



Acknowledgments

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Table of Contents

1. EXECUTIVE SUMMARY	5
2. STUDY PURPOSE	8
3. PRECEDENT PROJECTS	10
4. EXISTING CONDITIONS	11
5. MARKET ASSESSMENT	21
6. ALIGNMENT ALTERNATIVES	23
7. MOST FEASIBLE ALTERNATIVE	34
8. SHUTTLE ALTERNATIVE ANALYSIS	42
9. CONCLUSIONS AND RECOMMENDATIONS	45

Appendices

APPENDIX A: PRECEDENT PROJECTS

APPENDIX B: MARKET ASSESSMENT

APPENDIX C: ROPEWAY SUPPLIER COST ESTIMATES

Tables

Table 4-1. SFMTA Ridership Data	13
Table 4-2. Hospital Occupancy Data	13
Table 5-1. Summary of Peak Hour Shuttle/Gondola Demand Estimates	22
Table 6-1. Alignment Alternatives Evaluation Summary	33
Table 7-1. Rough Order of Magnitude Cost Estimate Summary	41

Figures

Figure 2-1. Study Area Limits	8
Figure 2-2. Future Land Use	9
Figure 4-1. Site Visit Photos	11
Figure 4-2. Collision Analysis Map	12
Figure 4-3. Percentage Breakdown of Trips with an Origin or Destination in the Study Area (Replica)	14
Figure 4-4. Replica Trip Distribution by Time of Day	15

Figure 4-5. Existing Conditions Map	16
Figure 4-6. Opportunities and Constraints Maps	18
Figure 4-7. Opportunities and Constraints	19
Figure 4-8. Opportunities and Constraints	20
Figure 6-1. Alternative 1A Site Map	24
Figure 6-2. Alternative 1B Site Map	25
Figure 6-3. Alternative 2A Site Map	27
Figure 6-4. Alternative 2B Site Map	28
Figure 6-5. Alternative 2C Site Map	30
Figure 6-6. Alternative 2D Site Map	31
Figure 6-7. Gondola System Future Extension Alignment	32
Figure 7-1. Potential Northern Alignment	35
Figure 7-2. Potential Southern Alignment	36
Figure 7-3. Most Feasible Southern Alternative Horizontal Alignment	37
Figure 7-4. Most Feasible Southern Alternative Vertical Alignment	38
Figure 7-5. Most Feasible Southern Alternative Vertical Alignment	39
Figure 8-1. Existing Shuttle Service	42

1. Executive Summary

The Laguna Honda Gondola Feasibility Study evaluates whether an aerial gondola could provide a safe, ADA-accessible, and reliable connection between the Forest Hill Muni Metro Station (Station) and the Laguna Honda Hospital and Rehabilitation Center (Hospital) which is being planned for future residential development. Today, steep topography, an indirect ADA accessible pedestrian route, and traffic volumes on Laguna Honda Boulevard create significant barriers for hospital staff, residents, patients, and visitors traveling between these two sites. This study was initiated at the request of Transportation Authority Chair and District 7 Commissioner Myrna Melgar to help assess mobility options to support future development.

To assess the viability of a gondola connection, the study team analyzed existing conditions that include a shuttle service provided and supported by the Hospital (with monthly ridership of ~2,500), reviewed precedent systems from elsewhere, considered future travel demand, and developed and compared six potential alignment alternatives. The feasibility analysis incorporated site visits; collision, transit, and shuttle ridership data; hospital growth plans; and information about historic resources.

1.1 DEMAND ANALYSIS

For the demand analysis, the study team used Replica, an activity-based travel demand platform that applies a disaggregate travel forecasting framework to simulate individual and household daily activity patterns and derive resulting travel behavior from large-scale anonymized mobility data. The study team evaluated two scenarios – an existing demand scenario assumes that approximately 10% of transit and walking trips would use the gondola, reflecting current shuttle ridership patterns. A higher mode share scenario assumes that approximately 20% of transit and walking trips would use the gondola. The resulting potential demand is approximately 135 - 270 average weekday trips today, increasing to approximately 195 - 390 trips by 2030 with planned development on the Hospital campus. Approximately 70% of this demand is associated with the Hospital Pavilion Building, where most residents and staff are located and an additional 460 staff are expected to be located.

1.2 ALIGNMENT EVALUATION

Six alignment alternatives were developed based on potential launch points near the Station and potential landing points at the Hospital. Alternatives were evaluated for constructability, utility conflicts, environmental constraints, accessibility, and ability to serve primary demand. The analysis identified an alignment serving the Hospital Pavilion Building as the most feasible option, offering the best balance of demand served, constructability, and minimizing conflicts with utilities, trees, and historic resources.

1.3 COST ASSESSMENT

The study team developed rough order-of-magnitude cost estimates, informed by two ropeway manufacturers and civil infrastructure assumptions. The analysis estimates a total implementation cost of approximately \$23 million in year of expenditure dollars, which is assumed to be 2028 for soft costs and 2030 for capital costs, with annual operations and maintenance costs of approximately \$2 million per year, including an on-board attendant on the gondola, for 10 years, starting in 2030.

1.4 SHUTTLE COMPARATIVE ANALYSIS

The current shuttle services have an annual cost of \$300,000. Comparative analysis of the gondola system and shuttle alternative yielded the following findings:

- **Cost:** The gondola option carries a significant cost premium – estimated at ~7x over a 20 year lifecycle – compared with a shuttle service.
- **Capacity:** While a gondola would provide twice the capacity of the shuttle, the shuttle service would generally have adequate capacity to serve future demand growth scenarios resulting from planned Hospital growth. Peak hour conditions under the higher-growth scenario or additional non-Hospital trip growth may strain shuttle capacity and warrant additional demand management strategies (e.g. carpool incentives) or shuttle services.
- **Service coverage:** The shuttle provides door-to-door service to multiple buildings. The gondola drops passengers at the end of the hospital steps, requiring an additional walk to reach individual buildings.
- **Frequency:** The gondola's five-minute cycle compares favorably to the shuttle's 15- to 20-minute cycle. However, gondola walk times to final destinations might make total times closer to equal.

1.5 KEY FINDINGS

- A gondola connection is technically feasible and could provide a fully accessible, grade-separated link between the Station and Hospital.
- The most feasible alignment minimizes utility conflicts and directly serves the Pavilion Building, the Hospital's highest-demand destination.
- Travel demand is driven primarily by growth in anticipated Hospital staff and residents. There is some potential for induced gondola demand from non-Hospital trips (serving nearby neighborhoods or Twin Peaks scenic areas), which this study did not assess.

-
- Capital and operating costs are significant for serving projected ridership with a gondola, in comparison with lower-cost mobility services such as shuttles and transportation demand management (TDM) strategies.
 - While a gondola would provide significantly more capacity, a shuttle system would generally have the ability to serve planned Hospital trip growth more cost effectively, though peak-hour conditions or additional non-Hospital trip growth may warrant additional demand management strategies (e.g. carpool incentives) or shuttle services.
 - The study's documentation of key gondola design parameters, planning factors and lifecycle costs can inform longer-distance gondola systems planning, if applicable elsewhere in the future.

1.6 HOSPITAL AND MOBILITY PROGRAM OUTREACH

Given the technical nature of this study, the main outreach tasks were limited to consulting hospital administrators, shuttle service providers and transportation staff at partner agencies. The study team also conducted cost research with gondola suppliers.

1.7 CONCLUSION

Following development of the gondola alignment and system concept, demand projections and capital and operating cost estimates and a conceptual evaluation of the shuttle alternative, the study team concludes that the gondola is a less cost-effective solution than developing shuttle and TDM strategies, and does not recommend further study of a gondola concept for the Laguna Honda site.

While the Study confirms that a gondola system is technically feasible, its relatively high capital and operating costs for the short distance at this location makes alternative mobility solutions – such as enhanced shuttle service paired with effective demand management programs – the more cost-effective approach to supporting future growth at the Laguna Hospital and residential development sites at this time.

2. Study Purpose

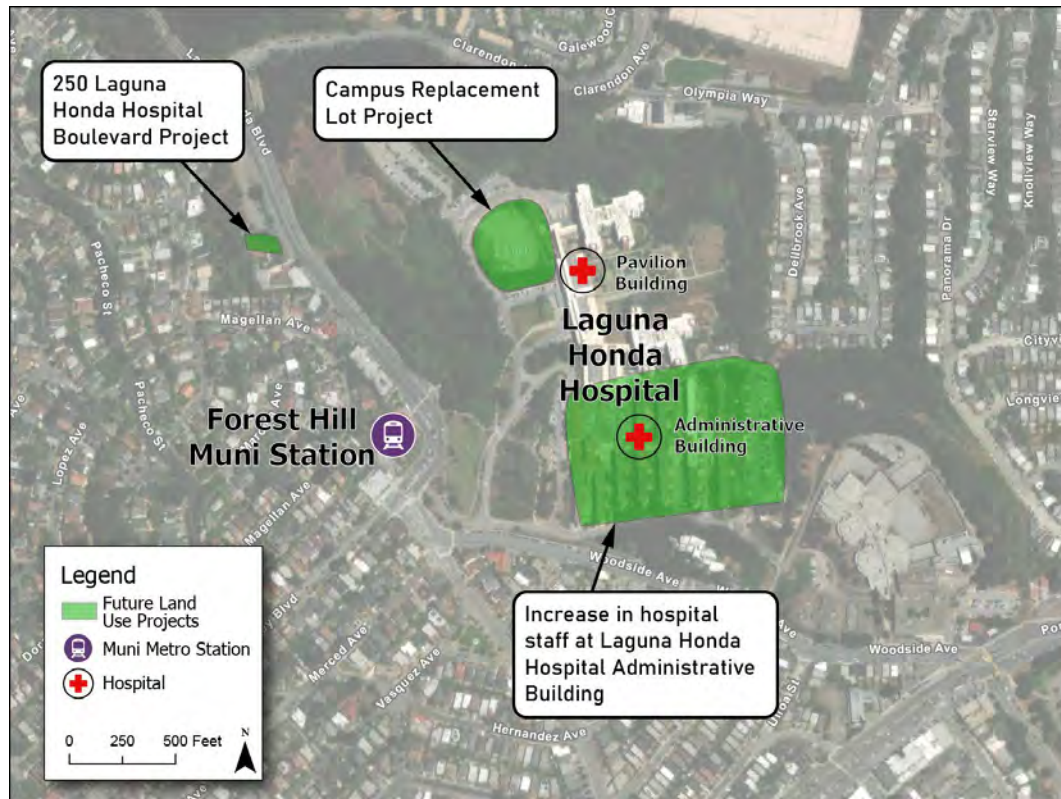
The purpose of this Laguna Honda Gondola Feasibility Study is to explore the feasibility of an aerial gondola system as a potential way to enhance ADA access and improve first- and last-mile connectivity between the Forest Hill Muni Metro Station (Station) and Laguna Honda Hospital and Rehabilitation Center (Hospital) in the Forest Hill neighborhood of San Francisco, supporting current demand and future residents and visitors as anticipated with planned growth. The proposed gondola would connect the Station – a key transit hub – with the Hospital, addressing significant accessibility challenges created by steep topography and the heavily trafficked Laguna Honda Boulevard.

In addition to serving hospital staff, patients, and visitors, the gondola could improve access to the proposed affordable senior housing development at the Laguna Honda Hospital Campus Replacement Lot (Campus Replacement Lot Project) and 460 additional hospital staff. The Study Area includes both the Hospital parcel and the Station parcel (Figure 2-1). Figure 2-2 illustrates future land use, including the Campus Replacement Lot Project.

Figure 2-1. Study Area Limits



Figure 2-2. Future Land Use



This Study provides a planning level evaluation of a proposed gondola system. The study team identified key constraints, opportunities, benefits, and costs associated with a gondola system. We conducted a market assessment to estimate demand, evaluated alignment alternatives to determine the most feasible option based on mobility needs and site constraints, developed conceptual horizontal and vertical alignments for the most feasible alternative, and incorporated cost estimates from two ropeway suppliers.

3. Precedent Projects

Several aerial gondola and ropeway systems operate in urban environments worldwide to address steep terrain, physical barriers, and first- and last-mile connectivity. As part of this Study, we reviewed the following precedent projects to understand how similar systems function in practice, including system length, vertical rise, connectivity to transit, operational characteristics, and costs, the details of which are provided in Appendix A:

- Portland Aerial Tram, Portland, OR
- Hillavator Funicular, Capitola, CA
- Gondolita, Taos, NM
- Numerica SkyRide, Spokane, WA
- Grenoble Bastille, Grenoble, France
- Mexico City Cablebús, Mexico City, Mexico
- Metrocable, Medellín, Colombia

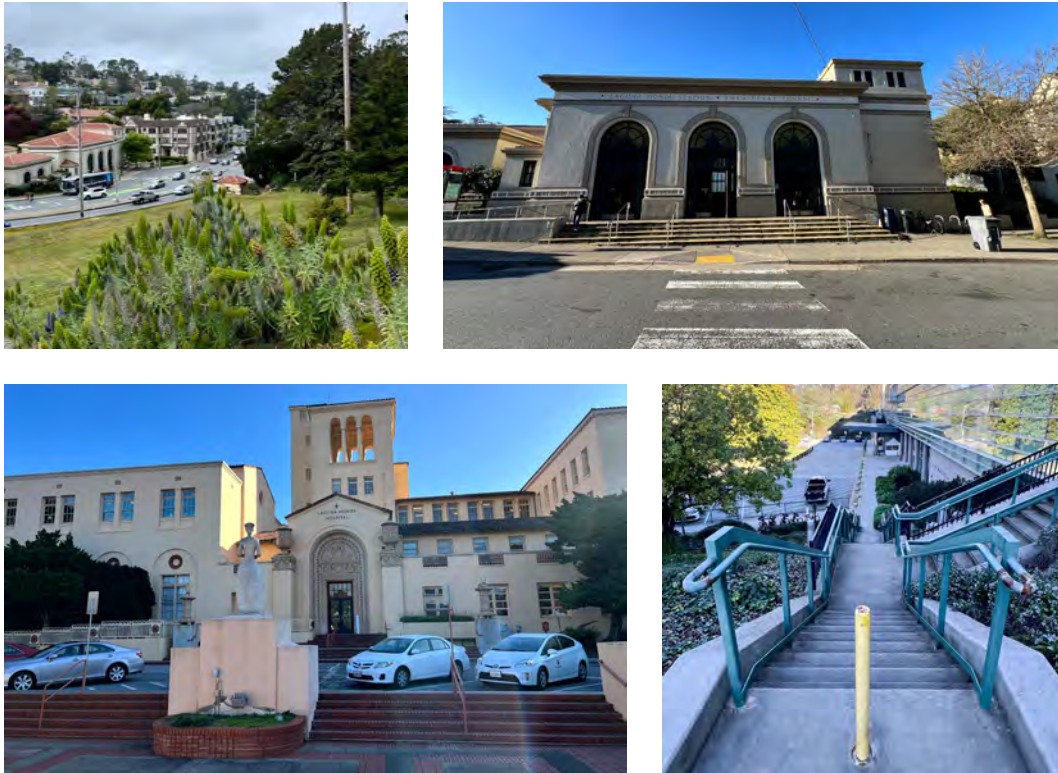
These precedent systems highlight both transportation-focused systems and smaller-scale applications relevant to the Study context and demonstrate that gondolas can function either as localized access solutions or as integrated components of a broader transit network, depending on system scale, alignment, and connectivity.

4. Existing Conditions

4.1 SITE VISIT

On April 23, 2025, the study team conducted a site visit of the Study Area with Transportation Authority and San Francisco Department of Public Health (SFDPH) staff. The study team documented existing pedestrian pathways, site grading, and general site characteristics. Figure 4-1 includes photographs from the site visit.

Figure 4-1. Site Visit Photos



4.2 PLANNING DATA

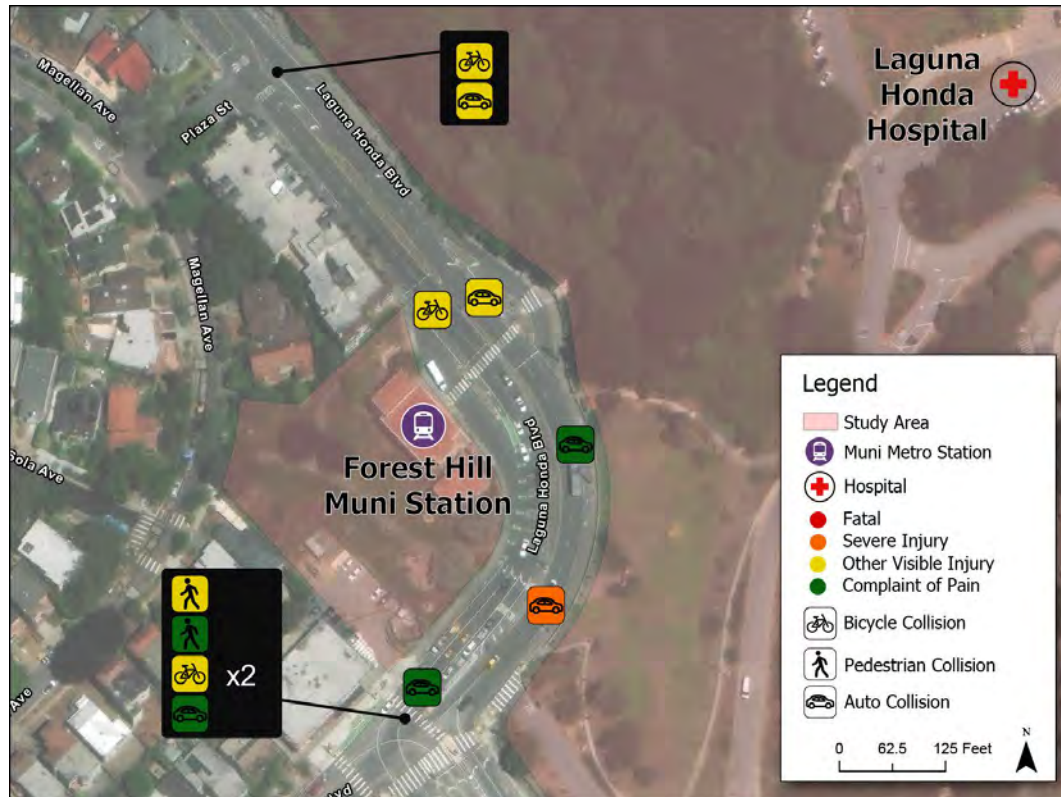
The Team collected data from a variety of sources to document the Study Area's collision history, travel patterns, and hospital staffing. The Team considered the following data to understand existing conditions:

- 10-year collision data
- Existing shuttle service data
- SFMTA ridership data for the Station
- Hospital occupancy data
- Replica data

Collision Data

The Team collected collision data from the City of San Francisco’s Open Data portal for a 10-year period from 2015 – 2024. The analysis identified 12 collisions within the Study Area, including six collisions involving cyclists or pedestrians. Of the 12 crashes, one involving two vehicles resulted in a severe injury. Figure 4-2 maps Study Area crashes by mode and severity.

Figure 4-2. Collision Analysis Map



Shuttle Data

Laguna Honda Hospital and TransMetro currently operate weekday shuttle service between the Hospital and Station. SFPDPH provided ridership data showing average monthly ridership (April 2025 – June 2025) of 719 for the TransMetro shuttle and 1,745 for the Laguna Honda Hospital shuttle.

SFMTA Ridership Data

San Francisco Municipal Transportation Agency (SFMTA) provided transit ridership data for the Station, which the K, L, and M Muni lines serve. SFMTA also provided ridership data for the bus stops adjacent to the Station served by routes 36, 43, 44, and 52. The data included inbound and outbound boardings and alightings.

The data provided included both trips that begin or end in the Study Area as well as transfer trips at the Station. Transfer trips (e.g.: between Muni lines or between a bus and Muni line) are counted twice – as an alighting from one service and a boarding of another service.

Table 4-1. SFMTA Ridership Data

MODE	LINE/ROUTE	BOARDINGS	ALIGHTING
LIGHT RAIL	K	1,048	487
	L	660	657
	M	666	701
	Subtotal	2,374	1,845
BUS	36	154	53
	43	456	410
	44	573	591
	52	356	5
	Subtotal	1,539	1,059
TOTAL		3,913	2,904

Hospital Occupancy Data

SFDPH provided the number of residents and employees in each Hospital building for May 2025, along with the number of visitors to the Hospital during July 2025. Table 4-2 summarizes the number of residents, staff, and visitors.

Table 4-2. Hospital Occupancy Data

	PAVILION	ADMIN	TOTAL
Residents	508*	N/A	508
Staff	737	540	1,277
Monthly Visitors			459

*Existing number of residents; can go up to 649

Replica Data

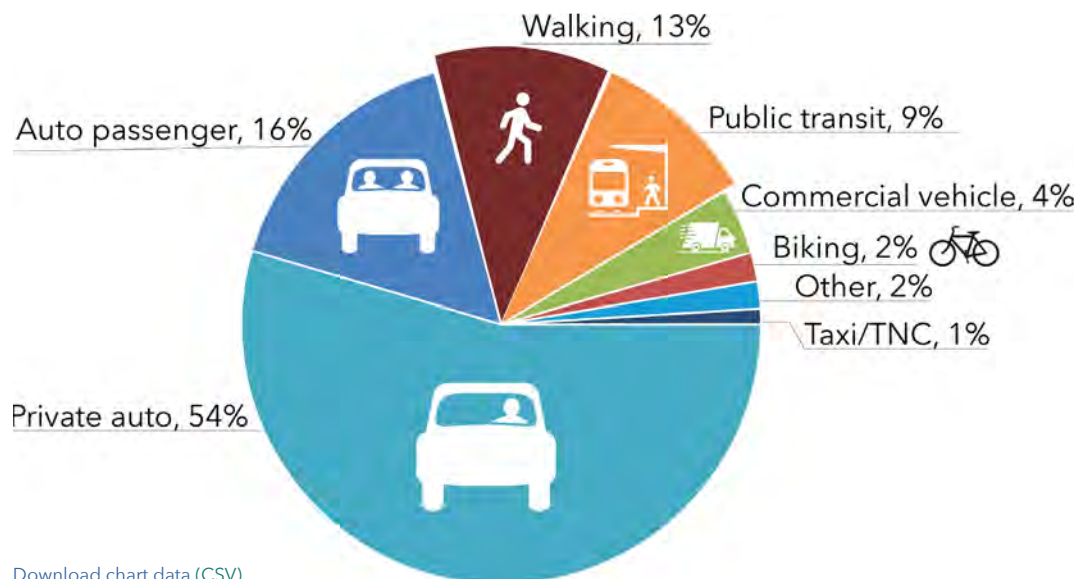
The Team used Replica, an activity-based travel demand model, to analyze trips with an origin or destination within the Study Area, defined as the Laguna Honda Hospital parcel and Forest Hill Muni Station parcel shown in Figure 2-1. Trips that merely pass through the Study Area without beginning or ending within the Study Area were excluded from the analysis. A 'trip' is defined as "a movement by a person between places. A trip begins when a person leaves a place and ends when a person stops to do a non-travel activity in a place."¹ The model estimates approximately 6,200 daily trips to and from the Study Area. Replica data indicates that 60% of trips (3,719 trips) occur within San Francisco, primarily to and from areas north of the Study Area.

In addition to the number of trips taken to and from the Study Area, Replica was used to estimate the number of people traveling to and from the Study Area. The model estimates approximately 1,660 people arriving and 2,110 people departing the Study Area on a typical weekday.

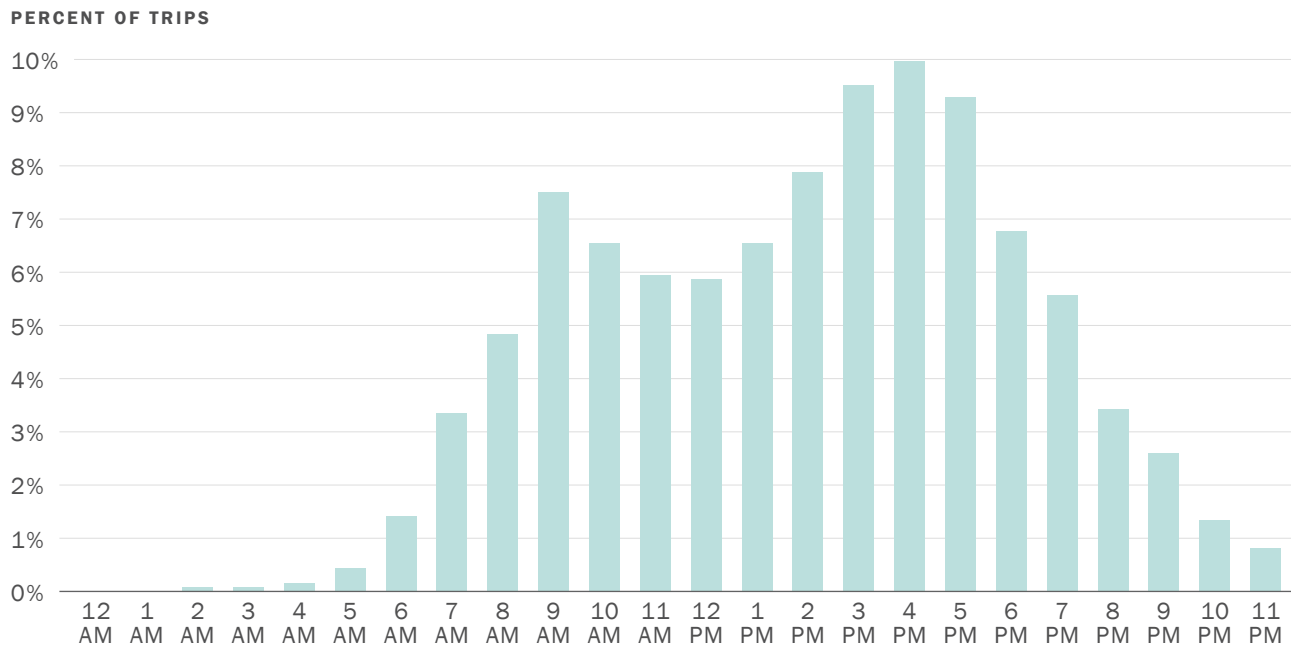
Replica also shows that peak walking and transit activity occurs between 4 p.m. and 5 p.m. when approximately 10% of daily walking and transit trips take place. Figure 4-3 shows the percentage of trips by mode and Figure 4-4 shows trip distribution by time of day.

The Team used Replica data to estimate potential gondola demand, as described in Section 5.

Figure 4-3. Percentage Breakdown of Trips with an Origin or Destination in the Study Area (Replica)



¹ Defined from Replica's methodology

Figure 4-4. Replica Trip Distribution by Time of Day

[Download chart data \(CSV\)](#)

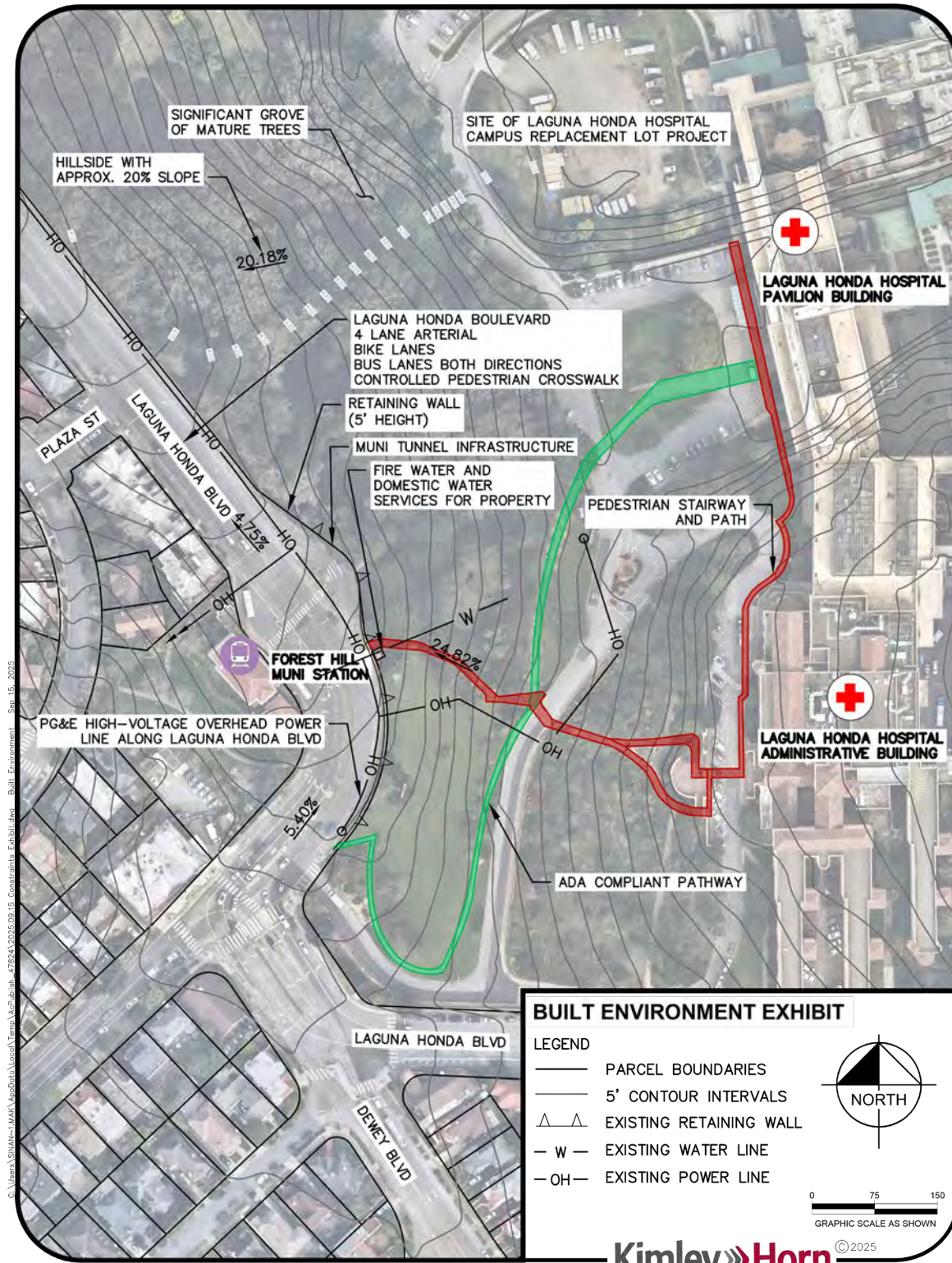
4.3 EXISTING CONDITIONS MAP

The Team created a site map to document key features of the Study Area based on the site visit and existing conditions analysis. Figure 4-5 shows both the ADA accessible route between the Station and Hospital (in green) and a more direct route with stairs (in red). The ADA accessible route is approximately 100 feet longer than the route with stairs.

Other key features shown on the map include:

- Identification of the two Hospital buildings, the Pavilion Building and the Administrative Building
- The site for the Campus Replacement Lot Project
- A steep hillside and mature grove of trees west of the Pavilion Building
- The four lane Laguna Honda Boulevard arterial separating the Station and Hospital, and
- Bus stops in front of the Station on either side of Laguna Honda Boulevard.

Figure 4-5. Existing Conditions Map



4.4 OPPORTUNITIES AND CONSTRAINTS

The Team identified key physical, operational, and regulatory factors that could influence the feasibility of a gondola connection between the Station and Hospital. Building on the existing conditions analysis and site visit observations, the Team evaluated topography, utilities, roadway conditions, historic resources, and pedestrian access within the Study Area. This assessment identified locations where a gondola alignment may be feasible and areas where design, permitting, or cost challenges may arise.

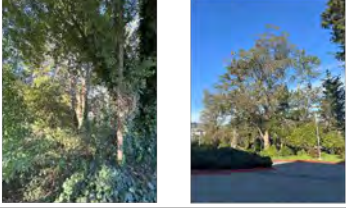




The following maps and descriptions summarize the primary opportunities and constraints that informed the development and evaluation of the alignment alternatives.

- The hillside between the Station and Hospital exceeds a 20% slope and includes a significant grove of mature trees. This topography creates a strong need to improve ADA connectivity.
- Laguna Honda Boulevard carries high traffic volumes and has a history of collisions. A gondola could improve safe and accessible crossings of Laguna Honda Boulevard.
- The Station is a locally designated landmark with a community park located behind the Station building. These constraints limit opportunities to locate a gondola terminal directly at the Station.
- Overhead utilities, including PG&E high voltage lines, are located within the Study Area. Relocating or undergrounding these facilities for a gondola alignment may be cost prohibitive and could increase capital costs for some alignment alternatives.

Figure 4-6. Opportunities and Constraints Maps






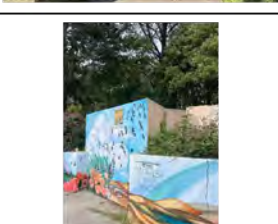


Figure 4-7. Opportunities and Constraints

CONSTRAINTS NOTES	
<p>①</p>	<p>SIGNIFICANT GROVE OF MATURE TREES MAY CREATE ISSUES WITH SUPPORT TOWER AND ROPEWAY INSTALLATION.</p> 
<p>②</p>	<p>HILLSIDE WITH APPROX. 20% SLOPE MAY CREATE ISSUES WITH SUPPORT TOWER AND ROPEWAY INSTALLATION.</p> 
<p>③</p>	<p>LACK OF DIRECT ADA ACCESSIBLE ROUTE: - TO ADMINISTRATION BUILDING - BETWEEN ADMINISTRATION BUILDING AND MAIN HOSPITAL.</p> 
<p>④</p>	<p>LAGUNA HONDA IS A WIDE, HIGH-SPEED ROADWAY. LANDING PLACEMENT MAY NECESSITATE STREET-LEVEL SAFETY UPGRADES TO IMPROVE PEDESTRIAN ACCESS.</p> 
<p>⑤</p>	<p>FOREST HILL STATION BUILDING IS A LOCALLY DESIGNATED LANDMARK. MODIFYING OR ALTERING THE BUILDING MAY BE TIME-CONSUMING AND EXPENSIVE.</p> 

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Figure 4-8. Opportunities and Constraints

CONSTRAINTS NOTES		
<p>⑥</p>	<p>PG&E OVERHEAD POLE LINE CREATES CHALLENGES WITH OVERHEAD GONDOLA CROSSINGS. RELOCATING OR UNDERGROUND THIS FACILITY IS VERY TIME CONSUMING AND EXPENSIVE.</p>	
<p>⑦</p>	<p>SIDEWALKS ARE STEEP AND NARROW ON THIS PORTION OF LAGUNA HONDA. IT WILL BE CHALLENGING TO MEET ADA REQUIREMENTS WITH LANDING SITES AT THIS LOCATION.</p>	
<p>⑧</p>	<p>AREA BEHIND FOREST HILL STATION IS A COMMUNITY PARK. ACQUIRING PARKLAND FOR A GONDOLA LANDING SITE COULD BE CHALLENGING.</p>	
<p>⑨</p>	<p>CROSSING LAGUNA HONDA BLVD WOULD REQUIRE A SIGNIFICANT RAISED GONDOLA SYSTEM TO PROVIDE VERTICAL CLEARANCE OVER THE ROADWAY AND POWER LINES.</p>	
<p>⑩</p>	<p>UTILITY HEAD HOUSE AND BACK FLOW PREVENTER WILL RESTRICT PLACEMENT OF THE GONDOLA LANDING AREA.</p>	
<p>⑪</p>	<p>MUNI TUNNEL INFRASTRUCTURE: EMERGENCY EGRESS AND VENTILATION NEEDS TO REMAIN UNOBSTRUCTED</p>	

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5. Market Assessment

As part of the Study, the Team conducted a Market Assessment to evaluate potential demand for a gondola system. The Market Assessment considered both existing and future demand (2035 for sketch/feasibility planning purposes), with existing demand driven by current hospital staff, residents, and visitors and future demand driven by projected growth in Hospital staffing and planned developments. The Team identified the potential market for the gondola system to inform key decisions related to alignment alternatives, system capacity, and project viability.

Existing demand and future demand were estimated using different but complementary data sources. Existing demand was estimated using Replica travel demand data because it reflects observed travel patterns to and from the Study Area. Future demand was estimated using standard Institute of Transportation Engineers (ITE) trip generation methodologies because future land uses and staffing increases do not yet exist and therefore cannot be represented in Replica. The future demand analysis applies the same transit and walking travel patterns observed in Replica to the additional trips generated by planned development and staffing growth.

Using Replica data introduced in Section 4.2, the Team estimated both the number of vehicle and person trips and the number of people traveling to and from the Study Area by mode, where transit and walking trips accounted for 22% of all trips. The Team evaluated two scenarios – an existing demand scenario assumes that approximately 10% of transit and walking trips would use the gondola, reflecting current shuttle ridership patterns. A higher mode share scenario assumes that approximately 20% of transit and walking trips would use the gondola, reflecting increased usage associated with a more direct and reliable connection.

Based on this methodology, the Team estimated existing demand at approximately 134. This corresponds to the current weekday shuttle ridership.

Future demand was estimated by applying 10% and 20% shares to future transit/walking trips, where overall future travel demand was estimated by first identifying planned developments and staffing increases at the Hospital. The Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) was then used to estimate the additional daily trips generated by these future land uses. The analysis estimated approximately 2,768 additional daily trips associated with the Campus Replacement Lot Project and increased hospital staffing after removing land uses not expected to generate meaningful gondola demand. The transit and walking mode shares observed in Replica (9% transit and 13% walking) were applied to these additional trips, resulting in approximately 609 additional transit and walking trips. Finally, existing (10%) and higher (20%) gondola capture assumptions were applied, resulting in an estimated additional 61 to 122 gondola trips per weekday. Adding these trips to the existing demand results in a future demand estimate of approximately

195 to 391 weekday gondola trips. Of these, approximately 10% (20 to 39 trips) would occur during the peak hour.

Using Hospital occupancy data provided by SFDPH, the Team distributed estimated gondola trips between the Pavilion and Administrative Buildings. This analysis indicated that approximately 70% of trips would serve the Pavilion Building and 30% would serve the Administrative Building, reflecting the distribution of residents and staff across the Hospital campus.

The demand estimation process is summarized below and the results are provided in Table 5-1. For full analysis description and results, the Market Assessment is included in Appendix B.

1. Replica travel demand data was used to estimate the total number of trips to and from the Study Area.
2. Walking and transit trips were identified as the primary market for a gondola connection between Forest Hill Muni Station and Laguna Honda Hospital.
3. Two gondola usage scenarios were evaluated for the peak hour:
 - a. Existing demand scenario (10%)
 - b. Higher mode share scenario (20%)
4. Existing demand is estimated by multiplying the Replica walking and transit trips by 10%
5. Trips generated by future development and hospital staffing growth were calculated using ITE trip generation manual.
6. Existing travel patterns and potential higher gondola usage assumptions were applied to future trips to estimate future gondola demand
7. Future demand is estimated by multiplying the additional ITE trips by 22% (to capture only walking and transit trips) and then by 10% and 20% and finally adding the additional trips to the existing demand calculated in step 4 above.

Table 5-1. Summary of Peak Hour Shuttle/Gondola Demand Estimates

		EXISTING DEMAND		FUTURE DEMAND	
		10%		10%	20%
Trips	Weekday	134		195	391
	Peak Hour	13		20	39
People Arriving	Weekday	37		53	106
	Peak Hour	4		5	11
People Leaving	Weekday	46		63	126
	Peak Hour	5		6	13

6. Alignment Alternatives

This Section describes the alignment alternatives considered for a potential gondola system between the Station and the Hospital. The Team developed six alternatives and evaluated them based on key considerations, including utility conflicts, ability to serve primary demand, site constraints, environmental impacts, and access and circulation. Table 6-1 summarizes how each alternative performs across these criteria and informs the identification of the most feasible option.

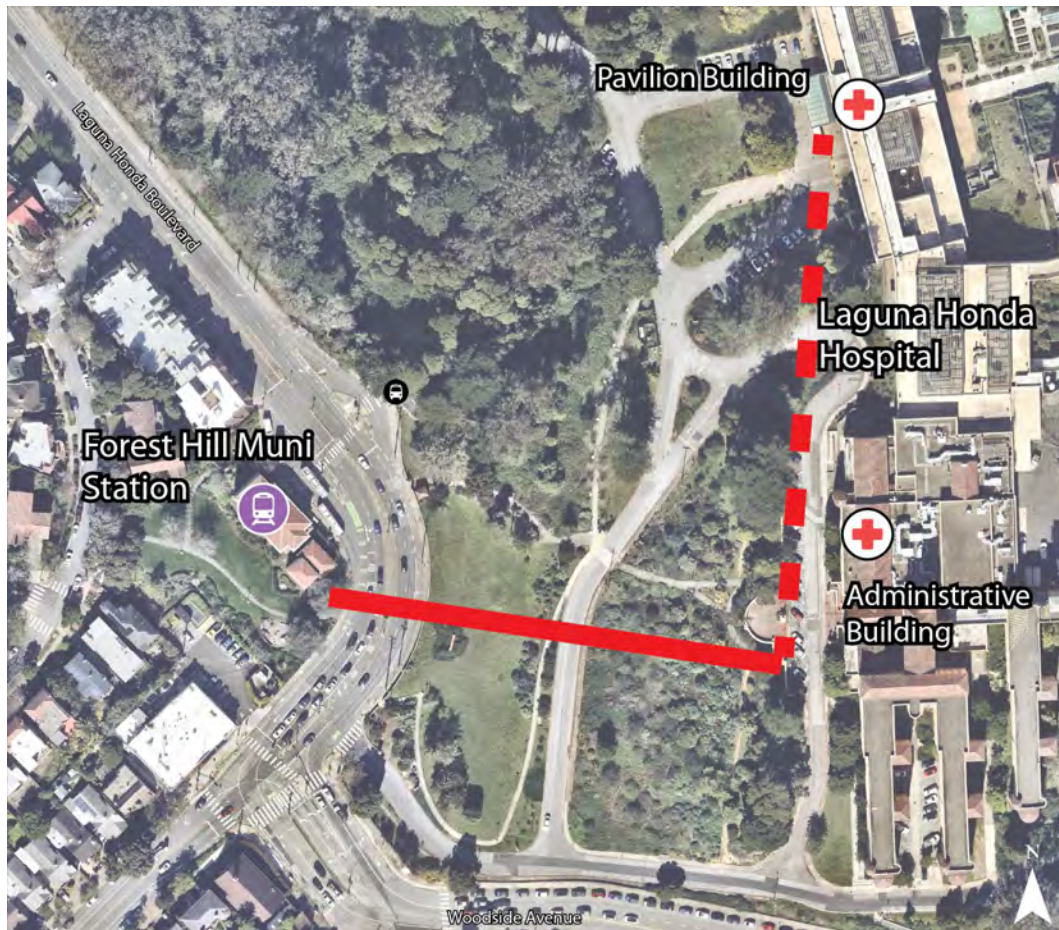
6.1 ALTERNATIVE 1A: STATION TO ADMINISTRATIVE BUILDING

In Alternative 1A, shown in Figure 6-1, the proposed launch point for the gondola is adjacent to the Station and the terminus is located at the Hospital Administrative Building. This alternative also provides the opportunity to extend to the Hospital Pavilion Building.

Key considerations include:

- **Demand served:** This alignment primarily serves the Hospital Administrative Building, which has lower demand compared to the Pavilion Building where the majority of residents and staff are located.
- **Utility conflicts:** The alignment likely conflicts with existing overhead utilities along Laguna Honda Boulevard, including PG&E distribution lines, which could require relocation or undergrounding and significantly increase project costs.
- **Space/constructability:** The constrained right-of-way and surrounding park space near the Station may limit the available footprint for a gondola terminal and associated passenger facilities.
- **Environmental/site impacts:** The Station is a locally designated landmark and is adjacent to a community park, limiting opportunities to construct a gondola launch facility directly adjacent to the Station.
- **Access and circulation:** Passengers traveling to the Pavilion Building, or other Hospital destinations, would need to walk additional distances within the Hospital campus. Additionally, as the gondola's landing site at the Administrative Building is not adjacent to the existing ADA pathway, a new ADA connection may be needed.

Figure 6-1. Alternative 1A Site Map



6.2 ALTERNATIVE 1B: STATION TO PAVILION BUILDING

Alternative 1B, shown in Figure 6-2, is similar to Alternative 1A, however the gondola directly serves the Hospital Pavilion Building, for which there is more demand.

Key considerations include:

- **Demand served:** This alignment directly serves the Pavilion Building, where the majority of Hospital residents and staff are located, improving overall accessibility.
- **Utility conflicts:** Existing overhead utilities along Laguna Honda Boulevard could require relocation or undergrounding to accommodate the gondola alignment.

- **Space/constructability:** The limited space surrounding the Station may make it challenging to accommodate the necessary terminal footprint and passenger circulation areas.
- **Environmental/site impacts:** Similar to Alternative 1A, this alignment would require locating a gondola terminal adjacent to the historic Station and community park, which may limit design options and require additional review. The alignment would also cross an area with a grove of mature trees, which could require tree removal, pruning, or ongoing vegetation management to maintain required clearances.

Figure 6-2. Alternative 1B Site Map



6.3 ALTERNATIVE 2A: WOODSIDE TO ADMINISTRATIVE BUILDING

Alternative 2A, shown in Figure 6-3, has a launch point near Woodside Avenue, across Laguna Honda Boulevard from the Station. With this launch point, utility impacts adjacent to the Station are avoided, and access across Laguna Honda Boulevard is facilitated with an overhead bridge connecting the Station to the launch point. The terminus for this alternative is the Hospital Administrative Building, and like Alternative 1A, this alternative provides the opportunity to extend to the Hospital Pavilion Building.

Key considerations include:

- **Demand served:** The alignment terminates at the Hospital Administrative Building rather than the Pavilion Building, which has lower overall demand.
- **Utility conflicts:** This alignment limits impacts to utilities along Laguna Honda Boulevard.
- **Space/constructability:** Locating the launch point across Laguna Honda Boulevard from the Station avoids direct impacts to the historic Station building and adjacent park.
- **Environmental/site impacts:** The need for a pedestrian bridge or similar crossing structure could increase project costs and complexity.
- **Access and circulation:** An overhead pedestrian bridge or other connection would be needed to provide safe and ADA accessible access between the Station and the gondola launch point. As with Alternative 1A, passengers traveling to the Pavilion Building or other hospital destinations would need to walk additional distances within the Hospital campus. Additionally, as the gondola's landing site at the Administrative Building is not adjacent to the existing ADA pathway, a new ADA connection may be needed.

Figure 6-3. Alternative 2A Site Map



6.4 ALTERNATIVE 2B: TRAILHEAD TO ADMINISTRATIVE BUILDING

The launch point for Alternative 2B, shown in Figure 6-4, is at the Hospital Trail Access Point across Laguna Honda Boulevard from the Station. This launch point avoids utility impacts but requires pedestrians to use the existing crossing in front of the Station to cross Laguna Honda Boulevard. Like other alternatives, Alternative 2B serves the Hospital Administrative Building, for which there is less demand, but provides the opportunity to extend to the Hospital Pavilion Building.

Key considerations include:

- **Demand served:** As with other alternatives terminating at the Hospital Administrative Building, this option does not directly serve the Pavilion Building where demand is higher.
- **Utility conflicts:** The launch location near the existing trailhead avoids direct conflicts with utilities along Laguna Honda Boulevard.

- **Space/constructability:** Locating the launch point across Laguna Honda Boulevard from the Station avoids direct impacts to the historic Station building and adjacent park.
- **Environmental/site impacts?**
- **Access/circulation:** Users would need to cross Laguna Honda Boulevard at the existing crosswalk in front of the Station. Like other alternatives, passengers traveling to the Pavilion Building or other Hospital destinations would need to walk additional distances within the Hospital campus. Additionally, as the gondola's landing site at the Administrative Building is not adjacent to the existing ADA pathway, a new ADA connection may be needed.

Figure 6-4. Alternative 2B Site Map



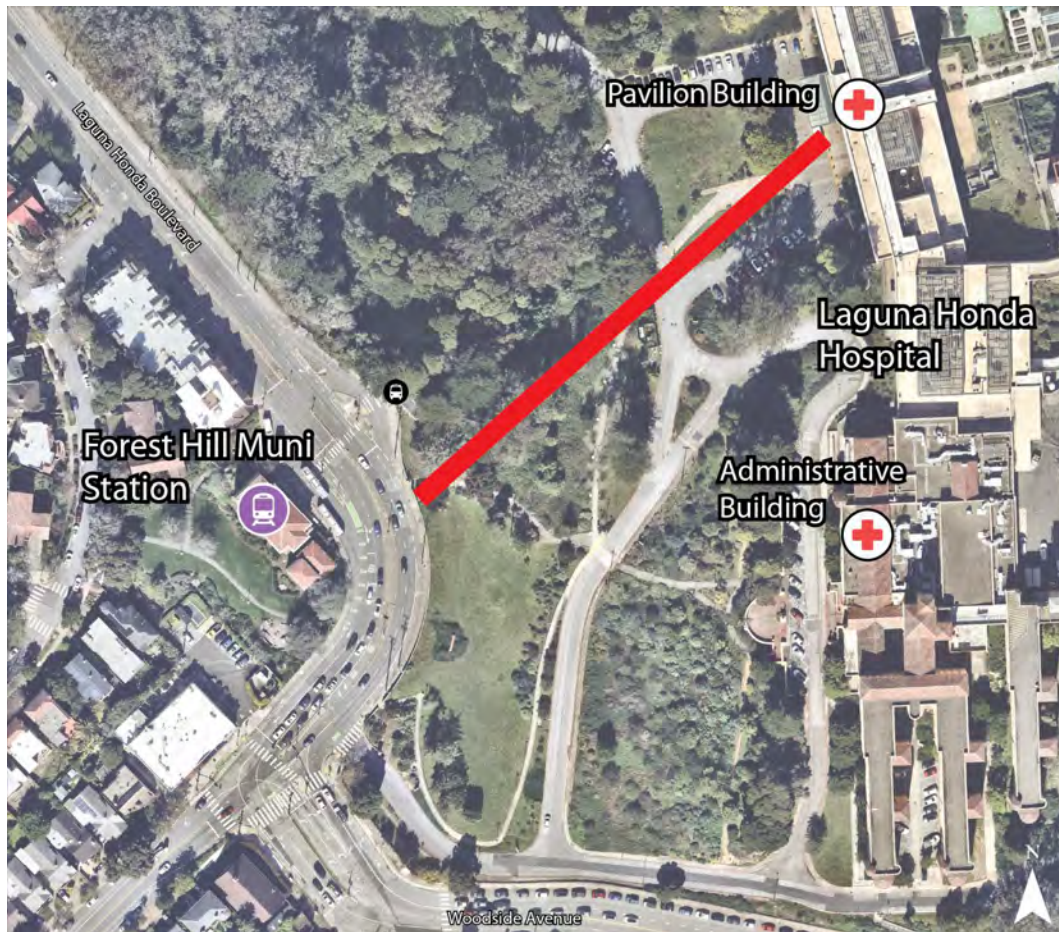
6.5 ALTERNATIVE 2C: TRAILHEAD TO PAVILION BUILDING

Alternative 2C, shown in Figure 6-5, is similar to Alternative 2B, however the gondola directly serves the Hospital Pavilion Building, for which there is more demand. Due to the similar launch point as Alternative 2B, across Laguna Honda Boulevard from the Station, this alternative avoids utility conflicts but requires pedestrians to cross Laguna Honda Boulevard via the existing crosswalk in front of the Station.

Key considerations include:

- **Demand served:** This alignment directly serves the Hospital Pavilion Building, which accounts for the majority of demand (~70% of trips).
- **Utility conflicts:** The launch location across Laguna Honda Boulevard reduces potential conflicts with overhead utilities along Laguna Honda Boulevard.
- **Space/constructability:** Locating the launch point across Laguna Honda Boulevard from the Station avoids direct impacts to the historic Station building and adjacent park.
- **Environmental/site impacts:** The alignment would cross an area with a grove of mature trees, which could require tree removal, pruning, or ongoing vegetation management to maintain required clearances.
- **Access and circulation:** Passengers would need to cross Laguna Honda Boulevard using the existing crosswalk.

Figure 6-5. Alternative 2C Site Map



6.6 ALTERNATIVE 2D: LAUNCH AT BUS STOP

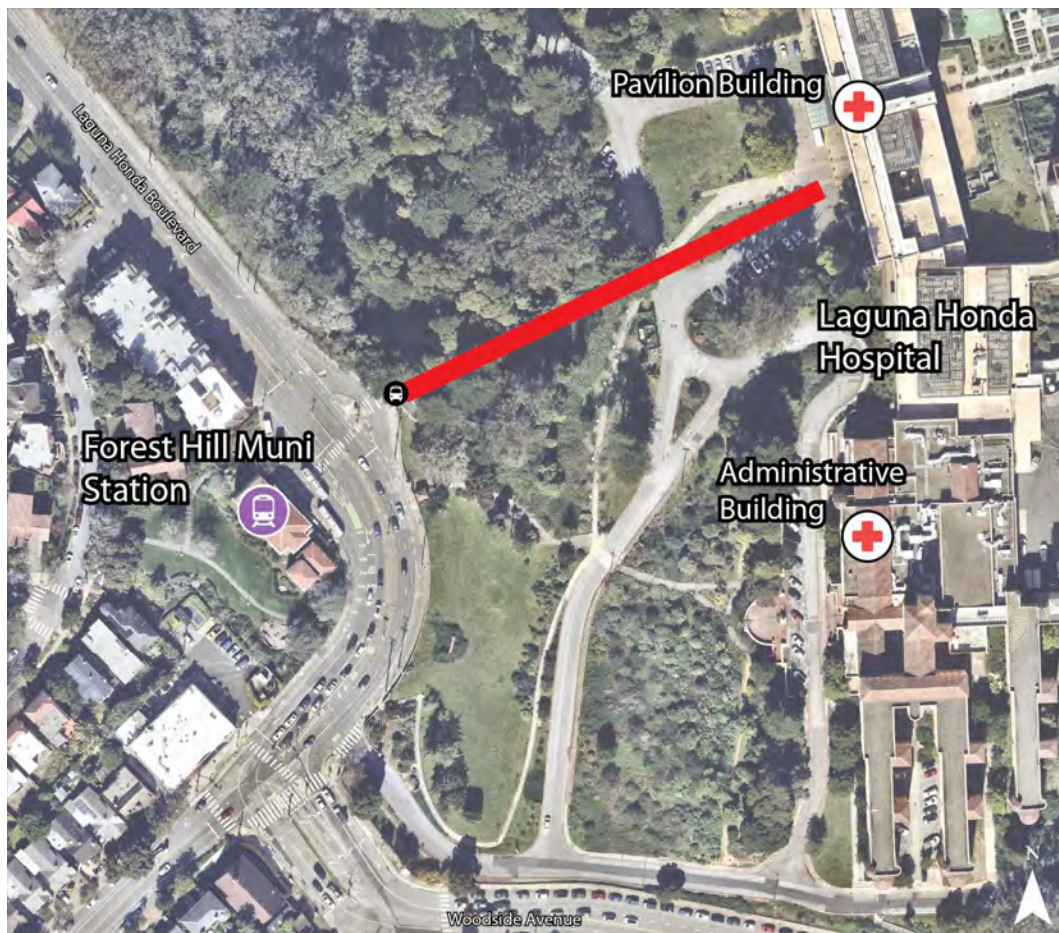
Alternative 2D, shown in Figure 6-6, is similar to Alternative 2C, however the launch point is located at the existing bus stop across from the Station instead of the Hospital Trail Access Point. This alternative avoids utility conflicts but requires pedestrians to cross Laguna Honda Boulevard via the existing crosswalk in front of the Station. This alternative serves the Hospital Pavilion Building only.

Key considerations include:

- **Demand served:** This alignment serves the Hospital Pavilion Building which has the greatest demand.
- **Utility conflicts:** Locating the terminal across Laguna Honda Boulevard reduces potential impacts to utilities along Laguna Honda Boulevard.

- **Space/constructability:** The bus stop location may have limited space for a gondola terminal and associated passenger facilities.
- **Environmental/site impacts:** The alignment would cross an area with a grove of mature trees, which could require tree removal, pruning, or ongoing vegetation management to maintain required clearances
- **Access and circulation:** The launch point near the existing bus stop provides relatively close access to the Station and nearby transit services. Similar to Alternatives 2B and 2C, users would need to cross Laguna Honda Boulevard at the existing crosswalk.

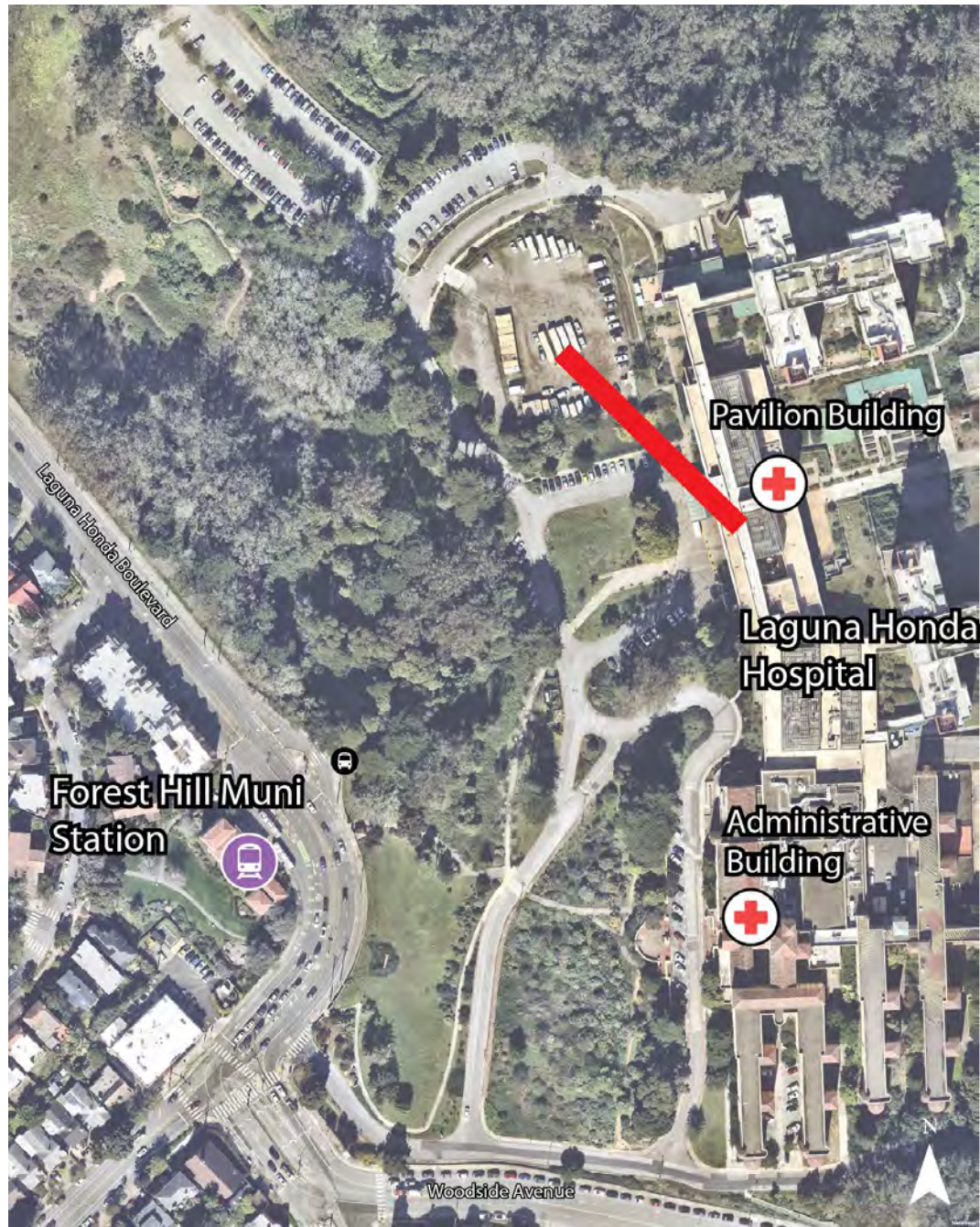
Figure 6-6. Alternative 2D Site Map



6.7 POTENTIAL FUTURE EXTENSION

For each of the six alternatives, a future extension from the Hospital Pavilion Building to the new senior housing development planned as part of the Campus Replacement Lot Project was considered. The alignment for the possible future extension is shown in Figure 6-7.

Figure 6-7. Gondola System Future Extension Alignment



6.8 ALIGNMENT ALTERNATIVES EVALUATION SUMMARY

The Team evaluated each alignment alternative based on key considerations, including demand served, utility conflicts, space and constructability, environmental and site impacts, and access and circulation. These considerations were applied consistently across all alternatives and reflect the primary factors influencing feasibility. Table 6-1 summarizes the relative performance of each alternative across these criteria.

Table 6-1. Alignment Alternatives Evaluation Summary

ALTERNATIVE	DEMAND SERVED	UTILITY CONFLICTS	SPACE/ CONSTRUCTABILITY	ENVIRONMENTAL/ SITE IMPACTS	ACCESS & CIRCULATION
1A	Low	High	Low	High	Low
1B	High	High	Low	High	High
2A	Low	Medium	Medium	Medium	Low
2B	Low	Low	High	Medium	Low
2C	High	Low	High	Medium	Medium
2D	High	Low	Low	Medium	Medium

As shown in Table 6-1, alternatives that directly serve the Pavilion Building and minimize utility conflicts and site constraints perform most favorably. Alternative 2C provides the best overall balance across these criteria.

7. Most Feasible Alternative

The evaluation summarized in Table 6-1 identifies Alternative 2C as the most feasible alternative.

Alternative 2C provides the best overall balance across the evaluation criteria. This alignment directly serves the Hospital Pavilion Building, which accounts for the majority of demand, while avoiding major utility conflicts and minimizing constraints associated with the Station site. In addition, Alternative 2C does not require a pedestrian bridge or other major supporting infrastructure, improving overall constructability.

While Alternative 2C would require consideration of tree and vegetation impacts, these impacts are manageable compared to the utility, space, and access constraints associated with other alternatives. Alternatives that serve the Administrative Building do not align with the primary demand patterns identified in the Market Assessment, and alternatives that originate at or adjacent to the Station introduce significant constraints related to limited space and historic designation.

Based on these considerations, Alternative 2C represents the most feasible alignment to advance for further design and evaluation. See Figure 7-1, Figure 7-2, Figure 7-3, Figure 7-4, Figure 7-5 for discussion of detailed alternatives developed for analysis purposes. The Team developed two iterations of this alternative – a northern alignment (Figure 7-1) and a southern alignment (Figure 7-2). While Alternative 2C performs favorably across most evaluation criteria, the alignment crosses an area with a grove of mature trees. The Team developed the southern alignment to minimize these impacts while maintaining a direct and feasible connection within the identified site constraints. As a result, the southern alignment was advanced for further refinement, including horizontal (Figure 7-3) and vertical alignment (Figure 7-4 and Figure 7-5) development and cost estimation (Section 7.1).

Figure 7-1. Potential Northern Alignment



Figure 7-2. Potential Southern Alignment



Figure 7-3. Most Feasible Southern Alternative Horizontal Alignment

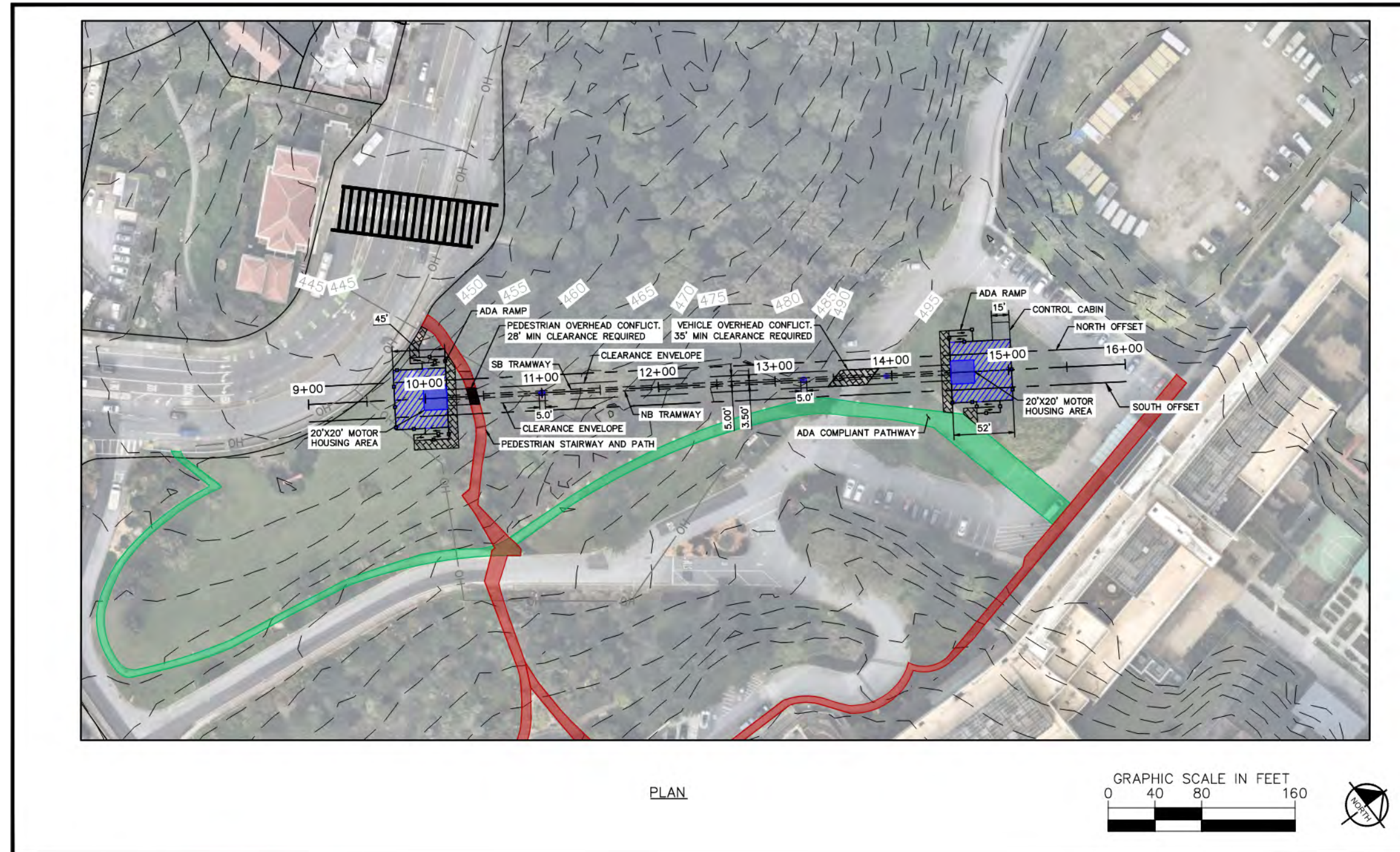


Figure 7-4. Most Feasible Southern Alternative Vertical Alignment

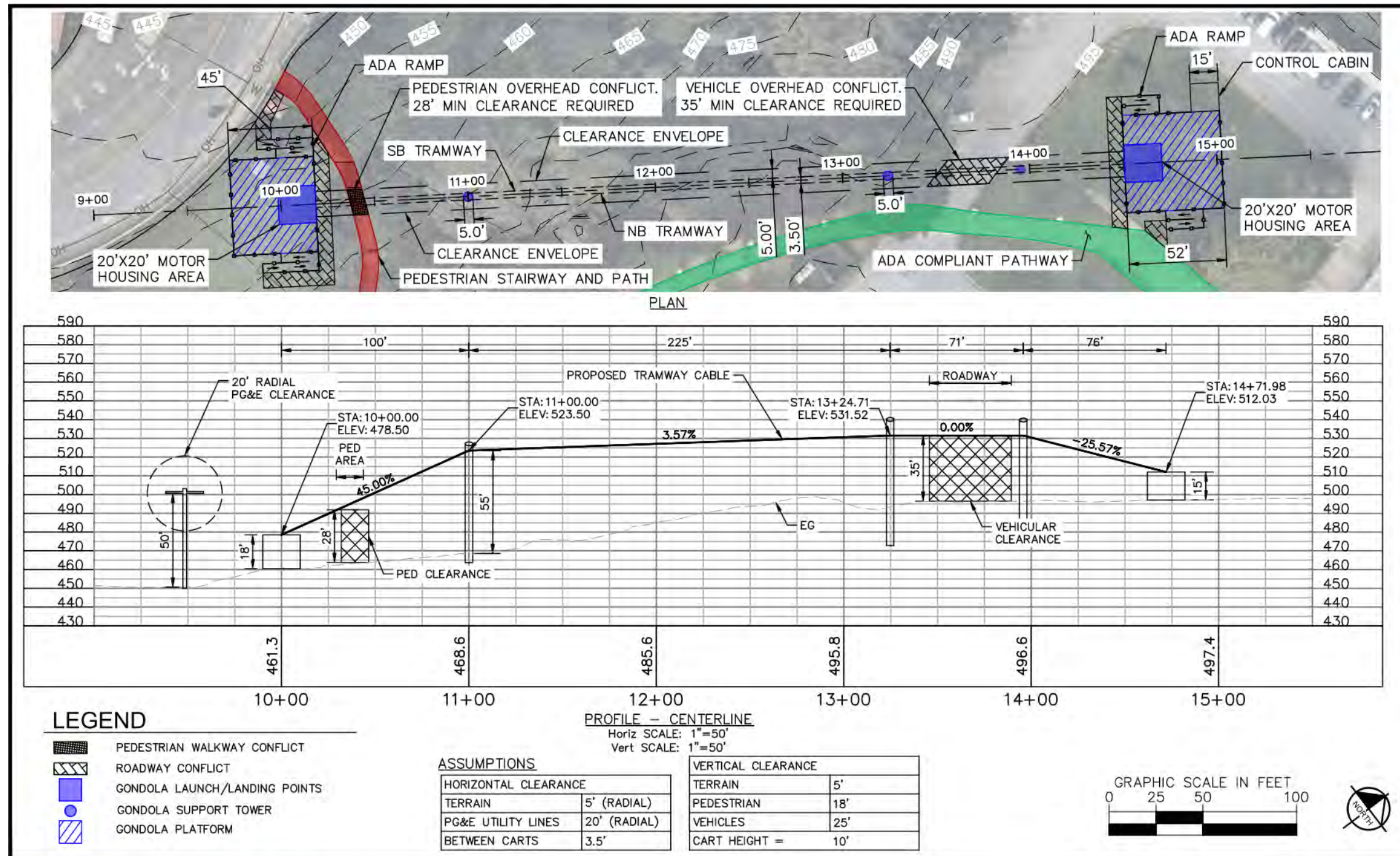
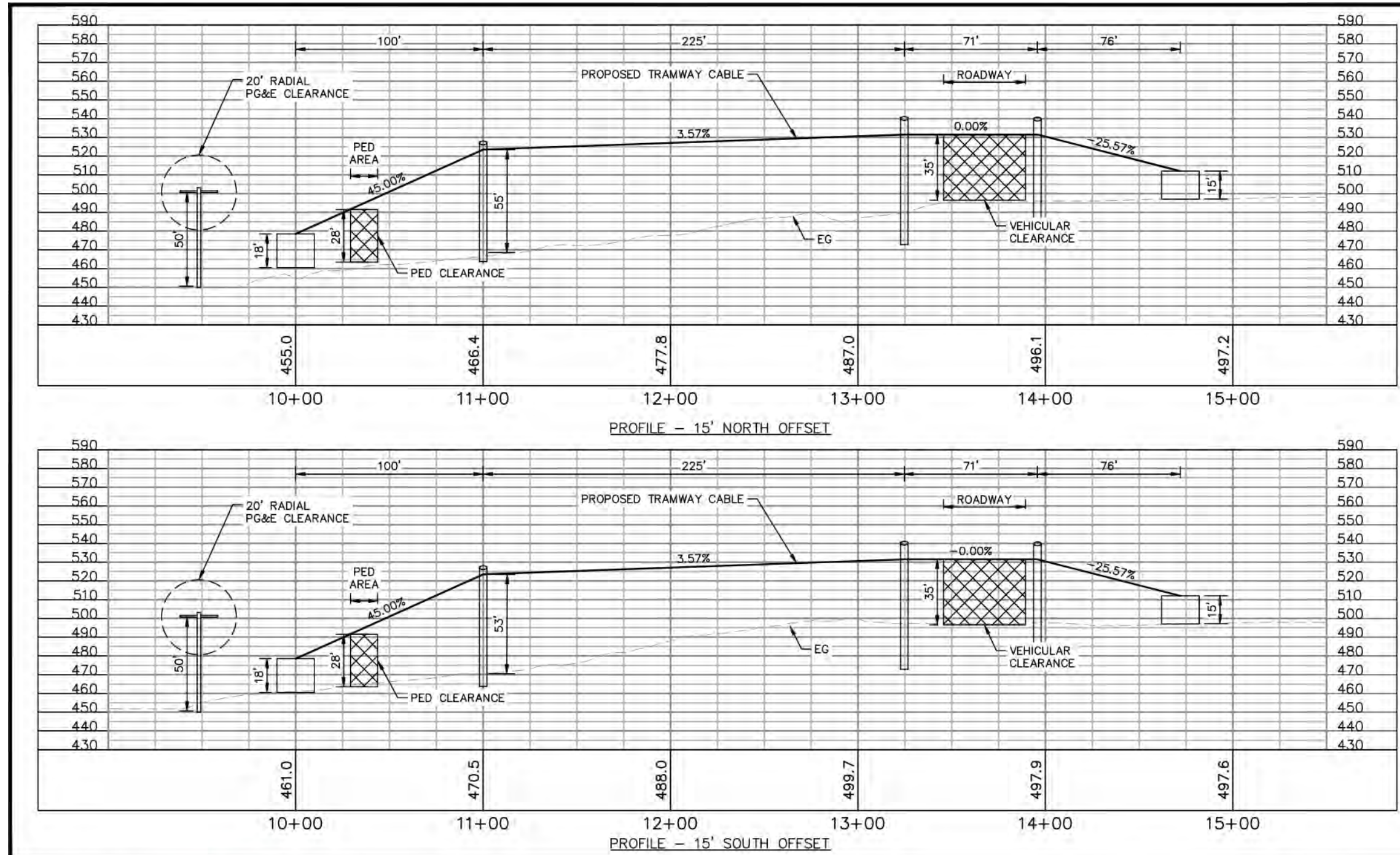


Figure 7-5. Most Feasible Southern Alternative Vertical Alignment



Horiz SCALE: 1"=50'
Vert SCALE: 1"=50'

7.1 PLANNING-LEVEL COST ESTIMATES

The Study Team developed rough order of magnitude (ROM) cost estimates based on input from two ropeway system suppliers, Doppelmayr and Leitner Poma. Detailed estimates from both ropeway system suppliers can be found in Appendix C.

Doppelmayr provided a cost estimate that broke down capital costs into various categories including facility infrastructure and construction, civil construction for ropeway system, electro-mechanical ropeway equipment, and ropeway construction and commissioning costs. The cost estimate also included annual operations and maintenance costs for 365-day operation. Based on this estimate, the total capital cost for the most feasible alignment is \$4.1 million with an additional up to \$2 million needed annually for operations and maintenance.

Leitner Poma provided a cost estimate that included a single capital cost total for the entire system. This capital cost was estimated at \$5.11 million. Leitner Poma also provided two operations and maintenance costs: one that includes supplier provided staff, maintenance, and additional parts, and one estimate for maintenance costs alone. The estimate for the full operations and maintenance contract was quoted at \$614,000 per year and the maintenance only contract was quoted at \$147,000 per year.

The Team developed supplemental costs for infrastructure improvements not included in the ropeway system supplier estimates. These costs include infrastructure for the station boarding areas, such as boarding platforms, railings, lighting, control cabins, and other station amenities. The Team also developed costs related to intersection improvements along Laguna Honda Boulevard, including crosswalk treatments, new concrete flatwork and curb ramps, traffic signal modifications, and new street asphalt paving.

The Team combined the civil cost estimates with the supplier estimates to develop a final ROM cost estimate for the system. Table 7-1 summarizes the final ROM cost estimates for the system. These costs include contingency, escalation (assumed to be 7.5% over five years), and other soft costs such as design and permitting.

Table 7-1. Rough Order of Magnitude Cost Estimate Summary

ITEM	COST
Capital Cost: Ropeway System + Station Improvements + Civil Improvements*	~\$17M in YOE (2030)
Soft Costs**	~\$6M in YOE (2028)
Subtotal	~\$23M
O&M Costs***	~\$2M Annually

* Includes 30% contingency; assumes 7.5% escalation over 5 years (2025 - 2030); average of upper and lower estimate rounded up to the nearest million

** 40% of Capital Costs; assumes 5% escalation over 5 years (2025 - 2030); average of upper and lower estimate rounded up to the nearest million; example soft costs include architectural & engineering design, environmental studies, permitting, construction management, agency administration, etc.

*** Assumes 5% escalation; average for 10 years starting in 2030; average of upper and lower estimate rounded up to the nearest million

8. Shuttle Alternative Analysis

8.1 INTRODUCTION

This section assesses an alternative shuttle service designed to provide comparable mobility benefits as the proposed gondola. Notably, Laguna Honda Hospital already offers shuttle services from Monday to Friday from 6:00 a.m. to 5:50 p.m. between the Station and the Hospital. Accordingly, this analysis builds on a review of the existing services and potential adjustments needed to meet the projected growth scenarios.

8.2 CURRENT SHUTTLE SERVICE

Figure 8-1. Existing Shuttle Service



Two entities operate the existing shuttle service under a split-schedule model:

- TransMetro operates the early-morning shift (6:00 a.m. – 10:00 a.m.), running every 15 minutes across five stops, including the Station and both Hospital Buildings.
- Laguna Honda Hospital operates the midday-to-evening shift (10:00 a.m. – 5:50 p.m.), running every 20 minutes across three stops, including the Station and both Hospital Buildings.

The shuttle provides door-to-door connectivity between the Station and all major Hospital Buildings, accommodating both ambulatory passengers and wheelchair users. The standard vehicle configuration includes 10 ambulatory seats and two wheelchair positions, for a total capacity of 12 passengers per trip.

8.3 CAPACITY

Current daily ridership on the shuttle services is approximately 125 passengers per day. The existing service has a theoretical daily capacity of 576 passengers (48 trips per day at 12 passengers per trip), indicating that the service currently operates well below maximum capacity. By comparison, a gondola would have twice the capacity of the shuttle system, serving 1150 passengers per day.

In peak-hour terms, the shuttle can accommodate up to 48 passengers per hour (four trips/hour × 12 passengers), with the ambulatory breakdown being 40 seats and eight wheelchair positions.

The Study's demand projections for the gondola include two growth scenarios:

- 10% growth scenario – 195 daily passengers, and approximately 20 passengers in the peak hour.
- 20% growth scenario – 391 daily passengers, and approximately 39 passengers in the peak hour.

Under both scenarios, the existing single-vehicle shuttle service retains sufficient daily capacity to absorb projected ridership growth from the Hospital. This does not account for potential induced gondola demand from non-Hospital demand serving neighboring land uses (residential and Twin Peaks), which this study did not assess. However, the 20% scenario warrants closer attention at peak hours: if peak-hour demand is concentrated exclusively among ambulatory passengers, the load factor approaches or exceeds 0.9, indicating near-capacity conditions. This would likely necessitate scheduling adjustments or modest capacity additions during peak periods.

A Fehr & Peers Laguna Honda Hospital Transportation Demand Management (TDM) Report (2023) assessed existing travel conditions and recommended strategies to reduce single-occupancy vehicle trips to the Hospital campus, and provides an important foundation to complement shuttle services going forward. This TDM plan could also be adjusted to balance travel demand across modes (e.g. promote SFMTA Essential Trip Card¹ benefits or carpool incentives) as warranted.

¹ The SFMTA Essential Trip Card (ETC) program, administered through SF Paratransit, provides subsidized taxi trips for adults 65+ and people with disabilities, who pay 20% of the regular fare for roughly two to three round trips per month.

8.4 EXISTING SHUTTLE COSTS

The current annual operating cost for the shuttle service is \$300,000 per year, which includes the TransMetro shuttle contract for \$122,022, and the Laguna Honda Hospital service for \$177,382 per year.

8.5 COMPARATIVE ANALYSIS

The analysis highlights several data points that planning teams and decision-makers may weigh against each other:

Cost: A net present value analysis of the shuttle and gondola options over a 20-year horizon (3% real discount rate) suggests the gondola option would be significantly more costly than a shuttle service - up to 7x higher on a lifecycle basis.

Capacity: While a gondola would provide twice the capacity of the shuttle, the shuttle service would generally have adequate capacity to serve future demand growth scenarios resulting from planned Hospital growth. Peak hour conditions under the higher-growth scenario or additional non-Hospital trip growth may strain shuttle capacity and warrant additional demand management strategies (e.g. carpool incentives) or shuttle services.

Service coverage: The shuttle provides door-to-door service to multiple buildings. The gondola drops passengers at the end of the hospital steps, requiring an additional walk to reach individual buildings.

Frequency: The gondola's 5-minute cycle compares favorably to the shuttle's 15- to 20-minute cycle. However, gondola walk times to final destinations might make total times closer to equal.





9. Conclusions and Recommendations

Key study findings include:

- A gondola connection is technically feasible and could provide a fully accessible, grade-separated link between the Station and Hospital.
- The most feasible alignment minimizes utility conflicts and directly serves the Pavilion Building, the Hospital's highest-demand destination.
- Travel demand is driven primarily by growth in anticipated Hospital staff and residents. There is some potential for induced gondola demand from non-Hospital trips (serving nearby neighborhoods or Twin Peaks scenic areas), which this study did not assess.
- Capital and operating costs are significant for serving projected ridership with a gondola, in comparison with lower-cost mobility services such as shuttles and transportation demand management (TDM) strategies.
- While a gondola would provide significantly more capacity, a shuttle system would generally have the ability to serve planned Hospital trip growth more cost effectively, though peak-hour conditions or additional non-Hospital trip growth may warrant additional demand management strategies (e.g. carpool incentives) or shuttle services.
- The study's documentation of key gondola design parameters, planning factors and lifecycle costs can inform longer-distance gondola systems planning, if applicable elsewhere in the future.

In conclusion, following development of the gondola alignment and system concept, demand projections and capital and operating cost estimates and a conceptual evaluation of the shuttle alternative, the study team concludes that the gondola is a less cost-effective solution than developing shuttle and TDM strategies, and does not recommend further study of a gondola concept for the Laguna Honda site.

While the Study confirms that a gondola system is technically feasible, its relatively high capital and operating costs for the short distance at this location makes alternative mobility solutions – such as enhanced shuttle service paired with effective demand management programs – the more cost-effective approach to supporting future growth at the Laguna Hospital and residential development sites at this time.

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APPENDIX A:

Precedent Projects

Portland Aerial Tram, Portland, OR

The City of Portland owns and operates an ADA-compliant aerial tram that connects Oregon Health & Science University (OHSU) to the South Waterfront neighborhood. The system spans approximately 3,300 feet and climbs roughly 500 feet in elevation. The lower terminal connects directly to the Portland Streetcar and local bus service, providing integration with the regional transit network. Constructed in 2007, the system cost approximately \$57 million and carries approximately 1.4 million riders annually.

Figure A-1. Portland Aerial Tram, Portland, OR



Source: Google

Hillavator Funicular, Capitola, CA

The Hillavator funicular operates over a 120-foot track and climbs approximately 70 feet. The system, opened in 1958, serves the Shadowbrook restaurant in Capitola, California and does not connect to a transit network. While not an aerial system, it demonstrates an alternative approach to navigating steep terrain over short distances.

Figure A-2. Hillavator Funicular, Capitola, CA



Source: Google

Gondolita, Taos, NM

The Town of Taos operates the “Gondolita,” a short ropeway system connecting the Taos Children’s Center to Taos Village. The Gondolita, manufactured by Leitner Poma, was constructed in 2017 and carries six-person diamond shaped cars. The system spans approximately 800 feet and climbs roughly 65 feet. The system does not connect to a broader transit network and primarily serves a localized access function.

Figure A-3. Gondolita, Taos, NM



Source: Leitner Poma

Numerica SkyRide, Spokane, WA

The Numerica SkyRide operates as an aerial cable car system in downtown Spokane. The 15 minute scenic ride descends approximately 200 feet over a river and waterfall. The system primarily serves tourism and does not function as part of the city's transit network.

Figure A-4. Numerica SkyRide, Spokane, WA



Source: Google

Grenoble Bastille, Grenoble, France

The City of Grenoble operates the Bastille cable car as an urban gondola system connecting the city center to the Fort de la Bastille. The system spans approximately 0.5 miles (2,600 feet) and climbs roughly 860 feet in elevation. While the system primarily serves recreational and tourism trips, it operates as a reliable, high-frequency urban mobility connection with departures every five to ten minutes. The system does not directly connect to a regional rail system but is located within walking distance of transit in the city center.

Figure A-5. Grenoble Bastille, Grenoble, France



Source: Google

Mexico City Cablebús, Mexico City, Mexico

Mexico City operates Cablebús as part of its public transit system. Multiple lines serve dense hillside communities and connect directly to the Metro and Bus Rapid Transit (BRT) network. For example, Line 1 extends approximately 5.7 miles with a vertical rise of over 800 feet. The system operates with high-capacity cabins and frequent service, demonstrating how gondolas can function as a core component of an urban transit network.

Figure A-6. Mexico City Cablebús, Mexico City, Mexico



Source: Google

Metrocable, Medellín, Colombia

The City of Medellín operates the Metrocable system as an extension of its metro network. The system connects hillside neighborhoods to the Metro system, providing seamless fare and physical integration. Individual lines range from approximately two to four kilometers (6,500 to 13,000 feet) in length, with significant vertical climbs exceeding 1,000 feet in some segments. The system demonstrates how gondolas can improve accessibility and reduce travel times in topographically constrained urban areas.

Figure A-7. Metrocable, Medellín, Colombia



Source: Google

APPENDIX B:

Market Assessment

Introduction

The San Francisco County Transportation Authority (SFCTA) is exploring the feasibility of an aerial gondola system to enhance mobility and improve first- and last-mile connectivity in the Forest Hill neighborhood of San Francisco. The proposed gondola connection would link the Muni Metro Forest Hill Station (Station) – a key transit hub – with Laguna Honda Hospital and Rehabilitation Center (Hospital), addressing the significant accessibility challenges posed by the area’s steep topography and the heavily trafficked Laguna Honda Boulevard. In addition to serving hospital staff, patients, and visitors, the gondola system is envisioned to improve access to the proposed affordable senior housing development at the Laguna Honda Hospital Campus Replacement Lot (Campus Replacement Lot Project). The Hospital and Station area (Study Area) are defined as the Hospital parcel and Station parcel. The Study Area is shown in Figure B-1.

Figure B-1. Study Area Limits



As part of the broader feasibility study, the Market Assessment aims to evaluate the potential demand for the gondola system by examining existing and projected travel patterns. The Market Assessment considers current ridership patterns and the impact of

proposed future developments. The objective is to identify the market for the gondola system and inform key decisions related to alignment alternatives, system capacity, and project viability. This analysis will provide a foundational understanding of how an aerial gondola could contribute to enhanced transit connectivity and equitable access in this part of San Francisco.

Available Data Sources

REPLICA

Replica, an activity-based travel demand model was used to analyze travel demand trends for trips originating and departing the Study Area. Replica aggregates census data, location-based data (such as connected devices and credit card transactions), and other sources to simulate the complete activities and movements on a typical day.

Replica defines a ‘trip’ as “a movement by a person between places. A trip begins when a person leaves a place and ends when a person stops to do a non-travel activity in a place.”¹ Therefore, a single person who arrives and then leaves the Study Area in one day will generate two trips. For trip data Replica provides detailed attributes of each simulated trip, including trip time of day, purpose, mode, and the demographics of the trip taker. Replica data for a typical weekday (Thursday) in Fall 2024 (the most recent data release available) was used for this Market Assessment.

Based on Replica’s travel demand data, on any given weekday, it is estimated that there are approximately 6,200 trips going to and from the Study Area. Table B-1 gives the breakdown of trips taken by mode and Figure B-2 shows the percentage of trips by mode.

Replica data also showed that the majority of trips to and from the Study Area, 3,719 trips (60%), originate from and depart to the rest of San Francisco with most trips within the City coming to/from areas north of the Study Area. The second highest number of trips are to/from San Mateo County with 1,160 (19%) daily trips. The third highest number of trips are to/from Contra Costa County with 304 (5%) daily trips. Replica trips by density are represented in Figure B-3.

¹ Defined from Replica’s methodology.

Table B-1. Trips Originating From and Departing To the Study Area by Mode (Replica)

MODE	TOTAL TRIPS TAKEN	PERCENTAGE OF TOTAL TRIPS
Private auto	3,345	54%
Auto passenger	964	16%
Walking	783	13%
Public transit	561	9%
Commercial vehicle (freight)	230	4%
Biking	121	2%
Other	100	2%
Taxi/TNC	68	1%
TOTAL	6,172	100%

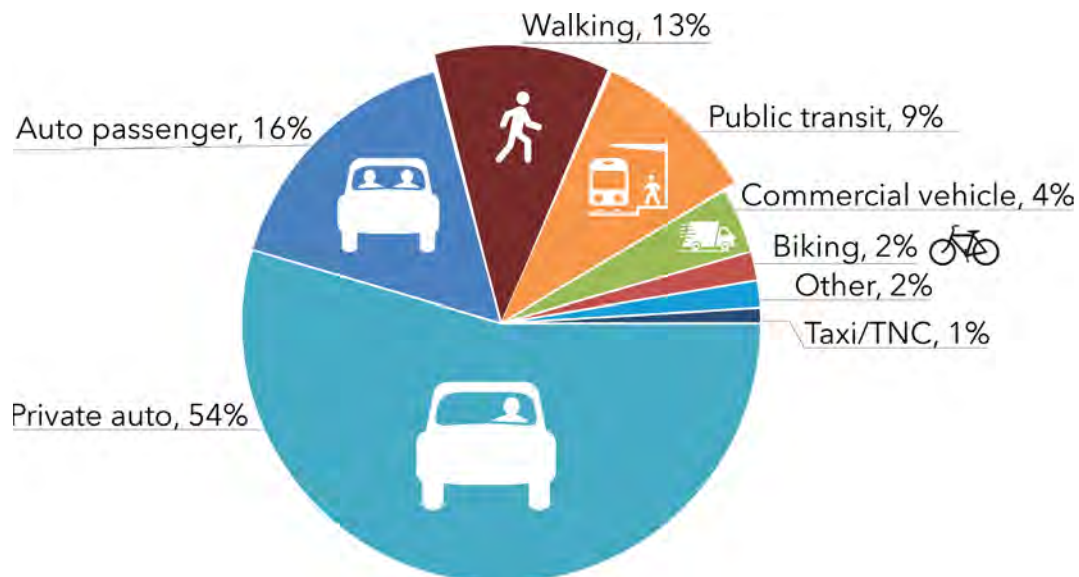
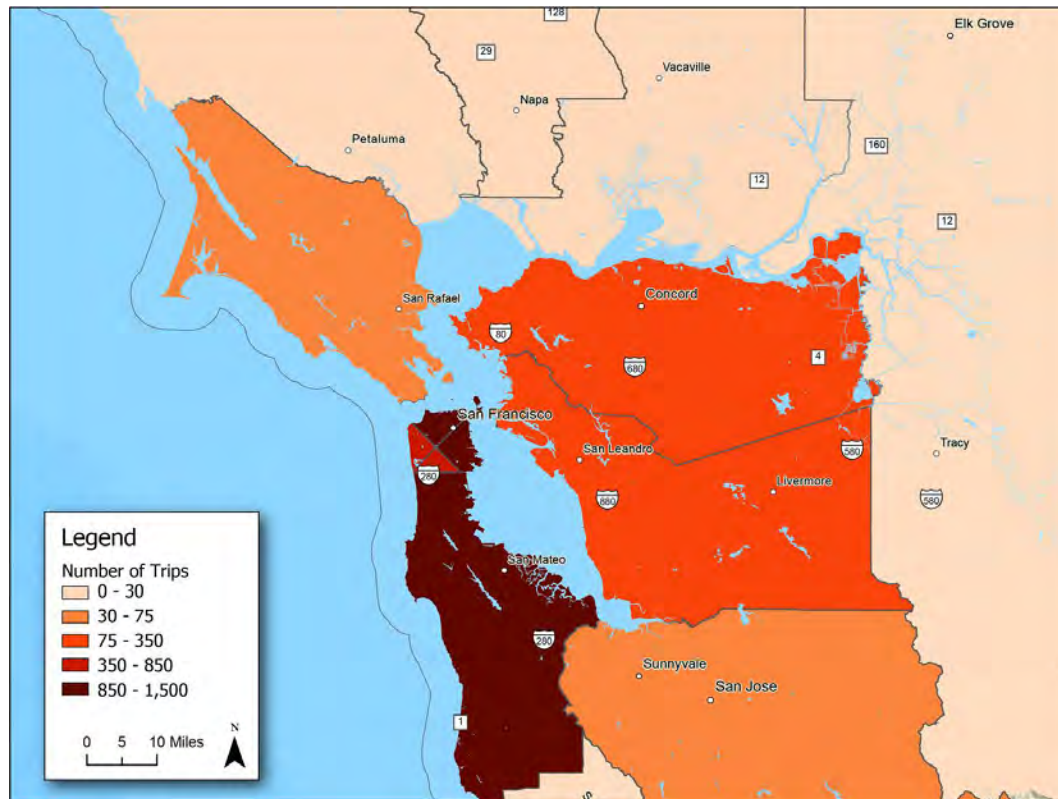
Figure B-2. Percentage Breakdown of Trips by Mode (Replica)

Figure B-3. Replica Trip Map

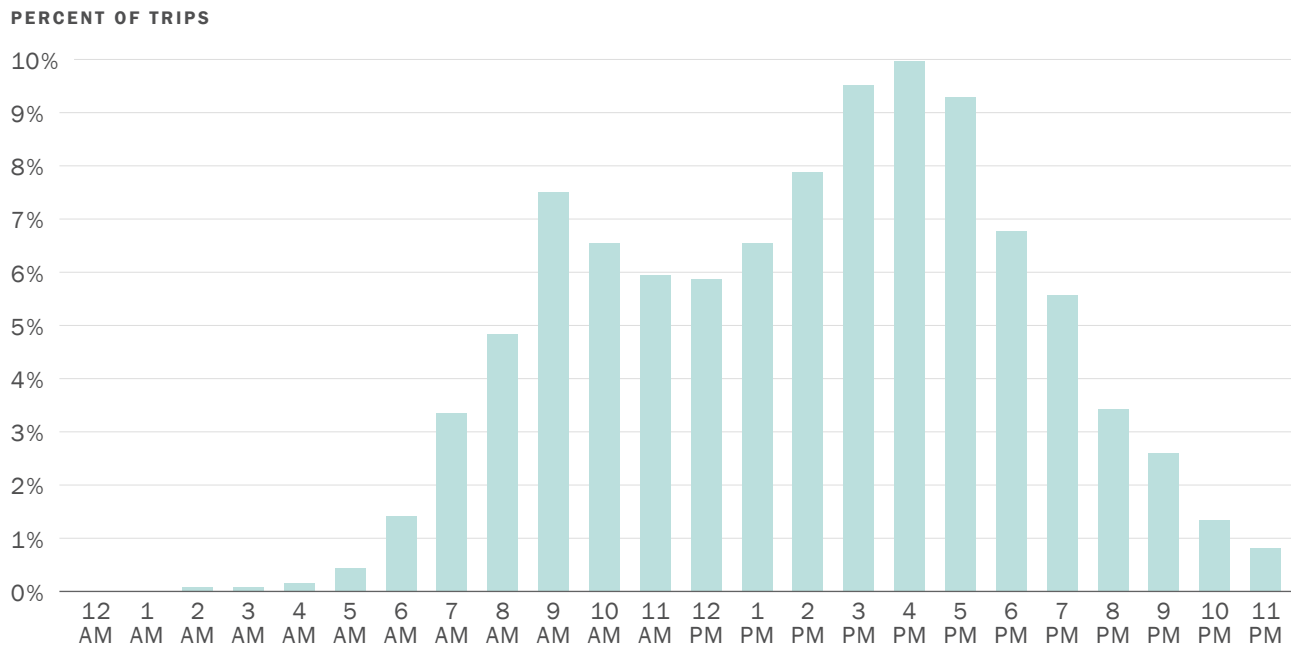


In addition to the number of trips taken to and from the Study Area, Replica was used to estimate the number of people traveling to and from the Study Area. Based on the Replica model, there are estimated to be 1,660 people arriving to the Study Area and 2,110 people leaving from the Study Area on any given weekday. This data is shown in Table B-2. It is expected that people take multiple trips per day (e.g.: one trip to work and another from work), hence the number of trips given in Table B-1 is greater than the number of people given in Table B-2.

Table B-2. Total Number of People Entering and Leaving the Study Area on an Average Weekday (Replica)

TOTAL PEOPLE	
People Arriving	1,660
People Leaving	2,110

Replica also provided the distribution of trips throughout the day. The peak hour for walking and transit trips occurs between 4 p.m. and 5 p.m. when 10% of all walking and transit trips occur (Figure B-4).

Figure B-4. Distribution of walking and transit trips throughout the day

SFMTA RIDERSHIP DATA

San Francisco Municipal Transportation Agency (SFMTA) provided transit ridership data for the Station which is served by the K, L, and M Muni lines. SFMTA also provided ridership data for the bus stops adjacent to the Station which are served by four bus routes – routes 36, 43, 44, and 52. The data contains the average weekday ridership averaged across a time period from March 15th, 2025 to April 14th, 2025. Data is categorized for inbound boardings and alightings and outbound boardings and alightings.

It should be noted that the data provided by SFMTA includes both trips that start and end in the Study Area as well as transfer trips at the Station. Transfer trips (e.g.: between two Muni lines or between a bus and Muni line) will be counted twice – as an alighting from one service and a boarding of another service. SFMTA ridership data is summarized in Table B-3.

Table B-3. Average Weekday Ridership at the Station (SFMTA)

MODE	LINE/ROUTE	ON-BOARDINGS	ALIGHTINGS
Light Rail	K	1,048	487
	L	660	657
	M	666	701
Bus	36	154	53
	43	456	410
	44	573	591
	52	356	5
SUB TOTAL		3,913	2,904
TOTAL		6,817	

CLIPPER CARD DATA

Metropolitan Transportation Commission (MTC) provided Clipper Card data for the Muni faregates at the Station. On an average weekday between January 1st, 2025 and June 30th, 2025, there were 1,182 Clipper Cards swiped at the Muni faregates at the Station. Further, it was reported that 474 (approximately 40%) of these trips were internal transfers from Muni, meaning they transferred from one Muni line to another within 120 minutes. It was noted that Clipper's market penetration on SFMTA is 30%. MTC was unable to provide bus ridership information.

Given that Clipper Card data only accounts for a portion of Muni riders – those that use Clipper Cards – and that data for bus trips could not be provided, this data was considered too incomplete to be a reliable source to estimate demand.

LAGUNA HONDA HOSPITAL OCCUPANCY DATA

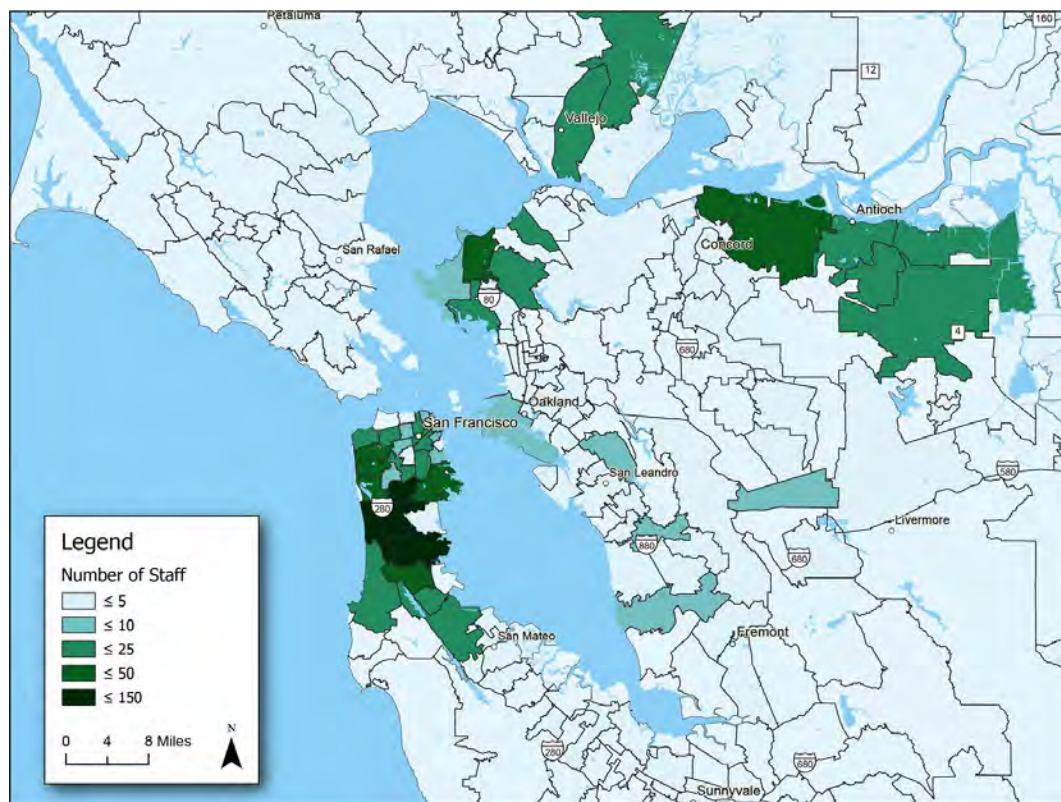
San Francisco Department of Public Health (SFDPH) provided the number of residents and employees at each of the Hospital buildings. Anonymized zip codes for each employee were also provided.

According to the data provided, there are currently 508 residents at the Hospital's Pavilion building (Pavilion) with room for up to 649 residents. Additionally, there are 1,277 staff members, 737 of which work out of the Pavilion and 540 of which work out of the Administrative building. Table B-4 summarizes the number of residents and staff at each of the Hospital's buildings and Figure B-4 shows the home location of hospital staff.

SFDPH also provided the number of visitors for July 2025 which was 459.

Table B-4. Existing Residents, Staff, and Visitors at the Hospital

	PAVILION	ADMINISTRATIVE BUILDING	TOTAL
Existing Residents	508	N/A	508
Existing Staff	737	540	1,277
Monthly Visitors	N/A	N/A	459
TOTAL	1,245	540	2,244

Figure B-5. Hospital Staff Home Locations by ZIP Code

SHUTTLE DATA

Currently a shuttle operates between the Station and Hospital. The shuttle is operated every weekday between 6:15 a.m. and 5:50 p.m. by two different operators:

- TransMetro operates the shuttle every 15 minutes from 6 a.m. to 10 a.m. serving 5 stops including the Station and both Hospital buildings

- Laguna Honda Hospital operates the shuttle every 20 minutes from 10 a.m. to 5:50 p.m. serving three stops including the Station and both Hospital buildings

SFDPH provided the ridership for the shuttle, as shown in Table B-5.

Table B-5. Shuttle Ridership

	TRANSMETRO	LHH	TOTAL MONTHLY	TOTAL DAILY
April 2025	731	1,672	2,403	126
May 2025	674	1,888	2,562	128
June 2025	751	1,676	2,427	121

FUTURE LAND USE INFORMATION

There are two proposed developments within the vicinity of the Study Area. One is a senior housing development known as the Campus Replacement Lot Project which is located adjacent to the Pavilion. The Campus Replacement Lot Project is estimated to include between 220 and 260 residential units and will also include a 5,000 SF early childhood center and an 8,000 SF adult day health center. The other proposed development is an affordable housing development planned at 250 Laguna Honda Boulevard which is estimated to include 172 residential units with single, two-bedroom, and three-bedroom layouts.

In addition to the planned developments, an additional 460 SFDPH employees are expected to transfer to the Hospital from other SFDPH sites.

Future land use is identified graphically in Figure B-5 and further details are provided in Table B-6.

Figure B-6. Future Land Use Map

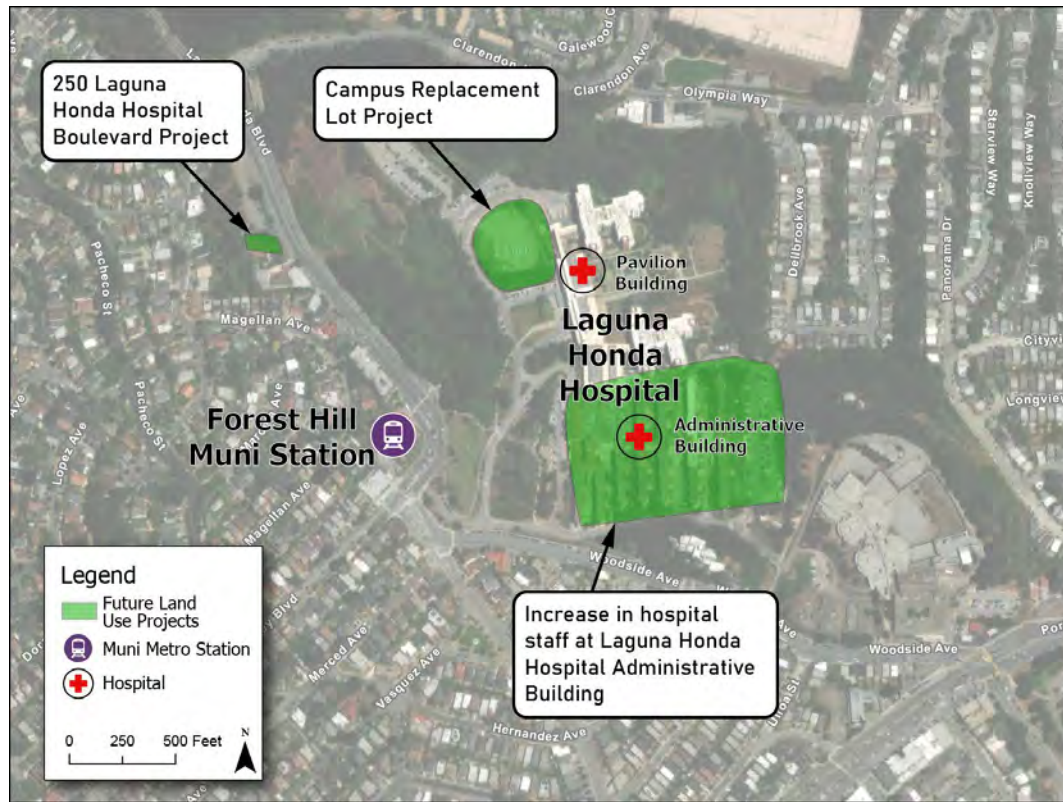


Table B-6. Future Land Use

DEVELOPMENT	LAND USE	SIZE	UNIT
Campus Replacement Lot Project	Residential Units	220 - 260	Units
	Early Childhood Center	5,000	SF
	Adult Day Health Center	8,000	SF
250 Laguna Honda Boulevard	Residential Units	172	Units
Increase in Hospital Staff		460	Staff

TRIP GENERATION

The Institute of Transportation Engineer’s (ITE) 11th Edition Trip Generation Manual was used to identify appropriate trip generation rates for future land use developments.

Existing Demand

KEY ASSUMPTIONS

- Replica data, both trips and people, was used to estimate existing demand
- Between 10% and 20% of transit and walking trips (9% and 13% of all trips respectively) were assumed to use the gondola. Other travel modes, such as private autos and biking, were assumed not to use the gondola
- A 'trip' is defined as "a movement by a person between places. A trip begins when a person leaves a place and ends when a person stops to do a non-travel activity in a place."¹ Therefore, a single person who arrives and then leaves the Study Area in one day will generate two trips
- The mode split for people was assumed to be the same as that for trips i.e. 9% of people use transit and 13% of people walk to and from the Study Area
- The existing occupancy of each of the Hospital buildings was used to determine the existing number of trips and people to each building
- Demand generated by the gondola itself (e.g.: transit enthusiasts, tourists, and other curiosity riders) is not accounted for in this analysis
- Only trips originating from and departing to the nine Bay Area counties were considered for this assessment

METHODOLOGY: NUMBER OF TRIPS

To estimate the potential existing demand for a gondola between the Hospital and Station, a review and analysis of the number and mode of trips to and from the Study Area was undertaken using Replica and SFMTA data.

The data provided by SFMTA differs significantly from the Replica data. SFMTA data indicates that there are 6,817 average weekday transit trips at the Station while Replica data indicates that there are only 561 average weekday transit trips at the Station. Due to the convergence of three separate Muni lines as well as four different bus routes, it is believed that the majority of trips at the Station are transfer trips with no destination in the Study Area. Comparing Replica and SFMTA data, as many as 92% of trips at the Station could be transfer trips (between Muni lines and/or between bus routes and

¹ Defined from Replica's methodology.

Muni lines). SFMTA was not able to differentiate transfer trips from origin/destination trips but as Replica's travel demand model is based on trip origin and destination, transfers occurring at the Station are not counted in the model which would explain the large discrepancy. Land use surrounding the Study Area, which is primarily single family dwelling units, supports this theory with the Hospital being the only significant trip generator in the area.

Due to the likelihood of the number of transfers occurring at the Station, existing demand for the gondola was based on Replica data.

Replica data indicates that trips to and from the Study Area are made using a variety of modes with the majority of trips being made by private autos. It is assumed that transit and walking trips would be the most likely users of the proposed gondola. Replica data indicates that 9% of trips are made by public transit and 13% are made by walking. Together this amounts to a total of 1,344 trips on an average weekday. It is recognized that not everyone who walks or takes transit would also take the gondola as people walking may come from many directions, not necessarily only between the Hospital and Station and transit riders may choose to walk. Therefore, it is assumed that between 10% and 20% of walking and transit trips would use the gondola and therefore the existing demand for the proposed gondola is expected to be between 134 and 269 average weekday trips. On the lower end, this is comparable to the current demand for the shuttle which would mean that shuttle trips would convert to gondola trips and on the upper end, the assumption is that 1 in 5 people walking or taking transit would use the shuttle.

To determine the number of trips to and from each Hospital building – Pavilion and Administrative building – occupancy data provided by SFDPH was considered. Of the 1,785 people living or working at the Hospital, 1,245 (70%) are associated with the Pavilion and 540 (30%) are associated with the Administrative building. If the same percentage of people associated with each building is applied to the number of trips, the number of trips to each building can be estimated. There are expected to be more trips to and from the Pavilion compared to the Administrative building.

The existing demand for the gondola in terms of number of trips is provide in Table B-7.

Table B-7. Existing Demand – Number of Trips

	TOTAL TRIPS	DEMAND	
		10%	20%
Weekday Trips	1,344	134	269
Peak Hour Trips	134	13	27
Pavilion (70%)	941	94	188
Administrative Building (30%)	403	40	81

METHODOLOGY: NUMBER OF PEOPLE

Arrivals

An analysis was also done to estimate the number of people that might use the proposed gondola on an average weekday. Replica estimates that there are 1,660 people arriving to the Study Area on an average weekday. These people are assumed to be hospital staff arriving at work, residents returning from trips outside of the Study Area, and visitors to the Study Area. By applying the same mode split as Replica's trip data (9% public transit and 13% walking) as well as the assumed gondola capture of 10% to 20%, it is estimated that approximately 37 and 73 people will ride the gondola between the Station and the Hospital on an average weekday.

Departures

Replica also estimates that there are approximately 2,110 people leaving the Study Area on an average weekday. These people are assumed to be hospital staff heading home from work, residents leaving home to run errands, etc., and visitors to the Study Area returning home. By applying the same mode split as Replica's trip data (9% public transit and 13% walking) as well as the assumed gondola capture of 10% to 20%, approximately 46 to 93 people are estimated to utilize the gondola between the Hospital and Station on an average weekday.

Arrivals and Departures per Hospital Building

Occupancy data provided by SFPHD was used to estimate the number of people traveling to each Hospital building – Pavilion and Administrative building. Of the 1,785 people living or working at the Hospital, 1,245 (70%) are associated with the Pavilion and 540 (30%) are associated with the Administrative building. If the same percentage of people associated with each building is applied to the number of people using the gondola (i.e. 70% of the 365 people arriving by transit or walking will be associated with the Pavilion), the number of people traveling to and from each building can be estimated. There are expected to be more people traveling to and from the Pavilion compared to the Administrative building.

The existing demand for the gondola in terms of number of people is provided in Table B-8.

Table B-8. Existing Demand – Number of People

		TOTAL PEOPLE	DEMAND	
			10%	20%
Weekday	Arriving	365	37	73
	Departing	464	46	93
Peak Hour	Arriving	37	4	7
	Departing	46	5	9
Pavilion (70%)	Arriving	256	26	51
	Departing	325	32	65
Administrative Building (30%)	Arriving	110	11	22
	Departing	139	14	28

Comparing the number of trips with the number of people shows that there are expected to be more trips than people traveling on the gondola. This indicates that some people travelling within the Study Area are expected to take multiple trips per day and will use the gondola to do so. This makes sense as workers and others who make day trips, would make at least two trips per day – one to the Study Area (e.g.: at the beginning of the day when arriving at work) and one from the Study Area (e.g.: at the end of the day to return home).

Future Demand

KEY ASSUMPTIONS

- Future travel patterns will remain consistent with current travel patterns (i.e. 9% of existing trips are made using public transit and therefore 9% of future trips will also be made using public transit)
- The gondola will capture 10% to 20% of future walking and transit trips
- The future early childhood center and adult day health center at the Campus Replacement Lot Project are not expected to generate any additional trips
- The future development at 250 Laguna Honda Boulevard is not expected to generate additional demand for the gondola

-
- The early childhood center at the Campus Replacement Lot Project will accommodate 40 children¹. It is assumed that these children will be between the ages of two and six and therefore, based on California regulations, four staff members would be needed (one for every 12 children)²
 - Each unit of the Campus Replacement Lot Project is assumed to house one resident
 - The Institute of Transportation Engineer's (ITE) 11th Edition Trip Generation Manual was used to determine potential future trips
 - Future demand estimates only account for known developments and staffing changes. Demand generated by the gondola itself (e.g.: transit enthusiasts, tourists, and other curiosity riders) is not accounted for in this analysis

METHODOLOGY: NUMBER OF TRIPS

The two new housing developments – Campus Replacement Lot Project and 250 Laguna Honda Boulevard – and the increase in staff personnel at the Hospital are expected to increase the number of trips to the Study Area and therefore the demand for the gondola in the future.

The Institute of Transportation Engineer's (ITE) 11th Edition Trip Generation Manual was used to determine the potential future trips that these new developments and increase in population would generate. Estimated trip generation is provided in Table B-9.

1 https://media.api.sf.gov/documents/Senior_Hsg_at_LHH_Health_Commission_Presentation_Final_with_appendices.cleaned.pdf

2 <https://rrnetwork.org/assets/general-files/Title-5-Title-22-Comparison-Chart.pdf>

Table B-9. Future Trip Generation Estimates

DEVELOPMENT	LAND USE	LAND USE CODE	SIZE AND UNIT	TRIP GENERATION RATE	TOTAL ESTIMATED TRIPS
Campus Replacement Lot Project	Senior Living Facility	251	240 units	4.31/unit	1,034
	Early Childhood Center	565	5,000 SF	47.62/1,000 sqft	238
	Adult Day Health Center	620	8,000 SF	6.75/1,000 sqft	54
250 Laguna Honda Boulevard	Affordable Housing Development	223	172 units	4.81/unit	827
Increase in Hospital Staff	Hospital Staff	610	460 staff	3.77/staff	1,734
TOTAL ESTIMATED FUTURE TRIPS					3,887

Trip Estimate Adjustment

Based on the expected future developments, it is estimated that almost 3,900 additional trips would be generated around the Study Area. It is assumed that the residents of 250 Laguna Honda Boulevard would not require regular access to the Hospital and therefore the demand for the gondola from this group is expected to be minimal and is removed from the future demand. Additionally, the early childhood center and adult day health center are assumed to be used by those already at the Hospital (hospital residents, staff, visitors, etc.). Therefore, these facilities are not expected to generate additional trips.

Removing those land uses results in an additional 2,768 trips. The travel patterns defined above for transit and walking (9% and 13% respectively) are applied to estimate future trip demand for the gondola as well as the expected capture of between 10% and 20%. Therefore, an additional demand of 61 to 122 average weekday gondola trips is estimated. Combined with the existing trips, the future demand for the gondola is estimated to be between 195 and 391 average weekday trips.

Future Trip Estimate Per Hospital Building

The future demand for each Hospital building – Pavilion and Administrative building – was determined by adding the existing demand at each building, which is equivalent to the existing number of people at each building, to the future number of people expected at each building based on the size and location of proposed future developments.

For the Pavilion, the Campus Replacement Lot Project is adjacent and would therefore increase the number of people and hence demand at the Pavilion. The 240 units of this development, which are assumed to amount to 240 residents, were added to the existing staff and resident population of the Pavilion (1,245). The new future estimate for the number of people associated with the Pavilion is therefore 1,485 people.

All 460 relocated SFDPH staff members will be associated with the Administrative building. Combined with the current 540 staff members working there, it is estimated that in the future 1,000 people will be associated with the Administrative building.

If the percentage of people associated with each building (60% for the Pavilion, 40% for the Administrative building) is applied to the number of trips, the number of trips to each building can be estimated as seen in Table B-10. Therefore, in the future, there are expected to be more trips to and from the Pavilion compared to the Administrative building.

Table B-10. Future Demand – Number of Trips

	TOTAL TRIPS	DEMAND	
		10%	20%
Existing Weekday Trips	1,344	134	269
Existing Peak Hour Trips	134	13	27
Future Weekday Trips	609	61	122
Future Peak Hour Trips	61	6	12
Total Future Weekday Trips	1,953	195	391
Total Future Peak Hour Trips	195	20	39
Pavilion (60%)	1,172	117	234
Administrative Building (40%)	781	78	156

METHODOLOGY: NUMBER OF PEOPLE

As noted previously, the adult day health center and 250 Laguna Boulevard development were excluded from the analysis as they are not expected to increase demand for the gondola.

The Campus Replacement Lot Project is estimated to have 240 new units. To convert the number of units to people, it was assumed that one person would be assigned

to each unit. The early childhood center is expected to accommodate 40 children¹. California regulations mandate that for supervising children between the ages of two and six, one adult staff member is needed per 12 children² which would mean that 44 people (40 children and 4 staff) are expected at the early childhood center. Therefore, the Campus Replacement Lot Project is expected to bring an additional 284 people to the Study Area.

Additionally, as noted previously, there are 460 SFDPH staff members who are being relocated to the Hospital, all of which will be located in the Administrative building.

Together, the new developments total 744 people that are expected to reside or visit the Study Area on an average weekday. Adding these new people to the existing people and applying the existing mode share and proposed capture rate of the gondola results in between 53 and 106 people using the gondola to travel between the Station and Hospital on an average weekday and between 63 and 126 people using the gondola to travel between the Hospital and Station on an average weekday. The split of people expected to visit the Pavilion versus the Administrative building (as described in the previous section) is shown in Table B-10.

Table B-11. Future Demand – Number of People

		TOTAL PEOPLE	DEMAND	
			10%	20%
Existing Weekday People	Arriving	365	37	73
	Departing	464	46	93
Existing Peak Hour People	Arriving	37	4	7
	Departing	46	5	9
Future Weekday People	Arriving	164	16	33
	Departing	164	16	33
Future Peak Hour People	Arriving	16	2	3
	Departing	16	2	3
Total Future Weekday People	Arriving	529	53	106
	Departing	628	63	126
Total Future Peak Hour People	Arriving	53	5	11
	Departing	63	6	13
Pavilion (60%) – Weekday	Arriving	317	32	63
	Departing	377	38	75
Administrative Building (40%) – Weekday	Arriving	212	21	42
	Departing	251	25	50

1 https://media.api.sf.gov/documents/Senior_Hsg_at_LHH_Health_Commission_Presentation_Final_with_appendices.cleaned.pdf

2 <https://rrnetwork.org/assets/general-files/Title-5-Title-22-Comparison-Chart.pdf>

Comparing the future number of trips with the future number of people shows that there are expected to be more trips than people traveling on the gondola. This indicates that some people traveling within the Study Area are expected to take multiple trips per day and will use the gondola to do so. This makes sense as workers and others who make day trips, would make at least two trips per day – one to the Study Area (e.g.: at the beginning of the day when arriving at work) and one from the Study Area (e.g.: at the end of the day to return home).

Conclusions and Key Findings

This Market Assessment shows the existing and future demand for a gondola system, with existing demand being driven by existing hospital staff, residents, and visitors and future demand being driven by future hospital staff and residents of planned developments.

Using Replica data and assuming that between 10% and 20% of transit and walking trips would potentially be users of the gondola, the existing demand for the gondola is 134 and 269 average weekday trips. The demand is expected to increase by between 61 and 122 trips, to a total of between 195 and 391 average weekday trips, with the addition of planned residential developments and increase in hospital staff. 10% of these trips, or between 20 and 39 trips, are expected to occur within the peak hour.

Similarly, Replica estimated that with existing demand the gondola may be expected to service between 37 and 73 people arriving at the Hospital and between 46 and 93 people leaving the Hospital on an average weekday. With the additional planned residential developments and increase in hospital staff the demand is expected to increase to between 53 and 106 people arriving at the Hospital and between 63 and 126 people leaving the Hospital on an average weekday.

The estimated existing and future demand for the gondola is summarized in Table B-12. The analysis shows that there is greater demand at the Pavilion compared to the Administrative building.

Table B-12. Summary of Peak Hour Shuttle/Gondola Demand Estimates

		EXISTING DEMAND		FUTURE DEMAND	
		10%		10%	20%
Trips	Weekday	134		195	391
	Peak Hour	13		20	39
People Arriving	Weekday	37		53	106
	Peak Hour	4		5	11
People Leaving	Weekday	46		63	126
	Peak Hour	5		6	13

The next phase of the Study will focus on further technical evaluation of potential alignment alternatives and assessment of capital and operating costs to inform the selection of a preferred alternative and support future funding opportunities.

APPENDIX C:

Ropeway Supplier Cost Estimates



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12/10/2025

Vanessa Peers
 Kimley-Horn

RE: Engineered Preliminary Pricing – Laguna Honda Hospital Pulse Gondola

Dear Vanessa,

Thank you for the opportunity to work with you and your team as you explore the project to connect the Laguna Honda Hospital site to Forest Hills station. We appreciate your trust in Leitner-Poma on this iconic project.

Per your request we are providing pricing on an engineered solution we feel best meets your needs.

Laguna Honda Hospital - December 2025										
Lift Name	Type	Slope Length (ft)	Vertical Rise (ft)	# Towers	Speed (fpm)	Travel Time (min)	Carrier Type	# Carriers	Capacity (pphpd)	Turnkey Equipment Price
Laguna Honda Hospital - Forest Hills Station	Pulse Gondola	522	29	3	600	2.4	Sigma Diamond 6-place Cabin	4	300	\$5,110,000
Options:										
Credit for foundation installation by Owner / General Contractor										(\$847,000)

- The pulse gondola would be composed of 4 six-passenger cabins operating in 2 groups of 2 cabins each continuously circulating through the system. This provides a capacity of 300 people per hour per direction, with a loading speed of 60 feet per minute.
 - This would mean a cabin group with a capacity of 12 people would leave the stations approximately every 2.4 minutes.
- The lift outlined above is bid with the following configuration:
 - Sigma DIAMOND line cabins, with comfort seating and double ventilation windows.
 - Galvanized towers and crossarms.
 - Sheave train cat walks on towers.
 - Diesel auxiliary and evacuation drives allowing continued operation in the event of a power failure.
 - LPOA provided lift control booths.
 - Turnkey installation of gondola foundations and all equipment.
 - Optional credit for Owner / General Contractor installing lift foundations, design by Leitner-Poma.
 - Pricing does NOT include loading / unloading platforms, walkways, buildings, approach ramps, etc.
 - Preliminary drawings and Technical Specifications are provided in our project Dropbox here: [Laguna Honda Gondola Project Dropbox](#)
 - Prices based on an order by February 1, 2026, and installation beginning in 2026.

After you have reviewed the information provided, we are happy to answer any questions you may have. Thank you again for the opportunity to earn your business,

Sincerely,

Kimley-Horn Preliminary Pricing

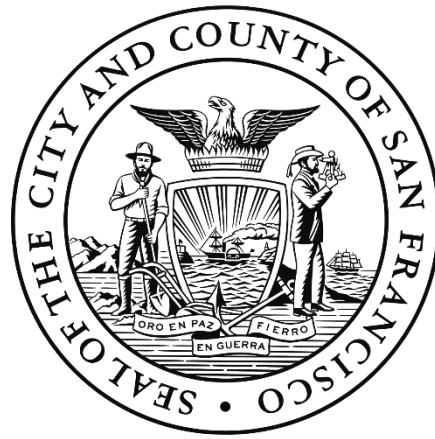
December 2025



Doppelmayr



Laguna Honda Hospital



Aerial Gondola Transportation

Informational Proposal

November 25, 2025

Contents

Introduction.....	1
Aerial Gondola Solutions	2
System Recommendation.....	2
Planning and Design	3
ROM Costs	4
Schedule	4
Next Steps.....	5
Reference Projects.....	6
Systems.....	6
Operations and Maintenance.....	6



Introduction

We at Doppelmayr are pleased to submit the following information and to formally express our strong interest in participating in the design and construction of a gondola transportation system for the Laguna Honda Hospital in San Francisco.

Doppelmayr is the world leader for mobility with ropeways. With our leading-edge transport systems, we continue to set new standards and shape the future. We have more than 3,000 employees in 50 countries worldwide and have installed more than 15,600 ropeways in 96 countries on six continents. We plan, develop, design, manufacture, build, support, operate, and maintain innovative projects. At Doppelmayr we offer complete packages with customized solutions, sustainable technology for generations, and reliable support throughout the product life cycle.

We understand the significant importance of this project as a critical transportation element for the hospital.

Thank you for your inquiry and for considering Doppelmayr for this project. We are eager to collaborate with you on this iconic and innovative transportation system.

Signed:



Shawn Marquardt
Sales Director
Doppelmayr USA, Inc.

Aerial Gondola Solutions

System Recommendation

Every ropeway system is unique; they vary by terrain, seasonality, speed, carrying capacity, and various other factors. Each project is built up out of a defined set of components which are selected and compiled to deliver the right solution for each transportation challenge.

For the Laguna Honda Hospital system, we have evaluated the passenger flow study that was provided. To achieve the target capacity of 39 passengers per hour we recommend the following system type:

2x1x8-MGFJ (8-passenger monocable gondola)

The system will consist of two 8-passenger cabins fixed to a haul-rope. When the system is at standstill one cabin will be positioned in each station. The system will operate on demand, as often as every 5 minutes, thus transporting up to 96 passengers per hour in both directions. This capacity is easily expandable if required for future increase. The haul rope will run at a maximum speed of ≈ 500 feet per minute, providing a smooth and quiet ride. Inside the stations, the cabins will decelerate to standstill, to allow for comfortable and easy boarding suitable for pedestrians, strollers, and wheelchairs.

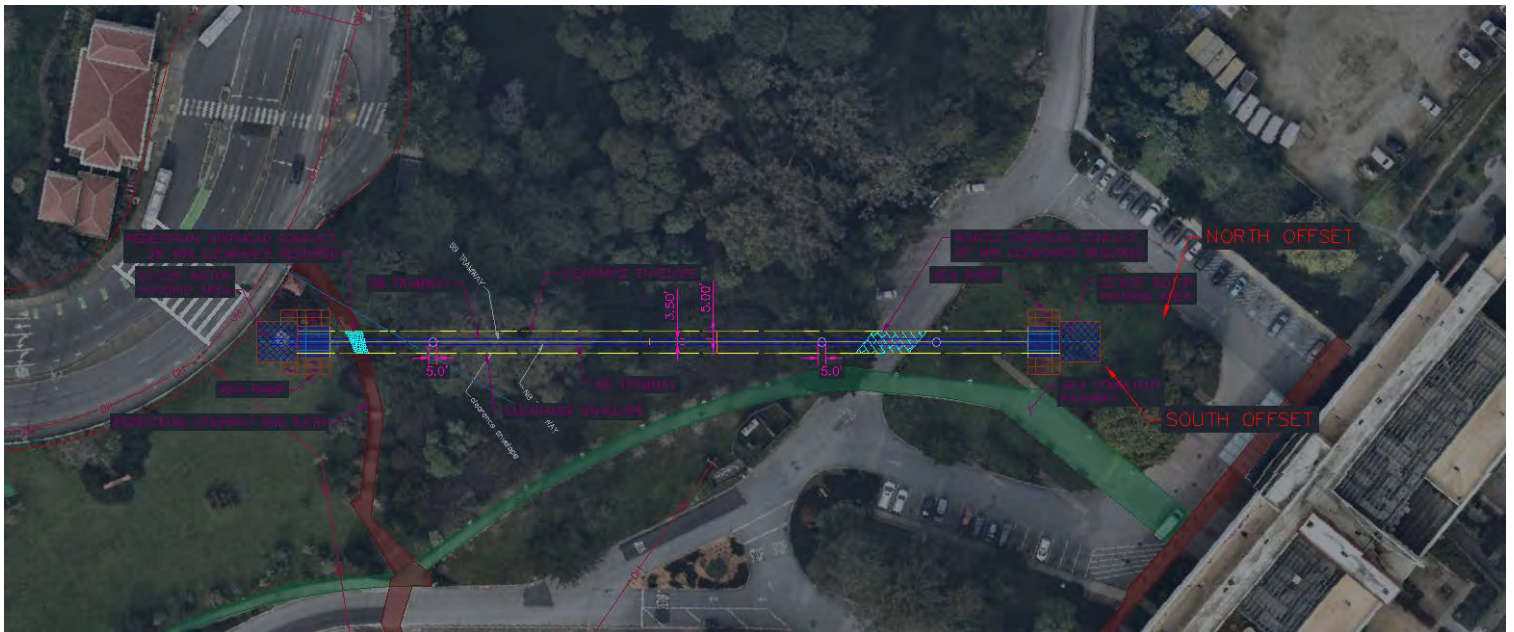


Planning and Design

Our goal is to ensure the gondola system will integrate seamlessly with the terrain and with the local aesthetic. With architectural collaboration, the stations can be customized and integrated into the locale.

We will work with your preferred designers and architects to ensure proper fit.

For this informational proposal we confirm feasibility for installing the system in the requested location as shown here.



ROM Costs

Category	ROM Cost
Facility Infrastructure and Construction <ul style="list-style-type: none"> • Architecture, station buildings, control rooms, passenger platforms, walkways, landscaping, electrical supply, etc. 	Variable
Civil Construction for Ropeway <ul style="list-style-type: none"> • Excavation and concrete foundations for two stations and five towers 	\$ 0.5M
Electro-Mechanical Ropeway Equipment <ul style="list-style-type: none"> • Including freight and engineering • Not including taxes and duties 	\$ 3.0M
Ropeway Construction and Commissioning <ul style="list-style-type: none"> • Assuming 4 months duration at the site after completion of civil work • Includes labor, equipment, expenses 	\$ 0.6M
Total Project ROM (not including facility infrastructure) <ul style="list-style-type: none"> • Project year 2027 	\$ 4.1M

Annual Maintenance and Operation	ROM Cost
<ul style="list-style-type: none"> • Technical Ropeway Operations • Pre-operational checks • Scheduled preventative maintenance according to maintenance manual • labor, equipment, expenses 	Variable

*Please consider +/- 10% tolerance on all ROM figures



Schedule

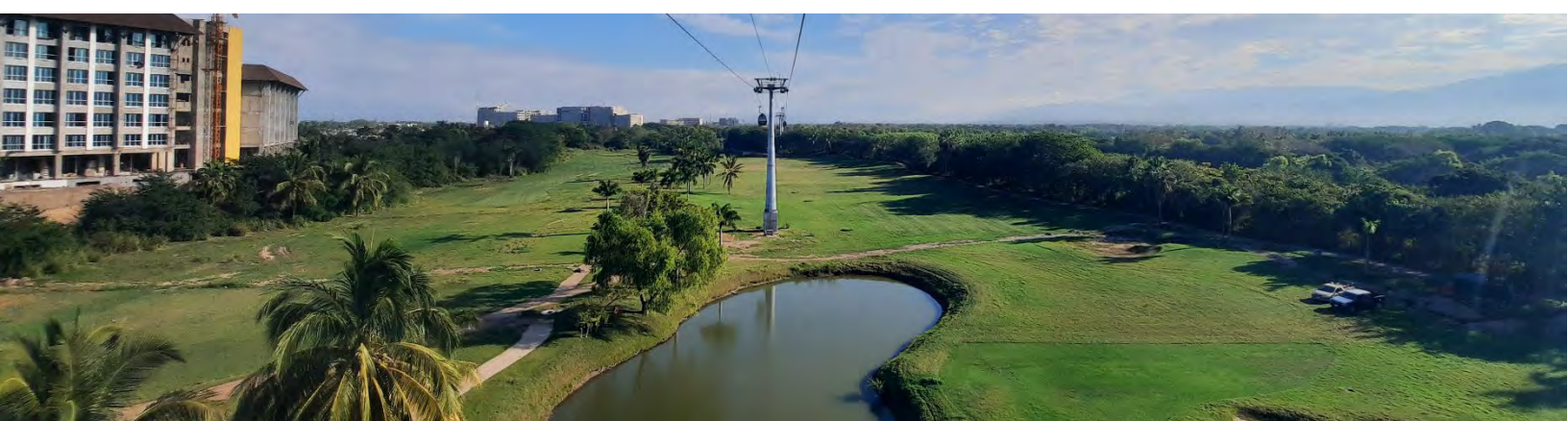
On average Doppelmayr completes more than 100 ropeways every year. A typical project timeline, from conception to completion, is two years.

For the Laguna Honda system we consider the following project phases and durations.

Project Phase	Duration
Architectural planning and design engineering	6-12 mo.
Production and shipping <ul style="list-style-type: none"> Carried out concurrently during planning phase and civil construction phase 	6 mo.
Civil Construction	2-4 mo.
Ropeway Construction	3 mo.
Facility Construction <ul style="list-style-type: none"> Carried out concurrently with Civil and Ropeway construction 	4-6 mo.
Estimated Total Project Duration <ul style="list-style-type: none"> After completion of design phase Depending on overall scope of facility infrastructure work 	6-18 mo.

Next Steps

We will follow your lead regarding next steps and follow up. We will be happy to provide additional information for you and your associates either in person or virtually. Additionally, we would be thrilled to host you at any of our existing project sites or at our facilities in either USA or Austria where we may visit any number of interesting systems in the region.



Reference Projects

Systems

With more than 15,000 ropeway installations worldwide, we have many reference projects to consider. Some very relevant recent projects are:

- Sterling Vineyards Gondola
- Vidanta Sky Dream Gondola
- Mannheim BUGA Gondola
- Hard Rock Stadium Gondola
- Paris Câble 1 Gondola
- Mexico City Cablebus Linea 3 Gondola

Operations and Maintenance

Doppelmayr provides operation and maintenance services for multiple ropeway systems around the world. Our O&M services are integral to providing reliable transportation in some of the most demanding environments. Our O&M specialists make up a globally interconnected web of expertise so experiences and information can be shared seamlessly to provide the very best service at each individual location.

Here in America, we have experience at multiple locations across the continent including:

- Las Vegas Nevada
- Miami Florida
- Orlando Florida
- Portland Oregon
- Oakland California
- Napa Valley California

We are proud to be present in some of America's most recognizable locations.

