How to Find a Property in Volume III

You can use Volume III to identify impacts that project alternatives may have on specific areas. This information is available in engineering drawings showing the high-speed rail project alignment alternatives, which are shown in Composite Plan, Profile, and Cross sections. These drawings are in Volume III Books A and B for each of the alternatives (e.g., see Books 1A and 1B for Alternative 1 drawings, 2A and 2B for Alternative 2 drawings, etc.). The composite plans include technical drawings to illustrate high-speed rail’s design and its footprint (the footprint refers to the land used for the rail line, station construction, electric equipment, facilities, access roads, and other rail amenities).

The Key Map

The Key Map orients users to identify specific drawings along the corridor. Key Maps for all four project alternatives are shown in the Volume III General Information Book on the four sheets immediately following the Index.

To find a property adjacent to a high-speed rail alignment alternative:

1. Check the Key Map

   The Key Map illustrates the drawing numbers for all of the detailed engineering drawings.

2. Look for the City and Cross Streets

   On the Key Map, find cross streets and other landmarks to help you locate the part of the map where you want to take a closer look.

3. Find the Drawing Number

   Each name rectangle represents the boundary of a detailed engineering drawing and is labeled with a unique drawing number.

   For example, the narrow rectangle highlighted in yellow shows the section of the rail alignment between Masten Avenue and Cohansey Avenue. If you’re searching for a property impacted by the project footprint near Buena Vista Avenue, you can locate it by finding Buena Vista Avenue on the engineering drawing.

4. Locate the Book Number

   The red arrow at the top of the Key Map shows where you’ll find the detailed engineering drawing you need.

   If you want to see drawing TT-D003, you’ll find it in Book 1A.

5. Go to the Engineering Drawing

   First, find the overall engineering drawing on the open page.

   - Open Book 1A and turn to drawing TT-D003. This detailed drawing shows the entire section between Masten Avenue and Cohansey Avenue. If you’re searching for a property impacted by the project footprint near Buena Vista Avenue, you can locate it by finding Buena Vista Avenue on the engineering drawing.

The Index

Each book begins with an index of drawings included in that book, and an associated key map. The General Information Book has the full index of drawings while each Project Alternative Book only includes the index for that book.

Contents of Project Alternative Books

The following information is included in the Project Alternative Books:

- Composite Plan, Profile, and Cross Sections: Engineering drawings of the corridor and detailed plans that show the rail design and affects on adjacent rights-of-way and properties.
- Stations: Illustrations of the planned stations, including the platform layout, parking lots, transit facilities, and station design elements. Includes tables describing each station program.
- Structures: Plan and section drawings of overpasses, underpasses, viaducts, and tunnels.
- Roadways: Plan drawings showing where streets and roads are closed, added, redirected, extended, or where grade separations are applied at the rail alignment.
- Maintenance of Way: Drawings that illustrate the design of the planned maintenance-of-way facility, where track maintenance would be staged.
- Tunnel: Drawings showing the design and elevations of the Pacific Pass tunnel, an element of all four Project Alternatives.
- Construction Staging: Engineering plans for detours, temporary structures, temporary roadways, and roadways closures at specific locations where these temporary measures are necessary during construction.
- Alignment Data Table: Design information about track guidance curves and geometry, train design speeds, superelevations, and track staking.

List of Project Alternative Books

Each set of Project Alternative Books is labeled based on the project alternative number, as listed below:

Alternative 1 Books
1A Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book A illustrate the planned new high-speed rail line and station alignments.
1B Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book B illustrate the planned new high-speed rail line and station alignments.
1C Roadways, Maintenance of Way, and Tunnels: The drawings in Volume III Book C illustrate the planned new high-speed rail line and station alignments.
1D Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book D illustrate the planned new high-speed rail line and station alignments.

Alternative 2 Books
2A Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book 2A illustrate the planned new high-speed rail line and station alignments.
2B Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book 2B illustrate the planned new high-speed rail line and station alignments.
2C Roadways: The drawings in Volume III Book 2C illustrate the planned new high-speed rail line and station alignments.
2D Roadways, Maintenance of Way, and Tunnels: The drawings in Volume III Book 2D illustrate the planned new high-speed rail line and station alignments.
2E Construction Staging and Alignment Data Tables: The drawings in Volume III Book 2E illustrate the planned new high-speed rail line and station alignments.

Alternative 3 Books
3A Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book 3A illustrate the planned new high-speed rail line and station alignments.
3B Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book 3B illustrate the planned new high-speed rail line and station alignments.
3C Structures and Roadways: The drawings in Volume III Book 3C illustrate the planned new high-speed rail line and station alignments.
3D Roadways, Maintenance of Way, and Tunnels: The drawings in Volume III Book 3D illustrate the planned new high-speed rail line and station alignments.
3E Construction Staging and Alignment Data Tables: The drawings in Volume III Book 3E illustrate the planned new high-speed rail line and station alignments.

Alternative 4 Books
4A Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book 4A illustrate the planned new high-speed rail line and station alignments.
4B Composite Plan, Profile, and Cross Sections: The drawings in Volume III Book 4B illustrate the planned new high-speed rail line and station alignments.
4C Stations: The drawings in Volume III Book 4C illustrate the planned new high-speed rail line and station alignments.
4D Roadways, Construction Staging, and Alignment Data Tables: The drawings in Volume III Book 4D illustrate the planned new high-speed rail line and station alignments.

Use the Key Map to find the set of Project Alternative Books for each project section.

Because some alternatives have more books and others have fewer, information may not be in the same books across alternatives. For example, information on structures is in Books 2B, 3B, 4D, and 4C.
Tunnel sections (found only in the Pacheco Pass area) are marked with brown lines. Embankments are shown with dashed red lines, and cuts are shown with magenta. "MT" means main track and "B" indicates alignment stationing of "PROP TCE" indicates a proposed temporary construction easement. The red line indicates the relocated UPRR freight track. The blue line marks the northbound passenger track and the green line marks the southbound passenger track. The dashed line labeled "EXIST UPRR ROW" indicates the existing UPRR right-of-way.

The profile corresponds to the plan above. You can see where the alignment transitions from being on embankment (red lines on the plan, which show the width of the embankment) to viaduct (blue lines on the plan) in the profile drawing. Look for this symbol on the plan to indicate the location of a cross section drawing. In this case, Cross Section B shows a drawing of the viaduct at point B on the plan. The dashed line in the vertical profile indicates ground level.

**Example 1:** Intersection of Capitol Expressway and Monterey Highway in San Jose

**Example 2:** Intersection of Butterfield Ave and E Main Ave in Morgan Hill

**Example 3:** Intersection of IOOF Ave and Monterey Rd in Gilroy

**Example 4:** East of Fahey Road Crossing

**Cross Sections and Vertical Profiles**

In addition to the plan view of the rail corridor, Volume III composite plan sheets include cross sections and a vertical profile of the alignment. Cross sections are shown on each sheet to represent the track configuration at a specific location on that drawing. A vertical profile is an engineering drawing representing what the design would look like from the side, or profile, of the alignment. An example is shown below.

**Colors/Legend**

A legend for the composite plans can be found on sheet 38 of the General Information Book. The four previous examples highlight the most common markings that are found on the composite plans, but the legend may be referenced to help understand the information depicted in the plans.

- "MT" means main track and "B" indicates alignment stationing of the southbound passenger track with tick marks at 100' intervals.
- A 100-year flood event has a 1 in 100 (1%) chance of happening in any given year.
- Caltrain station platforms and high-speed rail station platforms are distinguished by different styles of hatching.
- Utilities are marked with brown lines.
- Structural features, marked with blue lines, generally refer to via-
- Realigned roadways are drawn in magenta.
- Embankments and temporary roadways, such as Monterey High-
- Proposed construction staging areas are marked on the plans.
- Proposed temporary construction easement and the dashed line labeled "PROP TCE" indicates a proposed temporary construction easement.
- Blue lines indicate the footprint of proposed structures, such as the viaduct shown in this example.
- The dashed line labeled "EXIST UPRR ROW" indicates the existing UPRR right-of-way.
- The red line indicates the relocated UPRR freight track.
- The blue line marks the northbound passenger track and the green line marks the southbound passenger track.
- The dashed line labeled "PROP TCE" indicates a proposed temporary construction easement.
- Cross sections are shown on each sheet to represent the track configuration at a specific location on that drawing. A vertical profile is an engineering drawing representing what the design would look like from the side, or profile, of the alignment. An example is shown below.

**Scale**

The drawings in Volume III are scaled, meaning the measurements in these drawings are in proportion to the actual locations they represent. For example, one inch of a drawing might represent 600 feet of the real alignment. All drawings show their scale. Note that some drawings have different horizontal and vertical scales, and these are shown on the drawing.