

## ***Appendix F—Salt Lake Alignment***

---

The Salt Lake Alignment, previously proposed as a project route alternative, was evaluated as part of ongoing environmental assessments required for the Honolulu High-Capacity Transit Corridor Project. However, this alignment was not selected as preferred alternative for the Project as a result of all environmental assessments completed. The Section 106 eligibility assessments for resources were completed as part of earlier initiatives. Effects assessments for all eligible and listed resources were also completed and are included here for reference. Please note that some of these historic resources were also located along portions of the Airport Alignment and their assessments are included as part of the Project. However, the project description in the vicinity of the resources may vary, as the two proposed alignments were not identical.



## **F.1 'Aiea Cemetery/Honolulu Plantation Cemetery**

TMKs 99012006, 99012001

Kamehameha Highway at 'Aiea Access Road

### ***Property description***

The 'Aiea Cemetery/Honolulu Plantation Cemetery contains approximately 475 graves of various ethnic groups. Interments date to the late-19th-century. The cemetery was decreased in size when Kamehameha Highway was enlarged in the 1940s. The property was determined eligible for the National Register of Historic Places (NRHP) under Criterion A for its association with the settlement patterns of the 'Aiea area and under Criterion D for the likelihood it may yield information about the lives of Honolulu plantation workers.

### ***Project description in vicinity of property***

The Salt Lake Alignment would include construction of an elevated, fixed-guideway rail structure in the median of Kamehameha Highway just makai of the 'Aiea Cemetery/Honolulu Plantation Cemetery (see Figure F-1 and Drawing HP025 in Appendix A). The mauka edge of the guideway would be approximately 40 to 60 feet from the makai edge of the NRHP boundary. The guideway in this area would be elevated approximately 50 feet above grade.

### ***Application of criteria of adverse effect***

*Summary finding:* Based on the evaluation below, the Salt Lake Alignment would have **No Adverse Effect** to the 'Aiea Cemetery/Honolulu Plantation Cemetery.

*Location:* No Effect. The Salt Lake Alignment would not result in the removal of the property from its historic location. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of location.

*Design:* No Effect. The Salt Lake Alignment would not alter any of the property's design elements or features. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of design.

*Setting:* No Adverse Effect. This property does not retain integrity of setting, and the property's setting was not identified as a historically significant feature of the property. The property is essentially at the center of the triangular intersection of Kamehameha Highway, Moanalua Freeway (H-201), and Circular Road that surrounds and provides access to the adjacent Aloha Stadium. The property is surrounded on all sides by divided highway alignments and access ramps. Views from the property in all directions are to non-historic properties, including Koko Head to Aloha Stadium and 'Ewa to high-rise buildings and non-historic residential neighborhoods. Views makai to Pearl Harbor are partially obstructed by tall and obtrusive utility transmission poles carrying multiple transmission lines. These properties and features within the property's setting and viewshed do not contribute

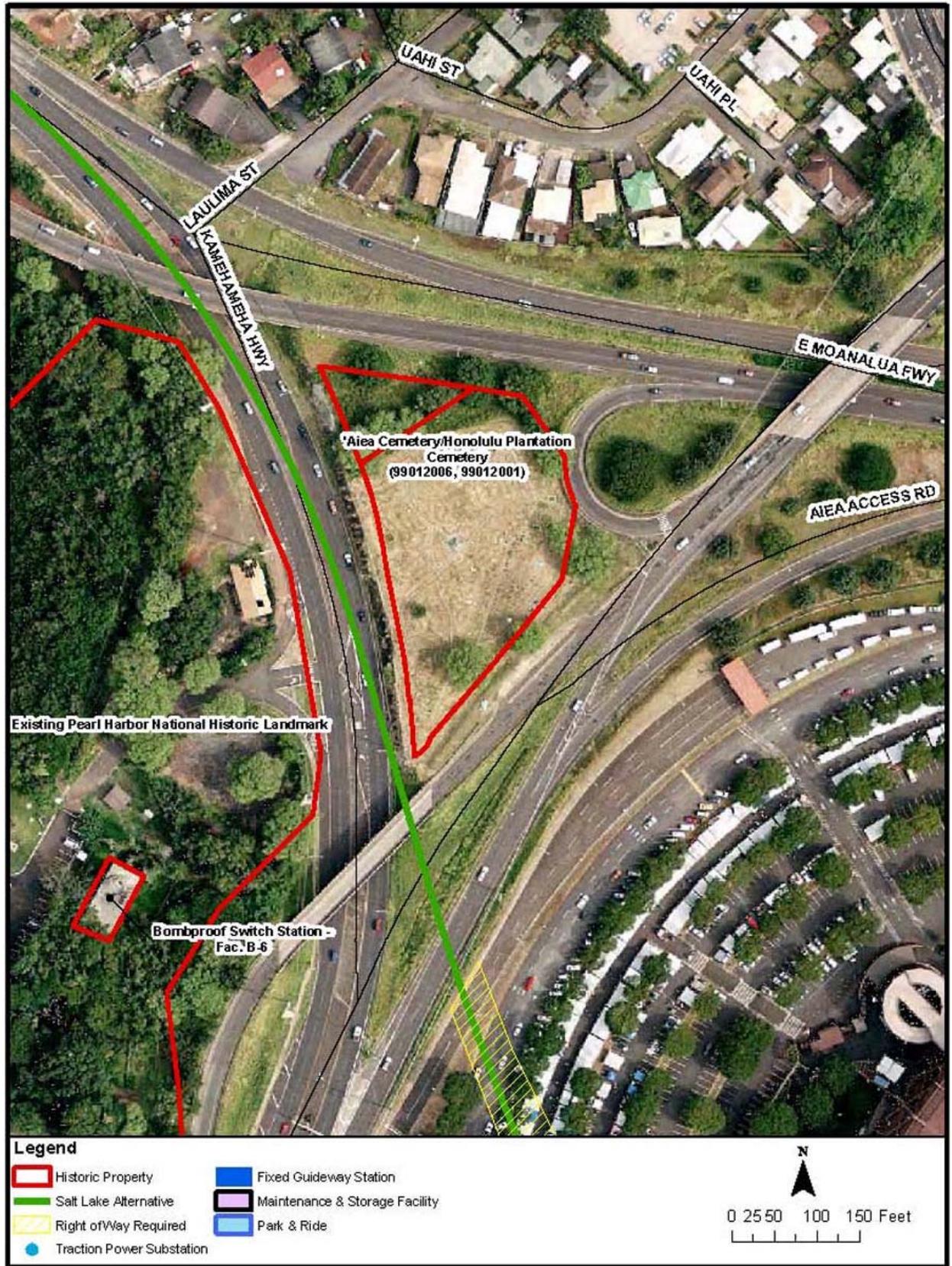
to its historic significance. Furthermore, no historically significant viewsheds to or from this property were identified. The Salt Lake Alignment would introduce an elevated, fixed guideway rail structure makai of the cemetery and within the center of the adjacent Kamehameha Highway alignment that would be visible from the makai portion of the property. Although the guideway's construction would introduce a new component to the property's setting and viewshed, the presence of the guideway would not alter any historically significant views or visual features. Furthermore, no audible or atmospheric effects to this property were identified. Therefore, because the property does not retain integrity of setting and no historically significant or visual features within the property's setting were identified, the Salt Lake Alignment would have no adverse effect to the property's integrity of setting.

*Materials:* No Effect. The Salt Lake Alignment would not alter any physical elements that comprise the property. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of materials.

*Workmanship:* No Effect. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* No Effect. The Salt Lake Alignment would not affect any of the property's physical features or diminish the property's expression of its historic character. No project activity would occur within the NRHP boundary that would alter its historic character as a late-19th-century cemetery. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of feeling.

*Association:* No Effect. The Salt Lake Alignment would not affect any of the property's physical features or obscure or interrupt any historically significant visual features. No project activity would occur within the NRHP boundary that would obscure its historic appearance to an observer as a late-19th-century cemetery. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of association.



**Figure F-1. 'Aiea Cemetery/Honolulu Plantation Cemetery**



***Figure F-2. 'Aiea Cemetery/Honolulu Plantation Cemetery, facing makai/'Ewa from property to Kamehameha Highway***



***Figure F-3. 'Aiea Cemetery/Honolulu Plantation Cemetery, facing Koko Head from property to Aloha Stadium***

## **F.2 United States Naval Base Pearl Harbor National Historic Landmark**

See National Historic Landmark Documentation for boundary description.

### ***Property description***

The United States Naval Base Pearl Harbor (Pearl Harbor) was designated as a National Historic Landmark (NHL) for its national significance in establishing a strong and strategic military presence in the Pacific in the years leading up to World War II. Since its inception, Pearl Harbor has carried out its mission to support the fleet by sheltering, arming, and repairing naval ships, submarines, and aircraft. On December 7, 1941, the Japanese attacked the base, resulting in the United States entering World War II. The NHL boundaries contain various built resources ranging from buildings directly related to the Navy's wartime work to more modest support buildings.

### ***Project description in vicinity of property***

The Salt Lake Alignment would be located on Kamehameha Highway just mauka of the United States Naval Base Pearl Harbor National Historic Landmark and would then diverge into parking lots associated with Aloha Stadium mauka of Kamehameha Highway (see Figure F-4 and Drawing HP025 in Appendix A). The makai edge of the guideway would be located from approximately 50 to 400 feet from the mauka edge of the property's NHL boundary as it diverges. The guideway in this area would be elevated from approximately 30 to 50 feet above grade.

### ***Application of criteria of adverse effect***

*Summary finding:* The Salt Lake Alignment would have **No Adverse Effect** on Pearl Harbor NHL. Construction of the guideway would not adversely affect the historic landmark's integrity, although the Salt Lake Alignment would introduce new elements into areas outside of the property's NHL boundary.

*Location:* No Effect. The Pearl Harbor NHL and its contributing resources retain integrity of location and this would not be altered by the Salt Lake Alignment. The NHL resources and their related boundaries would remain in their current locations.

*Design:* No Effect. The Pearl Harbor NHL's contributing resources retain a reasonably high level of integrity of design. As outlined in the NHL documentation, Pearl Harbor is by nature responsive to changes in the base's mission and in military theory and technology. Therefore, some degree of change to historic resources is essentially inevitable. The Salt Lake Alignment would not alter the remaining integrity of design, and all project-related work would occur outside the NHL boundary.

*Setting:* No Adverse Effect. Pearl Harbor NHL is located in a U.S. Navy base that contains built resources from its period of significance during World War II. It also contains numerous resources that were constructed more recently. Changes to the

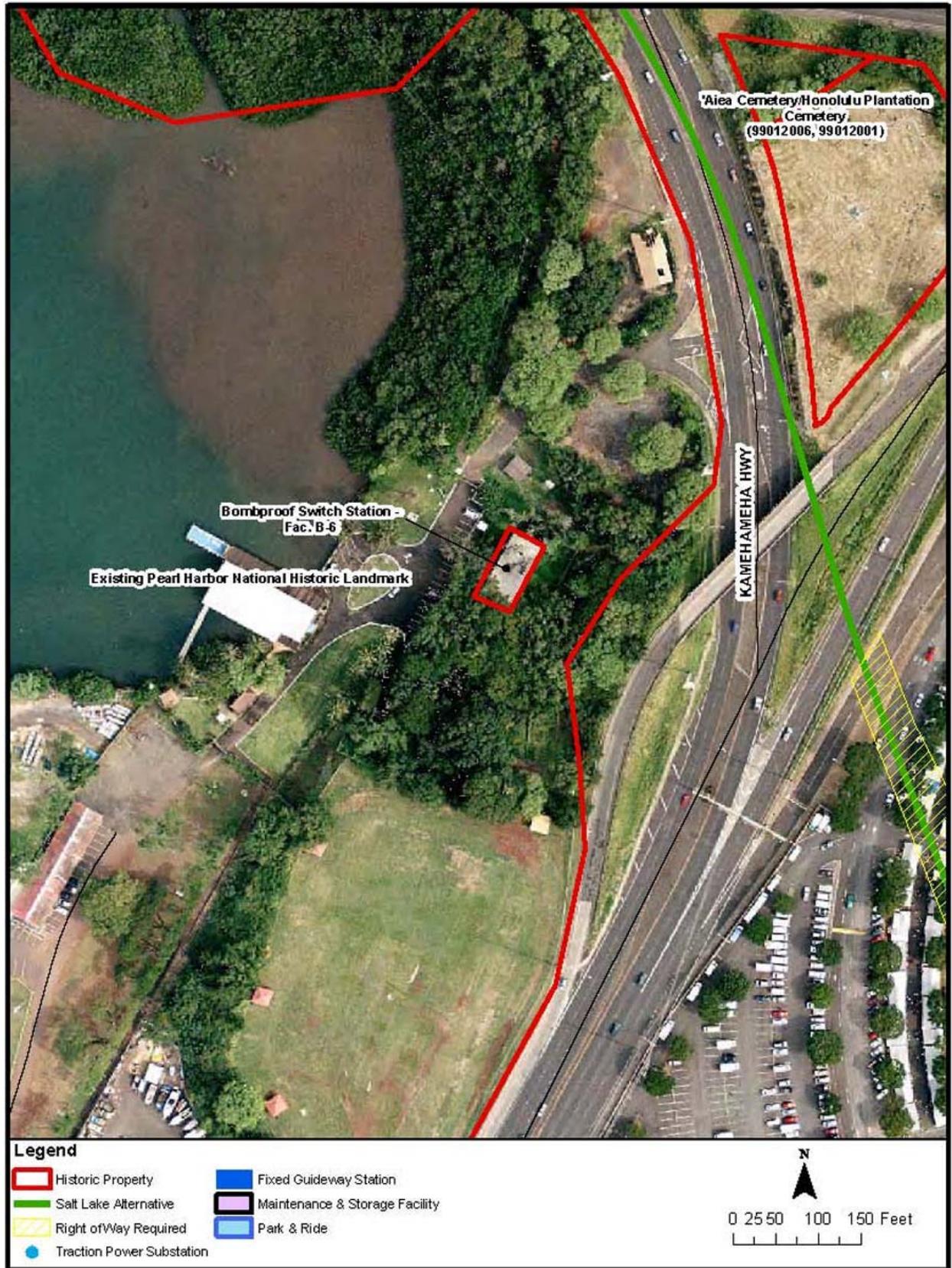
base are inevitable considering the changes in military technology over the past half century. The Salt Lake Alignment would be visible from select areas of the Pearl Harbor NHL but would not be visible from other portions. Numerous other changes to the setting have not affected Pearl Harbor NHL's integrity of setting. These changes include the increasingly busy Kamehameha Highway, which has been widened in some areas; installation of tall power transmission poles and lines that dwarf surrounding structures; and the large, nearby Aloha Stadium, built in 1975. The Salt Lake Alignment would introduce a new component into the adjacent setting of only a small area of Pearl Harbor NHL and would not be visible from the vast majority of the NHL property. Although Kamehameha Highway provides an overland route to the base, Pearl Harbor is ultimately a naval base that is oriented to its harbor. Project construction would occur on its less important land orientation. Furthermore, no audible or atmospheric effects to this property were identified. Because the guideway and associated stations would introduce new elements into the Pearl Harbor NHL setting, there would be an effect, but these changes would result in a determination of No Adverse Effect to the setting.

*Materials:* No Effect. Pearl Harbor NHL's contributing resources retain a moderate level of integrity of materials. Changes are due to maintaining the buildings or altering them for new uses. The Salt Lake Alignment would not alter the current integrity of materials. All project work would occur outside of the NHL's boundary, and the Salt Lake Alignment would not affect the integrity of materials.

*Workmanship:* No Effect. Pearl Harbor NHL's contributing resources retain integrity of workmanship. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property's historic elements. No project activity would occur within the NHL boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* No Effect. Pearl Harbor NHL has a high level of integrity of feeling. It conveys its origins as a significant Pacific naval base with many World War II-era buildings and structures remaining on the site. The site's military mission remains clear, due in large part to its orientation to the harbor as a naval resource. The Salt Lake Alignment would not affect any of the property's physical features or diminish the property's expression of its historic character. The Salt Lake Alignment would not adversely affect the NHL's integrity of feeling.

*Association:* No Effect. Pearl Harbor NHL has a high level of integrity of association. It continues to demonstrate its role in the U.S. Navy's establishment of a strong military presence in the Pacific during World War II. The resources demonstrate the base's self-sufficiency during the war years. The Salt Lake Alignment would not affect any of the property's historically significant physical features. The Salt Lake Alignment would not alter this integrity of association, which is directly related to the designated NHL resources and not its surrounding environment.



**Figure F-4. United States Naval Base Pearl Harbor National Historic Landmark**



### **F.3 Bombproof Switch Station (Facility B-6)**

TMK 99003038

Makai of Aloha Stadium

#### ***Property description***

The Bombproof Switch Station was built in 1942. It is a two-story, reinforced-concrete building with thick walls, square massing, and a flat roof. A bursting chamber on the top of the building was designed to allow bombs to expend their explosive force on the roof or in the chamber so they would not penetrate the shelter below. The structure is eligible under Criterion A for its association with defensive building efforts completed after the Japanese attack on Pearl Harbor.

#### ***Project description in vicinity of property***

The Salt Lake Alignment would be directly mauka of the Bombproof Switch Station on Kamehameha Highway (see Figure F-5 and Drawing HP025 in Appendix A). The makai edge of the guideway would be approximately 300 feet from the mauka edge of the NRHP boundary and the building. The guideway in this area would be elevated approximately 50 feet above grade.

#### ***Application of criteria of adverse effect***

Summary finding: The Salt Lake Alignment would have **No Effect** on the Bombproof Switch Station. Construction of the guideway would not affect the property's integrity, although the Salt Lake Alignment would introduce new elements into areas outside of the NRHP boundary and out of its viewshed.

*Location:* No Effect. The property retains integrity of location and this would not be altered by the Salt Lake Alignment. The building would remain in its current location.

*Design:* No Effect. The property retains a high level of integrity of design. The Salt Lake Alignment would not alter the integrity of design, and all project-related work would occur outside the NRHP boundary.

*Setting:* No Effect. The property is in a recessed area of topography and is surrounded by tall, dense vegetation and substantially set back from Kamehameha Highway. Furthermore, no audible or atmospheric effects to this property were identified. Because the guideway would not be visible from the Bombproof Switch Station, there would be no effect to the setting.

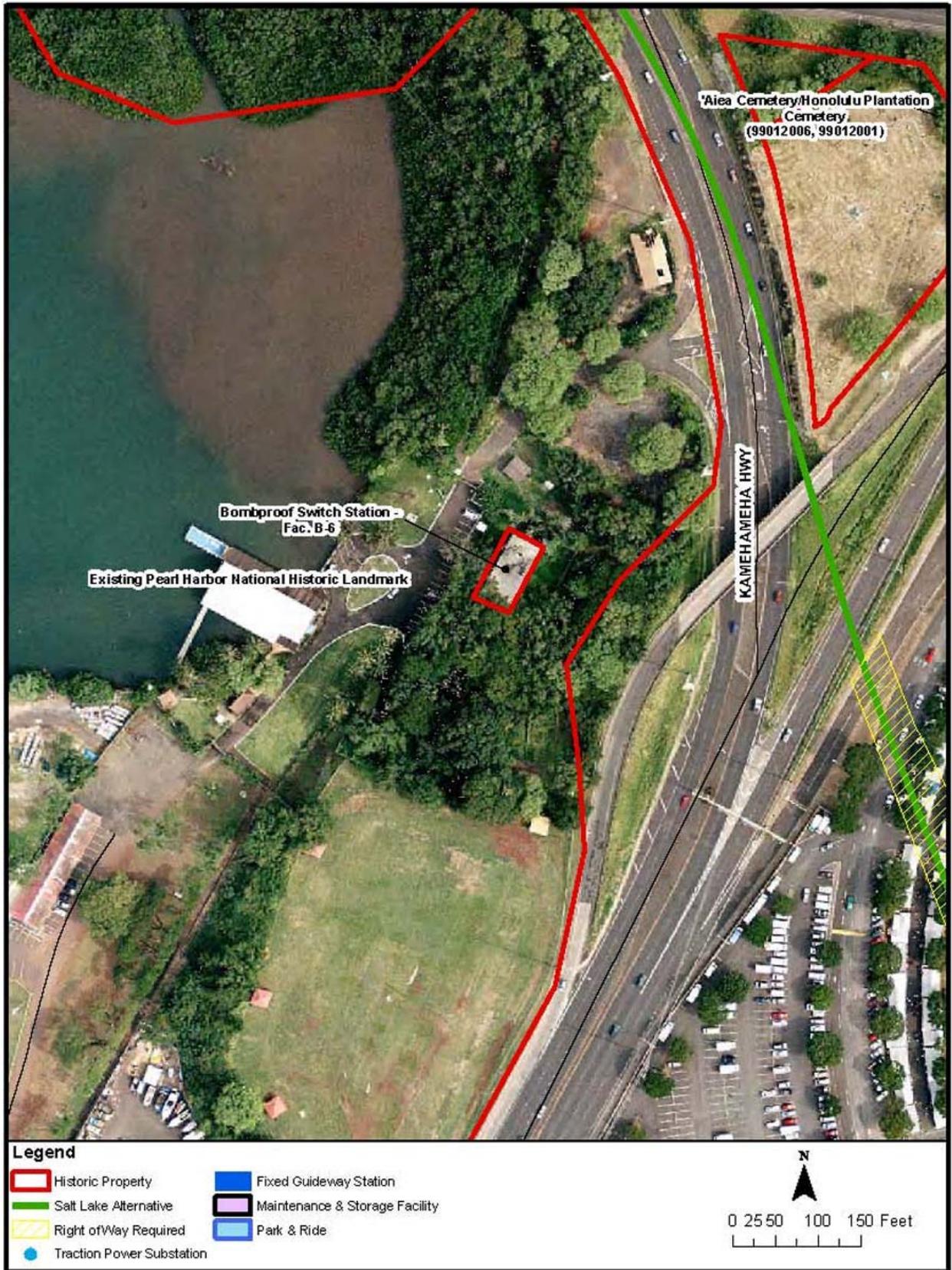
*Materials:* No Effect. The property retains a high level of integrity of materials. The Salt Lake Alignment would not alter the current integrity of materials. All project work would occur outside the NRHP boundary, and the Salt Lake Alignment would not affect the integrity of materials.

*Workmanship:* No Effect. The property retains integrity of workmanship. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property's historic elements. No project activity

would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* No Effect. The property has a high level of integrity of feeling. It conveys its origins as a 1940s defensive shelter that was built as a result of the Japanese attack on Pearl Harbor. The Salt Lake Alignment would not affect any of the property's physical features or diminish the property's expression of its historic character and would have no effect on the station.

*Association:* No Effect. The property has a high level of integrity of association. It continues to demonstrate its original use on the military installation. The Salt Lake Alignment would not affect any of the property's historically significant physical features. The Salt Lake Alignment would not alter this integrity of association, which is directly related to the building and not its surrounding environment.



**Figure F-5. Bombproof Switch Station (Facility B-6)**



#### **F.4 Radford High School**

TMK 99002023

4361 Salt Lake Boulevard

##### ***Property description***

Radford High School is a complex of masonry buildings constructed between 1957 and 1968. The buildings occupy approximately 25 acres. Executed in a modern style, the buildings are generally one or two stories high. Some are oriented toward Salt Lake Boulevard, while others are oriented inwardly to the campus. Covered walkways connect the buildings.

##### ***Project description in vicinity of property***

The Salt Lake Alignment would be located on Salt Lake Boulevard directly mauka of Radford High School (see Figure F-6 and Drawing HP026 in Appendix A). The edge of the guideway would be approximately 20 to 25 feet from the edge of the property's NRHP boundary. The guideway structure in this area would be elevated approximately 30 feet above grade. Radford High School is in a low topographical area, with Salt Lake Boulevard and the proposed guideway located substantially above the buildings' ridgelines. Vegetation also screens much of the campus from Salt Lake Boulevard.

##### ***Application of criteria of adverse effect***

*Summary Finding:* The Salt Lake Alignment would have an **Adverse Effect** on Radford High School. Construction of the guideway would adversely affect the property's integrity by altering the setting immediately adjacent to the school campus. The guideway would be visible from the campus, although some vegetation and changes in topography would provide screening.

*Location:* No Effect. The property retains integrity of location and this would not be altered by the Project. The complex would remain in its current location.

*Design:* No Effect. The property retains a high level of integrity of design. Subsequent changes to the campus, including construction that occurred after initial building efforts, are appropriate for a growing educational entity. The Salt Lake Alignment would not alter the integrity of design, and all project-related work would occur outside the school's NRHP boundaries.

*Setting:* Adverse Effect. The Salt Lake Alignment would alter the immediate setting of the property in a manner that is not in keeping with the suburban character of a mid-century high school. Given the close proximity of the Project to the school's NRHP boundary, the impact is not simply one of altered distant viewsheds but of introducing an incompatible component into the immediate non-urban setting of the school campus. This would change the character-defining campus setting of the school complex. Although portions of the Salt Lake Alignment would be screened because of building orientation, windowless elevations of buildings, topography, and

vegetation, the overall effect of the Project on the campus setting along its main entrance would constitute an adverse effect.

*Materials:* No Effect. The property retains a high level of integrity of materials that would not be altered by the Salt Lake Alignment. All project work would occur outside the school's NRHP boundary, and thus the Salt Lake Alignment would not affect the school's integrity of materials.

*Workmanship:* No Effect. The property retains integrity of workmanship. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property's historic elements. No project activity would occur within the property's NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* Adverse Effect. The property has a high level of integrity of feeling. It conveys its origins as a mid-century suburban high school. The Salt Lake Alignment would introduce a new component into the adjacent setting that alters the suburban setting of the school and is incompatible with the historic character of the complex, most notably in front of the school's primary entrance. This constitutes an adverse effect.

*Association:* No Effect. The property has a high level of integrity of association. It continues to demonstrate its role as a suburban high school constructed with mid-century Modernism influences. The Salt Lake Alignment would not affect any of the property's historically significant physical features. The Salt Lake Alignment would not alter this integrity of association, which is directly related to the campus and buildings and not the school's surrounding environment.



**Figure F-6. Radford High School**



**Figure F-7. Radford High School, facing mauka/Ewa from Salt Lake Boulevard/Bougainville Drive intersection to property**



**Figure F-8. Radford High School, facing makai from property to Salt Lake Boulevard/Bougainville Drive intersection**

## **F.5 Quonset Hut X-24 at Navy Public Works**

TMK 11010011

Salt Lake Boulevard at Maluna Road

### ***Property description***

Quonset Hut X-24 is a modest corrugated metal building with double, metal sliding doors flanked by small windows on its southeast elevation. The hut was determined to be eligible for listing in the NRHP for its association with temporary World War II structures and with Navy Construction Battalion Camp No. 2. It is also eligible under Criterion C as an example of a Quonset hut in an area where few survive in their original locations.

### ***Project description in vicinity of property***

The Salt Lake Alignment would be located on Salt Lake Boulevard, mauka of Quonset Hut X-24 (see Figure F-9 and Drawing HP026 in Appendix A). The edge of the guideway would be approximately 30 feet from the edge of the property's NRHP boundary and approximately 50 feet from the building. The guideway in this area would be elevated approximately 35 feet above grade.

### ***Application of criteria of adverse effect***

*Summary Finding:* The Salt Lake Alignment would have No Adverse Effect on Quonset Hut X-24. Construction of the guideway would not adversely affect the property's integrity, although the Salt Lake Alignment would introduce new elements into areas outside the property's NRHP boundary.

*Location:* No Effect. The hut retains integrity of location and this would not be altered by the Salt Lake Alignment. The building would remain in its current location.

*Design:* No Effect. Although the hut is utilitarian in nature, it retains a high level of integrity of design, which ultimately serves its function as a multi-purpose building that could be efficiently and inexpensively constructed. The Salt Lake Alignment would not alter the integrity of design, and all project-related work would occur outside the building's NRHP boundaries.

*Setting:* No Adverse Effect. The hut's setting is not a critical component of its NRHP eligibility, primarily because the setting has been substantially altered by demolition and removal of surrounding Quonset huts and the increasingly busy Salt Lake Boulevard. The resource is utilitarian, and its setting does not contribute to its significance. Furthermore, no audible or atmospheric effects to this property were identified. The Salt Lake Alignment would introduce a new component to the hut's setting, but it would not adversely affect the integrity of setting.

*Materials:* No Effect. The hut retains a high level of integrity of materials that would not be altered by the Salt Lake Alignment. All project work would occur outside of the hut's NRHP boundary, and the Salt Lake Alignment would not affect the hut's integrity of materials.

*Workmanship:* No Effect. The hut displays minimal levels of workmanship due to the functional nature of the resource, but it does retain high integrity. The Salt Lake Alignment would not affect any characteristics or features of the hut. No project activity would occur within the property's NRHP boundary. Therefore, project implementation would not affect the property's integrity of workmanship.

*Feeling:* No Effect. The hut has a minimal level of integrity of feeling. The hut conveys its origins as a functional resource that allowed Pearl Harbor to fulfill its mission, but it has lost its context because it is no longer located amid numerous other Quonset huts on the base. This has caused the modest building to lose the overall impact that the resource once had when it was a ubiquitous type. The Salt Lake Alignment would introduce a new component into the adjacent setting, but it would not alter the military feelings that the hut evokes. Other changes to the surrounding environment have occurred, and the hut has lost its integrity of feeling. The Salt Lake Alignment would not affect the hut's integrity of feeling.

*Association:* No Effect. The hut has a high level of integrity of association. It continues to demonstrate its role in the support of naval efforts at Pearl Harbor. The Salt Lake Alignment would not affect any of the property's historically significant physical features. The Salt Lake Alignment also would not alter the hut's integrity of association, which is directly related to the structure and not its surrounding environment.



**Figure F-9. Quonset Hut X-24 at Navy Public Works**



**Figure F-10. Quonset Hut X-24 at Navy Public Works, facing mauka along Salt Lake Boulevard; property on left**



**Figure F-11. Quonset Hut X-24 at Navy Public Works, facing 'Ewa from Salt Lake Boulevard/Maluna Street intersection to property**

## **F.6 Āliamanu Pumping Station**

TMK 11021018  
3902 Salt Lake Boulevard

### ***Property description***

The Āliamanu Pumping Station, built in 1953, is a reinforced concrete structure with a flat roof; a large tank is also located on the property. Although the property has a Salt Lake Boulevard address, it is reached via Likini Street. The elevation that faces Likini Street has modest concrete walls that show the imprint of the forms used to construct them, and two low integral planters flank the building. The original building has been altered by the removal of glazed sections that have been replaced by a plywood panel. A coursed Arizona sandstone wall that has been painted green also faces Likini Street. Original signage has been removed. Retaining walls are integrated into the site's sloping topography. The property is eligible under Criterion C as an example of the work of the architectural firm Wood, Weed, and Associates that displays elements of the International Style of architecture.

### ***Project description in vicinity of property***

The Salt Lake Alignment would be located on Salt Lake Boulevard, makai of the Āliamanu Pumping Station (see Figure F-12 and Drawing HP026 in Appendix A). The edge of the guideway would be approximately 50 feet from the edge of the property's NRHP boundary and the building. The guideway in this area would be elevated approximately 50 feet above the grade of Salt Lake Boulevard. The Āliamanu Pumping Station is located on a high topographical area.

### ***Application of criteria of adverse effect***

*Summary Finding:* The Salt Lake Alignment would have No Adverse Effect on the Āliamanu Pumping Station. Construction of the guideway would not adversely affect the property's integrity, although the Salt Lake Alignment would introduce new elements into areas outside the property's NRHP boundary. The guideway would not be visible from the pump station, although it would be visible from the rear property boundary where the tank is located. However, the tank is not mentioned as a contributing resource in the determination of eligibility form.

*Location:* No Effect. The property retains integrity of location and this would not be altered by the Project. The building would remain in its current location.

*Design:* No Effect. The property retains a low level of integrity of design. The replacement of character-defining glass panes with plywood and the painting of the sandstone wall substantially altered the original design and the architect's intent for the building. The Salt Lake Alignment would not alter the remaining integrity of design, and all project-related work would occur outside the building's NRHP boundaries.

*Setting:* No Adverse Effect. The property is located in an area of high topography. Views from the building to the project area would be over the guideway. The setting is not a primary feature of the building, which is oriented toward Likini Street and not toward the Project. The setting of the pumping station does not contribute to its NRHP eligibility. The tank, not established as a contributing feature on the determination of eligibility form, is utilitarian in nature and its views are not a significant feature of the resource. Because the guideway would introduce a new element into the pumping station's setting, there would be an effect, but these changes would result in a determination of no adverse effect to the setting.

*Materials:* No Effect. The property retains a low level of integrity of materials due to the removal of glass panes that were replaced by plywood and the repainted sandstone wall. The Salt Lake Alignment would not alter the current integrity of materials. All project work would occur outside the pumping station's NRHP boundary, and the Salt Lake Alignment would not affect the pumping station's integrity of materials.

*Workmanship:* No Effect. The property retains low levels of integrity of workmanship due to the previously discussed changes. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property's historic elements. No project activity would occur within the property's NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* No Adverse Effect. The property has a low level of integrity of feeling. The numerous changes to the property have altered this aspect of integrity, and its location within a residential area with numerous recently constructed houses has also diminished the integrity of feeling. The Salt Lake Alignment would introduce a new component into the adjacent setting. However, this would not adversely affect the pumping station's integrity of feeling.

*Association:* No Effect. The property has a moderate level of integrity of association, ironically because of the tank, which was not considered as a contributing resource in the determination of eligibility. It continues to demonstrate its role as part of the water supply system within O'ahu despite changes to the small station building. The Salt Lake Alignment would not affect any of the property's historically significant physical features. The Salt Lake Alignment would not alter this integrity of association, which is directly related to the building and not its surrounding environment.



**Figure F-12. Āliamanu Pumping Station**



***Figure F-13. Āliamanu Pumping Station,  
facing ‘Ewa from Likini Street to property***

## **F.7 Salt Lake Duplexes Historic District**

Salt Lake Boulevard, between Wanaka Street and Likini Place

### ***Property description***

The Salt Lake Duplexes Historic District contains multiple residential duplexes constructed during the 1950s. Most are of frame construction, many with hipped roofs. Built as Title IX housing for use as military residences and located off of Pearl Harbor Naval Base, these residences are modest examples of domestic buildings. The district was determined to be eligible under Criterion A for its role in the early development of Title IX housing and subsequent real estate history patterns on O'ahu. The district is also eligible under Criterion C as the largest concentration of duplexes in Honolulu.

### ***Project description in vicinity of property***

The Salt Lake Alignment would be located on Salt Lake Boulevard directly makai of the Salt Lake Duplexes Historic District (see Figure F-14 and Drawing HPO27 in Appendix A). The edge of the guideway would be approximately 75 feet from the edge of the district's NRHP boundary. The guideway in this area would be elevated approximately 35 to 50 feet above grade.

### ***Application of criteria of adverse effect***

*Summary Finding:* The Salt Lake Alignment would have an Adverse Effect on the Salt Lake Duplexes Historic District. Construction of the guideway would adversely affect the district's integrity of setting because of its proximity to the contributing resources within the district's historic boundary. The guideway would be visible from all contributing resources that face Salt Lake Boulevard.

*Location:* No Effect. The Salt Lake Duplexes Historic District retains integrity of location, and this would not be altered by the Salt Lake Alignment. The contributing residences would remain in their current location.

*Design:* No Effect. The Salt Lake Duplexes Historic District retains a high level of integrity of design. Overall, the scale and form of the 1950s residences is intact, which is unusual in Honolulu where many of these types of buildings are raised to accommodate an additional floor. The Salt Lake Alignment would not alter the integrity of design, and all project-related work would occur outside the district's NRHP boundaries.

*Setting:* Adverse Effect. The Salt Lake Duplexes Historic District is located in a residential area where Salt Lake Boulevard, which is multi-lane in other areas, narrows to a two-lane roadway. While many other areas within the proposed project location have become increasingly developed over the past six decades, the Salt Lake Duplexes Historic District's setting has retained a high degree of integrity. The guideway would be close to the houses facing Salt Lake Boulevard, and because of the houses' orientation, their facades would face the Project. Because of the high

level of integrity of setting and the residential nature of both the district and the greater setting, implementation of the Salt Lake Alignment would result in an adverse effect to the setting of the Salt Lake Duplexes Historic District.

*Materials:* No Effect. The contributing resources within the Salt Lake Duplexes Historic District retain a high level of integrity of materials. The Salt Lake Alignment would not alter the current integrity of materials. All project work would occur outside the NRHP boundary, and thus the Salt Lake Alignment would not affect the integrity of materials.

*Workmanship:* No Effect. The Salt Lake Duplexes Historic District retains integrity of workmanship. Construction of the Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property's historic elements. No project activity would occur within the district's NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the district's integrity of workmanship.

*Feeling:* Adverse Effect. The Salt Lake Duplexes Historic District has a moderately high level of integrity of feeling. The district retains its residential appeal, most notably with Salt Lake Boulevard narrowing from a multi-lane road to a two-lane road in front of the contributing houses. The Salt Lake Alignment would introduce a new component into the adjacent setting and would adversely affect the Salt Lake Duplexes Historic District's integrity of feeling.

*Association:* No Adverse Effect. The Salt Lake Duplexes Historic District has a high level of integrity of association. It continues to demonstrate its role as additional off-site military housing in Pearl Harbor's post-war mission. The Salt Lake Alignment would not affect any of the property's historically significant physical features. The Project would not alter integrity of association, which is directly related to the buildings and not their surrounding environment. Although the guideway would alter the district's setting, the district would still be easily interpreted as a residential development.



**Figure F-14. Salt Lake Duplexes Historic District**



**Figure F-15. Salt Lake Duplexes Historic District, facing makai/Koko Head from Wanaka Street along Salt Lake Boulevard, property on left**



**Figure F-16. Salt Lake Duplexes Historic District, facing Koko Head from Wanaka Street along Salt Lake Boulevard, property on left**



**Figure F-17. Salt Lake Duplexes Historic District, facing mauka/'Ewa from Likini Place along Salt Lake Boulevard, property on right**



**Figure F-18. Salt Lake Duplexes Historic District, facing mauka/'Ewa from Likini Place along Salt Lake Boulevard, property on right**



## **F.8 First Hawaiian Bank, Māpunapuna Branch**

TMK 11007036

1000 Mapunapuna Street

### ***Property description***

The First Hawaiian Bank, Mapunapuna Branch, is a masonry building constructed according to Modern architectural principles. It is rectangular, with a flat roof and aggregate walls. Tall marble panels function as sunscreens. The building sits on a graded lot that is in a low topographic area. The lot is landscaped with numerous lush shrubs and trees. The building's interior retains original materials and artwork. It was built in 1969 and was designed by Haydn Phillips and won an American Institute of Architect's award from the local chapter. The bank is eligible under Criterion C as an example of modern bank design in Hawai'i.

### ***Project description in vicinity of property***

The Salt Lake Alignment would be located on Salt Lake Boulevard and Pukoloa Street directly makai of the First Hawaiian Bank, Mapunapuna Branch (see Figure F-19 and Drawing HP028 in Appendix A). The edge of the guideway would be approximately 30 to 50 feet from the edge of the property's NRHP boundary and approximately 100 feet from the building. The guideway in this area would be elevated approximately 50 feet above grade. The bank is located in a low topographical area, and the proposed guideway would be located substantially above the building's ridgeline. Vegetation would also screen the building from the Project.

### ***Application of criteria of adverse effect***

*Summary Finding:* The Salt Lake Alignment would have No Adverse Effect on the First Hawaiian Bank, Māpunapuna Branch. Construction of the guideway would not adversely affect the property's integrity, although the Salt Lake Alignment would introduce new elements into areas outside the property's NRHP boundary. The guideway would be minimally visible from the building due to vegetation cover and large variations in topography between the bank and the guideway.

*Location:* No Effect. The bank retains integrity of location that would not be altered by the Project. The building would remain in its current location.

*Design:* No Effect. The bank retains a high level of integrity of design. The Salt Lake Alignment would not alter the integrity of design, and all project-related work would occur outside the building's NRHP boundaries.

*Setting:* No Adverse Effect. The bank is in an area of low topography. It is surrounded by light industrial buildings, new construction, and busy roadways that are not in character with the bank's historic setting. Therefore, the integrity of setting has already been substantially altered. Select views from the building to the project area would be beneath the guideway, although supporting columns may be visible.

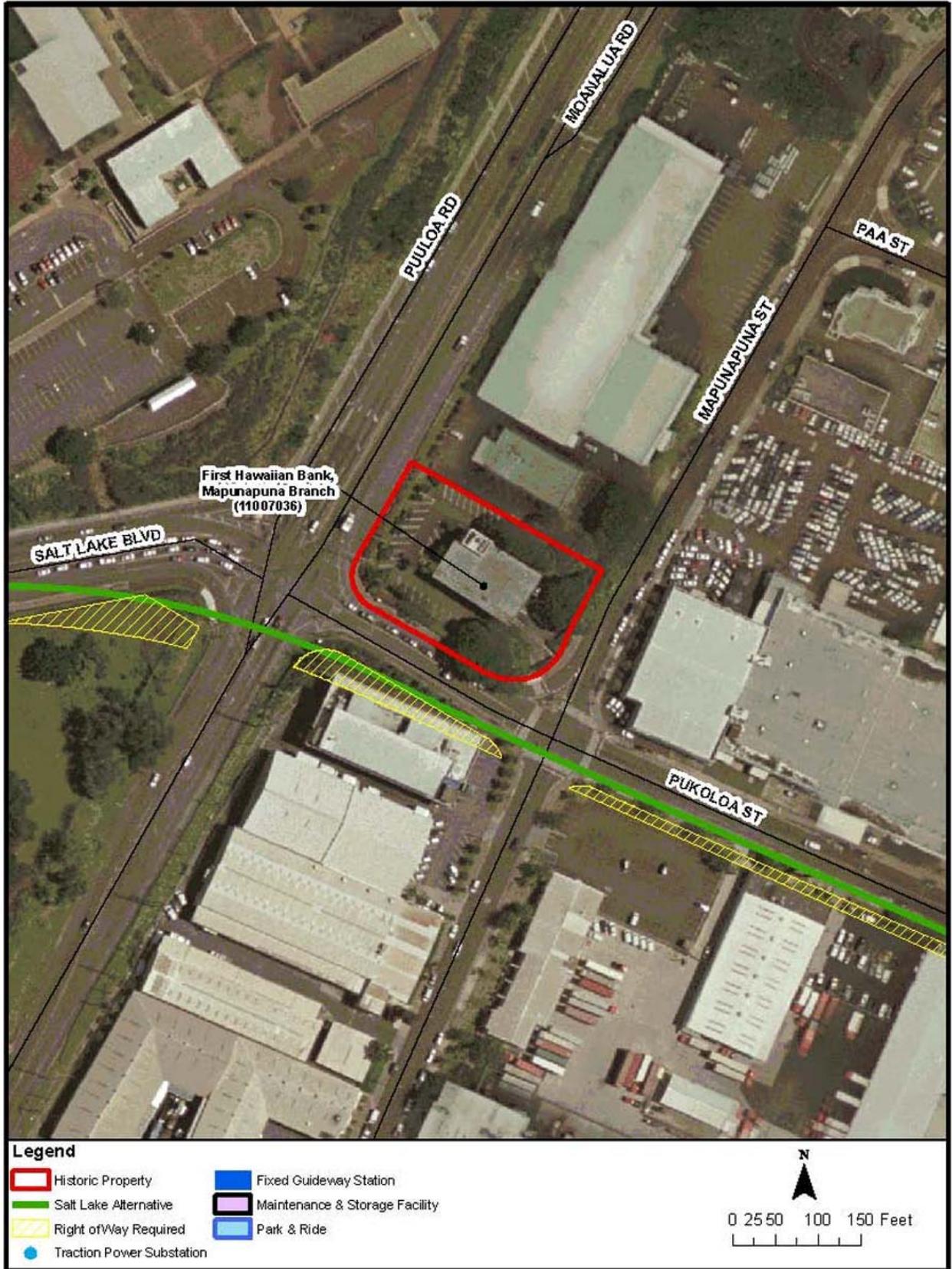
The bank's setting contains substantial lush vegetation that would screen interior and exterior views to the Project. Furthermore, no audible or atmospheric effects to this property were identified. Because the Salt Lake Alignment would introduce a new element into the bank's setting, there would be an effect, but these changes would result in a determination of no adverse effect to the setting because of vegetation and topography that screen the project area from the resource.

*Materials:* No Effect. The bank retains a high level of integrity of materials. The Salt Lake Alignment would not alter the bank's current integrity of materials. All project work would occur outside the bank's NRHP boundary, and the Salt Lake Alignment would not affect the bank's integrity of materials.

*Workmanship:* No Effect. The bank retains integrity of workmanship. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property's historic elements. No project activity would occur within the property's NRHP boundary. Therefore, the Salt Lake Alignment would have no effect on the property's integrity of workmanship.

*Feeling:* No Adverse Effect. The bank has a high level of integrity of feeling. It conveys its origins as a late-1960s financial institution. The Salt Lake Alignment would introduce a new component into the adjacent setting. However, this would not adversely affect the bank's integrity of feeling because of previous changes to the area and screening from topography and vegetation.

*Association:* No Effect. The bank has a high level of integrity of association. It continues to demonstrate its role as a modern bank. The Salt Lake Alignment would not affect any of the property's historically significant physical features nor would it alter the bank's integrity of association, which is directly related to the building itself and not the surrounding environment.



**Figure F-19. First Hawaiian Bank, Māpunapuna Branch**



**Figure F-20. First Hawaiian Bank, Māpunapuna Branch, facing ‘Ewa along Pūkōloa Street from Māpunapuna Street.; property on right**



**Figure F-21. First Hawaiian Bank, Māpunapuna Branch, facing ‘Ewa from property to Pu‘uloa Road/Salt Lake Boulevard intersection**

**F.9 Gaspro Store**  
TMK 12013007  
2323 Kamehameha Highway

***Property description***

The Gaspro Store is a two-story office and retail building constructed in 1958. The property was determined eligible for the NRHP under Criterion C as an example of a distinctive creative application of the International style and for its use of prestressed concrete floor planking.

***Project description in vicinity of property***

The Salt Lake Alignment would include construction of an elevated, fixed-guideway rail structure and transit station platform in the median of Kamehameha Highway mauka of the Gaspro Store building (see Figure F-22 and TMK as shown on Drawing HP030 in Appendix A). The makai edge of the guideway would be approximately 100 to 125 feet from the mauka edge of the NRHP boundary and approximately 150 to 175 feet from the building. The guideway in this area would be elevated approximately 45 feet above grade. The design of the station in this area would correspond to the plan and typical section illustrated as Figures C-2 and C-8 in Appendix C.

***Application of criteria of adverse effect***

*Summary finding:* Based on the evaluation below, the Salt Lake Alignment would have **No Adverse Effect** to the Gaspro Store.

*Location:* No Effect. The Salt Lake Alignment would not cause the property's removal from its historic location. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of location.

*Design:* No Effect. The Salt Lake Alignment would not alter any of the property's design elements or features. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of design.

*Setting:* No Adverse Effect. This property does not retain integrity of setting, and its setting was not identified as a historically significant feature. Non-historic industrial and commercial properties are located mauka, 'Ewa, and makai. Existing elevated structures include tall utility transmission poles carrying multiple transmission lines along the mauka edge of the roadway. These properties and features within the building's setting and viewshed do not contribute to its historic significance. Furthermore, no historically significant viewsheds to or from this property were identified. The Salt Lake Alignment would introduce an elevated, fixed guideway rail structure and transit station platform mauka of the property and within the center of the adjacent heavily travelled Kamehameha Highway alignment. These structures

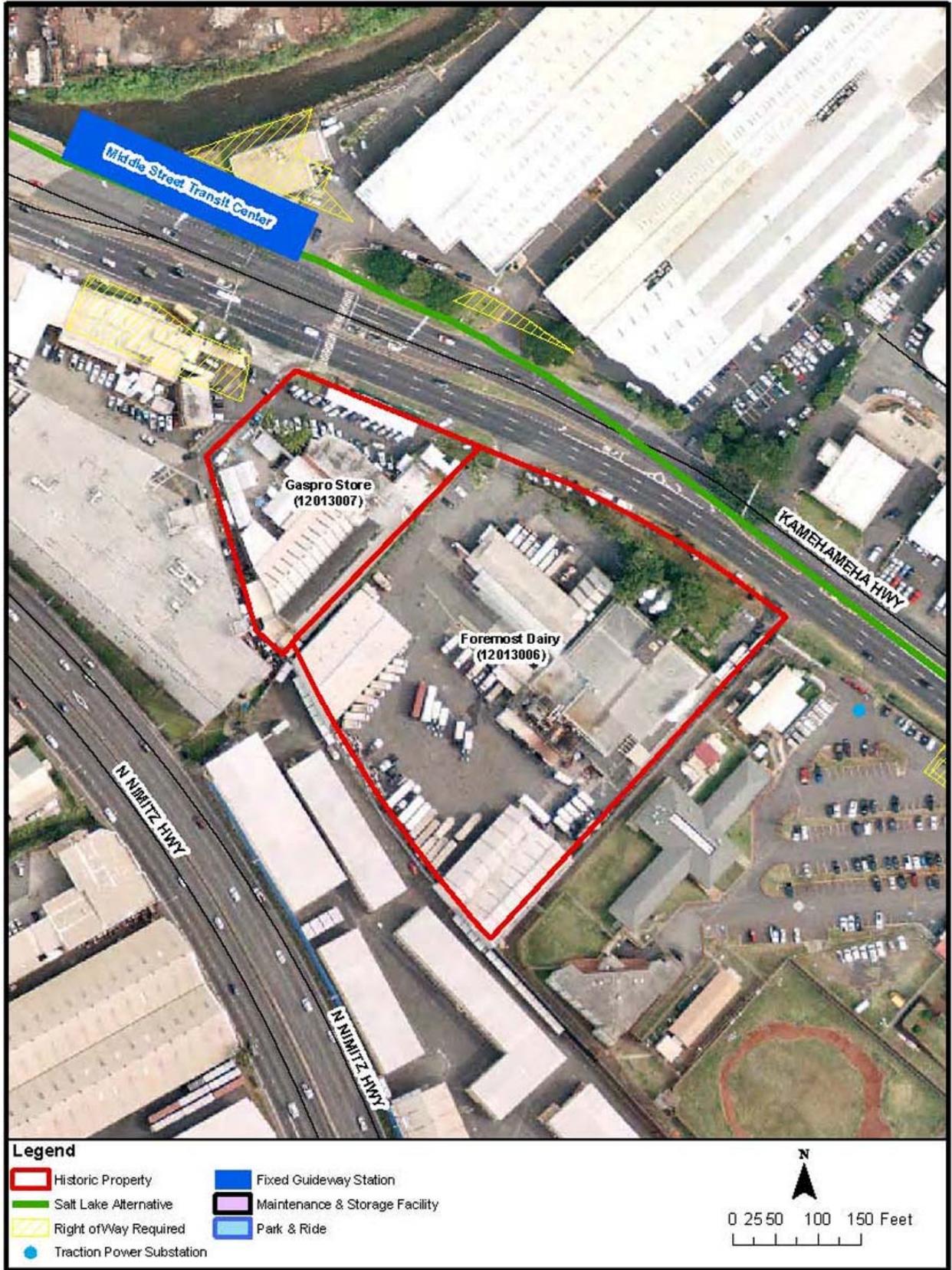
would be visible from the mauka portion of the property. Although the guideway's construction would introduce a new component to the property's setting and viewshed, the presence of the guideway would not alter any historically significant views or visual features. Furthermore, no audible or atmospheric effects to this property were identified. Therefore, because the property does not retain integrity of setting and no historically significant or visual features within the property's setting were identified, the Project would have no adverse effect to the property's integrity of setting.

*Materials:* No Effect. The Salt Lake Alignment would not alter any physical elements that comprise the property. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of materials.

*Workmanship:* No Effect. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* No Effect. The Salt Lake Alignment would not affect any of the property's physical features or diminish the property's expression of its historic character. No project activity would occur within the NRHP boundary that would alter its historic character as a mid-20th-century commercial building. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of feeling.

*Association:* No Effect. The Salt Lake Alignment would not affect any of the property's physical features or obscure or interrupt any historically significant visual features. No project activity would occur within the NRHP boundary that would obscure its historic appearance to an observer as a mid-20th-century commercial building. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of association.



**Figure F-22. Gaspro Store**



**Figure F-23. Gaspro Store, facing mauka/'Ewa from property to Kamehameha Highway**



**Figure F-24. Gaspro Store, facing mauka/Koko Head from property to Kamehameha Highway**

## **F.10 Foremost Dairy**

TMK 12013006  
2277 Kamehameha Highway

### ***Property description***

The Foremost Dairy is a two-story, International-style building and dairy complex constructed in 1957. The property was determined eligible for the NRHP under Criterion A for its association with the development of the dairy industry on O'ahu and under Criterion C as an example of an International-style building with distinctive Hawaiian detailing.

### ***Project description in vicinity of property***

The Salt Lake Alignment would include construction of an elevated, fixed-guideway rail structure in the median of Kamehameha Highway mauka of the Foremost Dairy (see Figure F-25 and TMK as shown on Drawing HP0030 in Appendix A). The makai edge of the guideway would be approximately 40 to 100 feet from the mauka edge of the NRHP boundary and approximately 125 to 150 feet from the building. The guideway in this area would be elevated approximately 40 to 45 feet above grade.

### ***Application of criteria of adverse effect***

*Summary finding:* Based on the evaluation below, the Salt Lake Alignment would have **No Adverse Effect** to the Foremost Dairy.

*Location:* No Effect. The Salt Lake Alignment would not result in the property's removal from its historic location. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of location.

*Design:* No Effect. The Salt Lake Alignment would not alter any of the property's design elements or features. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of design.

*Setting:* No Adverse Effect. This property does not retain integrity of setting, and the property's setting was not identified as a historically significant feature. Non-historic industrial, commercial, and institutional properties are located mauka, Koko Head, and makai. Existing elevated structures include tall utility transmission poles carrying multiple transmission lines along the mauka edge of the roadway. These properties and features within the property's setting and viewshed do not contribute to the historic significance of this property. Furthermore, no historically significant viewsheds to or from this property were identified. The Salt Lake Alignment would introduce an elevated, fixed guideway rail structure mauka of the property and within the center of the adjacent Kamehameha Highway alignment that would be visible from the mauka portion of the property. Although the guideway's construction would introduce a new component to the setting and viewshed, the presence of the

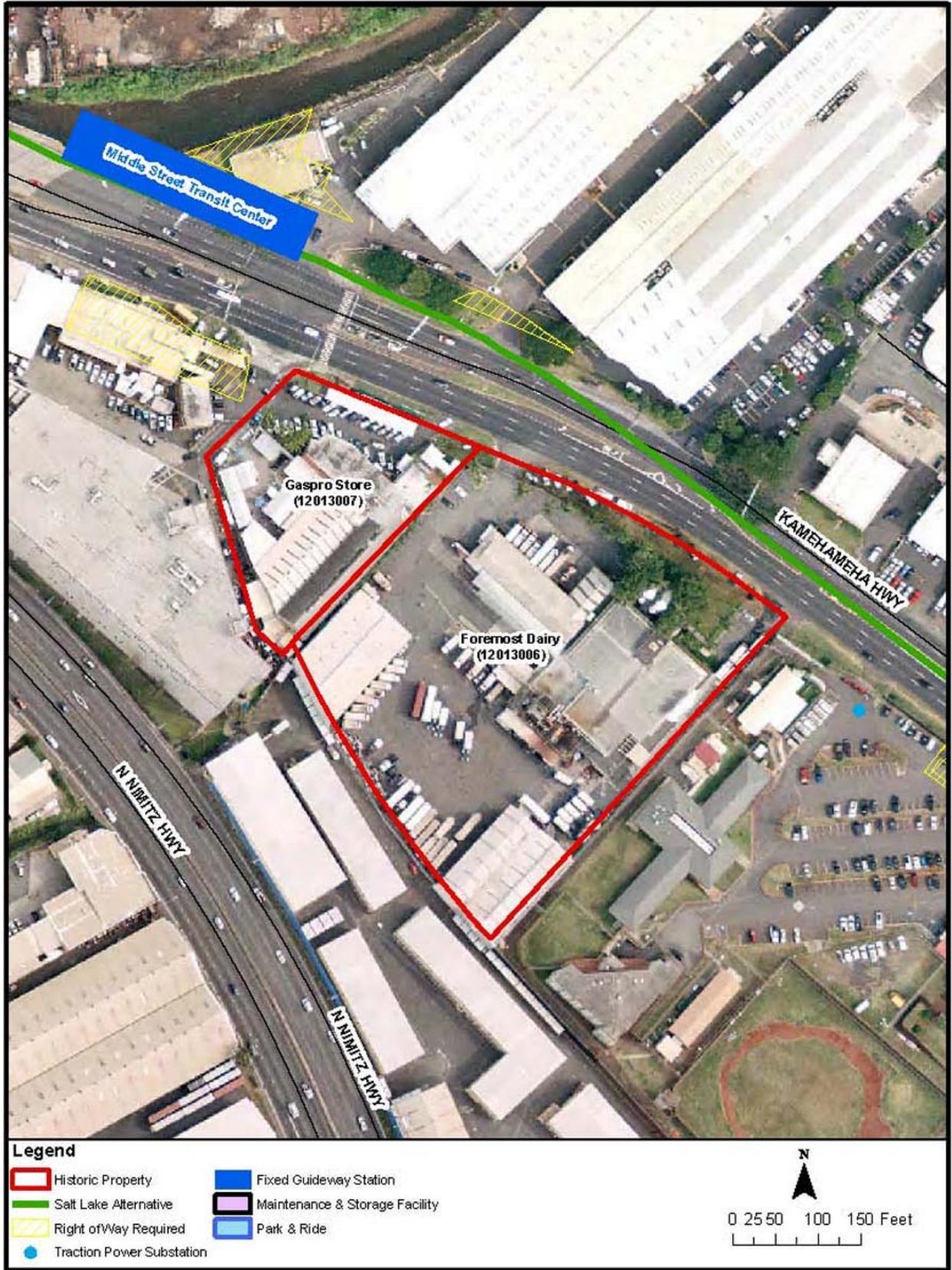
guideway would not alter any historically significant views or visual features. Furthermore, no audible or atmospheric effects to this property were identified. Therefore, because the property does not retain integrity of setting and no historically significant or visual features within the property's setting were identified, the Salt Lake Alignment would have no adverse effect to the property's integrity of setting.

*Materials:* No Effect. The Salt Lake Alignment would not alter any physical elements that comprise the property. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of materials.

*Workmanship:* No Effect. The Salt Lake Alignment would not affect any characteristics or features related to the workmanship used to create the property. No project activity would occur within the NRHP boundary. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of workmanship.

*Feeling:* No Effect. The Salt Lake Alignment would not affect any of the property's physical features or diminish the property's expression of its historic character. No project activity would occur within the NRHP boundary that would alter its historic character as a mid-20th-century dairy complex. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of feeling.

*Association:* No Effect. The Salt Lake Alignment would not affect any of the property's physical features or obscure or interrupt any historically significant visual features. No project activity would occur within the NRHP boundary that would obscure its historic appearance to an observer as a mid-20th-century dairy complex. Therefore, the Salt Lake Alignment would have no effect to the property's integrity of association.



**Figure F-25. Foremost Dairy**



**Figure F-26. Foremost Dairy, facing mauka/‘Ewa from property to Kamehameha Highway**



**Figure F-27. Foremost Dairy, facing mauka from property to Kamehameha Highway**