Appendix I

Ridership Technical Memorandum



MEMORANDUM

TO: Stacy Cocke, Caltrain JPB

FROM: George Naylor, Santa Clara VTA

DATE: January 30, 2014

SUBJECT: Caltrain Peninsula Corridor Electrification Project – System Ridership Analysis

The system wide ridership forecasts prepared for the purposes of the Peninsula Corridor Electrification (PCEP) EIR does not imply that VTA endorses any subsequent findings made in the PCEP EIR, or in any other planning document, based on the ridership forecasts prepared by VTA staff.

Prototypical Caltrain schedules were assumed for the 2020 Project and the 2040 Project + Transbay Transit Center (TTC) scenarios. These schedules were assumed for the purposes of EIR analysis and do not represent a commitment of Caltrain service.

1.0 Introduction

The Peninsula Corridor Joint Powers Board (JPB) is in the planning and environmental phase of analysis for the Caltrain Peninsula Corridor Electrification Project. As part of the analysis, detailed ridership forecasts are required in order to determine system and station-level impacts and to provide inputs for air quality impacts. Ridership forecasts to produce primarily system-level results were prepared using the VTA Model for a base year 2013 validation for existing conditions, and for year 2020 and 2040 forecast horizons. No Project, Project and Project plus the Transbay Transit Center (TTC) scenarios were modeled for the years 2020 and 2040. No Project conditions for the Caltrain Corridor for both 2020 and 2040 reflected operations the same as service levels provided in existing year 2013, with different service configurations for the 2020 Project and 2040 Project plus TTC scenarios.

This technical memorandum summarizes the methodology used to prepare the ridership to support the ridership forecasts, and describes the base year 2013 and forecast year 2020 and 2040 ridership results. A description is also provided of the inputs and assumptions used in the preparation of the base and forecast ridership. It should be noted that the ridership forecasts produced by the VTA Model presented in this memorandum will be subsequently refined using other methods that will allow more detailed station-level impacts to be analyzed, using a process known as the Fehr & Peers Direct Ridership Model

(DRM). The methodology used to develop and apply the DRM is summarized in a separate technical memorandum.

2.0 Model Background

The travel demand model used to prepare the system wide ridership forecasts to support the Caltrain Peninsula Corridor Electrification Project is a version of the VTA Model developed for the San Mateo City/County Association of Governments in 2011. This version of the VTA Model was originally developed in 2009 by the Santa Clara Valley Transportation Authority to support the Grand Boulevard Initiative (GBI) Corridor Project and the San Mateo Countywide Transportation Plan (CTP) update. The VTA Model used in the CTP update was validated to year 2005 conditions and made use of the Association of Bay Area Governments (ABAG) Committed Regional Plans socioeconomic data forecasts (informally known as ABAG projections 2011) to develop forecast year 2035 projections.

Model Enhancements

For the Caltrain Electrification Project, the VTA Model was updated to reflect 2013 base year conditions, and the model was adjusted and validated to year 2013 Caltrain system ridership. Caltrain system ridership has been increasing significantly since 2005, and it was important that the model accurately reflect the current high level of ridership. The 2013 model networks were updated from the original base year 2005 for both transit and highway network changes, including a comprehensive update of both public and private shuttles serving the Caltrain corridor. Once the base year 2013 model was validated to observed travel patterns, the VTA Model was then used to prepare forecast year ridership and output for the project horizon years of 2020 and 2040, using updated socioeconomic data forecasts prepared by ABAG and updated background transportation improvements as defined in the recently adopted Plan Bay Area Regional Transportation Plan.

3.0 Model Inputs

ABAG Socioeconomic Data Projections

The socioeconomic data sets used as inputs to prepare the ridership forecasts were based on the ABAG Sustainable Community Scenario (SCS) prepared in September 2012. These datasets were officially adopted in July 2013 by the Metropolitan Transportation Commission (MTC), and are used to establish regional model consistency for models used by the Congestion Management Agencies (CMAs), and were used to develop the regional travel demand forecasts for Plan Bay Area. MTC provided the socioeconomic data at the 1,454 Regional model Travel Analysis Zone (RTAZ) level for years 2010 to 2040 in 5 year increments. Project staff allocated the RTAZ level forecasts to the smaller TAZs used in the VTA Model. Data for the base year 2013 was developed by interpolating year 2010 and 2015 MTC RTAZ forecasts. Allocation factors from the previous set of VTA model socioeconomic data used in the San Mateo CTP were used to distribute growth from the RTAZ level to the VTA Model TAZs for the base year 2013 and forecast years 2020 and 2040. Table 1 shows households, population and jobs for the years 2013, 2020 and 2040 for the project corridor. Overall, the Caltrain service area is projected to experience significant growth in households, population and jobs, with fairly balanced levels of growth

spread out between the three Counties that comprise the service area. In the short term horizon from 2013 to 2020, jobs are increasing as a percentage of totals faster than either households or population. However, in the long-term horizon from 2013 to 2040, households and population increase as a percentage basis at a similar pace as jobs. Santa Clara County households, population and jobs grow at a slightly faster rate than San Francisco and San Mateo Counties on both a percentage and absolute basis.

Table 1 Project Corridor Population and Jobs for 2013, 2020 and 2040¹

| San Francisco County | 2013 | 2020 | Percent Increase 2013 to 2020 | 2040 | Percent Increase 2013 to 2040 |
|-------------------------|-----------|-----------|-------------------------------------|-----------|-------------------------------------|
| Households | 355,600 | 379,100 | 6.6% | 447,200 | 25.8% |
| Population | 824,200 | 884,300 | 7.3% | 1,076,300 | 30.6% |
| Jobs | 598,000 | 671,600 | 12.3% | 760,200 | 27.1% |
| San Mateo County | 2013 | 2020 | Percent Increase 2013 to 2020 | 2040 | Percent Increase 2013 to 2040 |
| Households | 263,400 | 276,900 | 5.1% | 316,900 | 20.3% |
| Population | 730,800 | 772,000 | 5.6% | 899,200 | 23.0% |
| Jobs | 366,000 | 412,100 | 12.6% | 462,900 | 26.5% |
| Santa Clara County | 2013 | 2020 | Percent Increase 2013 to 2020 | 2040 | Percent Increase 2013 to 2040 |
| Households | 624,300 | 672,500 | 7.7% | 819,600 | 31.3% |
| Population | 1,828,700 | 1,959,900 | 7.2% | 2,411,700 | 31.9% |
| Jobs | 978,600 | 1,103,000 | 12.7% | 1,263,800 | 29.1% |
| Service Area Total | 2013 | 2020 | Percent Increase 2013 to 2020 | 2040 | Percent Increase 2013 to 2040 |
| Households | 1,243,300 | 1,328,500 | 6.9% | 1,583,700 | 27.4% |
| Population | 3,383,700 | 3,616,200 | 6.9% | 4,387,200 | 29.7% |
| Jobs | 1,942,600 | 2,186,700 | 12.6% | 2,486,900 | 28.0% |

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¹ At the time of the project start, the available Draft ABAG Sustainable Community Strategies (Projections 2013) regional demographic forecasts were used to develop ridership forecasts. These projections were released by ABAG in September 2012. In late 2013, ABAG and MTC released updated final versions of the regional projections. These have been reviewed and while there are differences in the forecasts, primarily due to a correction of missing jobs at SFO and corrections to areas showing large decreases in jobs in the ABAG September 2012 version, overall system ridership is not expected to be significantly different. Therefore, the ridership forecasts presented in this report are expected to be reasonable for the purposes of the EIR evaluation of alternatives.

Roadway and Transit Networks

Roadway and transit networks for the base year 2013 were coded based on changes from the previous 2005 base year networks. These changes included transit schedule and service changes for Caltrain as well as for the background connecting transit systems of BART, MUNI, SamTrans and VTA. Most changes to the background transit systems were relatively minor, with the exception of SamTrans, as significant modifications to the service levels of 2005 were implemented to develop the new base year 2013, particularly for express bus service. The most significant change implemented by SamTrans between 2005 and the base year 2013 consisted of reducing and modifying express bus service throughout San Mateo County, resulting in the operation of only the SamTrans Express Route K, which provides service along the El Camino Real and US 101 corridor to and from San Francisco. Caltrain is served by a variety of shuttles that complete the first and last mile connections to rider origins and destinations. These shuttles are provided by both public and private operators. The existing year 2005 VTA Model contained all public Caltrain shuttles and many private shuttles operated at Mountain View Caltrain Station, however, there were found to be many private shuttles observed to be in operation but not coded in the base transit networks. Caltrain staff and consultant staff provided a list of private shuttles and these were coded into the model networks if the destination was obvious. A list of coded private shuttles added to the base year 2013 networks is provided in Table 2.

In addition, changes to roadway networks were coded to reflect changes from 2005 to 2013, including the recently opened auxiliary lanes on US 101 between Marsh Road and University Avenue, the full implementation of ramp metering along US 101 and the completion of carpool lanes in I-880 and the Route 237 Express Lanes in Santa Clara County. For the forecast years, the project list from Plan Bay Area was used to code in improvements for the forecast year 2020 and 2040. Year of opening for projects identified in Plan Bay Area were provided by MTC for each project. The year of opening was evaluated by the project team for major transit capital projects within the PCEP corridor to refine year 2020 and 2040 background transit network assumptions. The list of assumed background highway and transit projects by year of operation is shown in Table 3.

Caltrain Schedules and Service Levels for Base Year 2013 and 2020 Project and 2040 Project + TTC Conditions

For the base year 2013, existing Caltrain schedules were used to code in services used in the base year validation. Transit services are coded in the model networks to reflect AM peak period service levels, typically from 6 AM to 9 AM, and mid-day 2-hour service levels reflecting service from 11 AM to 1 PM. For the forecast year 2020 and 2040, the base year 2013 coded networks reflected the No Project conditions. Project alternative coding was based on schedules provided by Caltrain staff to reflect year 2020 PCEP with mixed-fleet operations of both diesel vehicles and electrified (EMU) vehicles and year 2040 to reflect a fully electrified (EMU) fleet between San Jose and San Francisco and extension of some service to the TTC. The schedules for year 2020 PCEP (mixed fleet) and 2040 Project + TTC (full EMU between SJ – SF & diesel shuttle between SJ - Gilroy) were used to code the transit networks are provided in Appendix A of this memorandum.

Table 2 Private Shuttle Services in the Base Year 2013 Transit Networks

| SHUTTLE PROVIDERS at Mountain View Caltrain | ROUTE or BUSINESS SERVING |
|---|-------------------------------------|
| Abbott Vascular Shuttle | Abbott Vascular |
| Bauers | Cisco |
| Corinthian | Netflix |
| Corinthian | Oracle |
| Kehillah School Shuttle | Kehillah School (Not coded) |
| Google | Google |
| Lux Bus America | Apple |
| Parking Company of America | Packard Foundation |
| SFO Hotel Shuttle | LinkedIn |
| SFO Airporter | Yahoo |
| Silicon Valley (Worldwide Ground Trans.) | Samsung |
| Space Systems Loral | Loral |
| The Girls Middle School Shuttle | The Girls Middle School (Not coded) |
| UCSC Vanpool | UCSC |
| Veoila | Microsoft |
| SHUTTLE PROVIDERS at Palo Alto Caltrain | ROUTE or BUSINESS SERVING |
| Parking Company of America | Nook |
| SFO Hotel Shuttle | Facebook |
| Stanford Marguerite | Stanford |
| SHUTTLE PROVIDER at Redwood City Caltrain | ROUTE or BUSINESS SERVING |
| Kaiser Hospital Shuttle | Kaiser |
| SHUTTLE PROVIDER at San Carlos | |
| SFO Airporter | Google |
| SHUTTLE PROVIDERS AT MILLBRAE | ROUTE or BUSINESS SERVING |
| Pure Luxury Transportation | Visa |
| Corinthian | Solar City, GoPro |
| SFO Airporter | Google, San Francisco |
| SHUTTLE PROVIDERS AT SF 4 th /KING | ROUTE or BUSINESS SERVING |
| GAP | GAP Headquarters |
| UCSF | UCSF |

Table 3 List of Background Transit Projects for Forecast Year 2020 and 2040

| Item | Description | Jurisdiction | 2020 | 2040 | Related | Notes |
|------|---|---------------|------|------|----------|--|
| 1 | Transbay Transit Center Phase 1 | Multi-County | Υ | Υ | | |
| 2 | Caltrain Service Improvements (6 peak trains, Electrification, CBOSS, PTC | Multi-County | Υ | Υ | | Peninsula Corridor Elec. EIR Project |
| 3 | Transbay Center/Caltrain DTX Phase 2 | Multi-County | N | Υ | | |
| 4 | Union City Intermodal, Dumbarton Rail Corridor (DRC) Segment G Improvement | Alameda | Υ | Y | | Capitol Corridor to Union City (2020 opening year) |
| 5 | Commuter Rail service - Peninsula and East Bay (DRC service) | Alameda | N | Υ | | 3 alts (TSM, shuttle & SF/SJ); assumed rail opt. |
| 6 | Southern Intermodal Terminal - MUNI T line to Caltrain Bayshore | San Francisco | N | Υ | 6, 9, 23 | Bi-County Plan says 2020 - 2025 opening year |
| 7 | SF Congestion Pricing - CBD Cordon | San Francisco | Υ | Υ | | Not transit, but influences EIR Project |
| 8 | Redwood City to SF Ferry Service | San Mateo | N | Υ | | Per RWC staff |
| 9 | Caltrain Bayshore Intermodal Terminal | San Mateo | Υ | Υ | 6, 9, 23 | Bi-County Plan says 2015-2020 opening year |
| 10 | SamTrans BRT - Palo Alto to Daly City | San Mateo | Υ | Υ | 10, 11 | |
| 11 | Infrastructure to support SamTrans Rapid Bus | San Mateo | Υ | Υ | 10, 11 | Should have infrastructure & rapid bus by 2020 |
| 12 | Mineta San Jose APM Connector | Santa Clara | N | Υ | | |
| 13 | El Camino Real BRT | Santa Clara | Υ | Υ | | 2018 opening year |
| 14 | Stevens Creek BRT | Santa Clara | Υ | Υ | | 2018 opening year |
| 15 | BART Extension to Berryessa | Santa Clara | Υ | Υ | | 2018 opening year |
| 16 | BART Extension to Santa Clara (Phase 2) | Santa Clara | N | Υ | | 2024 opening year |
| 17 | Tasman Express Long-T Alum Rock to MTV | Santa Clara | Υ | Υ | | 2018 opening year |
| 18 | Van Ness BRT "Center A" Scenario | San Francisco | Υ | Υ | | |
| 19 | MUNI T Line Central Subway to Chinatown | San Francisco | Υ | Υ | | 2018 opening year |
| 20 | MUNI E Line | San Francisco | N | Υ | | Extend F line to Fort Mason |
| 21 | Ferry Service to Treasure Island | San Francisco | N | Υ | | Likely minimum impact to Caltrain EIR Project |
| 22 | Geary BRT | San Francisco | Υ | Υ | | 2020 opening year; DIER in 1 year |

| Item | Description | Jurisdiction | 2020 | 2040 | Related | Notes |
|------|--|---------------|------|------|----------|---|
| 23 | Geneva-Harney BRT | San Francisco | Υ | Υ | 6, 9, 23 | Bi-County Plan assumes 2015-2020 opening year |
| 24 | Central Subway to North Beach | San Francisco | N | Υ | | |
| 25 | SMART Rail | Multi-County | Υ | Υ | | 2016 opening year |
| 26 | Oakland BRT (Telegraph BRT - AC Transit) | Alameda | Υ | Υ | | 2020 opening year |

Pricing

Pricing assumptions used in the base year 2013 and forecast years 2020 and 2040 for auto parking charges were consistent with parking costs used by MTC in Plan Bay Area. Auto parking costs are assumed to increase over time at a rate faster than inflation, and are estimated to increase according to increases in employment density at the destination end of the trip. Bridge tolls are also consistent with values used by MTC in Plan Bay Area, and are assumed to keep pace with inflation and therefore are not adjusted for the forecast years 2020 and 2040. Transit fares for the corridor operators were based on year 2013 fares and transfer fares. Caltrain fares reflected year 2013 zone-based fares. Transit fares are assumed to keep pace with inflation, and are therefore not adjusted for the forecast years 2020 and 2040. A daily parking charge of \$4 per day was applied to the Caltrain lots that implement a parking charge. The parking rate was increased to \$5 per day for the year 2020 and 2040 forecast horizons.

4.0 Base Year 2013 Model Validation

Model validation is the process where the estimates of travel demand generated by the simulation models are compared to observed count data. Various model parameters are adjusted to achieve a close comparison to the counts within a certain error target. For this project, the goal of validation was for the model to be within 5 percent error of daily system ridership for Caltrain, and within 10 percent error for Caltrain stations summarized at the County-level, 15 percent error for all other transit operators in the corridor system wide park-and-ride demand to within 10 percent error. It should be noted that given that the VTA Model estimates travel demand for 13 Counties for a population of over 8 million, and it is unrealistic for the models to provide station-level error estimates of even less than 15 percent error unless significant time and resources are expended. Therefore, the strategy for model validation was to meet the validation goals at the system level, and then use a Direct Ridership Model (DRM) developed by Fehr and Peers Associates, Inc. to provide more detailed station-level results used in the station impact analysis. The methodology used to develop and apply the DRM is summarized in a separate technical memorandum.

Once the 2013 socioeconomic data, networks and pricing inputs were updated, the VTA model was implemented to reflect the new base year 2013 conditions. The VTA Model generates transit boardings by operator at the station and stop level of detail, and are also capable of estimating the mode of access and egress for transit boardings. The VTA Model was applied in an iterative manner with subsequent model runs devised to improve the validation results. During the course of validation, the models were systematically reviewed to ensure that the detailed network coding inputs were correct if station boardings were outside of an acceptable error range. A helpful piece of information used to refine the model validation were the results of the intercept surveys (June 2013)of riders that identified the mode of access used when boarding the station. Using this information, the network coding for the mode of access was modified to more accurately reflect the estimated mode of access at each station.

The following corrections were implemented to improve the validation results:

- Drive-access connectors to stations were added to San Francisco Caltrain stations at King/4th
 and 22nd Street to reflect the informal park-and-ride that occurs at these stations based on the
 intercept surveys,
- Reviewing coded frequencies and alignments of public bus feeder services to improve transit access shares,
- Private shuttles were added to improve boardings at specific stations (based on information shown in Table 2), and
- Comprehensive review of drive-access connectors to all stations supplemented with field observations of park-and-ride demand to verify model estimates.

The final results of the modeled daily boarding estimates for each Caltrain station are provided in Table 4. Overall, the model estimates system wide ridership to within 1.4 % error and between -0.4 % to 10.9 % error at the County level, close to meeting the validation goals. At the individual station level, the results have a much wider range of variation, with stations exhibiting a low boarding volume more problematic in matching than the high volume stations. Express train stations, which exhibit the most passenger volume, are within -3.9 % error.

Table 5 summarizes the park-and-ride demand predicted by the models compared to the observed park-and-ride demand counted at each station. As previously mentioned, considerable time and attention was paid to the park-and-ride estimates generated by the models supplemented by field reviews of the parking behavior at particularly problematic stations. In addition to the actual counted spaces occupied at each station, counts were supplemented with data from the intercept surveys as well as a determination by JPB staff as to adjacent parking spaces available off site. When this parking demand was accounted for in the observed spaces, the model estimated improved significantly, however, system wide, the model overestimates park-and-ride demand by over 50 percent of observed. This systematic overestimation will be accounted for and improved in the DRM station level estimates used to define station level impacts in the environmental analysis.

Table 6 shows a comparison of the daily boardings by each operator in the corridor. Overall transit boardings estimated by the models are within 1 percent of the observed boardings, however, there is significant variation between the operators. Caltrain and BART system estimates are closest to observed values, with MUNI Metro and bus showing slightly better results compared to both VTA and SamTrans. As with the Caltrain system comparisons, the model is much more accurate for larger corridor comparisons and becomes less accurate at more detailed levels. Tables 7 and 8 provide the boardings summarized by mode of access. The mode of access is the means by which the rider accesses the station. The VTA Model is capable of estimating mode of access for walk, park-and-ride, kiss-and-ride and transit. Table 7 shows the boardings split out by the mode of access to each station. Table 8 shows a comparison of the mode of access percentages estimated by the models to the observed percentages developed from the station intercept surveys. As with the previous model metrics, the model is much more accurate at the system level with significant variation for individual stations. It should be noted that a significant limitation of the VTA Model is that the models are not able to estimate bike mode of

access to transit. Few if any regional models are capable of estimating bike mode of access to transit (none in the Bay Area have this capability) and this is a market segment that has grown significantly for Caltrain, now reaching up to 14% of all boardings using bike access modes – higher than the transit access shares. Since there is an obvious mismatch with the mode of access comparisons between what the VTA Model is capable of providing and the observed market shares, it is difficult to assess the accuracy of the VTA Model for mode of access estimation, however, at a system level the model predicts shares of walk and drive access close to observed shares. The Fehr & Peers DRM includes bike mode of access.

Table 4 Base Year 2013 Caltrain Boardings – Model Validation Results

| Station | Modeled Boardings | Observed Boardings | Modeled - Observed Boardings | Percent Error from Observed |
|------------------|----------------------|-----------------------|------------------------------------|-----------------------------|
| SF | 10,307 | 10,760 | -453 | -4.2% |
| 22 nd | 1,439 | 1,303 | 136 | 10.4% |
| Bayshore | 458 | 190 | 268 | 141.1% |
| SSF | 782 | 373 | 409 | 109.8% |
| San Bruno | 631 | 451 | 180 | 39.8% |
| Millbrae | 2,316 | 3,259 | -943 | -28.9% |
| Broadway | 0 | 0 | 0 | NA |
| Burlingame | 1,032 | 780 | 252 | 32.3% |
| San Mateo | 1,870 | 1,570 | 300 | 19.1% |
| Hayward Park | 508 | 334 | 174 | 52.0% |
| Hillsdale | 2,617 | 2,278 | 339 | 14.9% |
| Belmont | 613 | 508 | 105 | 20.7% |
| San Carlos | 1,544 | 1,170 | 374 | 32.0% |
| Redwood City | 2,882 | 2,588 | 294 | 11.4% |
| Atherton | 0 | 0 | 0 | NA |
| Menlo Park | 1,707 | 1,571 | 136 | 8.7% |
| Palo Alto | 5,727 | 5,613 | 114 | 2.0% |
| Cal Avenue | 1,075 | 1,261 | -186 | -14.7% |
| San Antonio | 583 | 643 | -60 | -9.3% |
| Mountain View | 3,262 | 3,834 | -572 | -14.9% |
| Sunnyvale | 1,710 | 2,272 | -562 | -24.7% |
| Lawrence | 853 | 688 | 165 | 24.0% |
| Santa Clara | 756 | 792 | -36 | -4.6% |
| College Park | 51 | 118 | -67 | -57.0% |
| Diridon | 3,583 | 3,523 | 60 | 1.7% |
| Tamien | 692 | 783 | -91 | -11.6% |
| Capitol | 89 | 39 | 50 | 128.1% |
| Blossom Hill | 107 | 63 | 44 | 69.8% |
| Morgan Hill | 92 | 129 | -37 | -28.8% |
| San Martin | 78 | 45 | 33 | 72.9% |
| Gilroy | 350 | 128 | 222 | 173.7% |

| Station | Modeled Boardings | Observed Boardings | Modeled - Observed Boardings | Percent Error from Observed |
|------------------------|----------------------|-----------------------|------------------------------------|-----------------------------|
| All | 47,715 | 47,066 | 649 | 1.4% |
| | | | | |
| SF County Stations | 12,204 | 12,253 | -49 | -0.4% |
| SM County Stations | 16,502 | 14,882 | 1,620 | 10.9% |
| SCL County Station | 19,009 | 19,931 | -922 | -4.6% |
| Express Train Stations | 35,551 | 37,001 | -1,450 | -3.9% |

Table 5 Base Year Validation 2013 Caltrain Estimated Park-and-Ride Space Demand

| | | Α | В | С | D | E | F |
|--------------------------|---|---------------------------------------|---|--|--|--|---|
| Station | Existing Caltrain Lot Capacity | Modeled Park and Ride Demand | Observed Park and Ride Utilization | Model - Observed Park and Ride Demand (A - B) | Possible Spaces in Adjacent Parking Lots | Implied On-Street Parking from Intercept Surveys | Parking Space Estimate Error (C - (D+E)) |
| SF 4 th /King | 0 | 543 | 0 | 543 | 0 | 75 | 468 |
| 22nd * | 0 | 745 | 0 | 745 | 0 | 304 | 441 |
| Bayshore | 38 | 24 | 5 | 19 | 0 | 19 | 0 |
| SSF | 75 | 123 | 40 | 83 | 0 | 0 | 83 |
| San Bruno | 171 | 42 | 36 | 6 | 0 | 33 | -27 |
| Millbrae | 175 | 517 | 133 | 384 | 0 | 23 | 361 |
| Broadway | 137 | NA | NA | NA | NA | NA | NA |
| Burlingame | 58 | 145 | 21 | 124 | 0 | 9 | 115 |
| San Mateo | 40 | 476 | 9 | 467 | 245 | 0 | 222 |
| Hayward Park | 213 | 77 | 5 | 72 | 0 | 3 | 69 |
| Hillsdale | 518 | 983 | 445 | 538 | 0 | 66 | 472 |
| Belmont | 375 | 167 | 79 | 88 | 0 | 2 | 86 |
| San Carlos | 212 | 352 | 72 | 280 | 0 | 61 | 219 |
| Redwood City | 557 | 465 | 259 | 206 | 0 | 31 | 175 |
| Atherton | 0 | NA | NA | NA | NA | NA | NA |
| Menlo Park | 155 | 275 | 53 | 222 | 0 | 32 | 190 |
| Palo Alto | 389 | 366 | 383 | -17 | 0 | 22 | -39 |
| Cal Avenue | 185 | 191 | 65 | 126 | 0 | 8 | 118 |
| San Antonio | 199 | 109 | 65 | 44 | 65 | 12 | -33 |
| Mountain View | 340 | 605 | 325 | 280 | 0 | 114 | 166 |
| Sunnyvale | 439 | 670 | 491 | 179 | 0 | 171 | 8 |
| Lawrence | 122 | 69 | 93 | -24 | 0 | 32 | -56 |
| Santa Clara | 289 | 130 | 319 | -189 | 0 | 20 | -209 |
| College Park | 0 | NA | NA | NA | NA | NA | NA |

| | | Α | В | С | D | Е | F |
|---------------------------|---|---------------------------------------|---|---|--|--|---|
| Station | Existing Caltrain Lot Capacity | Modeled Park and Ride Demand | Observed Park and Ride Utilization | Model - Observed Park and Ride Demand | Possible Spaces in Adjacent Parking Lots | Implied On-Street Parking from Intercept Surveys | Parking Space Estimate Error (C - (D+E)) |
| Diridon | 581 | 747 | 593 | 154 | 100 | 116 | -62 |
| Tamien | 275 | 379 | 275 | 104 | 0 | 54 | 50 |
| Capitol | 379 | 44 | 52 | -8 | 0 | 0 | -8 |
| Blossom Hill | 425 | 57 | 57 | 0 | 0 | 0 | 0 |
| Morgan Hill | 486 | 55 | 148 | -93 | 0 | 0 | -93 |
| San Martin | 167 | 30 | 69 | -39 | 0 | 0 | -39 |
| Gilroy | 471 | 60 | 196 | -136 | 0 | 0 | -136 |
| All | 7,471 | 8,449 | 4,288 | 4,161 | 410 | 1,207 | 2,544 |
| | | | | | | | |
| SF County Stations | 38 | 1,312 | 5 | 1,307 | 0 | 398 | 909 |
| SM County Stations | 2,686 | 3,623 | 1,152 | 2,471 | 245 | 260 | 1,966 |
| SCL County Station | 4,747 | 3,513 | 3,131 | 382 | 165 | 549 | -332 |
| Express Train Stations | 3,154 | 5,918 | 2,682 | 3,236 | 100 | 954 | 2,182 |

^{*} No Formal PNR Lot at SF 4th/King and 22nd Street Station PNR Spaces from Caltrain JPB and VTA 2012/2013

Table 6 Base Year Validation 2013 Model Estimated Daily Boardings by Transit Operator in the Project Corridor

| Operator | Estimated | Observed | Estimated/Observed |
|-------------------------------|-----------|--------------------|--------------------|
| Caltrain | 47,700 | 47,100 | 1.01 |
| BART | 367,900 | 366,600 | 1.00 |
| SamTrans Local Bus | 50,500 | 39,800 | 1.27 |
| SamTrans Express Bus | 1,000 | 1,300 | 0.77 |
| VTA Light Rail | 40,700 | 34,600 | 1.18 |
| VTA Bus | 124,900 | 103,100 | 1.21 |
| MUNI Metro | 158,600 | 173,500 | 0.91 |
| MUNI Bus | 513,600 | 531,700 | 0.97 |
| Subtotal | 1,304,900 | 1,297,700 | 1.01 |
| Shuttles (Caltrain + Private) | 11,400 | 8,448 ² | |

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² Only includes public shuttle ridership for FY2013.

Table 7 Base Year 2013 Caltrain Boardings by Mode of Access by Station

| STATION | Walk | PNR | KNR | Transit | All | Walk | PNR | KNR | Transit | All |
|---------------------------|--------|--------|-------|---------|--------|-------|-------|-------|---------|-------|
| | Ons | Ons | Ons | Ons | Ons | Share | Share | Share | Share | Share |
| SF | 832 | 1,195 | 131 | 4,143 | 6,301 | 13% | 19% | 2% | 66% | 100% |
| 22nd | 256 | 1,639 | 314 | 396 | 2,605 | 10% | 63% | 12% | 15% | 100% |
| Bayshore | 0 | 53 | 9 | 677 | 739 | 0% | 7% | 1% | 92% | 100% |
| SSF | 561 | 271 | 61 | 51 | 944 | 59% | 29% | 6% | 5% | 100% |
| San Bruno | 842 | 92 | 21 | 89 | 1,044 | 81% | 9% | 2% | 9% | 100% |
| Millbrae | 399 | 1,137 | 221 | 716 | 2,473 | 16% | 46% | 9% | 29% | 100% |
| Broadway | 8 | 0 | 0 | -8 | 0 | 0% | 0% | 0% | 0% | 0% |
| Burlingame | 889 | 319 | 61 | 66 | 1,335 | 67% | 24% | 5% | 5% | 100% |
| San Mateo | 1,354 | 1,048 | 210 | 134 | 2,746 | 49% | 38% | 8% | 5% | 100% |
| Hayward Park | 213 | 170 | 31 | 0 | 414 | 51% | 41% | 7% | 0% | 100% |
| Hillsdale | 853 | 2,163 | 424 | 473 | 3,913 | 22% | 55% | 11% | 12% | 100% |
| Belmont | 355 | 367 | 72 | 90 | 884 | 40% | 42% | 8% | 10% | 100% |
| San Carlos | 295 | 774 | 144 | 718 | 1,931 | 15% | 40% | 7% | 37% | 100% |
| Redwood City | 796 | 1,024 | 195 | 1,582 | 3,597 | 22% | 28% | 5% | 44% | 100% |
| Atherton | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0% | 0% | 0% |
| Menlo Park | 303 | 606 | 112 | 1,732 | 2,753 | 11% | 22% | 4% | 63% | 100% |
| Palo Alto | 727 | 806 | 136 | 267 | 1,936 | 38% | 42% | 7% | 14% | 100% |
| Cal Avenue | 232 | 421 | 84 | 35 | 772 | 30% | 55% | 11% | 5% | 100% |
| San Antonio | 495 | 240 | 46 | 56 | 837 | 59% | 29% | 5% | 7% | 100% |
| Mountain View | 531 | 1,331 | 271 | 246 | 2,379 | 22% | 56% | 11% | 10% | 100% |
| Sunnyvale | 414 | 1,475 | 295 | 329 | 2,513 | 16% | 59% | 12% | 13% | 100% |
| Lawrence | 343 | 152 | 29 | 1 | 525 | 65% | 29% | 6% | 0% | 100% |
| Santa Clara | 89 | 285 | 53 | 271 | 698 | 13% | 41% | 8% | 39% | 100% |
| College Park | 3 | 0 | 0 | 0 | 3 | 100% | 0% | 0% | 0% | 100% |
| Diridon | 167 | 1,643 | 311 | 1,771 | 3,892 | 4% | 42% | 8% | 46% | 100% |
| Tamien | 115 | 833 | 158 | 47 | 1,153 | 10% | 72% | 14% | 4% | 100% |
| Capitol | 59 | 96 | 18 | 1 | 174 | 34% | 55% | 10% | 0% | 100% |
| Blossom Hill | 46 | 125 | 19 | 0 | 190 | 24% | 66% | 10% | 0% | 100% |
| Morgan Hill | 24 | 122 | 20 | 6 | 172 | 14% | 71% | 12% | 3% | 100% |
| San Martin | 7 | 67 | 12 | 4 | 90 | 8% | 74% | 13% | 5% | 100% |
| Gilroy | 49 | 133 | 27 | 492 | 701 | 7% | 19% | 4% | 70% | 100% |
| All | 11,257 | 18,587 | 3,485 | 14,386 | 47,715 | 24% | 39% | 7% | 30% | 100% |
| | | | | | | | | | | |
| SF County | | | | | | 11% | 30% | 5% | 54% | 100% |
| Stations | 1,088 | 2,887 | 454 | 5,216 | 9,645 | 11/0 | 3370 | 2,0 | 3 1/0 | 100/0 |
| SM County | | | | | | 31% | 36% | 7% | 26% | 100% |
| Stations | 6,868 | 7,971 | 1,552 | 5,643 | 22,034 | 31/0 | 3070 | , , , | | 100/0 |
| SCL County Station | 3,301 | 7,729 | 1,479 | 3,527 | 16,036 | 21% | 48% | 9% | 22% | 100% |
| Express Train Stations | 5,278 | 13,019 | 2,410 | 11,655 | 32,362 | 16% | 40% | 7% | 36% | 100% |

Table 8 Base Year 2013 Daily Station Boardings by Mode of Access Compared to Observed*

| | | Model E | stimate | | | Observ | ed from Ir | tercept S | urvey | |
|------------------|-------|---------|---------|-------|-------|--------|------------|-----------|-------|-------|
| | Walk | Auto | Transit | All | Walk | Auto | Transit | Bike | Other | All |
| STATION | Share | Share | Share | Share | Share | Share | Share | Share | Share | Share |
| SF | 13% | 21% | 66% | 100% | 19% | 17% | 39% | 24% | 1% | 100% |
| 22 nd | 10% | 75% | 15% | 100% | 23% | 44% | 15% | 18% | 1% | 100% |
| Bayshore | 0% | 8% | 92% | 100% | 20% | 35% | 33% | 13% | 0% | 100% |
| SSF | 59% | 35% | 5% | 100% | 37% | 53% | 0% | 10% | 0% | 100% |
| San Bruno | 81% | 11% | 9% | 100% | 28% | 63% | 0% | 6% | 3% | 100% |
| Millbrae | 16% | 55% | 29% | 100% | 12% | 34% | 47% | 6% | 0% | 100% |
| Broadway | 0% | 0% | 0% | 0% | NA | NA | NA | NA | NA | NA |
| Burlingame | 67% | 28% | 5% | 100% | 61% | 19% | 1% | 15% | 3% | 100% |
| San Mateo | 49% | 46% | 5% | 100% | 43% | 36% | 6% | 14% | 1% | 100% |
| Hayward Park | 51% | 49% | 0% | 100% | 67% | 17% | 0% | 17% | 0% | 100% |
| Hillsdale | 22% | 66% | 12% | 100% | 20% | 57% | 6% | 16% | 0% | 100% |
| Belmont | 40% | 50% | 10% | 100% | 38% | 48% | 0% | 14% | 0% | 100% |
| San Carlos | 15% | 48% | 37% | 100% | 33% | 55% | 2% | 10% | 0% | 100% |
| Redwood City | 22% | 34% | 44% | 100% | 32% | 43% | 6% | 19% | 0% | 100% |
| Atherton | 0% | 0% | 0% | 0% | NA | NA | NA | NA | NA | NA |
| Menlo Park | 11% | 26% | 63% | 100% | 35% | 28% | 15% | 21% | 1% | 100% |
| Palo Alto | 38% | 49% | 14% | 100% | 20% | 35% | 22% | 23% | 0% | 100% |
| Cal Avenue | 30% | 65% | 5% | 100% | 49% | 22% | 2% | 27% | 0% | 100% |
| San Antonio | 59% | 34% | 7% | 100% | 66% | 15% | 0% | 19% | 0% | 100% |
| Mountain View | 22% | 67% | 10% | 100% | 24% | 56% | 12% | 9% | 0% | 100% |
| Sunnyvale | 16% | 70% | 13% | 100% | 27% | 53% | 9% | 11% | 0% | 100% |
| Lawrence | 65% | 34% | 0% | 100% | 29% | 62% | 0% | 9% | 0% | 100% |
| Santa Clara | 13% | 48% | 39% | 100% | 18% | 48% | 22% | 11% | 0% | 100% |
| College Park | 100% | 0% | 0% | 100% | NA | NA | NA | NA | NA | NA |
| Diridon | 4% | 50% | 46% | 100% | 8% | 58% | 24% | 10% | 0% | 100% |
| Tamien | 10% | 86% | 4% | 100% | 8% | 86% | 5% | 0% | 0% | 100% |
| ALL | 24% | 46% | 30% | 100% | 25% | 50% | 11% | 14% | 0% | 100% |

^{*}Compared to passenger intercept survey completed in June 2013.

5.0 Year 2020 and 2040 Forecast Results

With the completion of the base year 2013 model validation, the model inputs were updated to reflect year 2020 and year 2040 conditions and the model results were summarized, similar to the outputs generated for the base year 2013. As described in previous sections, the socioeconomic data, background networks and pricing inputs were updated to reflect year 2020 and 2040 conditions, and the No Project, Project and Project + TTC scenarios were coded and executed in the models. The results of the model forecasts for the No Project and Project alternatives, relative to the base year 2013 conditions, are presented in Tables 9 through Table 16. The typical outputs of daily station boardings, park-and-ride demand and mode of access shares are shown in Tables 9 through 15.

Table 16 summarizes the proportion of boardings made during the peak and off-peak periods, and is an estimate of unconstrained passenger demand. This information will be used to determine if there is adequate train capacity to meet the projected demand. Capacity constraints will be applied, if needed, in subsequent model post-processing as part of the impact analysis.

The VTA Model is also capable of producing estimates for auto vehicle demand in addition to transit demand. A critical input needed for the environmental analysis is an estimate of the vehicle-miles-traveled (VMT) segmented by operating speed. Vehicle-miles-traveled are basically the amount of vehicles traveling over the roadway networks. The VTA Model is capable of providing VMT stratified by time of day and by speed. For air quality analysis, the VMT is required to be separated out by 5 mph increments, referred to as a speed bin. The results of the VMT for the entire VTA Model region, by speed bin and by time of day are provided in Table 17.

 Table 9
 Caltrain Boardings by Station by Alternative, 2013, 2020 and 2040

| Station | 2013 Observed | 2013 Model | 2020 Model No Project | 2020 Model Project | 2040 Model No Project | 2040 Model Project + TTC |
|--------------------------|------------------|----------------|--------------------------|-----------------------|--------------------------|-----------------------------|
| Transbay Terminal | N/A | N/A | N/A | N/A | N/A | 8,527 |
| SF | 10,760 | 10,307 | 12,347 | 13,692 | 15,891 | 14,529 |
| 22nd | 1,303 | 1,439 | 2,108 | 2,479 | 3,089 | 3,525 |
| Bayshore | 190 | 458 | 816 | 1,186 | 1,610 | 2,455 |
| SSF | 373 | 782 | 1,038 | 1,378 | 1,688 | 1,949 |
| San Bruno | 451 | 631 | 674 | 693 | 1,104 | 1,311 |
| Millbrae | 3,259 | 2,316 | 2,882 | 3,775 | 4,790 | 6,643 |
| Broadway | 0 | 0 | 0 | 558 | 0 | 619 |
| Burlingame | 780 | 1,032 | 1,129 | 1,010 | 1,536 | 1,650 |
| San Mateo | 1,570 | 1,870 | 2,052 | 2,230 | 2,844 | 3,579 |
| Hayward Park | 334 | 508 | 647 | 980 | 1,269 | 1,212 |
| Hillsdale | 2,278 | 2,617 | 3,036 | 3,695 | 4,407 | 6,430 |
| Belmont | 508 | 613 | 623 | 868 | 912 | 1,190 |
| San Carlos | 1,170 | 1,544 | 1,823 | 1,909 | 2,486 | 2,495 |
| Redwood City | 2,588 | 2,882 | 3,226 | 3,454 | 5,627 | 6,124 |
| Atherton | 0 | 0 | 0 | 444 | 0 | 570 |
| Menlo Park | 1,571 | 1,707 | 1,750 | 1,685 | 2,374 | 2,329 |
| Palo Alto | 5,613 | 5,727 | 6,630 | 8,280 | 10,319 | 14,219 |
| Cal Avenue | 1,261 | 1,075 | 1,192 | 1,164 | 1,722 | 1,283 |
| San Antonio | 643 | 583 | 674 | 782 | 1,080 | 1,268 |
| Mountain View | 3,834 | 3,262 | 3,849 | 5,253 | 5,879 | 8,841 |
| Sunnyvale | 2,272 | 1,710 | 2,030 | 2,456 | 2,641 | 3,481 |
| Lawrence | 688 | 853 | 1,102 | 1,370 | 1,639 | 2,005 |
| Santa Clara | 792 | 756 | 828 | 986 | 902 | 885 |
| College Park | 118 | 51 | 67 | 138 | 71 | 0 |
| Diridon | 3,523 | 3,583 | 4,368 | 5,765 | 6,905 | 10,994 |
| Tamien | 783 | 692 | 1,003 | 1,641 | 1,104 | 1,477 |
| Capitol | 39 | 89 | 101 | 109 | 127 | 91 |
| Blossom Hill | 63 | 107 | 147 | 165 | 225 | 189 |
| Morgan Hill | 129 | 92 | 175 | 200 | 304 | 310 |
| San Martin | 45 | 78 | 136 | 163 | 197 | 215 |
| Gilroy | 128 | 350 | 595 | 644 | 1,075 | 1,032 |
| All | 47,066 | 47,715 | 57,047 | 69,151 | 83,815 | 111,427 |
| | | | | | | |
| SF County Stations | 12,253 | 12,204 | 15,270 | 17,357 | 20,590 | 29,035 |
| SM County Stations | 14,882 | 16,502 | 18,879 | 22,679 | 29,036 | 36,101 |
| SCL County Station | 19,931 | 19,009 | 22,898 | 29,115 | 34,189 | 46,291 |
| Express Train Stations | 37,001 | 35,551 | 42,227 | 50,533 | 61,921 | 77,116 |
| Note: Caltrain Station B | oardings do no | t include Calt | rain to Caltrain 1 | Transfer Boardin | gs | |

Table 10 Caltrain Daily Park-and-Ride Space Demand by Station by Scenario, 2013, 2020 and 2040

| | | Α | В | С | E | G | I |
|---------------|--------------------------------------|------------------------------------|-------------------------------|---|---------------------------------------|---|--|
| Station | Existing Caltrain Lot Capacity | Observed PNR Spaces Occupied | 2013 Modeled PNR Spaces | 2020 No Project Modeled PNR Spaces | 2020 Project Modeled PNR Spaces | 2040 No Project Modeled PNR Spaces | 2040 Project + TTC Modeled PNR Spaces |
| SF | 0 | 0 | 543 | 836 | 776 | 1,231 | 1,075 |
| 22nd * | 0 | 0 | 745 | 1,126 | 1,055 | 1,620 | 1,410 |
| Bayshore | 38 | 5 | 24 | 83 | 90 | 105 | 149 |
| SSF | 75 | 40 | 123 | 162 | 167 | 232 | 222 |
| San Bruno | 171 | 36 | 42 | 54 | 43 | 75 | 49 |
| Millbrae | 175 | 133 | 517 | 660 | 639 | 949 | 1,644 |
| Broadway | 137 | 0 | 0 | 0 | 4 | 0 | 3 |
| Burlingame | 58 | 21 | 145 | 173 | 170 | 211 | 224 |
| San Mateo | 40 | 9 | 476 | 554 | 470 | 702 | 761 |
| Hayward Park | 213 | 5 | 77 | 83 | 235 | 135 | 172 |
| Hillsdale | 518 | 445 | 983 | 1,189 | 1,057 | 1,567 | 1,610 |
| Belmont | 375 | 79 | 167 | 197 | 207 | 260 | 262 |
| San Carlos | 212 | 72 | 352 | 416 | 409 | 521 | 528 |
| Redwood City | 557 | 259 | 465 | 533 | 549 | 722 | 755 |
| Atherton | 0 | 0 | 0 | 0 | 286 | 0 | 42 |
| Menlo Park | 155 | 53 | 275 | 333 | 363 | 455 | 465 |
| Palo Alto | 389 | 383 | 366 | 385 | 330 | 510 | 498 |
| Cal Avenue | 185 | 65 | 191 | 233 | 211 | 307 | 282 |
| San Antonio | 199 | 65 | 109 | 131 | 140 | 191 | 217 |
| Mountain View | 340 | 325 | 605 | 760 | 741 | 1,078 | 1,027 |
| Sunnyvale | 439 | 491 | 670 | 867 | 913 | 917 | 985 |
| Lawrence | 122 | 93 | 69 | 94 | 114 | 85 | 118 |
| Santa Clara | 289 | 319 | 130 | 162 | 166 | 93 | 84 |
| College Park | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diridon | 581 | 593 | 747 | 880 | 845 | 880 | 912 |
| Tamien | 275 | 275 | 379 | 432 | 588 | 403 | 367 |

| | | Α | В | С | E | G | ı |
|---------------------------|--------------------------------------|------------------------------------|-------------------------------|---|---------------------------------------|---|--|
| Station | Existing Caltrain Lot Capacity | Observed PNR Spaces Occupied | 2013 Modeled PNR Spaces | 2020 No Project Modeled PNR Spaces | 2020 Project Modeled PNR Spaces | 2040 No Project Modeled PNR Spaces | 2040 Project + TTC Modeled PNR Spaces |
| Capitol | 379 | 52 | 44 | 58 | 65 | 18 | 1 |
| Blossom Hill | 425 | 57 | 57 | 69 | 75 | 94 | 80 |
| Morgan Hill | 486 | 148 | 55 | 106 | 114 | 184 | 175 |
| San Martin | 167 | 69 | 30 | 53 | 57 | 83 | 80 |
| Gilroy | 471 | 196 | 60 | 107 | 110 | 179 | 165 |
| All | 7,471 | 4,288 | 8,449 | 10,736 | 10,989 | 13,807 | 14,362 |
| SF County Stations | 38 | 5 | 1,312 | 2,045 | 1,921 | 2,956 | 2,634 |
| SM County Stations | 2,686 | 1,152 | 3,623 | 4,354 | 4,599 | 5,829 | 6,737 |
| SCL County | | | | | | | |
| Station | 4,747 | 3,131 | 3,513 | 4,337 | 4,469 | 5,022 | 4,991 |
| Express Train Stations | 3,154 | 2,682 | 5,918 | 7,569 | 7,268 | 9,929 | 10,381 |

^{*} No Formal PNR Lot at 22nd Street Station and SF PNR Spaces from Caltrain JPB and VTA 2012/2013

Table 11 2020 No Project Station Boardings by Mode of Access

| | Walk | PNR | KNR | Transit | All | Walk | PNR | KNR | Transit | All |
|------------------------|----------|--------|-------|---------|--------|-------|-------|-------|---------|-------|
| STATION | Ons | Ons | Ons | Ons | Ons | Share | Share | Share | Share | Share |
| SF | 1,384 | 1,840 | 212 | 4,266 | 7,702 | 18% | 24% | 3% | 55% | 100% |
| 22 nd | 354 | 2,478 | 480 | 529 | 3,841 | 9% | 65% | 12% | 14% | 100% |
| Bayshore | 4 | 182 | 39 | 1,215 | 1,440 | 0% | 13% | 3% | 84% | 100% |
| SSF | 740 | 357 | 81 | 63 | 1,241 | 60% | 29% | 7% | 5% | 100% |
| San Bruno | 842 | 119 | 27 | 84 | 1,072 | 79% | 11% | 3% | 8% | 100% |
| Millbrae | 512 | 1,452 | 288 | 753 | 3,005 | 17% | 48% | 10% | 25% | 100% |
| Broadway | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0% | 0% | 0% |
| Burlingame | 952 | 380 | 74 | 68 | 1,474 | 65% | 26% | 5% | 5% | 100% |
| San Mateo | 1,479 | 1,218 | 248 | 132 | 3,077 | 48% | 40% | 8% | 4% | 100% |
| Hayward Park | 238 | 183 | 36 | 0 | 457 | 52% | 40% | 8% | 0% | 100% |
| Hillsdale | 949 | 2,615 | 519 | 437 | 4,520 | 21% | 58% | 11% | 10% | 100% |
| Belmont | 261 | 434 | 85 | 86 | 866 | 30% | 50% | 10% | 10% | 100% |
| San Carlos | 283 | 915 | 172 | 937 | 2,307 | 12% | 40% | 7% | 41% | 100% |
| Redwood City | 834 | 1,172 | 229 | 1,713 | 3,948 | 21% | 30% | 6% | 43% | 100% |
| Atherton | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0% | 0% | 0% |
| Menlo Park | 273 | 733 | 137 | 1,678 | 2,821 | 10% | 26% | 5% | 59% | 100% |
| Palo Alto | 441 | 846 | 160 | 244 | 1,691 | 26% | 50% | 9% | 14% | 100% |
| Cal Avenue | 267 | 513 | 104 | 28 | 912 | 29% | 56% | 11% | 3% | 100% |
| San Antonio | 604 | 288 | 56 | 54 | 1,002 | 60% | 29% | 6% | 5% | 100% |
| Mountain View | 624 | 1,671 | 344 | 323 | 2,962 | 21% | 56% | 12% | 11% | 100% |
| Sunnyvale | 493 | 1,907 | 389 | 297 | 3,086 | 16% | 62% | 13% | 10% | 100% |
| Lawrence | 515 | 206 | 42 | 3 | 766 | 67% | 27% | 5% | 0% | 100% |
| Santa Clara | 124 | 356 | 71 | 216 | 767 | 16% | 46% | 9% | 28% | 100% |
| College Park | 4 | 0 | 0 | 0 | 4 | 100% | 0% | 0% | 0% | 100% |
| Diridon | 246 | 1,936 | 399 | 2,068 | 4,649 | 5% | 42% | 9% | 44% | 100% |
| Tamien | 114 | 950 | 190 | 60 | 1,314 | 9% | 72% | 14% | 5% | 100% |
| Capitol | 42 | 128 | 26 | 1 | 197 | 21% | 65% | 13% | 1% | 100% |
| Blossom Hill | 66 | 151 | 26 | 0 | 243 | 27% | 62% | 11% | 0% | 100% |
| Morgan Hill | 46 | 233 | 41 | 11 | 331 | 14% | 70% | 12% | 3% | 100% |
| San Martin | 12 | 117 | 22 | 10 | 161 | 7% | 73% | 14% | 6% | 100% |
| Gilroy | 100 | 235 | 49 | 806 | 1,190 | 8% | 20% | 4% | 68% | 100% |
| All | 12,803 | 23,615 | 4,546 | 16,083 | 57,047 | 22% | 41% | 8% | 28% | 100% |
| | | | | | | | | | | |
| SF County | 4 740 | 4.500 | 704 | 6.040 | 40.000 | 400/ | 250/ | 60/ | 460/ | 4000/ |
| Stations | 1,742 | 4,500 | 731 | 6,010 | 12,983 | 13% | 35% | 6% | 46% | 100% |
| SM County | 7 262 | 0.570 | 1 006 | E 053 | 24 700 | 200/ | 200/ | 90/ | 240/ | 1000/ |
| Stations | 7,363 | 9,578 | 1,896 | 5,952 | 24,789 | 30% | 39% | 8% | 24% | 100% |
| SCL County | 2 600 | 0.527 | 1 010 | 4 1 2 1 | 10 275 | 100/ | 400/ | 100/ | 210/ | 100% |
| Station Express Train | 3,698 | 9,537 | 1,919 | 4,121 | 19,275 | 19% | 49% | 10% | 21% | 100% |
| Express Train Stations | 6,110 | 16,650 | 3,157 | 12,308 | 38,225 | 16% | 44% | 8% | 32% | 100% |
| Stations | <u>I</u> | | | | | | | | | |

Table 12 2020 Project Station Boardings by Mode of Access

| | Walk | PNR | KNR | Transit | All | Walk | PNR | KNR | Transit | All |
|---------------|---------|--------|-------|---------|--------|-------|-------|-------|---------|-------|
| STATION | Ons | Ons | Ons | Ons | Ons | Share | Share | Share | Share | Share |
| SF | 1,378 | 1,707 | 196 | 6,349 | 9,630 | 14% | 18% | 2% | 66% | 100% |
| 22nd | 397 | 2,321 | 451 | 1,041 | 4,210 | 9% | 55% | 11% | 25% | 100% |
| Bayshore | 4 | 197 | 41 | 1,819 | 2,061 | 0% | 10% | 2% | 88% | 100% |
| SSF | 984 | 367 | 82 | 148 | 1,581 | 62% | 23% | 5% | 9% | 100% |
| San Bruno | 842 | 95 | 22 | 107 | 1,066 | 79% | 9% | 2% | 10% | 100% |
| Millbrae | 567 | 1,406 | 278 | 1,888 | 4,139 | 14% | 34% | 7% | 46% | 100% |
| Broadway | 574 | 8 | 1 | 164 | 747 | 77% | 1% | 0% | 22% | 100% |
| Burlingame | 850 | 375 | 72 | 66 | 1,363 | 62% | 28% | 5% | 5% | 100% |
| San Mateo | 1,731 | 1,034 | 208 | 322 | 3,295 | 53% | 31% | 6% | 10% | 100% |
| Hayward Park | 329 | 516 | 103 | 0 | 948 | 35% | 54% | 11% | 0% | 100% |
| Hillsdale | 1,206 | 2,325 | 460 | 1,075 | 5,066 | 24% | 46% | 9% | 21% | 100% |
| Belmont | 459 | 456 | 90 | 293 | 1,298 | 35% | 35% | 7% | 23% | 100% |
| San Carlos | 445 | 899 | 168 | 292 | 1,804 | 25% | 50% | 9% | 16% | 100% |
| Redwood City | 1,427 | 1,208 | 237 | 399 | 3,271 | 44% | 37% | 7% | 12% | 100% |
| Atherton | 45 | 629 | 128 | 46 | 848 | 5% | 74% | 15% | 5% | 100% |
| Menlo Park | 661 | 799 | 148 | 684 | 2,292 | 29% | 35% | 6% | 30% | 100% |
| Palo Alto | 569 | 727 | 138 | 1,197 | 2,631 | 22% | 28% | 5% | 45% | 100% |
| Cal Avenue | 273 | 465 | 94 | 135 | 967 | 28% | 48% | 10% | 14% | 100% |
| San Antonio | 655 | 307 | 60 | 140 | 1,162 | 56% | 26% | 5% | 12% | 100% |
| Mountain View | 699 | 1,630 | 335 | 838 | 3,502 | 20% | 47% | 10% | 24% | 100% |
| Sunnyvale | 645 | 2,009 | 403 | 671 | 3,728 | 17% | 54% | 11% | 18% | 100% |
| Lawrence | 584 | 251 | 51 | 1 | 887 | 66% | 28% | 6% | 0% | 100% |
| Santa Clara | 111 | 366 | 74 | 576 | 1,127 | 10% | 32% | 7% | 51% | 100% |
| College Park | 30 | 0 | 0 | 0 | 30 | 100% | 0% | 0% | 0% | 100% |
| Diridon | 271 | 1,859 | 378 | 4,092 | 6,600 | 4% | 28% | 6% | 62% | 100% |
| Tamien | 28 | 1,294 | 262 | 976 | 2,560 | 1% | 51% | 10% | 38% | 100% |
| Capitol | 40 | 142 | 29 | 1 | 212 | 19% | 67% | 14% | 0% | 100% |
| Blossom Hill | 69 | 164 | 28 | 0 | 261 | 26% | 63% | 11% | 0% | 100% |
| Morgan Hill | 51 | 250 | 44 | 36 | 381 | 13% | 66% | 12% | 9% | 100% |
| San Martin | 13 | 126 | 23 | 35 | 197 | 7% | 64% | 12% | 18% | 100% |
| Gilroy | 103 | 243 | 51 | 891 | 1,288 | 8% | 19% | 4% | 69% | 100% |
| All | 16,040 | 24,175 | 4,655 | 24,280 | 69,150 | 23% | 35% | 7% | 35% | 100% |
| | | | | | | | | | | |
| SF County | | | | | | | | | | |
| Stations | 1,779 | 4,225 | 688 | 9,209 | 15,901 | 11% | 27% | 4% | 58% | 100% |
| SM County | 10.133 | 40 417 | 4.007 | F 400 | 27.71 | 270/ | 270/ | 70/ | 2007 | 10001 |
| Stations | 10,120 | 10,117 | 1,997 | 5,483 | 27,717 | 37% | 37% | 7% | 20% | 100% |
| SCL County | 4 4 4 4 | 0.022 | 1 070 | 0.500 | 25 533 | 1.00/ | 200/ | 00/ | 200/ | 1000/ |
| Station | 4,141 | 9,833 | 1,970 | 9,588 | 25,532 | 16% | 39% | 8% | 38% | 100% |
| Express Train | 7 020 | 15 001 | 2.024 | 10 224 | 4E 060 | 170/ | 250/ | 70/ | 400/ | 100% |
| Stations | 7,820 | 15,991 | 3,024 | 18,234 | 45,069 | 17% | 35% | 7% | 40% | 100% |

Table 13 2040 No Project Station Boardings by Mode of Access

| | Walk | PNR | KNR | Transit | All | Walk | PNR | KNR | Transit | All |
|---------------|--------|--------|--------|---------|---------|-------|--------|-------|---------|-------|
| STATION | Ons | Ons | Ons | Ons | Ons | Share | Share | Share | Share | Share |
| SF | 2,056 | 2,709 | 345 | 5,661 | 10,771 | 19% | 25% | 3% | 53% | 100% |
| 22nd | 602 | 3,565 | 704 | 626 | 5,497 | 11% | 65% | 13% | 11% | 100% |
| Bayshore | 7 | 231 | 51 | 2,577 | 2,866 | 0% | 8% | 2% | 90% | 100% |
| SSF | 1,256 | 511 | 119 | 98 | 1,984 | 63% | 26% | 6% | 5% | 100% |
| San Bruno | 1,456 | 166 | 39 | 120 | 1,781 | 82% | 9% | 2% | 7% | 100% |
| Millbrae | 896 | 2,087 | 422 | 1,303 | 4,708 | 19% | 44% | 9% | 28% | 100% |
| Broadway | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0% | 0% | 0% |
| Burlingame | 1,300 | 464 | 93 | 89 | 1,946 | 67% | 24% | 5% | 5% | 100% |
| San Mateo | 2,046 | 1,544 | 322 | 164 | 4,076 | 50% | 38% | 8% | 4% | 100% |
| Hayward Park | 355 | 296 | 61 | 1 | 713 | 50% | 41% | 9% | 0% | 100% |
| Hillsdale | 1,670 | 3,447 | 696 | 547 | 6,360 | 26% | 54% | 11% | 9% | 100% |
| Belmont | 399 | 572 | 116 | 117 | 1,204 | 33% | 48% | 10% | 10% | 100% |
| San Carlos | 551 | 1,147 | 219 | 1,114 | 3,031 | 18% | 38% | 7% | 37% | 100% |
| Redwood City | 2,459 | 1,589 | 317 | 2,911 | 7,276 | 34% | 22% | 4% | 40% | 100% |
| Atherton | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0% | 0% | 0% |
| Menlo Park | 458 | 1,002 | 189 | 1,934 | 3,583 | 13% | 28% | 5% | 54% | 100% |
| Palo Alto | 628 | 1,122 | 215 | 319 | 2,284 | 27% | 49% | 9% | 14% | 100% |
| Cal Avenue | 302 | 612 | 124 | 44 | 1,082 | 28% | 57% | 11% | 4% | 100% |
| San Antonio | 971 | 420 | 83 | 65 | 1,539 | 63% | 27% | 5% | 4% | 100% |
| Mountain View | 821 | 2,372 | 495 | 448 | 4,136 | 20% | 57% | 12% | 11% | 100% |
| Sunnyvale | 849 | 2,017 | 412 | 372 | 3,650 | 23% | 55% | 11% | 10% | 100% |
| Lawrence | 996 | 187 | 38 | 1 | 1,222 | 82% | 15% | 3% | 0% | 100% |
| Santa Clara | 242 | 204 | 41 | 312 | 799 | 30% | 26% | 5% | 39% | 100% |
| College Park | 10 | 0 | 0 | 0 | 10 | 100% | 0% | 0% | 0% | 100% |
| Diridon | 515 | 1,936 | 404 | 5,494 | 8,349 | 6% | 23% | 5% | 66% | 100% |
| Tamien | 176 | 887 | 179 | 79 | 1,321 | 13% | 67% | 14% | 6% | 100% |
| Capitol | 196 | 40 | 8 | 0 | 244 | 80% | 16% | 3% | 0% | 100% |
| Blossom Hill | 153 | 207 | 36 | 0 | 396 | 39% | 52% | 9% | 0% | 100% |
| Morgan Hill | 86 | 404 | 75 | 21 | 586 | 15% | 69% | 13% | 4% | 100% |
| San Martin | 18 | 182 | 35 | 16 | 251 | 7% | 73% | 14% | 6% | 100% |
| Gilroy | 202 | 394 | 84 | 1,469 | 2,149 | 9% | 18% | 4% | 68% | 100% |
| All | 21,676 | 30,314 | 5,922 | 25,903 | 83,815 | 26% | 36% | 7% | 31% | 100% |
| | | | | | | | | | | |
| SF County | 2,665 | 6,505 | 1,100 | 8,865 | 19,135 | 14% | 34% | 6% | 46% | 100% |
| Stations | | 0,000 | | 0,000 | | | 0 1,70 | | | |
| SM County | 12,846 | 12,825 | 2,593 | 8,398 | 36,662 | 35% | 35% | 7% | 23% | 100% |
| Stations | ,,,,,, | ,==3 | ,,,,,, | -, | , | | | , - | 3 | |
| SCL County | 6,165 | 10,984 | 2,229 | 8,640 | 28,018 | 22% | 39% | 8% | 31% | 100% |
| Station | 1 | , | | , | , , , | | | | | |
| Express Train | 10,954 | 21,846 | 4,199 | 19,615 | FC 64.4 | 400/ | 200/ | 70/ | 250/ | 1000/ |
| Stations | | | | | 56,614 | 19% | 39% | 7% | 35% | 100% |

Table 14 2040 Project + TTC Station Boardings by Mode of Access

| | Walk | PNR | KNR | Transit | All | Walk | PNR | KNR | Transit | All |
|---------------------------|--------|--------|-------|---------|---------|-------|-------|-------|---------|-------|
| STATION | Ons | Ons | Ons | Ons | Ons | Share | Share | Share | Share | Share |
| Transbay Terminal | 886 | 0 | 0 | 2,148 | 3,034 | 29% | 0% | 0% | 71% | 100% |
| SF | 2,001 | 2,354 | 305 | 7,470 | 12,130 | 16% | 19% | 3% | 62% | 100% |
| 22nd | 1,024 | 3,099 | 607 | 1,274 | 6,004 | 17% | 52% | 10% | 21% | 100% |
| Bayshore | 7 | 286 | 64 | 4,084 | 4,441 | 0% | 6% | 1% | 92% | 100% |
| SSF | 1,814 | 486 | 112 | 143 | 2,555 | 71% | 19% | 4% | 6% | 100% |
| San Bruno | 1,725 | 107 | 25 | 213 | 2,070 | 83% | 5% | 1% | 10% | 100% |
| Millbrae | 1,345 | 3,591 | 730 | 3,540 | 9,206 | 15% | 39% | 8% | 38% | 100% |
| Broadway | 596 | 7 | 1 | 149 | 753 | 0% | 0% | 0% | 0% | 0% |
| Burlingame | 1,368 | 530 | 104 | 75 | 2,077 | 66% | 26% | 5% | 4% | 100% |
| San Mateo | 2,487 | 1,685 | 348 | 430 | 4,950 | 50% | 34% | 7% | 9% | 100% |
| Hayward Park | 444 | 378 | 78 | 1 | 901 | 49% | 42% | 9% | 0% | 100% |
| Hillsdale | 2,331 | 3,538 | 712 | 2,137 | 8,718 | 27% | 41% | 8% | 25% | 100% |
| Belmont | 649 | 578 | 116 | 251 | 1,594 | 41% | 36% | 7% | 16% | 100% |
| San Carlos | 625 | 1,159 | 221 | 325 | 2,330 | 27% | 50% | 9% | 14% | 100% |
| Redwood City | 3,748 | 1,666 | 334 | 1,144 | 6,892 | 54% | 24% | 5% | 17% | 100% |
| Atherton | 53 | 801 | 168 | 69 | 1,091 | 0% | 0% | 0% | 0% | 0% |
| Menlo Park | 879 | 1,027 | 195 | 778 | 2,879 | 31% | 36% | 7% | 27% | 100% |
| Palo Alto | 935 | 1,098 | 210 | 1,798 | 4,041 | 23% | 27% | 5% | 44% | 100% |
| Cal Avenue | 306 | 621 | 126 | 45 | 1,098 | 28% | 57% | 11% | 4% | 100% |
| San Antonio | 1,076 | 466 | 93 | 160 | 1,795 | 60% | 26% | 5% | 9% | 100% |
| Mountain View | 956 | 2,275 | 472 | 745 | 4,448 | 21% | 51% | 11% | 17% | 100% |
| Sunnyvale | 1,106 | 2,194 | 439 | 1,128 | 4,867 | 23% | 45% | 9% | 23% | 100% |
| Lawrence | 1,115 | 264 | 55 | 4 | 1,438 | 78% | 18% | 4% | 0% | 100% |
| Santa Clara | 205 | 185 | 38 | 524 | 952 | 22% | 19% | 4% | 55% | 100% |
| College Park | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diridon | 512 | 2,009 | 415 | 13,012 | 15,948 | 3% | 13% | 3% | 82% | 100% |
| Tamien | 198 | 811 | 162 | 641 | 1,812 | 11% | 45% | 9% | 35% | 100% |
| Capitol | 166 | 1 | 0 | 0 | 167 | 99% | 1% | 0% | 0% | 100% |
| Blossom Hill | 92 | 176 | 31 | 0 | 299 | 31% | 59% | 10% | 0% | 100% |
| Morgan Hill | 80 | 387 | 72 | 60 | 599 | 13% | 65% | 12% | 10% | 100% |
| San Martin | 16 | 175 | 34 | 50 | 275 | 6% | 64% | 12% | 18% | 100% |
| Gilroy | 180 | 364 | 78 | 1,442 | 2,064 | 9% | 18% | 4% | 70% | 100% |
| All | 28,925 | 32,318 | 6,345 | 43,839 | 111,427 | 26% | 29% | 6% | 39% | 100% |
| SF County Stations | 3,918 | 5,739 | 976 | 14,976 | 25,609 | 15% | 22% | 4% | 58% | 100% |
| SM County | | | | | | | | | | |
| Stations | 18,064 | 15,553 | 3,144 | 9,255 | 46,016 | 39% | 34% | 7% | 20% | 100% |
| SCL County Station | 6,943 | 11,026 | 2,225 | 19,608 | 39,802 | 17% | 28% | 6% | 49% | 100% |
| Express Train Stations | 14,837 | 22,851 | 4,419 | 33,025 | 75 122 | 20% | 30% | 6% | 44% | 100% |
| 3tati0115 | 14,83/ | 44,851 | 4,419 | 33,023 | 75,132 | 20% | 30% | 0% | 44% | 100% |

Table 15 Model Estimated Daily Boardings by Transit Operator in the Project Corridor 2013, 2020 and 2040

| Operator | 2013 Observed | 2013 Estimated | 2020 No Project | 2020 Project | 2040 No Project | 2040 Project + TTC |
|-------------------------------|---------------|----------------|-----------------|--------------|-----------------|-----------------------|
| Caltrain | 47,100 | 47,700 | 57,400 | 69,900 | 83,900 | 111,100 |
| BART | 366,600 | 367,900 | 459,500 | 459,100 | 678,900 | 676,900 |
| SamTrans Bus (Local and BRT) | 39,800 | 53,600 | 73,400 | 75,800 | 103,200 | 100,000 |
| SamTrans ECR BRT | - | - | 17,000 | 15,500 | 24,000 | 21,300 |
| SamTrans Express | 1,300 | 1,000 | 1,000 | 800 | 1,200 | 900 |
| VTA Light Rail | 34,600 | 40,700 | 70,600 | 70,700 | 129,300 | 129,900 |
| VTA Bus (Local and BRT) | 103,100 | 127,800 | 165,600 | 167,100 | 246,100 | 247,100 |
| VTA BRT | - | - | 42,500 | 42,500 | 56,200 | 55,100 |
| Muni Metro | 173,500 | 158,600 | 203,800 | 205,200 | 252,200 | 250,100 |
| Muni Bus | 531,700 | 513,600 | 592,600 | 595,500 | 736,600 | 740,200 |
| Shuttles (Caltrain + Private) | NA | 11,400 | 12,200 | 16,600 | 20,700 | 27,000 |
| Total | 1,297,700 | 1,310,900 | 1,683,400 | 1,718,700 | 2,311,600 | 2,332,600 |

Note: Caltrain Boardings Include Caltrain to Caltrain Transfer Boardings

Table 16 Caltrain Boardings by Time of Day by Alternative

| | 2013 Estimated | 2013 Proportions | 2020 No Project | 2020 NP Proportions | 2020 Project | 2020 PRJ Proportions | 2040 No Project | 2040 NP Proportions | 2040 Project | 2040 PRJ + TTC Proportions |
|-------------|-------------------|---------------------|--------------------|------------------------|-----------------|-------------------------|--------------------|------------------------|-----------------|----------------------------------|
| Peak Period | | | | | | | | | | |
| Boardings | 39,345 | 82.4% | 48,337 | 84.7% | 58,221 | 84.1% | 70,251 | 83.7% | 90,544 | 81.3% |
| Off-peak | | | | | | | | | | |
| Period | | | | | | | | | | |
| Boardings | 8,391 | 17.6% | 8,762 | 15.3% | 10,981 | 15.9% | 13,645 | 16.3% | 20,883 | 18.7% |
| | | | | | | | | | 111,42 | |
| Total | 47,736 | 100.0% | 57,099 | 100.0% | 69,202 | 100.0% | 83,896 | 100.0% | 7 | 100.0% |

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Table 17 Peak Period, Off-peak Period and Daily Vehicle-Miles-Traveled by Speed Category by Alternative – VTA Model Region

| Speed | | 2013 | | 2 | 020 No Projec | :t | | 2020 Project | | 2 | 2040 No Projec | t | | 2040 Project | |
|---------|------------|------------|------------|-------------|---------------|------------|-------------|--------------|-------------|-------------|----------------|-------------|-------------|--------------|-------------|
| МРН | Peak | Off-peak | All | Peak | Off-peak | All | Peak | Off-peak | All | Peak | Off-peak | All | Peak | Off-peak | All |
| 0-5 | 190,671 | 89,384 | 280,055 | 290,652 | 126,355 | 417,007 | 290,343 | 127,643 | 417,986 | 541,976 | 175,134 | 717,110 | 506,061 | 164,621 | 670,682 |
| 6-10 | 382,852 | 124,294 | 507,146 | 453,203 | 162,454 | 615,657 | 447,943 | 159,998 | 607,941 | 1,033,383 | 262,459 | 1,295,842 | 1,020,153 | 266,605 | 1,286,758 |
| 11-15 | 3,087,226 | 2,237,801 | 5,325,027 | 3,446,848 | 2,340,487 | 5,787,335 | 3,422,314 | 2,332,629 | 5,754,943 | 5,443,828 | 2,882,205 | 8,326,033 | 5,309,743 | 2,891,594 | 8,201,337 |
| 16 - 20 | 6,586,370 | 3,924,875 | 10,511,245 | 7,334,128 | 4,305,013 | 11,639,141 | 7,370,379 | 4,314,999 | 11,685,378 | 9,744,821 | 5,153,194 | 14,898,015 | 9,710,101 | 5,137,248 | 14,847,349 |
| 21 - 25 | 16,157,378 | 11,154,093 | 27,311,471 | 18,763,276 | 12,528,218 | 31,291,494 | 18,672,062 | 12,518,015 | 31,190,077 | 24,701,582 | 15,450,678 | 40,152,260 | 24,512,621 | 15,469,060 | 39,981,681 |
| 26 - 30 | 10,434,768 | 5,728,636 | 16,163,404 | 12,332,864 | 6,527,407 | 18,860,271 | 12,242,763 | 6,553,220 | 18,795,983 | 15,993,111 | 8,447,271 | 24,440,382 | 15,882,250 | 8,411,206 | 24,293,456 |
| 31 - 35 | 10,762,878 | 5,826,604 | 16,589,482 | 11,920,293 | 6,585,090 | 18,505,383 | 11,952,140 | 6,561,677 | 18,513,817 | 15,110,891 | 8,968,511 | 24,079,402 | 15,170,349 | 8,874,262 | 24,044,611 |
| 36 - 40 | 6,422,393 | 2,493,128 | 8,915,521 | 7,601,472 | 2,814,788 | 10,416,260 | 7,268,562 | 2,805,834 | 10,074,396 | 9,683,585 | 4,885,291 | 14,568,876 | 9,601,331 | 4,967,060 | 14,568,391 |
| 41 - 45 | 6,692,199 | 3,564,049 | 10,256,248 | 6,871,534 | 3,703,536 | 10,575,070 | 7,129,645 | 3,701,378 | 10,831,023 | 8,023,415 | 6,531,889 | 14,555,304 | 8,170,960 | 6,431,840 | 14,602,800 |
| 46 - 50 | 5,910,380 | 1,654,108 | 7,564,488 | 7,504,758 | 2,679,200 | 10,183,958 | 7,523,590 | 2,638,960 | 10,162,550 | 6,453,363 | 4,568,746 | 11,022,109 | 6,390,532 | 4,602,229 | 10,992,761 |
| 51 - 55 | 7,726,469 | 4,387,446 | 12,113,915 | 7,045,631 | 5,228,239 | 12,273,870 | 7,078,548 | 5,217,939 | 12,296,487 | 5,773,347 | 5,747,303 | 11,520,650 | 5,974,309 | 5,929,516 | 11,903,825 |
| 56 - 60 | 8,784,362 | 15,728,021 | 24,512,383 | 8,473,759 | 16,383,044 | 24,856,803 | 8,417,395 | 16,470,611 | 24,888,006 | 7,417,026 | 16,895,276 | 24,312,302 | 7,041,663 | 16,729,488 | 23,771,151 |
| 61 - 65 | 13,123,958 | 25,488,526 | 38,612,484 | 12,666,378 | 27,287,476 | 39,953,854 | 12,701,507 | 27,221,428 | 39,922,935 | 10,756,195 | 25,878,337 | 36,634,532 | 10,869,149 | 25,869,959 | 36,739,108 |
| All | | | | 104,704,796 | | | 104,517,191 | 90,624,331 | 195,141,522 | 120,676,523 | 105,846,294 | 226,522,817 | 120,159,222 | 105,744,688 | 225,903,910 |

Note: Peak travel is defined as travel occurring between 5 AM to 9 AM and 3 PM to 7 PM

Off-peak travel is defined as travel occurring between 9 AM to 3 PM and from 7 PM to 5 AM

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Appendix A

Year 2020 Project 2040 Project + TTC Schedules

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Table A.1.1 2020 Project (PCEP) – Diesel and EMU Mixed Fleet Service AM Peak Period
Diesel trains are the "Baby Bullet" trains, in orange highlight

| Northbound Northbound | 101 | 103 | 301 | 105 | 107 | 303 | 109 | 111 | 305 | 113 | 115 | 307 | 117 | 119 | 309 | 121 | 123 | 311 | 125 | 127 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tamien | | 5:02a | | 6:02a | | | 6:31a | | | 7:02a | | | 7:31a | | | 8:02a | | | 8:31a | |
| San Jose Diridon | 4:30a | 5:07a | 6:00a | 6:07a | 6:12a | 6:29a | 6:36a | 6:42a | 7:00a | 7:07a | 7:12a | 7:29a | 7:36a | 7:42a | 8:00a | 8:07a | 8:12a | 8:29a | 8:36a | 8:42a |
| College Park | | | | | | | | | | | | | | 7:44a | | | | | | |
| Santa Clara | 4:34a | 5:11a | | | 6:16a | | | 6:46a | | | 7:16a | | | 7:47a | | | 8:16a | | | 8:46a |
| Lawrence | 4:39a | 5:16a | | 6:14a | | | 6:43a | | | 7:14a | | | 7:43a | | | 8:14a | | | 8:43a | |
| Sunnyvale | 4:42a | 5:19a | | 6:17a | 6:22a | 6:39a | 6:46a | 6:52a | | 7:17a | 7:22a | 7:39a | 7:46a | 7:53a | | 8:17a | 8:22a | 8:39a | 8:46a | 8:52a |
| Mountain View | 4:45a | 5:22a | 6:13a | 6:20a | 6:25a | | 6:49a | 6:55a | 7:13a | 7:20a | 7:25a | | 7:49a | 7:56a | 8:13a | 8:20a | 8:25a | | 8:49a | 8:55a |
| San Antonio | 4:48a | 5:25a | | | 6:28a | | | 6:58a | | | 7:28a | | | 7:59a | | | 8:28a | | | 8:58a |
| California Avenue | 4:52a | 5:29a | | | 6:32a | | | 7:02a | | | 7:32a | | | 8:03a | | | 8:32a | | | 9:02a |
| Palo Alto | 4:55a | 5:32a | 6:20a | 6:27a | 6:35a | 6:49a | 6:56a | 7:05a | 7:20a | 7:27a | 7:35a | 7:49a | 7:56a | 8:06a | 8:20a | 8:27a | 8:35a | 8:49a | 8:56a | 9:05a |
| Menlo Park | 4:57a | 5:34a | | 6:29a | 6:37a | | 6:58a | 7:07a | | 7:29a | 7:37a | | 7:58a | 8:08a | | 8:29a | 8:37a | | 8:58a | 9:07a |
| Atherton | 4:59a | 5:36a | | 6:31a | | | | | | 7:31a | | | | | | 8:31a | | | | |
| Redwood City | 5:03a | 5:40a | | 6:35a | 6:41a | 6:56a | 7:02a | 7:11a | | 7:35a | 7:41a | 7:56a | 8:02a | 8:12a | | 8:35a | 8:41a | 8:56a | 9:02a | 9:11a |
| San Carlos | 5:06a | 5:43a | | | 6:44a | | | 7:14a | | | 7:44a | | | 8:15a | | | 8:44a | | | 9:14a |
| Belmont | 5:08a | 5:45a | | | 6:46a | | | 7:16a | | | 7:46a | | | 8:17a | | | 8:46a | | | 9:16a |
| Hillsdale | 5:11a | 5:48a | 6:31a | 6:40a | 6:49a | | 7:07a | 7:19a | 7:31a | 7:40a | 7:49a | | 8:07a | 8:20a | 8:31a | 8:40a | 8:49a | | 9:07a | 9:19a |
| Hayward Park | 5:13a | 5:50a | | 6:42a | | | 7:09a | | | 7:42a | | | 8:09a | | | 8:42a | | | 9:09a | |
| San Mateo | 5:15a | 5:52a | | 6:44a | 6:53a | 7:06a | 7:11a | 7:23a | | 7:44a | 7:53a | 8:06a | 8:11a | 8:24a | | 8:44a | 8:53a | 9:06a | 9:11a | 9:23a |
| Burlingame | 5:17a | 5:54a | | 6:46a | | | 7:13a | | | 7:46a | | | 8:13a | | | 8:46a | | | 9:13a | |
| Broadway | 5:21a | 5:58a | | | | | 7:17a | | | | | | 8:17a | | | | | | 9:17a | |
| Millbrae | 5:23a | 6:00a | 6:39a | 6:50a | 6:58a | 7:12a | 7:19a | 7:28a | 7:39a | 7:50a | 7:58a | 8:12a | 8:19a | 8:29a | 8:39a | 8:50a | 8:58a | 9:12a | 9:19a | 9:28a |
| San Bruno | 5:26a | 6:03a | | | 7:01a | | | 7:31a | | | 8:01a | | | 8:32a | | | 9:01a | | | 9:31a |
| So. San Francisco | 5:29a | 6:06a | | 6:54a | 7:04a | | 7:23a | 7:34a | | 7:54a | 8:04a | | 8:23a | 8:35a | | 8:54a | 9:04a | | 9:23a | 9:34a |
| Bayshore | 5:34a | 6:11a | | 6:59a | | | 7:28a | | | 7:59a | | | 8:28a | | | 8:59a | | | 9:28a | |
| 22nd Street | 5:38a | 6:15a | | 7:03a | | | 7:32a | | | 8:03a | | | 8:32a | | | 9:03a | | | 9:32a | |
| 4th & King | 5:48a | 6:25a | 6:59a | 7:15a | 7:21a | 7:31a | 7:43a | 7:51a | 7:59a | 8:15a | 8:21a | 8:31a | 8:43a | 8:52a | 8:59a | 9:15a | 9:21a | 9:31a | 9:43a | 9:51a |
| | | | | | | | | | | | | | | | | | | | | |
| Southbound | 100 | 102 | 300 | 104 | 106 | 302 | 108 | 110 | 304 | 112 | 114 | 306 | 116 | 118 | 308 | 120 | 122 | 310 | 124 | 126 |
| 4th & King | 4:55a | 5:25a | 6:00a | 6:07a | 6:14a | 6:30a | 6:37a | 6:46a | 7:00a | 7:07a | 7:14a | 7:30a | 7:37a | 7:46a | 8:00a | 8:07a | 8:14a | 8:30a | 8:37a | 8:46a |
| 22nd Street | 5:00a | 5:30a | 6:05a | 6:12a | 6:19a | 6:35a | 6:42a | 6:51a | 7:05a | 7:12a | 7:19a | 7:35a | 7:42a | 7:51a | 8:05a | 8:12a | 8:19a | 8:35a | 8:42a | 8:51a |
| Bayshore | 5:04a | 5:34a | | | 6:23a | | | 6:55a | | | 7:23a | | | 7:55a | | | 8:23a | | | 8:55a |
| South SF | 5:09a | 5:39a | | | 6:28a | | | 7:00a | | | 7:28a | | | 8:00a | | | 8:28a | | | 9:00a |
| San Bruno | 5:11a | 5:41a | | 6:21a | | | 6:51a | | | 7:21a | | | 7:51a | | | 8:21a | | | 8:51a | |
| Millbrae | 5:14a | 5:44a | 6:18a | 6:24a | 6:33a | 6:48a | 6:54a | 7:05a | 7:18a | 7:24a | 7:33a | 7:48a | 7:54a | 8:05a | 8:18a | 8:24a | 8:33a | 8:48a | 8:54a | 9:05a |
| Broadway | 5:17a | 5:47a | | | | | 6:57a | | | | | | 7:57a | | | | | | 8:57a | |
| Burlingame | 5:18a | 5:48a | | 6:26a | | | 6:58a | | | 7:26a | | | 7:58a | | | 8:26a | | | 8:58a | |
| San Mateo | 5:21a | 5:51a | | 6:29a | 6:37a | | 7:01a | 7:09a | | 7:29a | 7:37a | | 8:01a | 8:09a | | 8:29a | 8:37a | | 9:01a | 9:09a |
| Hayward Park | 5:24a | 5:54a | | | 6:40a | | | 7:12a | | | 7:40a | | | 8:12a | | | 8:40a | | | 9:12a |
| Hillsdale | 5:26a | 5:56a | | 6:32a | 6:42a | 6:57a | 7:04a | 7:14a | | 7:32a | 7:42a | 7:57a | 8:04a | 8:14a | | 8:32a | 8:42a | 8:57a | 9:04a | 9:14a |
| Belmont | 5:28a | 5:58a | | 6:34a | | | 7:06a | | | 7:34a | | | 8:06a | | | 8:34a | | | 9:06a | |
| San Carlos | 5:31a | 6:01a | | 6:37a | 6:46a | | 7:09a | 7:18a | | 7:37a | 7:46a | | 8:09a | 8:18a | | 8:37a | 8:46a | | 9:09a | 9:18a |
| Redwood City | 5:34a | 6:04a | 6:32a | 6:40a | 6:49a | | 7:12a | 7:21a | 7:32a | 7:40a | 7:49a | | 8:12a | 8:21a | 8:32a | 8:40a | 8:49a | | 9:12a | 9:21a |
| | | 6:07a | | | | | | 7:24a | | | | | | 8:24a | | | | | | 9:24a |

| Southbound-Continued | 100 | 102 | 300 | 104 | 106 | 302 | 108 | 110 | 304 | 112 | 114 | 306 | 116 | 118 | 308 | 120 | 122 | 310 | 124 | 126 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Menlo Park | 5:40a | 6:10a | 6:38a | 6:44a | 6:53a | | 7:16a | 7:27a | 7:38a | 7:44a | 7:53a | | 8:16a | 8:27a | 8:38a | 8:44a | 8:53a | | 9:16a | 9:27a |
| Palo Alto | 5:42a | 6:12a | | 6:46a | 6:55a | 7:09a | 7:18a | 7:29a | | 7:46a | 7:55a | 8:09a | 8:18a | 8:29a | | 8:46a | 8:55a | 9:09a | 9:18a | 9:29a |
| California Ave. | 5:45a | 6:15a | | 6:49a | | | 7:21a | | | 7:49a | | | 8:21a | | | 8:49a | | | 9:21a | |
| San Antonio | 5:48a | 6:18a | | 6:52a | | | 7:24a | | | 7:52a | | | 8:24a | | | 8:52a | | | 9:24a | |
| Mountain View | 5:51a | 6:21a | 6:47a | 6:55a | 7:02a | 7:17a | 7:27a | 7:36a | 7:47a | 7:55a | 8:02a | 8:17a | 8:27a | 8:36a | 8:47a | 8:55a | 9:02a | 9:17a | 9:27a | 9:36a |
| Sunnyvale | 5:55a | 6:25a | | | 7:06a | | | 7:40a | | | 8:06a | | | 8:40a | | | 9:06a | | | 9:40a |
| Lawrence | 5:58a | 6:28a | | | 7:09a | | | 7:43a | | | 8:09a | | | 8:43a | | | 9:09a | | | 9:43a |
| Santa Clara | 6:02a | 6:32a | | | 7:13a | | | 7:47a | | | 8:13a | | | 8:47a | | | 9:13a | | | 9:47a |
| College Park | | | | | | | | 7:49a | | | | | | | | | | | | |
| San Jose Diridon | 6:12a | 6:44a | 7:02a | 7:12a | 7:23a | 7:32a | 7:46a | 7:55a | 8:02a | 8:12a | 8:23a | 8:32a | 8:46a | 8:55a | 9:02a | 9:12a | 9:23a | 9:32a | 9:46a | 9:55a |
| Tamien | 6:16a | 6:48a | | | 7:27a | | | 7:59a | | | 8:27a | | | 8:59a | | | 9:27a | | | 9:59a |

Table A.1.2 2020 Project (PCEP) — Diesel and EMU Mixed Fleet Service Mid-day Period

| Northbound | 129 | 131 | 133 | 135 | 137 | 139 | 141 | 143 | 145 | 147 | 149 | 151 | 153 | 155 |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| Tamien | 8:56a | 9:28a | | 10:28a | | 11:28a | | 12:28p | | 1:28p | | 2:28p | | 3:28p |
| San Jose Diridon | 9:01a | 9:33a | 10:01a | 10:33a | 11:01a | 11:33a | 12:01p | 12:33p | 1:01p | 1:33p | 2:01p | 2:33p | 3:01p | 3:33p |
| College Park | | | | | | | | | | | | | 3:03p | |
| Santa Clara | 9:05a | 9:37a | 10:05a | 10:37a | 11:05a | 11:37a | 12:05p | 12:37p | 1:05p | 1:37p | 2:05p | 2:37p | 3:06p | 3:37p |
| Lawrence | 9:10a | 9:42a | 10:10a | 10:42a | 11:10a | 11:42a | 12:10p | 12:42p | 1:10p | 1:42p | 2:10p | 2:42p | 3:11p | 3:42p |
| Sunnyvale | 9:13a | 9:45a | 10:13a | 10:45a | 11:13a | 11:45a | 12:13p | 12:45p | 1:13p | 1:45p | 2:13p | 2:45p | 3:14p | 3:45p |
| Mountain View | 9:16a | 9:48a | 10:16a | 10:48a | 11:16a | 11:48a | 12:16p | 12:48p | 1:16p | 1:48p | 2:16p | 2:48p | 3:17p | 3:48p |
| San Antonio | 9:19a | 9:51a | 10:19a | 10:51a | 11:19a | 11:51a | 12:19p | 12:51p | 1:19p | 1:51p | 2:19p | 2:51p | 3:20p | 3:51p |
| California Avenue | 9:23a | 9:55a | 10:23a | 10:55a | 11:23a | 11:55a | 12:23p | 12:55p | 1:23p | 1:55p | 2:23p | 2:55p | 3:24p | 3:55p |
| Palo Alto | 9:26a | 9:58a | 10:26a | 10:58a | 11:26a | 11:58a | 12:26p | 12:58p | 1:26p | 1:58p | 2:26p | 2:58p | 3:27p | 3:58p |
| Menlo Park | 9:28a | 10:00a | 10:28a | 11:00a | 11:28a | 12:00p | 12:28p | 1:00p | 1:28p | 2:00p | 2:28p | 3:00p | 3:29p | 4:00p |
| Atherton | 9:30a | 10:02a | 10:30a | 11:02a | 11:30a | 12:02p | 12:30p | 1:02p | 1:30p | 2:02p | 2:30p | 3:02p | 3:31p | 4:02p |
| Redwood City | 9:34a | 10:06a | 10:34a | 11:06a | 11:34a | 12:06p | 12:34p | 1:06p | 1:34p | 2:06p | 2:34p | 3:06p | 3:35p | 4:06p |
| San Carlos | 9:37a | 10:09a | 10:37a | 11:09a | 11:37a | 12:09p | 12:37p | 1:09p | 1:37p | 2:09p | 2:37p | 3:09p | 3:38p | 4:09p |
| Belmont | 9:39a | 10:11a | 10:39a | 11:11a | 11:39a | 12:11p | 12:39p | 1:11p | 1:39p | 2:11p | 2:39p | 3:11p | 3:40p | 4:11p |
| Hillsdale | 9:42a | 10:14a | 10:42a | 11:14a | 11:42a | 12:14p | 12:42p | 1:14p | 1:42p | 2:14p | 2:42p | 3:14p | 3:43p | 4:14p |
| Hayward Park | 9:44a | 10:16a | 10:44a | 11:16a | 11:44a | 12:16p | 12:44p | 1:16p | 1:44p | 2:16p | 2:44p | 3:16p | 3:45p | 4:16p |
| San Mateo | 9:46a | 10:18a | 10:46a | 11:18a | 11:46a | 12:18p | 12:46p | 1:18p | 1:46p | 2:18p | 2:46p | 3:18p | 3:47p | 4:18p |
| Burlingame | 9:48a | 10:20a | 10:48a | 11:20a | 11:48a | 12:20p | 12:48p | 1:20p | 1:48p | 2:20p | 2:48p | 3:20p | 3:49p | 4:20p |
| Broadway | 9:52a | 10:24a | 10:52a | 11:24a | 11:52a | 12:24p | 12:52p | 1:24p | 1:52p | 2:24p | 2:52p | 3:24p | 3:53p | 4:24p |
| Millbrae | 9:54a | 10:26a | 10:54a | 11:26a | 11:54a | 12:26p | 12:54p | 1:26p | 1:54p | 2:26p | 2:54p | 3:26p | 3:55p | 4:26p |
| San Bruno | 9:57a | 10:29a | 10:57a | 11:29a | 11:57a | 12:29p | 12:57p | 1:29p | 1:57p | 2:29p | 2:57p | 3:29p | 3:58p | 4:29p |
| So. San Francisco | 10:00a | 10:32a | 11:00a | 11:32a | 12:00p | 12:32p | 1:00p | 1:32p | 2:00p | 2:32p | 3:00p | 3:32p | 4:01p | 4:32p |
| Bayshore | 10:05a | 10:37a | 11:05a | 11:37a | 12:05p | 12:37p | 1:05p | 1:37p | 2:05p | 2:37p | 3:05p | 3:37p | 4:06p | 4:37p |
| 22nd Street | 10:09a | 10:41a | 11:09a | 11:41a | 12:09p | 12:41p | 1:09p | 1:41p | 2:09p | 2:41p | 3:09p | 3:41p | 4:10p | 4:41p |
| 4th & King | 10:19a | 10:51a | 11:19a | 11:51a | 12:19p | 12:51p | 1:19p | 1:51p | 2:19p | 2:51p | 3:19p | 3:51p | 4:20p | 4:51p |

| Southbound | 128 | 130 | 132 | 134 | 136 | 138 | 140 | 142 | 144 | 146 | 148 | 150 | 152 | 154 |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 4th & King | 8:59a | 9:29a | 9:59a | 10:29a | 10:59a | 11:29a | 11:59p | 12:29p | 12:59p | 1:29p | 1:59p | 2:29p | 2:59p | 3:29p |
| 22nd Street | 9:04a | 9:34a | 10:04a | 10:34a | 11:04a | 11:34a | 12:04a | 12:34p | 1:04p | 1:34p | 2:04p | 2:34p | 3:04p | 3:34p |
| Bayshore | 9:08a | 9:38a | 10:08a | 10:38a | 11:08a | 11:38a | 12:08a | 12:38p | 1:08p | 1:38p | 2:08p | 2:38p | 3:08p | 3:38p |
| South SF | 9:13a | 9:43a | 10:13a | 10:43a | 11:13a | 11:43a | 12:13a | 12:43p | 1:13p | 1:43p | 2:13p | 2:43p | 3:13p | 3:43p |
| San Bruno | 9:15a | 9:45a | 10:15a | 10:45a | 11:15a | 11:45a | 12:15a | 12:45p | 1:15p | 1:45p | 2:15p | 2:45p | 3:15p | 3:45p |
| Millbrae | 9:18a | 9:48a | 10:18a | 10:48a | 11:18a | 11:48a | 12:18a | 12:48p | 1:18p | 1:48p | 2:18p | 2:48p | 3:18p | 3:48p |
| Broadway | 9:21a | 9:51a | 10:21a | 10:51a | 11:21a | 11:51a | 12:21a | 12:51p | 1:21p | 1:51p | 2:21p | 2:51p | 3:21p | 3:51p |
| Burlingame | 9:22a | 9:52a | 10:22a | 10:52a | 11:22a | 11:52a | 12:22a | 12:52p | 1:22p | 1:52p | 2:22p | 2:52p | 3:22p | 3:52p |
| San Mateo | 9:25a | 9:55a | 10:25a | 10:55a | 11:25a | 11:55a | 12:25a | 12:55p | 1:25p | 1:55p | 2:25p | 2:55p | 3:25p | 3:55p |
| Hayward Park | 9:28a | 9:58a | 10:28a | 10:58a | 11:28a | 11:58a | 12:28a | 12:58p | 1:28p | 1:58p | 2:28p | 2:58p | 3:28p | 3:58p |
| Hillsdale | 9:30a | 10:00a | 10:30a | 11:00a | 11:30a | 12:00p | 12:30a | 1:00p | 1:30p | 2:00p | 2:30p | 3:00p | 3:30p | 4:00p |
| Belmont | 9:32a | 10:02a | 10:32a | 11:02a | 11:32a | 12:02p | 12:32a | 1:02p | 1:32p | 2:02p | 2:32p | 3:02p | 3:32p | 4:02p |
| San Carlos | 9:35a | 10:05a | 10:35a | 11:05a | 11:35a | 12:05p | 12:35a | 1:05p | 1:35p | 2:05p | 2:35p | 3:05p | 3:35p | 4:05p |
| Redwood City | 9:38a | 10:08a | 10:38a | 11:08a | 11:38a | 12:08p | 12:38a | 1:08p | 1:38p | 2:08p | 2:38p | 3:08p | 3:38p | 4:08p |
| Atherton | 9:41a | 10:11a | 10:41a | 11:11a | 11:41a | 12:11p | 12:41a | 1:11p | 1:41p | 2:11p | 2:41p | 3:11p | 3:41p | 4:11p |
| Menlo Park | 9:44a | 10:14a | 10:44a | 11:14a | 11:44a | 12:14p | 12:44a | 1:14p | 1:44p | 2:14p | 2:44p | 3:14p | 3:44p | 4:14p |
| Palo Alto | 9:46a | 10:16a | 10:46a | 11:16a | 11:46a | 12:16p | 12:46a | 1:16p | 1:46p | 2:16p | 2:46p | 3:16p | 3:46p | 4:16p |
| California Ave. | 9:49a | 10:19a | 10:49a | 11:19a | 11:49a | 12:19p | 12:49a | 1:19p | 1:49p | 2:19p | 2:49p | 3:19p | 3:49p | 4:19p |
| San Antonio | 9:52a | 10:22a | 10:52a | 11:22a | 11:52a | 12:22p | 12:52a | 1:22p | 1:52p | 2:22p | 2:52p | 3:22p | 3:52p | 4:22p |
| Mountain View | 9:55a | 10:25a | 10:55a | 11:25a | 11:55a | 12:25p | 12:55a | 1:25p | 1:55p | 2:25p | 2:55p | 3:25p | 3:55p | 4:25p |
| Sunnyvale | 9:59a | 10:29a | 10:59a | 11:29a | 11:59a | 12:29p | 12:59a | 1:29p | 1:59p | 2:29p | 2:59p | 3:29p | 3:59p | 4:29p |
| Lawrence | 10:02a | 10:32a | 11:02a | 11:32a | 12:02p | 12:32p | 1:02a | 1:32p | 2:02p | 2:32p | 3:02p | 3:32p | 4:02p | 4:32p |
| Santa Clara | 10:06a | 10:36a | 11:06a | 11:36a | 12:06p | 12:36p | 1:06a | 1:36p | 2:06p | 2:36p | 3:06p | 3:36p | 4:06p | 4:36p |
| College Park | | | | | | | | | | | | | | 4:38p |
| San Jose Diridon | 10:16a | 10:48a | 11:16a | 11:48a | 12:16p | 12:48p | 1:16a | 1:48p | 2:16p | 2:48p | 3:16p | 3:48p | 4:16p | 4:44p |
| Tamien | | 10:52a | | 11:52a | | 12:52p | | 1:52p | | 2:52p | 3:20p | | 4:20p | |

Table A.1.3 2020 Project Electrification — – Diesel and EMU Mixed Fleet Service PM Peak Period Diesel trains are the "Baby Bullet" trains, in orange highlight

| Northbound | 313 | 157 | 159 | 315 | 161 | 163 | 317 | 165 | 167 | 319 | 169 | 171 | 321 | 173 | 175 | 323 | 177 | 179 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tamien | | 4:02p | | | 4:32p | | | 5:02p | | | 5:32p | | | 6:02p | | | 6:32p | |
| San Jose Diridon | 4:00p | 4:07p | 4:12p | 4:30p | 4:37p | 4:42p | 5:00p | 5:07p | 5:12p | 5:30p | 5:37p | 5:42p | 6:00p | 6:07p | 6:12p | 6:30p | 6:37p | 6:42p |
| College Park | | | | | | | | | | | | | | | | | | |
| Santa Clara | | | 4:16p | | | 4:46p | | | 5:16p | | | 5:46p | | | 6:16p | | | 6:46p |
| Lawrence | | | 4:21p | | | 4:51p | | | 5:21p | | | 5:51p | | | 6:21p | | | 6:51p |
| Sunnyvale | | | 4:24p | | | 4:54p | | | 5:24p | | | 5:54p | | | 6:24p | | | 6:54p |
| Mountain View | 4:13p | 4:18p | 4:27p | 4:43p | 4:48p | 4:57p | 5:13p | 5:18p | 5:27p | 5:43p | 5:48p | 5:57p | 6:13p | 6:18p | 6:27p | 6:43p | 6:48p | 6:57p |
| San Antonio | | 4:21p | | | 4:51p | | | 5:21p | | | 5:51p | | | 6:21p | | | 6:51p | |
| California Avenue | | 4:25p | | | 4:55p | | | 5:25p | | | 5:55p | | | 6:25p | | | 6:55p | |
| Palo Alto | | 4:28p | 4:34p | 4:50p | 4:58p | 5:04p | | 5:28p | 5:34p | 5:50p | 5:58p | 6:04p | | 6:28p | 6:34p | 6:50p | 6:58p | 7:04p |
| Menlo Park | 4:21p | 4:30p | 4:36p | | 5:00p | 5:06p | 5:21p | 5:30p | 5:36p | | 6:00p | 6:06p | 6:21p | 6:30p | 6:36p | | 7:00p | 7:06p |
| Atherton | | | 4:38p | | | | | | 5:38p | | | | | | 6:38p | | | |
| Redwood City | 4:27p | 4:34p | 4:42p | | 5:04p | 5:10p | 5:27p | 5:34p | 5:42p | | 6:04p | 6:10p | 6:27p | 6:34p | 6:42p | | 7:04p | 7:10p |
| San Carlos | | 4:37p | 4:45p | | 5:07p | 5:13p | | 5:37p | 5:45p | | 6:07p | 6:13p | | 6:37p | 6:45p | | 7:07p | 7:13p |
| Belmont | | 4:39p | | | 5:09p | | | 5:39p | | | 6:09p | | | 6:39p | | | 7:09p | |
| Hillsdale | | 4:42p | 4:49p | 5:01p | 5:12p | 5:17p | | 5:42p | 5:49p | 6:01p | 6:12p | 6:17p | | 6:42p | 6:49p | 7:01p | 7:12p | 7:17p |
| Hayward Park | | | 4:51p | | | 5:19p | | | 5:51p | | | 6:19p | | | 6:51p | | | 7:19p |
| San Mateo | | 4:46p | 4:53p | | 5:16p | 5:21p | | 5:46p | 5:53p | | 6:16p | 6:21p | | 6:46p | 6:53p | | 7:16p | 7:21p |
| Burlingame | | 4:48p | | | 5:18p | | | 5:48p | | | 6:18p | | | 6:48p | | | 7:18p | |
| Broadway | | 4:52p | | | | | | 5:52p | | | | | | 6:52p | | | | |
| Millbrae | 4:40p | 4:54p | 4:58p | 5:09p | 5:22p | 5:26p | 5:40p | 5:54p | 5:58p | 6:09p | 6:22p | 6:26p | 6:40p | 6:54p | 6:58p | 7:09p | 7:22p | 7:26p |
| San Bruno | | | 5:01p | | | 5:29p | | | 6:01p | | | 6:29p | | | 7:01p | | | 7:29p |
| So. San Francisco | | | 5:04p | | | 5:32p | | | 6:04p | | | 6:32p | | | 7:04p | | | 7:32p |
| Bayshore | | 5:03p | | | 5:31p | | | 6:03p | | | 6:31p | | | 7:03p | | | 7:31p | |
| 22nd Street | 4:53p | 5:07p | 5:13p | 5:23p | 5:35p | 5:41p | 5:53p | 6:07p | 6:13p | 6:23p | 6:35p | 6:41p | 6:53p | 7:07p | 7:13p | 7:23p | 7:35p | 7:41p |
| 4th & King | 5:01p | 5:14p | 5:22p | 5:30p | 5:44p | 5:50p | 6:01p | 6:14p | 6:22p | 6:30p | 6:44p | 6:50p | 7:01p | 7:14p | 7:22p | 7:30p | 7:44p | 7:50p |

| Southbound | 312 | 156 | 158 | 314 | 160 | 162 | 316 | 164 | 166 | 318 | 168 | 170 | 320 | 172 | 174 | 322 | 176 | 178 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 4th & King | 4:00p | 4:06p | 4:12p | 4:30p | 4:36p | 4:42p | 5:00p | 5:06p | 5:12p | 5:30p | 5:36p | 5:42p | 6:00p | 6:06p | 6:12p | 6:30p | 6:36p | 6:42p |
| 22nd Street | | | 4:17p | | | 4:47p | | | 5:17p | | | 5:47p | | | 6:17p | | | 6:47p |
| Bayshore | | | 4:21p | | | 4:51p | | | 5:21p | | | 5:51p | | | 6:21p | | | 6:51p |
| South SF | | 4:17p | 4:26p | | 4:47p | 4:56p | | 5:17p | 5:26p | | 5:47p | 5:56p | | 6:17p | 6:26p | | 6:47p | 6:56p |
| San Bruno | | 4:19p | | | 4:49p | | | 5:19p | | | 5:49p | | | 6:19p | | | 6:49p | |
| Millbrae | 4:16p | 4:22p | 4:31p | 4:46p | 4:52p | 5:01p | 5:16p | 5:22p | 5:31p | 5:46p | 5:52p | 6:01p | 6:16p | 6:22p | 6:31p | 6:46p | 6:52p | 7:01p |
| Broadway | | | | | | 5:04p | | | | | | 6:04p | | | | | | 7:04p |
| Burlingame | | | 4:33p | | | 5:05p | | | 5:33p | | | 6:05p | | | 6:33p | | | 7:05p |
| San Mateo | 4:23p | 4:26p | 4:36p | | 4:56p | 5:08p | 5:23p | 5:26p | 5:36p | | 5:56p | 6:08p | 6:23p | 6:26p | 6:36p | | 6:56p | 7:08p |
| Hayward Park | | | 4:39p | | | 5:11p | | | 5:39p | | | 6:11p | | | 6:39p | | | 7:11p |
| Hillsdale | | 4:29p | 4:41p | 4:55p | 4:59p | 5:13p | | 5:29p | 5:41p | 5:55p | 5:59p | 6:13p | | 6:29p | 6:41p | 6:55p | 6:59p | 7:13p |
| Belmont | | 4:31p | | | 5:01p | | | 5:31p | | | 6:01p | | | 6:31p | | | 7:01p | |
| San Carlos | | 4:34p | | | 5:04p | | | 5:34p | | | 6:04p | | | 6:34p | | | 7:04p | |
| Redwood City | 4:33p | 4:37p | 4:47p | | 5:07p | 5:19p | 5:33p | 5:37p | 5:47p | | 6:07p | 6:19p | 6:33p | 6:37p | 6:47p | | 7:07p | 7:19p |
| Atherton | | | 4:50p | | | | | | 5:50p | | | | | | 6:50p | | | |
| Menlo Park | | 4:41p | 4:53p | | 5:11p | 5:23p | | 5:41p | 5:53p | | 6:11p | 6:23p | | 6:41p | 6:53p | | 7:11p | 7:23p |
| Palo Alto | 4:40p | 4:43p | 4:55p | 5:07p | 5:13p | 5:25p | 5:40p | 5:43p | 5:55p | 6:07p | 6:13p | 6:25p | 6:40p | 6:43p | 6:55p | 7:07p | 7:13p | 7:25p |
| California Ave. | | 4:46p | | | 5:16p | | | 5:46p | | | 6:16p | | | 6:46p | | | 7:16p | |
| San Antonio | | 4:49p | | | 5:19p | | | 5:49p | | | 6:19p | | | 6:49p | | | 7:19p | |
| Mountain View | | 4:52p | 5:02p | 5:15p | 5:22p | 5:32p | | 5:52p | 6:02p | 6:15p | 6:22p | 6:32p | | 6:52p | 7:02p | 7:15p | 7:22p | 7:32p |
| Sunnyvale | 4:51p | 4:56p | 5:06p | | 5:26p | 5:36p | 5:51p | 5:56p | 6:06p | | 6:26p | 6:36p | 6:51p | 6:56p | 7:06p | | 7:26p | 7:36p |
| Lawrence | | | 5:09p | | | 5:39p | | | 6:09p | | | 6:39p | | | 7:09p | | | 7:39p |
| Santa Clara | | 5:04p | | | 5:34p | | | 6:04p | | | 6:34p | | | 7:04p | | | 7:34p | |
| College Park | | | | | | | | | | | | | | | | | | |
| San Jose Diridon | 5:03p | 5:12p | 5:20p | 5:30p | 5:42p | 5:48p | 6:03p | 6:12p | 6:20p | 6:30p | 6:42p | 6:48p | 7:03p | 7:12p | 7:20p | 7:30p | 7:42p | 7:48p |
| Tamien | | 5:16p | 5:24p | | | 5:52p | | | 6:24p | | | 6:52p | | | | | | 7:52p |

Table A.1.4 2020 Project (PCEP) – Diesel and EMU Mixed Fleet Service Evening Period

| Northbound | 181 | 183 | 185 | 187 | 189 |
|-------------------|-------|-------|-------|--------|--------|
| Tamien | | 7:25p | 8:27p | 9:27p | |
| San Jose Diridon | 7:00p | 7:30p | 8:32p | 9:32p | 10:30p |
| College Park | | | | | |
| Santa Clara | 7:04p | 7:34p | 8:36p | 9:36p | 10:34p |
| Lawrence | 7:09p | 7:39p | 8:41p | 9:41p | 10:39p |
| Sunnyvale | 7:12p | 7:42p | 8:44p | 9:44p | 10:42p |
| Mountain View | 7:15p | 7:45p | 8:47p | 9:47p | 10:45p |
| San Antonio | 7:18p | 7:48p | 8:50p | 9:50p | 10:48p |
| California Avenue | 7:22p | 7:52p | 8:54p | 9:54p | 10:52p |
| Palo Alto | 7:25p | 7:55p | 8:57p | 9:57p | 10:55p |
| Menlo Park | 7:27p | 7:57p | 8:59p | 9:59p | 10:57p |
| Atherton | 7:29p | 7:59p | 9:01p | 10:01p | 10:59p |
| Redwood City | 7:33p | 8:03p | 9:05p | 10:05p | 11:03p |
| San Carlos | 7:36p | 8:06p | 9:08p | 10:08p | 11:06p |
| Belmont | 7:38p | 8:08p | 9:10p | 10:10p | 11:08p |
| Hillsdale | 7:41p | 8:11p | 9:13p | 10:13p | 11:11p |
| Hayward Park | 7:43p | 8:13p | 9:15p | 10:15p | 11:13p |
| San Mateo | 7:45p | 8:15p | 9:17p | 10:17p | 11:15p |
| Burlingame | 7:47p | 8:17p | 9:19p | 10:19p | 11:17p |
| Broadway | 7:51p | 8:21p | 9:23p | 10:23p | 11:21p |
| Millbrae | 7:53p | 8:23p | 9:25p | 10:25p | 11:23p |
| San Bruno | 7:56p | 8:26p | 9:28p | 10:28p | 11:26p |
| So. San Francisco | 7:59p | 8:29p | 9:31p | 10:31p | 11:29p |
| Bayshore | 8:04p | 8:34p | 9:36p | 10:36p | 11:34p |
| 22nd Street | 8:08p | 8:38p | 9:40p | 10:40p | 11:38p |
| 4th & King | 8:18p | 8:48p | 9:50p | 10:50p | 11:48p |

| <u>Southbound</u> | 180 | 182 | 184 | 186 | 188 |
|---------------------|-------|-------|--------|--------|--------|
| 4th & King | 7:30p | 8:30p | 9:30p | 10:30p | 12:01a |
| 22nd Street | 7:35p | 8:35p | 9:35p | 10:35p | 12:06a |
| Bayshore | 7:39p | 8:39p | 9:39p | 10:39p | 12:10a |
| South SF | 7:44p | 8:44p | 9:44p | 10:44p | 12:15a |
| San Bruno | 7:46p | 8:46p | 9:46p | 10:46p | 12:17a |
| Millbrae | 7:49p | 8:49p | 9:49p | 10:49p | 12:20a |
| Broadway | 7:52p | 8:52p | 9:52p | 10:52p | 12:23a |
| Burlingame | 7:53p | 8:53p | 9:53p | 10:53p | 12:24a |
| San Mateo | 7:56p | 8:56p | 9:56p | 10:56p | 12:27a |
| Hayward Park | 7:59p | 8:59p | 9:59p | 10:59p | 12:30a |
| Hillsdale | 8:01p | 9:01p | 10:01p | 11:01p | 12:32a |
| Belmont | 8:03p | 9:03p | 10:03p | 11:03p | 12:34a |
| San Carlos | 8:06p | 9:06p | 10:06p | 11:06p | 12:37a |
| Redwood City | 8:09p | 9:09p | 10:09p | 11:09p | 12:40a |
| Atherton | 8:12p | 9:12p | 10:12p | 11:12p | 12:43a |
| Menlo Park | 8:15p | 9:15p | 10:15p | 11:15p | 12:46a |
| Palo Alto | 8:17p | 9:17p | 10:17p | 11:17p | 12:48a |
| California Ave. | 8:20p | 9:20p | 10:20p | 11:20p | 12:51a |
| San Antonio | 8:23p | 9:23p | 10:23p | 11:23p | 12:54a |
| Mountain View | 8:26p | 9:26p | 10:26p | 11:26p | 12:57a |
| Sunnyvale | 8:30p | 9:30p | 10:30p | 11:30p | 1:01a |
| Lawrence | 8:33p | 9:33p | 10:33p | 11:33p | 1:04a |
| Santa Clara | 8:37p | 9:37p | 10:37p | 11:37p | 1:08a |
| College Park | | | | | |
| San Jose Diridon | 8:47p | 9:49p | 10:49p | 11:47p | 1:18a |
| Tamien | 8:51p | 9:53p | 10:53p | _ | |

Table 1.5 2020 Project Electrification – Diesel and EMU Mixed Fleet Service Peak Period; Gilroy Service (Pass-through Diesel Service to San Francisco)

Northbound

| Gilroy | 6:10a | 6:40a | 7:10a |
|------------------|-------|-------|-------|
| San Martin | 6:19a | 6:49a | 7:19a |
| Morgan Hill | 6:25a | 6:55a | 7:25a |
| Blossom Hill | 6:38a | 7:08a | 7:38a |
| Capitol | 6:44a | 7:14a | 7:44a |
| Tamien | 6:52a | 7:22a | 7:52a |
| San Jose Diridon | 7:00a | 7:29a | 8:00a |

Southbound

| San Jose Diridon | 5:03p | 6:03p | 7:03p |
|------------------|-------|-------|-------|
| Tamien | 5:08p | 6:08p | 7:08p |
| Capitol | 5:15p | 6:15p | 7:15p |
| Blossom Hill | 5:21p | 6:21p | 7:21p |
| Morgan Hill | 5:34p | 6:34p | 7:34p |
| San Martin | 5:39p | 6:39p | 7:39p |
| Gilroy | 5:51p | 6:51p | 7:51p |

Table A.2.1 2040 Project + TTC Fully Electrified fleet between SJ – SF Schedule - AM Peak Service

| | | | | | | | | North | bound S | ervice | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|-------|---------|--------|------|------|------|------|------|------|------|------|------|------|
| | 400 | 402 | 404 | 406 | 408 | 410 | 412 | 414 | 416 | 418 | 420 | 422 | 424 | 426 | 428 | 430 | 432 | 434 | 436 | 438 |
| Tamien | | 5:00 | | 6:05 | | | 6:35 | | | 7:05 | | | 7:35 | | | 8:05 | | | 8:35 | |
| San Jose Diridon | 4:30 | 5:05 | 6:00 | 6:10 | 6:20 | 6:30 | 6:40 | 6:50 | 7:00 | 7:10 | 7:20 | 7:30 | 7:40 | 7:50 | 8:00 | 8:10 | 8:20 | 8:30 | 8:40 | 8:50 |
| College Park | | | | | | | | | | | | | | | | | | | | |
| Santa Clara | 4:35 | 5:10 | 6:05 | | | 6:35 | | | 7:05 | | | 7:35 | | | 8:05 | | | 8:35 | | |
| Lawrence | 4:39 | 5:14 | | 6:18 | | | 6:48 | | | 7:18 | | | 7:48 | | | 8:18 | | | 8:48 | |
| Sunnyvale | 4:42 | 5:17 | 6:11 | 6:21 | 6:30 | 6:41 | 6:51 | 7:00 | 7:11 | 7:21 | 7:30 | 7:41 | 7:51 | 8:00 | 8:11 | 8:21 | 8:30 | 8:41 | 8:51 | 9:00 |
| Mountain View | 4:47 | 5:22 | 6:16 | 6:26 | 6:35 | 6:46 | 6:56 | 7:05 | 7:16 | 7:26 | 7:35 | 7:46 | 7:56 | 8:05 | 8:16 | 8:26 | 8:35 | 8:46 | 8:56 | 9:05 |
| San Antonio | 4:50 | 5:25 | | | 6:38 | | | 7:08 | | | 7:38 | | | 8:08 | | | 8:38 | | | 9:08 |
| California Ave. | 4:53 | 5:28 | 6:21 | | | 6:51 | | | 7:21 | | | 7:51 | | | 8:21 | | | 8:51 | | |
| Palo Alto | 4:57 | 5:32 | 6:25 | 6:34 | 6:44 | 6:55 | 7:04 | 7:14 | 7:25 | 7:34 | 7:44 | 7:55 | 8:04 | 8:14 | 8:25 | 8:34 | 8:44 | 8:55 | 9:04 | 9:14 |
| Menlo Park | 4:59 | 5:34 | | 6:36 | 6:46 | | 7:06 | 7:16 | | 7:36 | 7:46 | | 8:06 | 8:16 | | 8:36 | 8:46 | | 9:06 | 9:16 |
| Atherton | 5:01 | 5:36 | 6:28 | | | | | | 7:28 | | | | | | 8:28 | | | | | |
| Redwood City | 5:05 | 5:40 | 6:32 | 6:43 | 6:51 | 7:01 | 7:13 | 7:21 | 7:32 | 7:43 | 7:51 | 8:01 | 8:13 | 8:21 | 8:32 | 8:43 | 8:51 | 9:01 | 9:13 | 9:21 |
| San Carlos | 5:08 | 5:43 | | | 6:54 | | | 7:24 | | | 7:54 | | | 8:24 | | | 8:54 | | | 9:24 |
| Belmont | 5:10 | 5:45 | | 6:47 | | | 7:17 | | | 7:47 | | | 8:17 | | | 8:47 | | | 9:17 | |
| Hillsdale | 5:13 | 5:48 | 6:39 | 6:50 | 6:58 | 7:08 | 7:20 | 7:28 | 7:39 | 7:50 | 7:58 | 8:08 | 8:20 | 8:28 | 8:39 | 8:50 | 8:58 | 9:08 | 9:20 | 9:28 |
| Hayward Park | 5:15 | 5:50 | | | 7:00 | | | | | | 8:00 | | | | | | 9:00 | | | |
| San Mateo | 5:17 | 5:52 | 6:42 | 6:53 | | 7:11 | 7:23 | | 7:42 | 7:53 | | 8:11 | 8:23 | | 8:42 | 8:53 | | 9:11 | 9:23 | |
| Burlingame | 5:20 | 5:55 | | 6:56 | | | 7:26 | | | 7:56 | | | 8:26 | | | 8:56 | | | 9:26 | |
| Broadway | 5:22 | 5:57 | | | | 7:15 | | | | | | 8:15 | | | | | | 9:15 | | |
| Millbrae | 5:26 | 6:01 | 6:50 | 7:01 | 7:08 | 7:19 | 7:31 | 7:37 | 7:50 | 8:01 | 8:08 | 8:19 | 8:31 | 8:37 | 8:50 | 9:01 | 9:08 | 9:19 | 9:31 | 9:37 |
| San Bruno | 5:30 | 6:05 | | | 7:12 | | | 7:41 | | | 8:12 | | | 8:41 | | | 9:12 | | | 9:41 |
| South SF | 5:34 | 6:09 | 6:57 | | | 7:26 | | | 7:57 | | | 8:26 | | | 8:57 | | | 9:26 | | |
| Bayshore | 5:39 | 6:14 | | | | | | 7:45 | | | | | | 8:45 | | | | | | 9:45 |
| 22nd Street | 5:44 | 6:19 | | | 7:19 | | | | | | 8:19 | | | | | | 9:19 | | | |
| 4th & King | | | 7:04 | | 7:23 | 7:33 | | 7:52 | 8:04 | | 8:23 | 8:33 | | 8:52 | 9:04 | | 9:23 | 9:33 | | 9:52 |
| 4th & Townsend | 5:50 | 6:25 | | 7:16 | | | 7:46 | | | 8:16 | | | 8:46 | | | 9:16 | | | 9:46 | |
| Transbay Terminal | 5:54 | 6:29 | | 7:20 | | | 7:50 | | | 8:20 | | | 8:50 | | | 9:20 | | | 9:50 | |

| | | | | | | | | South | bound S | Service | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|-------|---------|---------|------|------|------|------|------|------|------|------|------|------|
| | 401 | 403 | 405 | 407 | 409 | 411 | 413 | 415 | 417 | 419 | 421 | 423 | 425 | 427 | 429 | 431 | 433 | 435 | 437 | 439 |
| Transbay Terminal | 4:50 | 5:20 | | 6:05 | | | 6:35 | | | 7:05 | | | 7:35 | | | 8:05 | | | 8:35 | |
| 4th & Townsend | 4:55 | 5:25 | | 6:10 | | | 6:40 | | | 7:10 | | | 7:40 | | | 8:10 | | | 8:40 | |
| 4th & King | | | 6:00 | | 6:20 | 6:30 | | 6:50 | 7:00 | | 7:20 | 7:30 | | 7:50 | 8:00 | | 8:20 | 8:30 | | 8:50 |
| 22nd Street | 5:00 | 5:30 | 6:05 | 6:15 | 6:25 | 6:35 | 6:45 | 6:55 | 7:05 | 7:15 | 7:25 | 7:35 | 7:45 | 7:55 | 8:05 | 8:15 | 8:25 | 8:35 | 8:45 | 8:55 |
| Bayshore | 5:04 | 5:34 | | 6:19 | | | | | | 7:19 | | | | | | 8:19 | | | | |
| South SF | 5:09 | 5:39 | | | | 6:43 | | | | | | 7:43 | | | | | | 8:43 | | |
| San Bruno | 5:13 | 5:43 | | 6:27 | | | 6:56 | | | 7:27 | | | 7:56 | | | 8:27 | | | 8:56 | |
| Millbrae | 5:16 | 5:46 | 6:18 | 6:30 | 6:38 | 6:49 | 6:59 | 7:08 | 7:18 | 7:30 | 7:38 | 7:49 | 7:59 | 8:08 | 8:18 | 8:30 | 8:38 | 8:49 | 8:59 | 9:08 |
| Broadway | 5:19 | 5:49 | | | | | | | | | | | | | | | | | | |
| Burlingame | 5:21 | 5:51 | | 6:34 | | | 7:03 | | | 7:34 | | | 8:03 | | | 8:34 | | | 9:03 | |
| San Mateo | 5:24 | 5:54 | | 6:37 | 6:44 | | 7:06 | 7:14 | | 7:37 | 7:44 | | 8:06 | 8:14 | | 8:37 | 8:44 | | 9:06 | 9:14 |
| Hayward Park | 5:26 | 5:56 | | 6:39 | | | | | | 7:39 | | | | | | 8:39 | | | | |
| Hillsdale | 5:29 | 5:59 | 6:27 | 6:42 | | 6:58 | 7:10 | | 7:27 | 7:42 | | 7:58 | 8:10 | | 8:27 | 8:42 | | 8:58 | 9:10 | |
| Belmont | 5:31 | 6:01 | | | 6:49 | | | 7:19 | | | 7:49 | | | 8:19 | | | 8:49 | | | 9:19 |
| San Carlos | 5:33 | 6:03 | 6:30 | 6:45 | | 7:01 | 7:13 | | 7:30 | 7:45 | | 8:01 | 8:13 | | 8:30 | 8:45 | | 9:01 | 9:13 | |
| Redwood City | 5:39 | 6:09 | | 6:51 | 6:56 | | 7:19 | 7:26 | | 7:51 | 7:56 | | 8:19 | 8:26 | | 8:51 | 8:56 | | 9:19 | 9:26 |
| Atherton | 5:42 | 6:12 | | | | | 7:22 | | | | | | 8:22 | | | | | | 9:22 | |
| Menlo Park | 5:44 | 6:14 | 6:39 | | 7:00 | 7:10 | | 7:30 | 7:39 | | 8:00 | 8:10 | | 8:30 | 8:39 | | 9:00 | 9:10 | | 9:30 |
| Palo Alto | 5:47 | 6:17 | 6:42 | 6:57 | 7:03 | 7:13 | 7:26 | 7:33 | 7:42 | 7:57 | 8:03 | 8:13 | 8:26 | 8:33 | 8:42 | 8:57 | 9:03 | 9:13 | 9:26 | 9:33 |
| California Ave. | 5:50 | 6:20 | | | 7:06 | | | 7:36 | | | 8:06 | | | 8:36 | | | 9:06 | | | 9:36 |
| San Antonio | 5:53 | 6:23 | 6:47 | | | 7:18 | | | 7:47 | | | 8:18 | | | 8:47 | | | 9:18 | | |
| Mountain View | 5:57 | 6:27 | 6:51 | 7:05 | 7:12 | 7:22 | 7:34 | 7:42 | 7:51 | 8:05 | 8:12 | 8:22 | 8:34 | 8:42 | 8:51 | 9:05 | 9:12 | 9:22 | 9:34 | 9:42 |
| Sunnyvale | 6:01 | 6:31 | | | 7:16 | | | 7:46 | | | 8:16 | | | 8:46 | | | 9:16 | | | 9:46 |
| Lawrence | 6:04 | 6:34 | 6:57 | | | 7:28 | | | 7:57 | | | 8:28 | | | 8:57 | | | 9:28 | | |
| Santa Clara | 6:09 | 6:39 | 7:02 | | | 7:33 | | | 8:02 | | | 8:33 | | | 9:02 | | | 9:33 | | |
| College Park | | | | | | | | | | | | | | | | | | | | |
| San Jose Diridon | 6:11 | 6:41 | 7:07 | 7:18 | 7:29 | 7:38 | 7:47 | 7:59 | 8:07 | 8:18 | 8:29 | 8:38 | 8:47 | 8:59 | 9:07 | 9:18 | 9:29 | 9:38 | 9:47 | 9:59 |
| Tamien | | 6:45 | 7:11 | | 7:33 | | 7:51 | | 8:11 | | 8:33 | | 8:51 | | 9:11 | | 9:33 | | 9:51 | |

Table A.2.2 2040 Project +TTC Fully Electrified fleet between SJ – SF Schedule - Mid-day Service

| Northbound Service | | | | | | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 440 | 442 | 444 | 446 | 448 | 450 | 452 | 454 | 456 | 458 | 460 | 462 | 464 | 466 |
| Tamien | | 9:25 | | 10:25 | | 11:25 | | 12:25 | | 13:25 | | 14:25 | | 15:25 |
| San Jose Diridon | 9:00 | 9:30 | 10:00 | 10:30 | 11:00 | 11:30 | 12:00 | 12:30 | 13:00 | 13:30 | 14:00 | 14:30 | 15:00 | 15:30 |
| College Park | | | | | | | | | | | | | 15:03 | |
| Santa Clara | 9:05 | 9:35 | 10:05 | 10:35 | 11:05 | 11:35 | 12:05 | 12:35 | 13:05 | 13:35 | 14:05 | 14:35 | 15:06 | 15:35 |
| Lawrence | 9:09 | 9:39 | 10:09 | 10:39 | 11:09 | 11:39 | 12:09 | 12:39 | 13:09 | 13:39 | 14:09 | 14:39 | 15:10 | 15:39 |
| Sunnyvale | 9:12 | 9:42 | 10:12 | 10:42 | 11:12 | 11:42 | 12:12 | 12:42 | 13:12 | 13:42 | 14:12 | 14:42 | 15:13 | 15:42 |
| Mountain View | 9:17 | 9:47 | 10:17 | 10:47 | 11:17 | 11:47 | 12:17 | 12:47 | 13:17 | 13:47 | 14:17 | 14:47 | 15:18 | 15:47 |
| San Antonio | 9:20 | 9:50 | 10:20 | 10:50 | 11:20 | 11:50 | 12:20 | 12:50 | 13:20 | 13:50 | 14:20 | 14:50 | 15:21 | 15:50 |
| California Ave. | 9:23 | 9:53 | 10:23 | 10:53 | 11:23 | 11:53 | 12:23 | 12:53 | 13:23 | 13:53 | 14:23 | 14:53 | 15:24 | 15:53 |
| Palo Alto | 9:27 | 9:57 | 10:27 | 10:57 | 11:27 | 11:57 | 12:27 | 12:57 | 13:27 | 13:57 | 14:27 | 14:57 | 15:28 | 15:57 |
| Menlo Park | 9:29 | 9:59 | 10:29 | 10:59 | 11:29 | 11:59 | 12:29 | 12:59 | 13:29 | 13:59 | 14:29 | 14:59 | 15:30 | 15:59 |
| Atherton | 9:31 | 10:01 | 10:31 | 11:01 | 11:31 | 12:01 | 12:31 | 13:01 | 13:31 | 14:01 | 14:31 | 15:01 | 15:32 | 16:01 |
| Redwood City | 9:35 | 10:05 | 10:35 | 11:05 | 11:35 | 12:05 | 12:35 | 13:05 | 13:35 | 14:05 | 14:35 | 15:05 | 15:36 | 16:05 |
| San Carlos | 9:38 | 10:08 | 10:38 | 11:08 | 11:38 | 12:08 | 12:38 | 13:08 | 13:38 | 14:08 | 14:38 | 15:08 | 15:39 | 16:08 |
| Belmont | 9:40 | 10:10 | 10:40 | 11:10 | 11:40 | 12:10 | 12:40 | 13:10 | 13:40 | 14:10 | 14:40 | 15:10 | 15:41 | 16:10 |
| Hillsdale | 9:43 | 10:13 | 10:43 | 11:13 | 11:43 | 12:13 | 12:43 | 13:13 | 13:43 | 14:13 | 14:43 | 15:13 | 15:44 | 16:13 |
| Hayward Park | 9:45 | 10:15 | 10:45 | 11:15 | 11:45 | 12:15 | 12:45 | 13:15 | 13:45 | 14:15 | 14:45 | 15:15 | 15:46 | 16:15 |
| San Mateo | 9:47 | 10:17 | 10:47 | 11:17 | 11:47 | 12:17 | 12:47 | 13:17 | 13:47 | 14:17 | 14:47 | 15:17 | 15:48 | 16:17 |
| Burlingame | 9:50 | 10:20 | 10:50 | 11:20 | 11:50 | 12:20 | 12:50 | 13:20 | 13:50 | 14:20 | 14:50 | 15:20 | 15:51 | 16:20 |
| Broadway | 9:52 | 10:22 | 10:52 | 11:22 | 11:52 | 12:22 | 12:52 | 13:22 | 13:52 | 14:22 | 14:52 | 15:22 | 15:53 | 16:22 |
| Millbrae | 9:56 | 10:26 | 10:56 | 11:26 | 11:56 | 12:26 | 12:56 | 13:26 | 13:56 | 14:26 | 14:56 | 15:26 | 15:57 | 16:26 |
| San Bruno | 10:00 | 10:30 | 11:00 | 11:30 | 12:00 | 12:30 | 13:00 | 13:30 | 14:00 | 14:30 | 15:00 | 15:30 | 16:01 | 16:30 |
| South SF | 10:04 | 10:34 | 11:04 | 11:34 | 12:04 | 12:34 | 13:04 | 13:34 | 14:04 | 14:34 | 15:04 | 15:34 | 16:05 | 16:34 |
| Bayshore | 10:05 | 10:35 | 11:05 | 11:35 | 12:05 | 12:35 | 13:05 | 13:35 | 14:05 | 14:35 | 15:05 | 16:39 | 16:39 | 16:39 |
| 22nd Street | 10:09 | 10:39 | 11:09 | 11:39 | 12:09 | 12:39 | 13:09 | 13:39 | 14:09 | 14:39 | 15:09 | 15:39 | 16:15 | 16:44 |
| 4th & King | | | | | | | | | | | | | | |
| 4th & Townsend | 10:15 | 10:45 | 11:15 | 11:45 | 12:15 | 12:45 | 13:15 | 13:45 | 14:15 | 14:45 | 15:15 | 15:45 | 16:21 | 16:50 |
| Transbay Terminal | 10:19 | 10:49 | 11:19 | 11:49 | 12:19 | 12:49 | 13:19 | 13:49 | 14:19 | 14:49 | 15:19 | 15:49 | 16:25 | 16:54 |

| | | | | | | Southboun | nd Service | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-----------|------------|-------|-------|-------|-------|-------|-------|-------|
| | 441 | 443 | 445 | 447 | 449 | 451 | 453 | 455 | 457 | 459 | 461 | 463 | 465 | 467 |
| Transbay Terminal | 8:55 | 9:25 | 9:55 | 10:25 | 10:55 | 11:25 | 11:55 | 12:25 | 12:55 | 13:25 | 13:55 | 14:25 | 14:55 | 15:25 |
| 4th & Townsend | 9:00 | 9:30 | 10:00 | 10:30 | 11:00 | 11:30 | 12:00 | 12:30 | 13:00 | 13:30 | 14:00 | 14:30 | 15:00 | 15:30 |
| 4th & King | | | | | | | | | | | | | | |
| 22nd Street | 9:05 | 9:35 | 10:05 | 10:35 | 11:05 | 11:35 | 12:05 | 12:35 | 13:05 | 13:35 | 14:05 | 14:35 | 15:05 | 15:35 |
| Bayshore | 9:09 | 9:39 | 10:09 | 10:39 | 11:09 | 11:39 | 12:09 | 12:39 | 13:09 | 13:39 | 14:09 | 14:39 | 15:09 | 15:39 |
| South SF | 9:14 | 9:44 | 10:14 | 10:44 | 11:14 | 11:44 | 12:14 | 12:44 | 13:14 | 13:44 | 14:14 | 14:44 | 15:14 | 15:44 |
| San Bruno | 9:18 | 9:48 | 10:18 | 10:48 | 11:18 | 11:48 | 12:18 | 12:48 | 13:18 | 13:48 | 14:18 | 14:48 | 15:18 | 15:48 |
| Millbrae | 9:21 | 9:51 | 10:21 | 10:51 | 11:21 | 11:51 | 12:21 | 12:51 | 13:21 | 13:51 | 14:21 | 14:51 | 15:21 | 15:51 |
| Broadway | 9:24 | 9:54 | 10:24 | 10:54 | 11:24 | 11:54 | 12:24 | 12:54 | 13:24 | 13:54 | 14:24 | 14:54 | 15:24 | 15:54 |
| Burlingame | 9:26 | 9:56 | 10:26 | 10:56 | 11:26 | 11:56 | 12:26 | 12:56 | 13:26 | 13:56 | 14:26 | 14:56 | 15:26 | 15:56 |
| San Mateo | 9:29 | 9:59 | 10:29 | 10:59 | 11:29 | 11:59 | 12:29 | 12:59 | 13:29 | 13:59 | 14:29 | 14:59 | 15:29 | 15:59 |
| Hayward Park | 9:31 | 10:01 | 10:31 | 11:01 | 11:31 | 12:01 | 12:31 | 13:01 | 13:31 | 14:01 | 14:31 | 15:01 | 15:31 | 16:01 |
| Hillsdale | 9:34 | 10:04 | 10:34 | 11:04 | 11:34 | 12:04 | 12:34 | 13:04 | 13:34 | 14:04 | 14:34 | 15:04 | 15:34 | 16:04 |
| Belmont | 9:36 | 10:06 | 10:36 | 11:06 | 11:36 | 12:06 | 12:36 | 13:06 | 13:36 | 14:06 | 14:36 | 15:06 | 15:36 | 16:06 |
| San Carlos | 9:38 | 10:08 | 10:38 | 11:08 | 11:38 | 12:08 | 12:38 | 13:08 | 13:38 | 14:08 | 14:38 | 15:08 | 15:38 | 16:08 |
| Redwood City | 9:44 | 10:14 | 10:44 | 11:14 | 11:44 | 12:14 | 12:44 | 13:14 | 13:44 | 14:14 | 14:44 | 15:14 | 15:44 | 16:14 |
| Atherton | 9:47 | 10:17 | 10:47 | 11:17 | 11:47 | 12:17 | 12:47 | 13:17 | 13:47 | 14:17 | 14:47 | 15:17 | 15:47 | 16:17 |
| Menlo Park | 9:49 | 10:19 | 10:49 | 11:19 | 11:49 | 12:19 | 12:49 | 13:19 | 13:49 | 14:19 | 14:49 | 15:19 | 15:49 | 16:19 |
| Palo Alto | 9:52 | 10:22 | 10:52 | 11:22 | 11:52 | 12:22 | 12:52 | 13:22 | 13:52 | 14:22 | 14:52 | 15:22 | 15:52 | 16:22 |
| California Ave. | 9:55 | 10:25 | 10:55 | 11:25 | 11:55 | 12:25 | 12:55 | 13:25 | 13:55 | 14:25 | 14:55 | 15:25 | 15:55 | 16:25 |
| San Antonio | 9:58 | 10:28 | 10:58 | 11:28 | 11:58 | 12:28 | 12:58 | 13:28 | 13:58 | 14:28 | 14:58 | 15:28 | 15:58 | 16:28 |
| Mountain View | 10:02 | 10:32 | 11:02 | 11:32 | 12:02 | 12:32 | 13:02 | 13:32 | 14:02 | 14:32 | 15:02 | 15:32 | 16:02 | 16:32 |
| Sunnyvale | 10:06 | 10:36 | 11:06 | 11:36 | 12:06 | 12:36 | 13:06 | 13:36 | 14:06 | 14:36 | 15:06 | 15:36 | 16:06 | 16:36 |
| Lawrence | 10:09 | 10:39 | 11:09 | 11:39 | 12:09 | 12:39 | 13:09 | 13:39 | 14:09 | 14:39 | 15:09 | 15:39 | 16:09 | 16:39 |
| Santa Clara | 10:14 | 10:44 | 11:14 | 11:44 | 12:14 | 12:44 | 13:14 | 13:44 | 14:14 | 14:44 | 15:14 | 15:44 | 16:14 | 16:44 |
| College Park | | | | | | | | | | | | | | |
| San Jose Diridon | 10:19 | 10:49 | 11:19 | 11:49 | 12:19 | 12:49 | 13:19 | 13:49 | 14:19 | 14:49 | 15:19 | 15:49 | 16:19 | 16:49 |
| Tamien | | 10:53 | | 11:53 | | 12:53 | | 13:53 | | 14:53 | | 15:53 | | |

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Table A.2.3 2040 Project + TTC Fully Electrified fleet between SJ – SF Schedule - PM Peak Service

| | | | | | | | | | | North | ound Sei | vice | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 468 | 470 | 472 | 474 | 476 | 478 | 480 | 482 | 484 | 486 | 488 | 490 | 492 | 494 | 496 | 498 | 500 | 502 | 504 | 506 | 508 | 510 | 512 |
| Tamien | | 16:05 | | | 16:35 | | | 17:05 | | | 17:35 | | | 18:05 | | | 18:35 | | | | 20:25 | 21:25 | |
| San Jose Diridon | 16:00 | 16:10 | 16:20 | 16:30 | 16:40 | 16:50 | 17:00 | 17:10 | 17:20 | 17:30 | 17:40 | 17:50 | 18:00 | 18:10 | 18:20 | 18:30 | 18:40 | 18:50 | 19:00 | 19:30 | 20:30 | 21:30 | 22:30 |
| College Park | | | | | | | | | | | | | | | | | | | | | | | |
| Santa Clara | 16:05 | | | 16:35 | | | 17:05 | | | 17:35 | | | 18:05 | | | 18:35 | | | 19:05 | 19:35 | 20:35 | 21:35 | 22:35 |
| Lawrence | 16:09 | | | 16:39 | | | 17:09 | | | 17:39 | | | 18:09 | | | 18:39 | | | 19:09 | 19:39 | 20:39 | 21:39 | 22:39 |
| Sunnyvale | | | 16:30 | | | 17:00 | | | 17:30 | | | 18:00 | | | 18:30 | | | 19:00 | 19:12 | 19:42 | 20:42 | 21:42 | 22:42 |
| Mountain View | 16:16 | 16:23 | 16:35 | 16:46 | 16:53 | 17:05 | 17:16 | 17:23 | 17:35 | 17:46 | 17:53 | 18:05 | 18:16 | 18:23 | 18:35 | 18:46 | 18:53 | 19:05 | 19:17 | 19:47 | 20:47 | 21:47 | 22:47 |
| San Antonio | 16:19 | | | 16:49 | | | 17:19 | | | 17:49 | | | 18:19 | | | 18:49 | | | 19:20 | 19:50 | 20:50 | 21:50 | 22:50 |
| California Ave. | | | 16:40 | | | 17:10 | | | 17:40 | | | 18:10 | | | 18:40 | | | 19:10 | 19:23 | 19:53 | 20:53 | 21:53 | 22:53 |
| Palo Alto | 16:25 | 16:31 | 16:44 | 16:55 | 17:01 | 17:14 | 17:25 | 17:31 | 17:44 | 17:55 | 18:01 | 18:14 | 18:25 | 18:31 | 18:44 | 18:55 | 19:01 | 19:14 | 19:27 | 19:57 | 20:57 | 21:57 | 22:57 |
| Menlo Park | 16:27 | | 16:46 | 16:57 | | 17:16 | 17:27 | | 17:46 | 17:57 | | 18:16 | 18:27 | | 18:46 | 18:57 | | 19:16 | 19:29 | 19:59 | 20:59 | 21:59 | 22:59 |
| Atherton | | | | | 17:06 | | | | | | 18:06 | | | | | | 19:06 | | 19:31 | 20:01 | 21:01 | 22:01 | 23:01 |
| Redwood City | | 16:37 | 16:51 | | 17:10 | 17:21 | | 17:37 | 17:51 | | 18:10 | 18:21 | | 18:37 | 18:51 | | 19:10 | 19:21 | 19:35 | 20:05 | 21:05 | 22:05 | 23:05 |
| San Carlos | 16:31 | 16:40 | | 17:01 | 17:13 | | 17:31 | 17:40 | | 18:01 | 18:13 | | 18:31 | 18:40 | | 19:01 | 19:13 | | 19:38 | 20:08 | 21:08 | 22:08 | 23:08 |
| Belmont | | | 16:55 | | | 17:25 | | | 17:55 | | | 18:25 | | | 18:55 | | | 19:25 | 19:40 | 20:10 | 21:10 | 22:10 | 23:10 |
| Hillsdale | 16:35 | 16:44 | | 17:05 | 17:17 | | 17:35 | 17:44 | | 18:05 | 18:17 | | 18:35 | 18:44 | | 19:05 | 19:17 | | 19:43 | 20:13 | 21:13 | 22:13 | 23:13 |
| Hayward Park | | 16:46 | | | | | | 17:46 | | | | | | 18:46 | | | | | 19:45 | 20:15 | 21:15 | 22:15 | 23:15 |
| San Mateo | | 16:48 | 17:00 | | 17:20 | 17:30 | | 17:48 | 18:00 | | 18:20 | 18:30 | | 18:48 | 19:00 | | 19:20 | 19:30 | 19:47 | 20:17 | 21:17 | 22:17 | 23:17 |
| Burlingame | | 16:51 | | | 17:23 | | | 17:51 | | | 18:23 | | | 18:51 | | | 19:23 | | 19:50 | 20:20 | 21:20 | 22:20 | 23:20 |
| Broadway | | | | | | | | | | | | | | | | | | | 19:52 | 20:22 | 21:22 | 22:22 | 23:22 |
| Millbrae | 16:44 | 16:56 | 17:07 | 17:14 | 17:28 | 17:37 | 17:44 | 17:56 | 18:07 | 18:14 | 18:28 | 18:37 | 18:44 | 18:56 | 19:07 | 19:14 | 19:28 | 19:37 | 19:56 | 20:26 | 21:26 | 22:26 | 23:26 |
| San Bruno | | 17:00 | | | 17:32 | | | 18:00 | | | 18:32 | | | 19:00 | | | 19:32 | | 20:00 | 20:30 | 21:30 | 22:30 | 23:30 |
| South SF | | | | 17:21 | | | | | | 18:21 | | | | | | 19:21 | | | 20:04 | 20:34 | 21:34 | 22:34 | 23:34 |
| Bayshore | | 17:08 | | | | | | 18:08 | | | | | | 19:08 | | | | | 20:09 | 20:39 | 21:39 | 22:39 | 23:39 |
| 22nd Street | 16:59 | 17:13 | 17:22 | 17:30 | 17:44 | 17:52 | 17:59 | 18:13 | 18:22 | 18:30 | 18:44 | 18:52 | 18:59 | 19:13 | 19:22 | 19:30 | 19:44 | 19:52 | 20:14 | 20:44 | 21:44 | 22:44 | 23:44 |
| 4th & King | 17:03 | | 17:26 | 17:34 | | 17:56 | 18:03 | | 18:26 | 18:34 | | 18:56 | 19:03 | | 19:26 | 19:34 | | 19:56 | | | | | |
| 4th & Townsend | | 17:19 | | | 17:50 | | | 18:19 | | | 18:50 | | | 19:19 | | | 19:50 | | 20:20 | 20:50 | 21:50 | 22:50 | 23:50 |
| Transbay Terminal | | 17:23 | | | 17:54 | | | 18:23 | | | 18:54 | | | 19:23 | | | 19:54 | | 20:24 | 20:54 | 21:54 | 22:54 | 23:54 |

| | | | | | | | | | | Southboo | und Servi | ce | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 469 | 471 | 473 | 475 | 477 | 479 | 481 | 483 | 485 | 487 | 489 | 491 | 493 | 495 | 497 | 499 | 501 | 503 | 505 | 507 | 509 | 511 | 513 |
| Transbay Terminal | | 16:05 | | | 16:35 | | | 17:05 | | | 17:35 | | | 18:05 | | | 18:35 | | 19:25 | 20:25 | 21:25 | 22:25 | 23:56 |
| 4th & Townsend | | 16:10 | | | 16:40 | | | 17:10 | | | 17:40 | | | 18:10 | | | 18:40 | | 19:30 | 20:30 | 21:30 | 22:30 | 0:01 |
| 4th & King | 16:00 | | 16:20 | 16:30 | | 16:50 | 17:00 | | 17:20 | 17:30 | | 17:50 | 18:00 | | 18:20 | 18:30 | | 18:50 | | | | | |
| 22nd Street | | | 16:25 | | | | | | 17:25 | | | | | | 18:25 | | | | 19:35 | 20:35 | 21:35 | 22:35 | 0:06 |
| Bayshore | | | | | | 16:58 | | | | | | 17:58 | | | | | | 18:58 | 19:39 | 20:39 | 21:39 | 22:39 | 0:10 |
| South SF | 16:12 | | | 16:42 | | | 17:12 | | | 17:42 | | | 18:12 | | | 18:42 | | | 19:44 | 20:44 | 21:44 | 22:44 | 0:15 |
| San Bruno | | | 16:36 | | | 17:06 | | | 17:36 | | | 18:06 | | | 18:36 | | | 19:06 | 19:48 | 20:48 | 21:48 | 22:48 | 0:19 |
| Millbrae | 16:18 | 16:27 | 16:39 | 16:48 | 16:57 | 17:09 | 17:18 | 17:27 | 17:39 | 17:48 | 17:57 | 18:09 | 18:18 | 18:27 | 18:39 | 18:48 | 18:57 | 19:09 | 19:51 | 20:51 | 21:51 | 22:51 | 0:22 |
| Broadway | | | | 16:51 | | | | | | 17:51 | | | | | | 18:51 | | | 19:54 | 20:54 | 21:54 | 22:54 | 0:25 |
| Burlingame | | 16:31 | | | 17:01 | | | 17:31 | | | 18:01 | | | 18:31 | | | 19:01 | | 19:56 | 20:56 | 21:56 | 22:56 | 0:27 |
| San Mateo | 16:24 | 16:34 | | 16:55 | 17:04 | | 17:24 | 17:34 | | 17:55 | 18:04 | | 18:24 | 18:34 | | 18:55 | 19:04 | | 19:59 | 20:59 | 21:59 | 22:59 | 0:30 |
| Hayward Park | | | 16:46 | | | | | | 17:46 | | | | | | 18:46 | | | | 20:01 | 21:01 | 22:01 | 23:01 | 0:32 |
| Hillsdale | 16:28 | 16:38 | 16:49 | 16:59 | 17:08 | 17:18 | 17:28 | 17:38 | 17:49 | 17:59 | 18:08 | 18:18 | 18:28 | 18:38 | 18:49 | 18:59 | 19:08 | 19:18 | 20:04 | 21:04 | 22:04 | 23:04 | 0:35 |
| Belmont | | 16:40 | | | 17:10 | | | 17:40 | | | 18:10 | | | 18:40 | | | 19:10 | | 20:06 | 21:06 | 22:06 | 23:06 | 0:37 |
| San Carlos | | | 16:52 | | | 17:21 | | | 17:52 | | | 18:21 | | | 18:52 | | | 19:21 | 20:08 | 21:08 | 22:08 | 23:08 | 0:39 |
| Redwood City | 16:36 | 16:47 | 16:57 | 17:07 | 17:17 | 17:26 | 17:36 | 17:47 | 17:57 | 18:07 | 18:17 | 18:26 | 18:36 | 18:47 | 18:57 | 19:07 | 19:17 | 19:26 | 20:14 | 21:14 | 22:14 | 23:14 | 0:45 |
| Atherton | 16:39 | | | | | | 17:39 | | | | | | 18:39 | | | | | | 20:17 | 21:17 | 22:17 | 23:17 | 0:48 |
| Menlo Park | | 16:51 | 17:01 | | 17:21 | 17:30 | | 17:51 | 18:01 | | 18:21 | 18:30 | | 18:51 | 19:01 | | 19:21 | 19:30 | 20:19 | 21:19 | 22:19 | 23:19 | 0:50 |
| Palo Alto | 16:43 | 16:54 | 17:04 | 17:13 | 17:24 | 17:33 | 17:43 | 17:54 | 18:04 | 18:13 | 18:24 | 18:33 | 18:43 | 18:54 | 19:04 | 19:13 | 19:24 | 19:33 | 20:22 | 21:22 | 22:22 | 23:22 | 0:53 |
| California Ave. | 16:46 | | | 17:16 | | | 17:46 | | | 18:16 | | | 18:46 | | | 19:16 | | | 20:25 | 21:25 | 22:25 | 23:25 | 0:56 |
| San Antonio | | | 17:09 | | | 17:38 | | | 18:09 | | | 18:38 | | | 19:09 | | | 19:38 | 20:28 | 21:28 | 22:28 | 23:28 | 0:59 |
| Mountain View | 16:52 | 17:02 | 17:13 | 17:22 | 17:32 | 17:42 | 17:52 | 18:02 | 18:13 | 18:22 | 18:32 | 18:42 | 18:52 | 19:02 | 19:13 | 19:22 | 19:32 | 19:42 | 20:32 | 21:32 | 22:32 | 23:32 | 1:03 |
| Sunnyvale | 16:56 | 17:06 | 17:17 | 17:26 | 17:36 | 17:46 | 17:56 | 18:06 | 18:17 | 18:26 | 18:36 | 18:46 | 18:56 | 19:06 | 19:17 | 19:26 | 19:36 | 19:46 | 20:36 | 21:36 | 22:36 | 23:36 | 1:07 |
| Lawrence | | 17:09 | | | 17:39 | | | 18:09 | | | 18:39 | | | 19:09 | | | 19:39 | | 20:39 | 21:39 | 22:39 | 23:39 | 1:10 |
| Santa Clara | 17:03 | | | 17:33 | | | 18:03 | | | 18:33 | | | 19:03 | | | 19:33 | | | 20:44 | 21:44 | 22:44 | 23:44 | 1:15 |
| College Park | | | | | | | | | | | | | | | | | | | | | | | |
| San Jose Diridon | 17:08 | 17:18 | 17:28 | 17:38 | 17:48 | 17:57 | 18:08 | 18:18 | 18:28 | 18:38 | 18:48 | 18:57 | 19:08 | 19:18 | 19:28 | 19:38 | 19:48 | 19:57 | 20:49 | 21:49 | 22:49 | 23:49 | 1:20 |
| Tamien | | | 17:32 | | | 18:01 | | | 18:32 | | | 19:01 | | | 19:32 | | | 20:01 | | 21:53 | 22:53 | | |

Table A.2.4 2040 Project + TTC Fully Electrified fleet between SJ - SF Schedule – Gilroy Shuttle (Diesel Service)

| Northbound AM | | | |
|------------------|-------|-------|-------|
| Gilroy | 6:05 | 6:35 | 7:05 |
| San Martin | 6:14 | 6:44 | 7:14 |
| Morgan Hill | 6:20 | 6:50 | 7:20 |
| Blossom Hill | 6:33 | 7:03 | 7:33 |
| Capitol | 6:39 | 7:09 | 7:39 |
| Tamien | 6:47 | 7:17 | 7:47 |
| San Jose Diridon | 6:55 | 7:25 | 7:55 |
| | | | |
| Southbound PM | | | |
| San Jose Diridon | 16:55 | 18:13 | 19:13 |
| Tamien | 17:01 | 18:19 | 19:19 |
| Capitol | 17:08 | 18:26 | 19:26 |
| Blossom Hill | 17:14 | 18:32 | 19:32 |
| Morgan Hill | 17:27 | 18:45 | 19:45 |
| San Martin | 17:33 | 18:51 | 19:51 |
| Gilroy | 17:46 | 19:04 | 20:04 |

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