



Figure 5-2 Proposed Mabury Road and U.S. 101 Construction Staging Areas VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-3 Proposed Alum Rock Construction Staging Areas VTA's BART Silicon Valley–Phase II Extension Project



Proposed 13th Street Mid-Tunnel Ventilation Structure Construction Staging Area VTA's BART Silicon Valley–Phase II Extension Project



Proposed Downtown San Jose Station East Option Construction Staging Areas VTA's BART Silicon Valley–Phase II Extension Project



Proposed Downtown San Jose Station West Option Construction Staging Areas VTA's BART Silicon Valley–Phase II Extension Project



## Figure 5-7 Proposed Diridon Station North Construction Staging Area VTA's BART Silicon Valley–Phase II Extension Project

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Figure 5-8 Proposed Diridon Station South Option Construction Staging Areas VTA's BART Silicon Valley–Phase II Extension Project



Proposed Stockton Avenue Mid-Tunnel Ventilation Structure Construction Staging Areas VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-10 Proposed Santa Clara Station Construction Staging Area VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-11 Proposed Newhall Maintenance Facility Construction Staging Area VTA's BART Silicon Valley–Phase II Extension Project



## **Figure 5-12 Truck Haul Routes** VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-13 Examples of Tunnel Boring Machines VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-14 General Arrangement of an Earth Pressure Balanced Tunnel Boring Machine VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-15 Example of Segmental Concrete Lining Units and Rings VTA's BART Silicon Valley–Phase II Extension Project







Figure 5-16 Conveyor System VTA's BART Silicon Valley–Phase II Extension Project

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## Figure 5-17 Diameter and Spacing of Tunnel Bores (TRD) VTA's BART Silicon Valley–Phase II Extension Project

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Figure 5-18 Twin Tunnel Bores VTA's BART Silicon Valley–Phase II Extension Project



### Figure 5-19 Single-Bore Tunnel Cross Section VTA's BART Silicon Valley–Phase II Extension Project

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Figure 5-20 Example of Single-Bore Tunnel Transit System VTA's BART Silicon Valley–Phase II Extension Project



## Figure 5-21 Example of Single-Bore Tunnel Station VTA's BART Silicon Valley–Phase II Extension Project

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# Figure 5-22 Cross-Passage Connecting the Tunnel Bores VTA's BART Silicon Valley–Phase II Extension Project



# Figure 5-23 At-Grade Guideway VTA's BART Silicon Valley–Phase II Extension Project



### Figure 5-24 Retained Cut U-Wall VTA's BART Silicon Valley–Phase II Extension Project

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# **Figure 5-25 Steel Sheet Piles** VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-26 Lateral Bracing Members VTA's BART Silicon Valley–Phase II Extension Project



**Soldier Piles and Lagging** VTA's BART Silicon Valley–Phase II Extension Project





Figure 5-29 Temporary Deck Installation VTA's BART Silicon Valley–Phase II Extension Project



### Figure 5-30 Ongoing Excavation After Temporary Deck Installation VTA's BART Silicon Valley–Phase II Extension Project

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Source: VTA, 2011.

# Figure 5-31 Temporary Utility Support in an Excavation VTA's BART Silicon Valley–Phase II Extension Project



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Figure 5-32 Basic Components of a Tieback Anchor VTA's BART Silicon Valley–Phase II Extension Project



Figure 5-33 Deep Soil Mix and Auger Rig Installation VTA's BART Silicon Valley–Phase II Extension Project

Source: VTA, 2011.



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Source: VTA, 2011.

# Figure 5-34 Deep Soil Mix and Steel Soldier Piles VTA's BART Silicon Valley–Phase II Extension Project



## Figure 5-35 Trench Remixing and Deep-Wall Method (TRD) VTA's BART Silicon Valley–Phase II Extension Project

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Graphics



### Figure 5-36 Construction of a Diaphragm Slurry Wall VTA's BART Silicon Valley–Phase II Extension Project





## Figure 6.11-2 San Jose General Plan Land Use Designations – 13th Street Ventilation Facility VTA's BART Silicon Valley–Phase II Extension Project

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## Figure 6.11-3 San Jose General Plan Land Use Designations – Downtown San Jose Station East Option VTA's BART Silicon Valley–Phase II Extension Project





Source: Circlepoint; Google Earth, 2015.



### Figure 6.11-6 San Jose General Plan Land Use Designations – Diridon Station North, Single-Bore Option VTA's BART Silicon Valley–Phase II Extension Project



# Figure 6.11-7

San Jose General Plan Land Use Designations – Diridon Station North, Twin-Bore Option VTA's BART Silicon Valley–Phase II Extension Project



Source: Circlepoint; Google Earth, 2015.

### **Figure 6.11-8** San Jose General Plan Land Use Designations – Stockton Avenue Ventilation Facility VTA's BART Silicon Valley–Phase II Extension Project

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# Figure 6.11-9 Santa Clara General Plan Land Use Designations – Santa Clara Station VTA's BART Silicon Valley–Phase II Extension Project



Source: Station and Track, VTA 2014; Basemap, ESRI 2015

#### **Figure 6.14-1 Viewpoints Map for Visual Simulations** VTA's BART Silicon Valley – Phase II Extension Project



Existing view of Five Wounds Church (view to the northwest from the intersection of East Santa Clara Street and North 28th Street)



Alum Rock/28th Street Station – BART Extension with TOJD Alternative

Figure 6.14-2 Key Viewpoint 1: Alum Rock/28th Street TOJD – Santa Clara and North 28th Street VTA's BART Silicon Valley–Phase II Extension Project



Existing view of Five Wounds Church (view to the southeast from the intersection of North 28th Street and Five Wounds Lane)



Alum Rock/28th Street Station – BART Extension with TOJD Alternative

Figure 6.14-3 Key Viewpoint 2: Alum Rock/28th Street TOJD – North 28th Street and Five Wounds Lane VTA's BART Silicon Valley–Phase II Extension Project



Existing view along Santa Clara Street (view to the northeast from the intersection of East Santa Clara Street and 5th Street)

 $Downtown \ San \ Jose \ East \ Station \ Option-BART \ Extension \ with \ TOJD \ Alternative$ 

Figure 6.14-4 Key Viewpoint 3: Downtown San Jose East Station Option – TOJD & Station Entrances at Santa Clara and 6th Streets VTA's BART Silicon Valley–Phase II Extension Project



Existing view down East Santa Clara Street (view to the northeast near the intersection of East Santa Clara Street and 4th Street)



San Jose East Station Option – BART Extension with TOJD Alternative

Figure 6.14-5 Key Viewpoint 4: Downtown San Jose East Station Option – TOJD & Station Entrances at Santa Clara and 4th Streets VTA's BART Silicon Valley–Phase II Extension Project



Existing view down East Santa Clara Street (view to the southwest at the intersection of East Santa Clara Street and 3rd Street



Downtown San Jose East Station Option - BART Extension with TOJD Alternative

Figure 6.14-6 Key Viewpoint 5: Downtown San Jose East Station Option – TOJD at Santa Clara and 3rd Streets VTA's BART Silicon Valley–Phase II Extension Project



Existing view down 3rd Street (view to the northwest at the intersection of East Santa Clara Street and 3rd Street)



Downtown San Jose West Station Option - BART Extension with TOJD Alternative

Figure 6.14-7 Key Viewpoint 6: Downtown San Jose West Station Option – TOJD & Station Entrances at Santa Clara and 3rd Streets VTA's BART Silicon Valley–Phase II Extension Project



Existing view down West Santa Clara Street (view to the west from the intersection of Autumn Street and West Santa Clara Street)



Diridon Station North and South Option – BART Extension with TOJD Alternative

Figure 6.14-8 Key Viewpoint 7: Diridon Station North and South Option TOJD along Santa Clara Street VTA's BART Silicon Valley–Phase II Extension Project



Existing view of the Diridon Caltrain Station (view to the northwest from Cahill Street)



Diridon Station South Option - BART Extension with TOJD Alternative

Figure 6.14-9a Key Viewpoint 8: Diridon Station South Option TOJD & Station Entrance on Cahill Street VTA's BART Silicon Valley–Phase II Extension Project



Existing view of the Diridon Caltrain Station (view to the northwest from Cahill Street)



Diridon Station North Option - BART Extension with TOJD Alternative

Figure 6.14-9b Key Viewpoint 8: Diridon Station North Option TOJD on Cahill Street VTA's BART Silicon Valley–Phase II Extension Project



*Existing view from Villa Avenue (view to the northeast toward the intersection of Villa Avenue and Stockton Avenue)* 



Stockton Avenue TOJD – BART Extension with TOJD Alternative

Figure 6.14-10 Key Viewpoint 9: Stockton Avenue TOJD from Villa Avenue VTA's BART Silicon Valley–Phase II Extension Project



Extension with TOJD Alternative

Note: These are intended to be preliminary conceptual representations of the project. Final design and landscaping will be determined in coordination with local cities. Source: Circlepoint, 2016.

> Figure 6.14-11 Key Viewpoint 10: Santa Clara Station TOJD from the Existing Station Platform VTA's BART Silicon Valley–Phase II Extension Project



Existing view of the Santa Clara Caltrain Station (view to then northeast from El Camino Real)



Santa Clara Station – BART Extension with TOJD Alternative

Figure 6.14-12 Key Viewpoint 11: Santa Clara Station TOJD from El Camino Real VTA's BART Silicon Valley–Phase II Extension Project





Figure 7-1 **Cumulative Projects** VTA's BART Silicon Valley-Phase II Extension Project



\* Feature depicted shows those portions within the Study Area

#### Figure 8-1

Park and Recreational Facilities within 1,000 feet of BART Extension Alternative

VTA's BART Silicon Valley–Phase II Extension Project

