impacts related to siting new sources of pollutants would be less than significant.

Conclusion

As discussed above, the proposed project has enrolled in the Article 38 program. In addition, the proposed project would be subject to the provisions of the construction dust control ordinance. The project will be required to implement Project Mitigation Measure 2, which would reduce construction-related air quality impacts to a less-than-significant level. For the above reasons, the proposed project would not result in significant air quality impacts beyond those identified in the Market and Octavia PEIR.

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<td>7. GREENHOUSE GAS EMISSIONS—Would the project:</td>
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<td>a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</td>
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<td>b) Conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?</td>
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The State CEQA Guidelines were amended in 2010 to require an analysis of a project’s greenhouse gas (GHG) emissions on the environment. The Market and Octavia PEIR was certified in 2007, before the

17 PM emissions benefits are estimated by comparing off-road PM emission standards for Tier 2 with Tier 1 and 0. Tier 0 off-road engines do not have PM emission standards, but the United States Environmental Protection Agency’s Exhaust and Crankcase Emissions Factors for Nonroad Engine Modeling – Compression Ignition has estimated Tier 0 engines between 50 hp and 100 hp to have a PM emission factor of 0.72 g/bhp-hr and greater than 100 hp to have a PM emission factor of 0.40 g/bhp-hr. Therefore, requiring off-road equipment to have at least a Tier 2 engine would result in between a 25 percent and 63 percent reduction in PM emissions, as compared to off-road equipment with Tier 0 or Tier 1 engines. The 25 percent reduction comes from comparing the PM emission standards for off-road engines between 25 hp and 50 hp for Tier 2 (0.45 g/bhp-hr) and Tier 1 (0.60 g/bhp-hr). The 63 percent reduction comes from comparing the PM emission standards for off-road engines above 175 hp for Tier 2 (0.15 g/bhp-hr) and Tier 0 (0.40 g/bhp-hr). In addition to the Tier 2 requirement, ARB Level 3 VDECSs are required and would reduce PM by an additional 85 percent. Therefore, the mitigation measure would result in between an 89 percent (0.0675 g/bhp-hr) and 94 percent (0.0225 g/bhp-hr) reduction in PM emissions, as compared to equipment with Tier 1 (0.60 g/bhp-hr) or Tier 0 engines (0.40 g/bhp-hr).
amendment of the State CEQA Guidelines and, therefore, the PEIR did not analyze the effects of GHG emissions.

The BAAQMD has prepared guidelines and methodologies for analyzing the impact of GHG emissions. These guidelines are consistent with CEQA Guidelines Sections 15064.4 and 15183.5 which address the analysis and determination of significant impacts from a proposed project’s GHG emissions and allow for projects that are consistent with an adopted GHG reduction strategy to conclude that the project’s GHG impact is less than significant. The following analysis is based on BAAQMD and CEQA guidelines for analyzing GHG emissions. As discussed below, the proposed project would not result in any new significant impacts related to GHG emissions.

San Francisco’s Strategies to Address Greenhouse Gas Emissions18 presents a comprehensive assessment of policies, programs, and ordinances that collectively represent San Francisco’s GHG reduction strategy in compliance with the BAAQMD and CEQA guidelines. These GHG reduction actions have resulted in a 28 percent reduction in GHG emissions in 2015 compared to 1990 levels,19 exceeding the year 2020 reduction goals outlined in the BAAQMD’s 2010 Clean Air Plan,20 Executive Order S-3-0521, and Assembly Bill 32 (also known as the Global Warming Solutions Act).22,23 In addition, San Francisco’s GHG reduction goals are consistent with, or more aggressive than, the long-term goals established under Executive Orders S-3-05, B-30-15,24 and Senate Bill (SB) 32.27,28 Therefore, projects that are consistent with San Francisco’s GHG Reduction Strategy would not result in GHG emissions that would have a significant effect on the environment and would not conflict with state, regional, and local GHG reduction plans and regulations.

23 Executive Order S-3-05, Assembly Bill 32, and the Bay Area 2010 Clean Air Plan set a target of reducing GHG emissions to below 1990 levels by year 2020.
24 Executive Order S-3-05 sets forth a series of target dates by which statewide emissions of GHGs need to be progressively reduced, as follows: by 2010, reduce GHG emissions to 2000 levels (approximately 457 million MTCO2E); by 2020, reduce emissions to 1990 levels (approximately 427 million MTCO2E); and by 2050 reduce emissions to 80 percent below 1990 levels (approximately 85 million MTCO2E).
26 San Francisco’s GHG reduction goals are codified in Section 902 of the Environment Code and include: (i) by 2008, determine City GHG emissions for year 1990; (ii) by 2017, reduce GHG emissions by 25 percent below 1990 levels; (iii) by 2025, reduce GHG emissions by 40 percent below 1990 levels; and by 2050, reduce GHG emissions by 80 percent below 1990 levels.
27 Senate Bill 32 amends California Health and Safety Code Division 25.5 (also known as the California Global Warming Solutions Act of 2006) by adding Section 38566, which directs that statewide greenhouse gas emissions to be reduced by 40 percent below 1990 levels by 2030.
28 Senate Bill 32 was paired with Assembly Bill 197, which would modify the structure of the State Air Resources Board; institute requirements for the disclosure of greenhouse gas emissions criteria pollutants, and toxic air contaminants; and establish requirements for the review and adoption of rules, regulations, and measures for the reduction of greenhouse gas emissions.
The proposed project would increase the intensity of use of the site by adding 24 residential units and 1,900 square feet of ground-level commercial use. Therefore, the proposed project would contribute to annual long-term increases in GHGs as a result of increased vehicle trips (mobile sources) and residential and commercial operations that result in an increase in energy use, water use, wastewater treatment, and solid waste disposal. Construction activities would also result in temporary increases in GHG emissions.

The proposed project would be subject to regulations adopted to reduce GHG emissions as identified in the GHG reduction strategy. As discussed below, compliance with the applicable regulations would reduce the project’s GHG emissions related to transportation, energy use, waste disposal, wood burning, and use of refrigerants.

Compliance with the City’s transportation management programs, Transportation Sustainability Fee, bicycle parking requirements, low-emission car parking requirements, and car sharing requirements would reduce the proposed project’s transportation-related emissions. These regulations reduce GHG emissions from single-occupancy vehicles by promoting the use of alternative transportation modes with zero or lower GHG emissions on a per capita basis.

The proposed project would be required to comply with the energy efficiency requirements of the City’s Green Building Code, Water Conservation and Irrigation ordinances, and Energy Conservation Ordinance, which would promote energy and water efficiency, thereby reducing the proposed project’s energy-related GHG emissions. Additionally, the project would be required to meet the renewable energy criteria of the Green Building Code, further reducing the project’s energy-related GHG emissions.

The proposed project includes on-site generation of renewable energy through 500 square feet of solar panels installed on the roof area.

The proposed project’s waste-related emissions would be reduced through compliance with the City’s Recycling and Composting Ordinance, Construction and Demolition Debris Recovery Ordinance, and Green Building Code requirements. These regulations reduce the amount of materials sent to a landfill, reducing GHGs emitted by landfill operations. These regulations also promote reuse of materials, conserving their embodied energy and reducing the energy required to produce new materials.

Compliance with the City’s Street Tree Planting requirements would serve to increase carbon sequestration. Other regulations, including those limiting refrigerant emissions and the Wood Burning Fireplace Ordinance would reduce emissions of GHGs and black carbon, respectively. Regulations requiring low-emitting finishes would reduce volatile organic compounds (VOCs). Thus, the proposed project was determined to be consistent with San Francisco’s GHG reduction strategy.

Therefore, the proposed project’s GHG emissions would not conflict with state, regional, and local GHG reduction plans and regulations, and the proposed project’s contribution to GHG emissions would not be cumulatively considerable or generate GHG emissions, either directly or indirectly, that would have a significant impact on the environment. As such, the proposed project would result in a less-than-

29 Compliance with water conservation measures reduce the energy (and GHG emissions) required to convey, pump and treat water required for the project.
30 Embodied energy is the total energy required for the extraction, processing, manufacture and delivery of building materials to the building site.
31 While not a GHG, VOCs are precursor pollutants that form ground level ozone. Increased ground level ozone is an anticipated effect of future global warming that would result in added health effects locally. Reducing VOC emissions would reduce the anticipated local effects of global warming.
significant impact with respect to GHG emissions. For these reasons, the proposed project would not result in significant GHG emissions that were not identified in the Market and Octavia PEIR and no mitigation measures are necessary.

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<td>8. WIND AND SHADOW—Would the project:</td>
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<tr>
<td>a) Alter wind in a manner that substantially affects public areas?</td>
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</tr>
<tr>
<td>b) Create new shadow in a manner that substantially affects outdoor recreation facilities or other public areas?</td>
<td>☐</td>
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Wind

The Market and Octavia PEIR determined that new construction developed under the Area Plan, including new buildings and additions to existing buildings, could result in significant impacts related to ground-level winds. PEIR Mitigation Measure B1: Buildings in Excess of 85 Feet in Height, and PEIR Mitigation Measure B2: All New Construction, identified in the PEIR, require individual project sponsors to minimize the wind effects of new buildings developed under the Area Plan through site and building design measures. The Market and Octavia PEIR concluded that implementation of PEIR Mitigation Measures B1 and B2, in combination with existing planning code requirements, would reduce both project-level and cumulative wind impacts to less-than-significant levels.

A proposed project’s wind impacts are directly related to its height, orientation, design, location, and surrounding development context. Based on wind analyses for other development projects in San Francisco, a building that does not exceed a height of 85 feet generally has little potential to cause substantial changes to ground-level wind conditions. At a height of 55 feet (approximately 65 feet with mechanical penthouse) with five stories, the proposed project would be three stories taller than the adjacent two story building at 50 Otis Street, would be roughly similar in height to the five story building at 85 Brady Street, immediately north of the project site, and roughly similar to the structures ranging from 10-feet to 45-feet in height east of the project site. In addition, the proposed project’s Otis Street façade would allow overhead winds to continue flowing eastward instead of intercepting them and driving them down toward the sidewalk. Given its height, orientation, design, location, and surrounding development context, the proposed 55-foot-tall building has little potential to cause substantial changes to ground-level wind conditions adjacent to and near the project site.

Because of the height of the proposed building at 55 feet (approximately 65 feet with mechanical penthouse), PEIR Mitigation Measure B1 would not apply to the proposed project, because the proposed project does not exceed a height of 85 feet. PEIR Mitigation Measure B2, which applies to all new construction, would apply to the proposed project. However, since the proposed project does not have the potential to result in significant wind impacts, a project-level wind analysis is not required, and the project sponsor has fulfilled the requirements of PEIR Mitigation Measure B2.
For the above reasons, the proposed project is not anticipated to cause significant impacts related to wind that were not identified in the Market and Octavia PEIR.

**Shadow**

Planning code section 295 generally prohibits new structures above 40 feet in height that would cast additional shadows on open space that is under the jurisdiction of the San Francisco Recreation and Park Commission between one hour after sunrise and one hour before sunset, at any time of the year, unless that shadow would not result in a significant adverse effect on the use of the open space. Public open spaces that are not under the jurisdiction of the Recreation and Park Commission as well as private open spaces are not subject to planning code section 295.

The Market and Octavia PEIR analyzed shadow impacts on nearby existing and proposed open spaces under the jurisdiction of the San Francisco Recreation and Park Commission as well as those that are not (the War Memorial Open Space and United Nations Plaza). The Market and Octavia PEIR determined that implementation of the area plan would not result in a significant shadow impact on Section 295 open spaces at the program or project level but identified potentially significant shadow impacts on non-Section 295 open spaces. Mitigation Measure A1: Parks and Open Space Not Subject to Section 295, would reduce but may not eliminate significant shadow impacts on the War Memorial open space and United Nations Plaza. The PEIR determined that shadow impacts on non-Section 295 open spaces could be significant and unavoidable.

The proposed project would construct a 55-foot-tall building; therefore, the Planning Department prepared a preliminary shadow fan analysis to determine whether the project would have the potential to cast new shadow on nearby parks. The preliminary shadow fan analysis prepared by the Planning Department indicated that the proposed project would not cast shadows on Recreation and Parks Department properties or public open spaces. Therefore, Market and Octavia PEIR Mitigation Measure A1 would not be applicable to the proposed project.

The proposed project would also shade portions of nearby streets and sidewalks and private property at times within the project vicinity. Shadows upon streets and sidewalks would not exceed levels commonly expected in urban areas and would be considered a less-than-significant effect under CEQA. Although occupants of nearby property may regard the increase in shadow as undesirable, the limited increase in shading of private properties as a result of the proposed project would not be considered a significant impact under CEQA.

For the above reasons, the proposed project would not result in significant project-specific or cumulative shadow impacts that were not identified in the Market and Octavia PEIR.

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9. **RECREATION—Would the project:**

- **a)** Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated?
- **b)** Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?
- **c)** Physically degrade existing recreational resources?

The Market and Octavia PEIR concluded that implementation of the area plan would not result in substantial or accelerated deterioration of existing recreational resources or require the construction or expansion of recreational facilities that may have an adverse effect on the environment. No mitigation measures related to recreational resources were identified in the Market and Octavia PEIR.

Since certification of the PEIR, the voters of San Francisco passed the 2012 San Francisco Clean and Safe Neighborhood Parks Bond, providing the Recreation and Park Department an additional $195 million to continue capital projects for the renovation and repair of parks, recreation, and open space assets. An update of the Recreation and Open Space Element (ROSE) of the *General Plan* was adopted in April 2014. The amended ROSE provides a 20-year vision for open spaces in the City. It includes information and policies about accessing, acquiring, funding, and managing open spaces in San Francisco. The amended ROSE identifies locations where proposed open space connections should be built, specifically streets appropriate for potential “living alleys.” In addition, the amended ROSE identifies the role of both the *Better Streets Plan* and the Green Connections Network in open space and recreation. Green Connections are streets and paths that connect people to parks, open spaces, and the waterfront while enhancing the ecology of the street environment. Two routes identified within the Green Connections Network cross the Market and Octavia Plan Area: Marina Green to Dolores Park (Route 15) and Bay to Beach (Route 4).

Furthermore, the planning code requires a specified amount of new usable open space (either private or common) for each new residential unit. Some developments are also required to provide privately owned, publicly accessible open spaces. The planning code open space requirements would help offset some of the additional open space needs generated by increased residential population to the project area. The proposed project would include a second floor rear deck that would provide 820 square feet of open space, while a fifth floor roof deck would provide 970 square feet of open space, which would satisfy some of the demand for open space created by the proposed project.

The proposed project would be consistent with the development density projected under the Market and Octavia Neighborhood Plan and would not result in any significant project-specific or cumulative impacts on recreation beyond those analyzed in the Market and Octavia PEIR.
10. UTILITIES AND SERVICE SYSTEMS—Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?
☐ ☐ ☐ ☒

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?
☐ ☐ ☐ ☒

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?
☐ ☐ ☐ ☒

d) Have sufficient water supply available to serve the project from existing entitlements and resources, or require new or expanded water supply resources or entitlements?
☐ ☐ ☐ ☒

e) Result in a determination by the wastewater treatment provider that would serve the project that it has inadequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments?
☐ ☐ ☐ ☒

f) Be served by a landfill with sufficient permitted capacity to accommodate the project’s solid waste disposal needs?
☐ ☐ ☐ ☒

g) Comply with federal, state, and local statutes and regulations related to solid waste?
☐ ☐ ☐ ☒

The Market and Octavia PEIR determined that the anticipated increase in population under the area plan would not result in a significant impact to the provision of water, wastewater collection and treatment, and solid waste collection and disposal. No mitigation measures were identified in the PEIR.

Since certification of the PEIR, the San Francisco Public Utilities Commission (SFPUC) adopted the 2010 Urban Water Management Plan (UWMP) in June 2011. The UWMP update includes city-wide demand projections to the year 2035, compares available water supplies to meet demand and presents water demand management measures to reduce long-term water demand. Additionally, the UWMP update includes a discussion of the conservation requirement set forth in Senate Bill 7 passed in November 2009 mandating a statewide 20% reduction in per capita water use by 2020. The UWMP includes a quantification of the SFPUC’s water use reduction targets and plan for meeting these objectives. The UWMP projects sufficient water supply in normal years and a supply shortfall during prolonged droughts. Plans are in place to institute varying degrees of water conservation and rationing as needed in response to severe droughts.

In addition, the SFPUC is in the process of implementing the Sewer System Improvement Program, which is a 20-year, multi-billion dollar citywide upgrade to the City’s sewer and stormwater infrastructure to ensure a reliable and seismically safe system. The program includes planned improvements that will serve development in the Market and Octavia Neighborhood Plan area including
at the Southeast Treatment Plant, the Central Bayside System, and green infrastructure projects such as the Wiggle Neighborhood Green Corridor.\(^3\)

As the proposed project is consistent with the development density established under the Market and Octavia Neighborhood Plan, there would be no additional impacts on utilities and service systems beyond those analyzed in the Market and Octavia PEIR.

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<tr>
<td>11. PUBLIC SERVICES—Would the project:</td>
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<td>a) Result in substantial adverse physical impacts associated with the provision of, or the need for, new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any public services such as fire protection, police protection, schools, parks, or other services?</td>
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The Market and Octavia PEIR determined that the anticipated increase in population under the area plan would not result in substantial adverse physical impacts associated with the provision of or need for new or physically altered public services, including fire protection, police protection, and public schools. No mitigation measures were identified in the PEIR.

As the proposed project is consistent with the development density established under the Market and Octavia Neighborhood Plan, the project would not result in new or substantially more severe impacts on the physical environment associated with the provision of public services beyond those analyzed in the Market and Octavia PEIR.

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<td>12. BIOLOGICAL RESOURCES—Would the project:</td>
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<tr>
<td>a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</td>
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### Topics:

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<tr>
<td>b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</td>
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<tr>
<td>c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</td>
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<tr>
<td>d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?</td>
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<tr>
<td>e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?</td>
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<td>f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?</td>
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As discussed in the Market and Octavia PEIR, the Market and Octavia plan area is in a developed urban environment that does not provide native natural habitat for any rare or endangered plant or animal species. There are no riparian corridors, estuaries, marshes, or wetlands in the plan area that could be affected by the development anticipated under the plan. In addition, development envisioned under the Market and Octavia Neighborhood Plan would not substantially interfere with the movement of any resident or migratory wildlife species. For these reasons, the PEIR concluded that implementation of the Area Plan would not result in significant impacts on biological resources, and no mitigation measures were identified.

The project site is located within the Market and Octavia plan area and therefore, does not support habitat for any candidate, sensitive or special status species, and would not substantially interfere with the movement of wildlife species. As such, implementation of the proposed project would not result in significant impacts to biological resources not identified in the Market and Octavia PEIR.

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### 13. GEOLOGY AND SOILS—Would the project:

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<td>a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:</td>
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<tr>
<td>i)</td>
<td>Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)</td>
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<td>ii)</td>
<td>Strong seismic ground shaking?</td>
<td>☐</td>
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<td>iii)</td>
<td>Seismic-related ground failure, including liquefaction?</td>
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<td>iv)</td>
<td>Landslides?</td>
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<td>b)</td>
<td>Result in substantial soil erosion or the loss of topsoil?</td>
<td>☐</td>
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<td>c)</td>
<td>Be located on geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?</td>
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<td>d)</td>
<td>Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code, creating substantial risks to life or property?</td>
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<td>e)</td>
<td>Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?</td>
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<td>f)</td>
<td>Change substantially the topography or any unique geologic or physical features of the site?</td>
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The Market and Octavia PEIR did not identify any significant operational impacts related to geology, soils, and seismicity. Although the PEIR concluded that implementation of the area plan would indirectly increase the population that would be exposed to geologic hazards such as earthquakes, seismic ground shaking, liquefaction, and landslides, the PEIR noted that new development is generally safer than comparable older development due to improvements in building codes and construction techniques. Compliance with applicable codes and recommendations made in project-specific geotechnical analyses would not eliminate earthquake risks, but would reduce them to acceptable levels given the seismically active characteristics of the Bay Area.

The Market and Octavia PEIR identified a potential significant impact related to soil erosion during construction. The PEIR found that implementation of Mitigation Measure G1: Construction-Related Soils Mitigation Measure, which consists of construction best management practices (BMPs) to prevent erosion and discharge of soil sediments into the storm drain system, would reduce any potential impacts to less-than-significant levels.
Subsequent to the certification of the Market and Octavia PEIR, the Board of Supervisors amended the San Francisco Public Works Code adding section 146, Construction Site Runoff Control, which requires all construction sites, regardless of size to implement BMPs to prevent construction site runoff discharges into the City’s combined stormwater/sewer system. Construction sites that disturb 5,000 square feet or more of ground surface are required to apply for a Construction Site Runoff Control Permit from the SFPUC and submit an erosion and sediment control plan that includes BMPs to prevent stormwater runoff and soil erosion during construction.

Because the proposed project would involve land-disturbing activities, the construction contractor is required to implement BMPs in compliance with these regulations. PEIR Mitigation Measure G1, Construction-Related Soils Mitigation Measure, is no longer necessary to reduce any potential impacts of surface runoff and sedimentation. Compliance with these requirements would ensure that the proposed project would not have a significant effect related to soil erosion that was not identified in the Market and Octavia PEIR.

A geotechnical investigation was prepared for the proposed project. The geotechnical investigation included site reconnaissance, sampling and logging one test boring to a depth of 6 feet below ground surface, laboratory testing conducted on selected samples of the earth materials recovered from the boring, a review of published geotechnical and geologic data pertinent to the project area, and engineering analysis. The test boring at the site encountered medium dense to loose, poorly graded sand with gravel from the ground surface to the maximum depth explored of 6 feet. The boring terminated at 6 feet due to caving sandy soils. The report found that the site would be suitable for the proposed improvements, and that the proposed project may be supported by a mat slab foundation.

The project is required to conform to the San Francisco Building Code, which ensures the safety of all new construction in the City. DBI will review the project-specific geotechnical report during its review of the building permit for the project. In addition, DBI may require additional site specific soils report(s) through the building permit application process, as needed. The DBI requirement for a geotechnical report and review of the building permit application pursuant to DBI’s implementation of the Building Code would ensure that the proposed project would have no significant impacts related to soils, seismic or other geological hazards.

In light of the above, the proposed project would not result in a significant effect related to seismic and geologic hazards. Therefore, the proposed project would not result in significant impacts related to geology and soils that were not identified in the Market and Octavia PEIR, and no mitigation measures are necessary.

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36 Added by Ordinance No. 260-13, File No. 103814, Effective December 14, 2013.
37 H. Allen Gruen, Geotechnical Investigation, Planned Development at 42 Otis Street, San Francisco, California, October 1, 2017.
14. HYDROLOGY AND WATER QUALITY—Would the project:

a) Violate any water quality standards or waste discharge requirements?  ☐ ☐ ☐ ☒

b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?  ☐ ☐ ☐ ☒

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site?  ☐ ☐ ☐ ☒

d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?  ☐ ☐ ☐ ☒

e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?  ☐ ☐ ☐ ☒

f) Otherwise substantially degrade water quality?  ☐ ☐ ☐ ☒

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other authoritative flood hazard delineation map?  ☐ ☐ ☐ ☒

h) Place within a 100-year flood hazard area structures that would impede or redirect flood flows?  ☐ ☐ ☐ ☒

i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?  ☐ ☐ ☐ ☒

j) Expose people or structures to a significant risk of loss, injury or death involving inundation by seiche, tsunami, or mudflow?  ☐ ☐ ☐ ☒

The Market and Octavia PEIR determined that the anticipated increase in population would not result in a significant impact on hydrology and water quality, including the combined sewer system and the potential for combined sewer outflows. No mitigation measures were identified in the PEIR.

The entire project site is covered by impervious surfaces, and the proposed building’s footprint would cover the entire project site. As a result, the proposed project would not result in an increase in the amount of impervious surface area on the project site or an increase in the amount of stormwater runoff and drainage from the project site.
Implementation of the proposed project would not substantially change existing surface runoff and drainage patterns, and would not substantially increase the rate or amount of surface runoff in a manner that would result in flooding, erosion, or siltation. The rate or amount of surface runoff would not increase to the point that it would exceed the capacity of existing or planned stormwater drainage systems. Furthermore, the proposed project would be constructed in compliance with all applicable federal, state, and local regulations governing water quality and discharges into surface and underground bodies of water. Runoff from the project site would drain into the City’s combined stormwater/sewer system, ensuring that such runoff is properly treated at the Southeast Water Pollution Control Plant before being discharged into the San Francisco Bay. As a result, the proposed project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade water quality.

Therefore, the proposed project would not result in any significant impacts related to hydrology and water quality that were not identified in the Market and Octavia PEIR, and no mitigation measures are necessary.

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<tr>
<td>15. HAZARDS AND HAZARDOUS MATERIALS—Would the project:</td>
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<td>a) Create a significant hazard to the public or the</td>
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<td>environment through the routine transport, use, or</td>
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<td>disposal of hazardous materials?</td>
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<td>b) Create a significant hazard to the public or the</td>
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<td>environment through reasonably foreseeable upset and</td>
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<td>accident conditions involving the release of</td>
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<td>hazardous materials into the environment?</td>
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<td>c) Emit hazardous emissions or handle hazardous</td>
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<td>or acutely hazardous materials, substances, or waste</td>
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<td>within one-quarter mile of an existing or proposed school?</td>
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<td>d) Be located on a site which is included on a list of</td>
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<td>hazardous materials sites compiled pursuant to Government</td>
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<td>Code Section 65962.5 and, as a result, would it create a</td>
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<td>significant hazard to the public or the environment?</td>
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<td>e) For a project located within an airport land use plan</td>
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<td>or, where such a plan has not been adopted, within two</td>
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<td>miles of a public airport or public use airport, would</td>
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<td>the project result in a safety hazard for people residing</td>
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<td>or working in the project area?</td>
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<td>f) For a project within the vicinity of a private</td>
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<td>airstrip, would the project result in a safety hazard for</td>
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<td>people residing or working in the project area?</td>
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<td>g) Impair implementation of or physically interfere with</td>
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<td>an adopted emergency response plan or emergency evacuation</td>
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<td>plan?</td>
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The Market and Octavia PEIR found that impacts related to hazards and hazardous materials would primarily originate from construction-related activities. Demolition or renovation of existing buildings could result in exposure to hazardous building materials such as asbestos, lead, mercury or polychlorinated biphenyls (PCBs). In addition, the discovery of contaminated soils and groundwater at a construction site could result in exposure to hazardous materials during construction. The PEIR identified a significant impact associated with soil disturbance during construction for sites in areas of naturally occurring asbestos. The PEIR found that compliance with existing regulations and implementation of Mitigation Measure F1: Program- or Project-Level Mitigation Measures for Hazardous Materials, which would require implementation of construction best management practices to reduce dust emissions and tracking of contaminated soils beyond the site boundaries by way of construction vehicles’ tires, would reduce impacts associated with construction-related hazardous materials to less-than-significant levels.

As discussed under topic 6, Air Quality, subsequent to the certification of the Market and Octavia PEIR, the San Francisco Board of Supervisors adopted the Construction Dust Control Ordinance. The regulations and procedures set forth by the construction dust control ordinance would ensure that construction dust impacts would not be significant. In addition, construction activities in areas containing naturally occurring asbestos are subject to regulation under the State Asbestos Airborne Toxic Control Measures (ATCM) for Construction, Grading, Quarrying, and Surface Mining Operations, which is implemented in San Francisco by the BAAQMD. Compliance with the state asbestos ATCM would ensure that the proposed project would not create a significant hazard to the public or the environment from the release of naturally occurring asbestos. With mandatory compliance with these regulations, PEIR Mitigation Measure F1 is no longer necessary to reduce the construction-related impacts from release of dust and hazardous materials. The proposed project would therefore not result in significant impacts related to construction dust and no mitigation is required.

**Hazardous Building Materials**

The Market and Octavia PEIR determined that future development in the plan area may involve demolition or renovation of existing structures containing hazardous building materials which could expose workers or the community to hazardous building materials if improperly handled. The proposed project would demolish an industrial building constructed in 1906, and it is likely that the existing building contains hazardous materials, such as asbestos and lead-based paints. The PEIR addressed hazardous building materials, including asbestos and lead-based paints. The BAAQMD regulates the demolition and renovation of buildings that may contain asbestos. The Air District must be notified of all demolitions and renovation of 100 square feet of asbestos and requires abatement of asbestos-containing materials in accordance with applicable regulations prior to the start of demolition or renovation activities. Pursuant to state law, DBI will not issue a demolition permit until asbestos abatement has been completed. California’s health and safety code and San Francisco building code section 3407 require compliance with work practices for all pre-1979 buildings undergoing additions, alterations, or
demolition that may disturb or remove lead-based paints to minimize or eliminate the risk of lead contamination of the environment. California law requires that fluorescent lamps and tubes (which contain mercury) be recycled or disposed of at a hazardous waste disposal facility. In addition, electrical equipment such as transformers and light ballasts that may contain PCBs or DEHP (a toxic phthalate) must be removed and disposed of properly. Required compliance with applicable federal, state, and local regulations would ensure that the proposed project would not result in any significant impacts related to hazardous building materials that were not identified in the Market and Octavia PEIR.

Soil and Groundwater Contamination

Since certification of the PEIR, Article 22A of the Health Code, also known as the Maher Ordinance, was expanded to include properties throughout the city where there is potential to encounter hazardous materials, primarily industrial zoning districts, sites with industrial uses or underground storage tanks, sites with historic bay fill, and sites in close proximity to freeways or underground storage tanks. The over-arching goal of the Maher Ordinance is to protect public health and safety by requiring appropriate handling, treatment, disposal and when necessary, remediation of contaminated soils that are encountered in the building construction process. Projects that disturb 50 cubic yards or more of soil that are located on sites with potentially hazardous soil or groundwater are subject to this ordinance.

The proposed project would not involve excavation, but would involve soil disturbance in constructing the mat slab foundation, and may require ground clearing and soil compaction for mat slab and associated utilities. In addition, the project site has previous industrial uses and appears on the Maher map. Therefore, the project is subject to Article 22A of the Health Code, also known as the Maher Ordinance, which is administered and overseen by the Department of Public Health (DPH). The Maher Ordinance requires the project sponsor to retain the services of a qualified professional to prepare a Phase I Environmental Site Assessment (ESA) that meets the requirements of Health Code Section 22.A.6.

The Phase I ESA would determine the potential for site contamination and level of exposure risk associated with the project. Based on that information, the project sponsor may be required to conduct soil and/or groundwater sampling and analysis. Where such analysis reveals the presence of hazardous substances in excess of state or federal standards, the project sponsor is required to submit a site mitigation plan (SMP) to the DPH or other appropriate state or federal agencies, and to remediate any site contamination in accordance with an approved SMP prior to the issuance of any building permit.

In compliance with the Maher Ordinance, the project sponsor has submitted a Maher Application to DPH, a Phase I ESA, and a Phase II ESA to assess the potential for site contamination.

The Phase I ESA found no evidence of recognized environmental conditions. The ESA found evidence that based on the historic use of the property as an iron works, a soap factory, and for manufacture of heating and metal supplies, there could be potential for soil, groundwater, and soil gas contamination from metals and solvents that could impact the property. The investigation recommended soil sampling to

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37 CCR Title 22, section 66261.50 et seq.
38 CCR Title 22, section 67426.1 et seq.
40 Certified Environments Inc. Phase I Environmental Site Assessment, 42 Otis Street, San Francisco, California, May 3, 2016.
41 Innovative and Creative Environmental Solutions, Phase II Environmental Site Assessment, 42 Otis Street, San Francisco, California, June 6, 2016.
determine soil contamination conditions. In addition, adjacent properties were found to have evidence of recognized environmental conditions, including adjoining properties which were used for auto repair, laundry service, and iron works, which could have potential soil, groundwater, and soil gas contamination that could migrate off-site to the subject property.

The Phase II ESA consisted of an analysis of two soil samples collected from onsite borings at a depth of approximately three feet below ground surface. The samples were analyzed for petroleum hydrocarbons, volatile organic compounds (VOCs), semi-VOCs, CAM 17 metals, and polychlorinated biphenyls. One soil vapor sample was collected at 3 to 4 feet below ground surface and analyzed for VOCs. The results of the limited site investigation indicated that the underlying fill material contains lead. The elevated lead concentrations contained in the soil samples exceeded the Regional Water Quality Control Board’s human health risk screening levels for residential and commercial/industrial use. The report estimated the cost to remove and dispose of the lead-impacted fill material to a depth of approximately 5 feet below ground surface as a remediation.

Through compliance with the Maher Ordinance, the proposed project would be required to remediate the soil contamination describe above and any potential soil and/or groundwater contamination that may be subsequently identified in accordance with Article 22A of the Health Code. Therefore, the proposed project would not result in any significant impacts related to hazardous materials in soil or groundwater that were not identified in the Market and Octavia PEIR.

**Fire Hazards and Emergency Response**

In San Francisco, fire safety is ensured through the provisions of the San Francisco Building and Fire Codes. During the review of the building permit application, the DBI and the San Francisco Fire Department will review the project plans for compliance with all regulations related to fire safety. Compliance with fire safety regulations would ensure that the proposed project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan or expose people or structures to a significant risk of loss, injury, or death involving fires.

For these reasons, the proposed project would not result in significant or substantially greater project-specific or cumulative impacts related to hazards and hazardous materials that were not identified in the Market and Octavia PEIR, and no mitigation measures are necessary.

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<table>
<thead>
<tr>
<th>Topics:</th>
<th>Significant Impact Peculiar to Project or Project Site</th>
<th>Significant Impact not Identified in PEIR</th>
<th>Significant Impact due to Substantial New Information</th>
<th>No Significant Impact not Previously Identified in PEIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>16. MINERAL AND ENERGY RESOURCES—Would the project:</td>
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<tr>
<td>a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
</tr>
</tbody>
</table>
The Market and Octavia PEIR did not analyze the area plan’s effects on mineral and energy resources, and no mitigation measures were identified. The project site is not a designated mineral resource recovery site, and implementation of the proposed project would not result in the loss of availability of any mineral resources.

The PEIR determined that the area plan would facilitate the construction of both new residential units and commercial buildings. Development of these uses would not result in use of large amounts of fuel, water, or energy in a wasteful manner or in the context of energy use throughout the city and region. The energy demand for individual buildings would be typical for such projects and would meet, or exceed, current state and local codes and standards concerning energy consumption, including Title 24 of the California Code of Regulations enforced by DBI.

For these reasons, the proposed project would not result in any significant project-specific or cumulative impacts related to mineral and energy resources, and no mitigation measures are necessary.
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or forest land to non-forest use?  

☐  ☐  ☐  ☒

The Market and Octavia PEIR did not analyze the area plan’s effects on agriculture and forest resources, and no mitigation measures were identified. The project site is not zoned for or occupied by agricultural uses, forest land, or timberland, and implementation of the proposed project would not convert agricultural uses, forest land, or timberland to non-agricultural or non-forest uses.

For these reasons, the proposed project would have no project-specific or cumulative impacts related to agriculture and forest resources, and no mitigation measures are necessary.

________________________________________

MITIGATION MEASURES

Archeological Resources

Project Mitigation Measure 1 – Archeological Monitoring Program (Implementing Mitigation Measure C2 of the Market and Octavia PEIR)

Based on the reasonable potential that archeological resources may be present within the project site, the following measures shall be undertaken to avoid any potentially significant adverse effect from the proposed project on buried or submerged historical resources. The project sponsor shall retain the services of an archeological consultant from the rotational Department Qualified Archaeological Consultants List (QACL) maintained by the Planning Department archaeologist. The project sponsor shall contact the Department archaeologist to obtain the names and contact information for the next three archeological consultants on the QACL. The archeological consultant shall undertake an archeological monitoring program. All plans and reports prepared by the consultant as specified herein shall be submitted first and directly to the ERO for review and comment, and shall be considered draft reports subject to revision until final approval by the ERO. Archeological monitoring and/or data recovery programs required by this measure could suspend construction of the project for up to a maximum of four weeks. At the direction of the ERO, the suspension of construction can be extended beyond four weeks only if such a suspension is the only feasible means to reduce to a less than significant level potential effects on a significant archeological resource as defined in CEQA Guidelines Sect. 15064.5 (a) and (c).

Consultation with Descendant Communities: On discovery of an archeological site associated with descendant Native Americans, the Overseas Chinese, or other potentially interested descendant group an

* By the term “archeological site” is intended here to minimally include any archeological deposit, feature, burial, or evidence of burial.
appropriate representative of the descendant group and the ERO shall be contacted. The representative of the descendant group shall be given the opportunity to monitor archeological field investigations of the site and to offer recommendations to the ERO regarding appropriate archeological treatment of the site, of recovered data from the site, and, if applicable, any interpretative treatment of the associated archeological site. A copy of the Final Archaeological Resources Report shall be provided to the representative of the descendant group.

**Archeological monitoring program (AMP).** The archeological monitoring program shall minimally include the following provisions:

- The archeological consultant, project sponsor, and ERO shall meet and consult on the scope of the AMP reasonably prior to any project-related soils disturbing activities commencing. The ERO in consultation with the project archeologist shall determine what project activities shall be archeologically monitored. In most cases, any soils disturbing activities, such as demolition, foundation removal, excavation, grading, utilities installation, foundation work, driving of piles (foundation, shoring, etc.), site remediation, etc., shall require archeological monitoring because of the potential risk these activities pose to archeological resources and to their depositional context;
- The archeological consultant shall advise all project contractors to be on the alert for evidence of the presence of the expected resource(s), of how to identify the evidence of the expected resource(s), and of the appropriate protocol in the event of apparent discovery of an archeological resource;
- The archeological monitor(s) shall be present on the project site according to a schedule agreed upon by the archeological consultant and the ERO until the ERO has, in consultation with the archeological consultant, determined that project construction activities could have no effects on significant archeological deposits;
- The archeological monitor shall record and be authorized to collect soil samples and artifactual/eco factual material as warranted for analysis;
- If an intact archeological deposit is encountered, all soils disturbing activities in the vicinity of the deposit shall cease. The archeological monitor shall be empowered to temporarily redirect demolition/excavation/pile driving/construction crews and heavy equipment until the deposit is evaluated. The archeological consultant shall immediately notify the ERO of the encountered archeological deposit. The archeological consultant shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archeological deposit, present the findings of this assessment to the ERO.

If the ERO in consultation with the archeological consultant determines that a significant archeological resource is present and that the resource could be adversely affected by the proposed project, at the discretion of the project sponsor either:

\[\text{[43]}\text{An “appropriate representative” of the descendant group is here defined to mean, in the case of Native Americans, any individual listed in the current Native American Contact List for the City and County of San Francisco maintained by the California Native American Heritage Commission and in the case of the Overseas Chinese, the Chinese Historical Society of America. An appropriate representative of other descendant groups should be determined in consultation with the Department archeologist.}\]
A) The proposed project shall be re-designed so as to avoid any adverse effect on the significant archeological resource; or

B) An archeological data recovery program shall be implemented, unless the ERO determines that the archeological resource is of greater interpretive than research significance and that interpretive use of the resource is feasible.

If an archeological data recovery program is required by the ERO, the archeological data recovery program shall be conducted in accord with an archeological data recovery plan (ADRP). The project archeological consultant, project sponsor, and ERO shall meet and consult on the scope of the ADRP. The archeological consultant shall prepare a draft ADRP that shall be submitted to the ERO for review and approval. The ADRP shall identify how the proposed data recovery program will preserve the significant information the archeological resource is expected to contain. That is, the ADRP will identify what scientific/historical research questions are applicable to the expected resource, what data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, should be limited to the portions of the historical property that could be adversely affected by the proposed project. Destructive data recovery methods shall not be applied to portions of the archeological resources if nondestructive methods are practical.

The scope of the ADRP shall include the following elements:

- **Field Methods and Procedures.** Descriptions of proposed field strategies, procedures, and operations.
- **Cataloguing and Laboratory Analysis.** Description of selected cataloguing system and artifact analysis procedures.
- **Discard and Deaccession Policy.** Description of and rationale for field and post-field discard and deaccession policies.
- **Interpretive Program.** Consideration of an on-site/off-site public interpretive program during the course of the archeological data recovery program.
- **Security Measures.** Recommended security measures to protect the archeological resource from vandalism, looting, and non-intentionally damaging activities.
- **Final Report.** Description of proposed report format and distribution of results.
- **Curation.** Description of the procedures and recommendations for the curation of any recovered data having potential research value, identification of appropriate curation facilities, and a summary of the access policies of the curation facilities.

**HumanRemains, Associated or Unassociated Funerary Objects.** The treatment of human remains and of associated or unassociated funerary objects discovered during any soils disturbing activity shall comply with applicable State and Federal Laws, including immediate notification of the Coroner of the City and County of San Francisco and in the event of the Coroner’s determination that the human remains are Native American remains, notification of the California State Native American Heritage Commission (NAHC) who shall appoint a Most Likely Descendant (MLD) (Pub. Res. Code Sec. 5097.98). The ERO shall also be immediately notified upon discovery of human remains. The archeological consultant, project sponsor, ERO, and MLD shall have up to but not beyond six days after the discovery to make all reasonable efforts to develop an agreement for the treatment of human remains and associated or unassociated funerary objects with appropriate dignity (CEQA Guidelines. Sec. 15064.5(d)). The agreement should take into consideration
the appropriate excavation, removal, recordation, analysis, curation, possession, and final disposition of the human remains and associated or unassociated funerary objects. Nothing in existing State regulations or in this mitigation measure compels the project sponsor and the ERO to accept recommendations of an MLD. The archeological consultant shall retain possession of any Native American human remains and associated or unassociated burial objects until completion of any scientific analyses of the human remains or objects as specified in the treatment agreement if such as agreement has been made or, otherwise, as determined by the archeological consultant and the ERO. If no agreement is reached State regulations shall be followed including the reinterment of the human remains and associated burial objects with appropriate dignity on the property in a location not subject to further subsurface disturbance (Pub. Res. Code Sec. 5097.98).

*Final Archeological Resources Report.* The archeological consultant shall submit a Draft Final Archeological Resources Report (FARR) to the ERO that evaluates the historical significance of any discovered archeological resource and describes the archeological and historical research methods employed in the archeological testing/monitoring/data recovery program(s) undertaken. Information that may put at risk any archeological resource shall be provided in a separate removable insert within the draft final report.

Copies of the Draft FARR shall be sent to the ERO for review and approval. Once approved by the ERO copies of the FARR shall be distributed as follows: California Archaeological Site Survey Northwest Information Center (NWIC) shall receive one (1) copy and the ERO shall receive a copy of the transmittal of the FARR to the NWIC. The Environmental Planning division of the Planning Department shall receive one bound, one unbound and one unlocked, searchable PDF copy on CD of the FARR along with copies of any formal site recordation forms (CA DPR 523 series) and/or documentation for nomination to the National Register of Historic Places/California Register of Historical Resources. In instances of high public interest or interpretive value, the ERO may require a different final report content, format, and distribution than that presented above.

*Air Quality*

**Project Mitigation Measure 2: Construction Air Quality (Implementing Market Octavia PEIR Mitigation Measure E2)**

The project sponsor or the project sponsor’s Contractor shall comply with the following:

A. *Engine Requirements.*

1. All off-road equipment greater than 25 horsepower (hp) and operating for more than 20 total hours over the entire duration of construction activities shall have engines that meet or exceed either U.S. Environmental Protection Agency (USEPA) or California Air Resources Board (ARB) Tier 2 off-road emission standards, and have been retrofitted with an ARB Level 3 Verified Diesel Emissions Control Strategy. Equipment with engines meeting Tier 4 Interim or Tier 4 Final off-road emission standards automatically meet this requirement.

2. Where access to alternative sources of power are available, portable diesel engines shall be prohibited.

3. Diesel engines, whether for off-road or on-road equipment, shall not be left idling for more than two minutes, at any location, except as provided in exceptions to the applicable state regulations regarding idling for off-road
and on-road equipment (e.g., traffic conditions, safe operating conditions). The Contractor shall post legible and visible signs in English, Spanish, and Chinese, in designated queuing areas and at the construction site to remind operators of the two minute idling limit.

4. The Contractor shall instruct construction workers and equipment operators on the maintenance and tuning of construction equipment, and require that such workers and operators properly maintain and tune equipment in accordance with manufacturer specifications.

B. **Waivers.**

1. The Planning Department’s Environmental Review Officer or designee (ERO) may waive the alternative source of power requirement of Subsection (A)(2) if an alternative source of power is limited or infeasible at the project site. If the ERO grants the waiver, the Contractor must submit documentation that the equipment used for onsite power generation meets the requirements of Subsection (A)(1).

2. The ERO may waive the equipment requirements of Subsection (A)(1) if: a particular piece of off-road equipment with an ARB Level 3 VDECS is technically not feasible; the equipment would not produce desired emissions reduction due to expected operating modes; installation of the equipment would create a safety hazard or impaired visibility for the operator; or, there is a compelling emergency need to use off-road equipment that is not retrofitted with an ARB Level 3 VDECS. If the ERO grants the waiver, the Contractor must use the next cleanest piece of off-road equipment, according to Table 2 below.

**Table 2 – Off-Road Equipment Compliance Step-down Schedule**

<table>
<thead>
<tr>
<th>Compliance Alternative</th>
<th>Engine Emission Standard</th>
<th>Emissions Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tier 2</td>
<td>ARB Level 2 VDECS</td>
</tr>
<tr>
<td>2</td>
<td>Tier 2</td>
<td>ARB Level 1 VDECS</td>
</tr>
<tr>
<td>3</td>
<td>Tier 2</td>
<td>Alternative Fuel*</td>
</tr>
</tbody>
</table>

How to use the table: If the ERO determines that the equipment requirements cannot be met, then the project sponsor would need to meet Compliance Alternative 1. If the ERO determines that the Contractor cannot supply off-road equipment meeting Compliance Alternative 1, then the Contractor must meet Compliance Alternative 2. If the ERO determines that the Contractor cannot supply off-road equipment meeting Compliance Alternative 2, then the Contractor must meet Compliance Alternative 3.

**Alternative fuels are not a VDECS.**

C. **Construction Emissions Minimization Plan.** Before starting on-site construction activities, the Contractor shall submit a Construction Emissions Minimization Plan (Plan) to the ERO for review and approval. The Plan shall state, in reasonable detail, how the Contractor will meet the requirements of Section A.

1. The Plan shall include estimates of the construction timeline by phase, with a
description of each piece of off-road equipment required for every construction phase. The description may include, but is not limited to: equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, engine serial number, and expected fuel usage and hours of operation. For VDECS installed, the description may include: technology type, serial number, make, model, manufacturer, ARB verification number level, and installation date and hour meter reading on installation date. For off-road equipment using alternative fuels, the description shall also specify the type of alternative fuel being used.

2. The project sponsor shall ensure that all applicable requirements of the Plan have been incorporated into the contract specifications. The Plan shall include a certification statement that the Contractor agrees to comply fully with the Plan.

3. The Contractor shall make the Plan available to the public for review on-site during working hours. The Contractor shall post at the construction site a legible and visible sign summarizing the Plan. The sign shall also state that the public may ask to inspect the Plan for the project at any time during working hours and shall explain how to request to inspect the Plan. The Contractor shall post at least one copy of the sign in a visible location on each side of the construction site facing a public right-of-way.

D. **Monitoring.** After start of Construction Activities, the Contractor shall submit quarterly reports to the ERO documenting compliance with the Plan. After completion of construction activities and prior to receiving a final certificate of occupancy, the project sponsor shall submit to the ERO a final report summarizing construction activities, including the start and end dates and duration of each construction phase, and the specific information required in the Plan.