San Jose to Merced Section: San Jose to Central Valley Wye

Construction Staging

Alternative 3 - Viaduct to East Gilroy
Draft EIR/S: Volume III
Preliminary Engineering for Project Definition
Record - May 2019
<table>
<thead>
<tr>
<th>BOOK</th>
<th>SHEET NO</th>
<th>DRAWING NO</th>
<th>SUBSECTION</th>
<th>GEOGRAPHIC LOCATION</th>
<th>ALIGNMENT OR FEATURE</th>
<th>SHEET DESCRIPTION</th>
<th>ADDITIONAL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOK 3E</td>
<td>139</td>
<td>LV-8401</td>
<td>MONTEREY CORRIDOR</td>
<td>W ALMA AVE, CURTNER AVE</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 1 - STAGES 1 &amp; 2</td>
<td>CALTRAIN/UPRR RELLOCATION-SA 149+00 TO 288+00</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>140</td>
<td>LV-8402</td>
<td>MONTEREY CORRIDOR</td>
<td>W ALMA AVE, CURTNER AVE</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 1 - STAGES 3</td>
<td>CALTRAIN/UPRR RELLOCATION-SA 149+00 TO 288+00</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>141</td>
<td>LV-8403</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 1 - STAGE 1</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>142</td>
<td>LV-8404</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 1 - STAGE 2</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>143</td>
<td>LV-8405A</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 1 - STAGE 3</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>144</td>
<td>LV-8406</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 2</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>145</td>
<td>LV-8407</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 3</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>146</td>
<td>LV-8408</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 3</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>147</td>
<td>LV-8409</td>
<td>MONTEREY CORRIDOR</td>
<td>ALMADEAN RD</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 3</td>
<td>ALMADEAN RD UNDERPASS</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>148</td>
<td>LV-8410</td>
<td>MONTEREY CORRIDOR</td>
<td>SR 87, UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 1 - STAGES 1 &amp; 2</td>
<td>MODIFY EXISTING ALMADEAN EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>149</td>
<td>LV-8411</td>
<td>MONTEREY CORRIDOR</td>
<td>SR 87, UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 2</td>
<td>MODIFY EXISTING ALMADEAN EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>150</td>
<td>LV-8412</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN-PHASE 3</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>151</td>
<td>LV-8413</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>152</td>
<td>LV-8414</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>153</td>
<td>LV-8415</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>154</td>
<td>LV-8416</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>155</td>
<td>LV-8417</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>156</td>
<td>LV-8418</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>157</td>
<td>LV-8419</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>158</td>
<td>LV-8420</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>159</td>
<td>LV-8421</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>160</td>
<td>LV-8422</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>161</td>
<td>LV-8423</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>162</td>
<td>LV-8424</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>163</td>
<td>LV-8425</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>164</td>
<td>LV-8426</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>165</td>
<td>LV-8427</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>166</td>
<td>LV-8428</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>167</td>
<td>LV-8429</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>168</td>
<td>LV-8430</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>169</td>
<td>LV-8431</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>170</td>
<td>LV-8432</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>171</td>
<td>LV-8433</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>172</td>
<td>LV-8434</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>173</td>
<td>LV-8435</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>174</td>
<td>LV-8436</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>175</td>
<td>LV-8437</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>176</td>
<td>LV-8438</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
<tr>
<td>BOOK 3E</td>
<td>177</td>
<td>LV-8439</td>
<td>MONTEREY CORRIDOR</td>
<td>UPRR</td>
<td>VIADUCT</td>
<td>CONSTRUCTION STAGING PLAN</td>
<td>MODIFY EXISTING UPRR EXPRESSWAY OVERHEAD</td>
</tr>
</tbody>
</table>

**ALTERNATIVE 3 - VIADUCT TO EAST GILROY**

**BOOK 3E**

**INDEX OF DRAWING AND KEY MAPS**

**COVER**

**SUBSECTION**

**GEOGRAPHIC LOCATION**

**ALIGNMENT OR FEATURE**

**SHEET DESCRIPTION**

**ADDITIONAL DESCRIPTION**
PHASE 1 - STAGE 1 CONSTRUCTION STEPS

1. DIVERT TRAFFIC AND REMOVE EXISTING CALTRAIN STORAGE TRACKS, REMOVE EXISTING N ABUT AT ALMADEN EXPRESSWAY AND CONST N ABUTS AT ALMADEN ROAD. REMOVE EXISTING NORTHERLY HALF OF ABUTS AT CURTNER AVE. SEE ALSO DRAWING CV-I0408 & CV-I0412.

2. REMOVE EXISTING CALTRAIN STORAGE TRACKS AND REMOVE EXISTING W UPRR WINGWALL AND CONST W EXTENSION UPRR ABUT AND STORAGE TRACKS AND CONST E EXTENSION UPRR ABUT AND W UPRR AND ACE ABUT EXTENSIONS AT ALMADEN ROAD. SEE ALSO DRAWING CV-I0405.

3. CONST SEGMENTS OF UPRR SPUR TRACK, UPRR SPUR TRACK, UPRR SHOOFLY TRACK AND CALTRAIN SHOOFLY TRACK IN THE CLEAR OF EXISTING TRACKS.

4. DIVERT TRAFFIC AND REMOVE NORTHERLY HALF OF SUPERSTRUCTURE AND BENT AT ALMADEN EXPRESSWAY AND CURTNER AVE. SEE ALSO DRAWING CV-I0406 & CV-I0412.

5. REMOVE SEGMENTS OF UPRR SPUR TRACK. 4.

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 139 OF 216
PHASE 1 - STAGE 3 CONSTRUCTION STEPS

1. **Construct Final UPRR/Caltrain Mainline Track Segments and Tie In**
2. **Tie In Existing UPRR/Caltrain Mainline Track Segments**
3. **Remove Existing UPRR/Caltrain Mainline and Spur Track Segments**
4. **Tie In Existing UPRR/Caltrain Mainline Track Segments**
5. **Construct Final UPRR/Caltrain Mainline Track & Tie In**
6. **Remove Existing UPRR/Caltrain Mainline & Spur Track Segments**
7. **Tie In Existing UPRR/Caltrain Track**
LEGEND:

- EXISTING FACILITY
- NEW CONSTRUCTION
- REMOVAL

SCHEMATIC PLAN NOT TO SCALE

PHASE 3 STAGE 1

1. Take Caltrain/UPRR Mainline & ShooFLY tracks out of service for train free weekend & city work over Superstructure at Almaden Road to new final alignment. See also Drawing CI6007.
2. Construct Caltrain/UPRR Mainline track segments over Existing Caltrain/UPRR Mainline track segments at West Alma Ave.
3. Remove Caltrain/UPRR Mainline & ShooFLY segments & remove spur track segments in almost expressway sides.
4. Tie in spur track segments, construct Caltrain/UPRR Mainline track segments & tie in Caltrain/UPRR Mainline track segments over Caltrain/UPRR Mainline and spur tracks to full service.
5. Construct existing bicycle path at Almaden Expressway.
6. Construct segments of final ACE bridge and tracks.

PHASE 3 STAGE 2

1. Construct segments of final ACE bridge and tracks.
2. Construct new ShooFLY segment.
3. Complete Caltrain set-out track at S end.
4. Complete ShooFLY tracks & OCS on final alignment & open to service.
5. Remove ShooFLY track segments in Almaden Expressway.
6. Remove UPRR/CALTRAIN Mainline & ShooFLY segments & Mainline track segments at West Alma Ave.
7. Shift Bridge at Almaden Road & tie in UPRR/CALTRAIN Mainline track segments over alignment. See also Drawing CI6007.
8. Remove Superstructure at Almaden Road to new final service for train free weekend & shift UPRR.
9. Take Caltrain/UPRR Mainline & ShooFLY tracks out of service for train free weekend & city work over Superstructure at Almaden Road to new final alignment. See also Drawing CI6007.
PHASE 1 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10401)
1. CLOSING NORTHBOUND LANE AND REROUTE TO TWO-WAY TRAFFIC ON SOUTHBOUND LANE.
2. PROVIDE TEMPORARY SHORING AND CONSTRUCT EAST ABUTMENT FOR NEW CALTRAIL AND ACE BRIDGES.
3. PROVIDE TEMPORARY SHORING AND CONSTRUCT EAST ABUTMENT FOR UPRR BRIDGE.
4. CONSTRUCT EAST SIDE OF NEW ALMADEN ROAD AND RETAINING WALL.
5. SHORTEN EXISTING CALTRAIL STORAGE TRACKS.
PHASE 1 - STAGE 2 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10401)

1. ROUTE TWO-WAY TRAFFIC ON NORTHBOUND LANE. PROVIDE FLAG-MEN OR AUTOMATED SIGNALIZATION AS REQUIRED.
2. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR NEW CALTRAIN AND ACE BRIDGES.
3. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR REROUTE TO TWO-WAY TRAFFIC ON NORTHBOUND LANE.
4. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR NEW CALTRAIN BRIDGES.
5. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR ACE BRIDGES.

1. REROUTE TWO-WAY TRAFFIC ON NORTHBOUND LANE. PROVIDE FLAG-MEN OR AUTOMATED SIGNALIZATION AS REQUIRED.
2. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR NEW CALTRAIN AND ACE BRIDGES.
3. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR NEW CALTRAIN STORAGE TRACKS.
4. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR NEW CALTRAIN BRIDGES.
5. PROVIDE TEMPORARY SHORING AND CONSTRUCT WEST ABUTMENTS FOR NEW CALTRAIN STORAGE TRACKS.

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SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 144 OF 216

CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCEDES
MONTEREY CORRIDOR
PROJECT
CONSTRUCTION STAGING-PHASE 1 - STAGE 2
ALMADEN RD UNDERPASS
LEGEND:
- - - - EXISTING FACILITY
- - - - NEW CONSTRUCTION
- - - - REMOVAL

INDICATES DIRECTION OF TRAFFIC AND NUMBER OF LANE

PHASE 1 - STAGE 3 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-I0401)
1. ALMADEN RD TRAFFIC TO RESUME NORMAL OPERATIONS.
2. CONSTRUCT PORTIONS OF NEW ACE AND UPRR/CALTRAIN BRIDGE SUPERSTRUCTURES.
3. CONSTRUCT PORTIONS OF FINAL UPRR/CALTRAIN MAINLINE TRACKS AND CALTRAIN SHOOFLY TRACK.
4. SWITCH TRAIN TRAFFIC TO FINAL NB UPRR/CALTRAIN TRACK AND SB CALTRAIN SHOOFLY TRACK.
5. DEMO EXISTING MIDDLE SEGMENT OF SUPERSTRUCTURE AND REBUILD, MODIFY EXISTING ABUTMENTS.
6. DEMO EXISTING UPRR/CALTRAIN MAINLINE TRACKS.

CONSTRUCTION STAGING-PHASE 1-STAGE 3
ALMADEN RD UNDERPASS

MONTEREY CORRIDOR
VIADUCT

SAN JOSE TO MERCED
MONTEREY CORRIDOR
Projects
CONSTRUCTION STAGING-PHASE 1-STAGE 3
ALMADEN RD UNDERPASS

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 145 OF 216
Phase 2 - Stage 1 Construction Steps (See also Drawing CV-30403)

1. Open traffic lanes to normal flow.
2. Construct HSR bridge superstructure. Provide protection over traffic or temporarily close to traffic during necessary operations.

Legend:
- --- --- Existing Facility
- --- --- New Construction
--- --- Removal
--- --- Indicates direction of traffic and number of lanes

Phase 2 - Stage 1

Schematic Plan
Not to scale
**LEGEND:**
- Existing Facility
- New Construction
- Removal

---

**PHASE 3 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10404)**

1. Discontinue service on UPRR and CALTRAIN tracks for train-free weekend.
2. Remove UPRR/CALTRAIN tracks across bridge, and shift existing UPRR/CALTRAIN bridge to extended abutments.
3. Construct remainder of UPRR/CALTRAIN main line tracks.
4. Open UPRR/CALTRAIN main line tracks to service.
5. Remove existing UPRR/CALTRAIN main line tracks.
6. Construct abutment, backwalls, and railing on existing portion of existing UPRR/CALTRAIN abutments.
7. Construct final ACE bridge and tracks.

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**PHASE 3 - STAGE 2 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10404)**

1. Remove existing CALTRAIN storage tracks.
2. Construct final ACE bridge and tracks.
3. Construct new tracks on final alignments.
4. Open new tracks to service.

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**EXISTING FACILITY**

- Mainline UPRR/CALTRAIN
- Storage tracks CALTRAIN
- Existing

**NEW CONSTRUCTION**

- Removed
- Indicate direction of traffic and number of lanes
**PHASE 1 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-I0401)**

1. Construct temporary retaining wall and direct northbound on ramp.
2. Direct roadway traffic to a single lane in each direction on south side of existing bridge. Provide single left turn lane west of bridge gate on ramp to SR 87.
3. Remove superstructure of northerly half of existing bridge. Place track protection panels and remove superstructure of Caltrain west line tracks during two track train free periods.
4. Place temporary shoring adjacent to both existing abutments along centerline of Almaden Expressway. Place temporary shoring behind new abutment parallel to NB on ramp. Place temporary shoring behind existing abutment.
5. Construct the south most segment of UPRR spur track to final alignment and temporary shoofly alignment, and construct south portion of temporary UPRR shoofly track in the clear of the UPRR spur or spur track and in the clear of existing UPRR main line track.

**LEGEND**

- Existing facility
- New construction
- Removal

**INDICATES DIRECTION OF TRAFFIC AND NUMBER OF LINES**

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**PHASE 1 - STAGE 1 SCHEMATIC PLAN**

1. Remove northerly half of existing abutment 3 and existing fill in front of existing abutment 3. Remove northerly half of existing abutment 2 during UPRR main line track train free periods and/or weekends. Excavate as required for construction of northerly half of new abutment.
2. Remove northerly half of existing abutment 1 and existing fill behind existing abutment 1 during Caltrain main line track train free periods and/or weekends.
5. Excavate north half of existing abutment 2.
6. Excavate north half of existing abutment 3.
7. Excavate north half of new abutment 3.
9. Remove northerly half of existing bridge. Place track protection panels and remove superstructure of caltrain west line tracks during two track train free periods.
10. Construct temporary retaining wall and direct northbound on ramp.

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**PHASE 1 - STAGE 2 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-I0401)**

1. Remove north half of existing abutment 3 and existing fill in front of existing abutment 3. Remove north half of existing abutment 2 during UPRR main line track train free periods and/or weekends. Excavate as required for construction of north half of new abutment.
2. Remove north half of existing abutment 1 and existing fill behind existing abutment 1 during Caltrain main line track train free periods and/or weekends. Excavate as required for construction of north half of new abutment.
5. Excavate north half of existing abutment 2.
6. Excavate north half of existing abutment 3.
7. Excavate north half of new abutment 3.
9. Remove north half of existing bridge. Place track protection panels and remove superstructure of Caltrain west line tracks during two track train free periods.
10. Shift south traffic to the final alignment (not shown).
11. Shift south traffic track to final alignment (not shown).
12. Shift south spur track to final alignment (not shown).
13. Shift south spur track to final alignment (not shown).
14. Install track (not shown).
15. Add closure shoring and backfill (typ).
18. Remove north half of existing abutment 3.
19. Remove north half of existing abutment 2.
20. Remove north half of existing bridge.
22. Excavate north half of existing abutment 3.
23. Excavate north half of new abutment 3.
25. Remove north half of existing bridge. Place track protection panels and remove superstructure of Caltrain west line tracks during two track train free periods.

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**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 148 OF 216**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**SAN JOSE TO MERCEDE**

**MONTEREY CORRIDOR**

**PROJECT**

**CONSTRUCTION STAGES-PHASE 1-STAGES 1 & 2**

**MODIFY EXISTING ALMADEN EXPRESSWAY OVERPASS**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**SAN JOSE TO CVY EIR/S: VOLUME III**

**ALTERNATIVE 3**

**BOOK 3E**

**SHEET 148 OF 216**

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**DRAWN BY**

**DESIGNED BY**

**CHECKED BY**

**IN CHARGE**
PHASE 1 - STAGE 3 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10402)

1. Construct Caltrain ShooFLY track and tie-in during train-free weekends, remove existing Caltrain and UPRR mainline track.
2. Construct north half of new Bent 2 during UPRR and Caltrain ShooFLY track train-free nights and/or weekends.
3. Construct north half of new bridge superstructure during UPRR and Caltrain ShooFLY track train-free nights and/or weekends. Work during normal work hours is permissible above temporary falsework.

LEGEND:
- Existing Facility
- New Construction
- Removal

* Indicates direction of traffic, and number of lanes

CONSTRUCTION STAGING-PHASE 1-STAGE 3

<table>
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SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E SHEET 149 OF 216
PHASE 2 - STAGE 1

1. DIVERT ROADWAY TRAFFIC TO A SINGLE LANE IN EACH DIRECTION ON THE NORTH HALF OF NEW BRIDGE, PROVIDE SINGLE LEFT LANE WEST OF BRIDGE UNTIL NB ON RAMP TO OR BY, CLOSE SOUTH HALF OF EXISTING BRIDGE TO ROADWAY TRAFFIC, INSTALL BARRIER.

2. REMOVE SOUTH HALF OF EXISTING BRIDGE, PLACE TRACK PROTECTION PANELS AND REMOVE SPAN OVER SPUR AND CALTRAIN SHOOFLY TRACKS DURING TWO TRACK TRAFFIC FREE WEEKEND.

3. PROVIDE TEMPORARY SHORING ALONG CENTERLINE OF ROAD TO ACCOMMODATE EXCAVATION ON SOUTH HALF, INSTALL SHORING BEHIND FOR NEW ABUT 3.

4. REMOVE SOUTH HALF OF EXISTING ABUT 3 AND FILL TO FRONT OF EXISTING ABUT 3, REMOVE SOUTH HALF OF EXISTING PIER 2 DURING SEVERAL CALTRAIN SHOOFLY TRACK TRAIN FREE NIGHTS AND/OR WEEKENDS.

5. REMOVE SOUTH HALF OF EXISTING ABUT 1 AND EXISTING FILL BEHIND EXISTING ABUT 1 DURING SEVERAL CALTRAIN SHOOFLY TRACK TRAIN FREE NIGHTS AND/OR WEEKENDS, EXCAVATE AS REQUIRED FOR CONSTRUCTION OF SOUTH HALF OF NEW ABUT 1.

6. CONSTRUCT SOUTH HALF OF NEW ABUT 3 AND SOUTH HALF OF NEW ABUT 1, BACKFILL BEHIND SOUTH HALF OF NEW ABUT 1 AND ABUT 3.

LEGEND:

- EXISTING FACILITY
- NEW CONSTRUCTION
- REMOVAL

- INDICATES DIRECTION OF TRAFFIC AND NUMBER OF LANES
- SHOOFLY TRACKS

PHASE 2 - STAGE 2

1. CONSTRUCT SOUTH HALF OF NEW BENT 2 DURING SEVERAL UPRR AND CALTRAIN SHOOFLY TRACK TRAIN FREE NIGHTS AND/OR WEEKENDS.

2. CONSTRUCT SOUTH HALF OF NEW BRIDGE SUPERSTRUCTURE DURING SEVERAL UPRR AND CALTRAIN SHOOFLY TRACK TRAIN FREE NIGHTS AND/OR WEEKENDS, WORK DURING NORMAL HOURS, PERMISSIBLE ABOVE TEMPORARY FALSEWORK.

3. CONSTRUCT FINAL ALMADEN EXPRESSWAY AND NB ON RAMP TO SHUT ROADWAY SURFACES AND TRAFFIC SIGNALING AND OPEN ALL ROADWAYS TO TRAFFIC.

4. CONSTRUCT REMAINDER OF UPRR SPUR TRACK AND UPRR MAIN LINE TRACK ON FINAL ALIGNMENTS IN CLEAR OF EXISTING UPRR SHOOFLY TRACK.

5. CONSTRUCT SOUTH HALF OF NEW BRIDGE SUPERSTRUCTURE DURING SEVERAL UPRR AND CALTRAIN SHOOFLY TRACK TRAIN FREE NIGHTS AND/OR WEEKENDS.

6. CONSTRUCT SOUTH HALF OF NEW BENT 2 DURING UPRR SHOOFLY TRACK TRAIN FREE NIGHTS AND/OR WEEKENDS.

7. INSTALL TRACK PROTECTION PANELS AND REMOVE SPAN OVER UPRR AND CALTRAIN SHOOFLY TRACKS DURING TWO TRACK TRAFFIC FREE WEEKEND.

8. CLOSE SOUTH HALF OF EXISTING BRIDGE TO ROADWAY TRAFFIC. INSTALL BARRIER.

9. SINGLE LEFT TURN LANE WEST OF BRIDGE ONTO NB ON RAMP TO SR 87. CLOSE SOUTH HALF OF EXISTING BRIDGE TO ROADWAY TRAFFIC.
1. Tie in UPRR spur track and UPRR main line track at each end during train free night and/or weekend and open UPRR spur track and UPRR main line track to service.
2. Remove temporary UPRR SHOOFLY track and SHOOFLY turnout, construct remainder of CALTRAIN main line track on final alignment in clear of new UPRR main line. The in CALTRAIN main line track at each end during train free night and/or weekend and open CALTRAIN main line track to service.
3. Reconstruct ramp to original configuration

LEGEND:
- -------- EXISTING FACILITY
- -------- NEW CONSTRUCTION
- -------- REMOVAL

INDICATES DIRECTION OF TRAFFIC AND NUMBER OF LANES

NOTES: TRAFFIC CONTROL IS MODIFIED ONLY. NOT TO SCALE.

- 1) REMOVE CALTRAIN SHOOFLY
- 2) CONSTRUCT NB AND SB HST TRACK
- 3) CONSTRUCT NB HST TRACK TO EXISTING FACILITY
- 4) OPEN HST TRACK TO SERVICE
- 5) CONSTRUCT NB AND SB HST TRACK INCLUDING OCS AND SIGNALS
- 6) REMOVE TEMPORARY RETAINING WALL AND RESTORE RAMP

PHASE 3 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10404)
1. Tie in UPRR spur track and UPRR main line track at each end during train free night and/or weekend and open UPRR spur track and UPRR main line track to service.
2. Remove temporary UPRR SHOOFLY track and SHOOFLY turnout, construct remainder of CALTRAIN main line track on final alignment in clear of new UPRR main line. The in CALTRAIN main line track at each end during train free night and/or weekend and open CALTRAIN main line track to service.
3. Reconstruct ramp to original configuration

PHASE 3 - STAGE 2 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-10404)
4. Construct NB and SB HST track including OCS and signals.
5. Open HST track to service.
6. Remove temporary retaining wall and restore ramp
Phase 1 - Stage 1 Construction Steps (See Also Drawing CV-10401)

1. Divert roadway traffic to a single lane in each direction on the southerly side of existing bridge.
2. Remove approach spans of northern half of existing bridge, place track protection panels, and remove northern half of span over UPRR and Caltrain main line tracks during Caltrain/UPRR train-free weekends.

Phase 1 - Stage 2 Construction Steps (See Also Drawing CV-10401)

3. Place temporary shoring adjacent to both abuts along centerline of Curtner Avenue, place new retaining wall in front of northern half of abut 1 and abut 4.
4. Remove northern half of existing abut 2 and abut 3 during Caltrain/UPRR train-free nights and/or weekends, remove fill in front of northernly abuts.

Phase 1 - Stage 3 Construction Steps (See Also Drawing CV-10401)

1. Construct UPRR shoofly track on ends, Caltrain mainline track alignment, tie in ends of UPRR shoofly track during Caltrain/UPRR train-free weekends.
2. Construct Caltrain shoofly track on west side, tie in ends during train free weekend and begin operations on Caltrain shoofly track.
3. Remove existing UPRR and Caltrain mainline tracks during Caltrain/UPRR train-free weekends and/or nights.
4. Replace shoring as required and place new northernly superstructure during Caltrain/UPRR train-free weekends and/or nights.

Legend:
- Existing Facility
- New Construction
- Removal

Indicates direction of traffic and number of lanes

Phase 1 - Stages 1 & 2

Phase 1 - Stage 3

Schematic Plan

Not to Scale
PHASE 2 - STAGE 1

1. DIVERSE ROADWAY TRAFFIC TO ONE LANE IN EACH DIRECTION ON NORTH SIDE OF NEW BRIDGE.
2. REMOVE APPROACH SPANS OF SOUTHERN HALF OF EXISTING BRIDGE. PLACE TRACK PROTECTION PANEL AND REMOVE SOUTHERN APPROACH SPANS
3. PLACE NEW RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF ABUTS 1 AND ABUT 4.
4. REMOVE SOUTHERLY HALF OF EXISTING BRIDGE. PLACE SOUTHERLY RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF BRIDGE.

PHASES 2 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-104003)

1. MODIFY EXISTING ESSENTIALS AND PLACE NEW SOUTHERLY SUPERSTRUCTURE DURING UPRR/CALTRAIN TRAIN FREE NIGHTS AND/OR WEEKENDS. PLACE SOUTHERLY RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF BRIDGE.
2. PLACE NEW RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF ABUTS 1 AND ABUT 4.
3. PLACE NEW SUPERSTRUCTURE IN FRONT OF SOUTHERLY SIDE OF ABUTS.

PHASES 2 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-104031)

4. PLACE NEW RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF ABUT 1 AND ABUT 4.
5. PLACE NEW RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF BRIDGE.
6. PLACE NEW RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF ABUT 1 AND ABUT 4.

PHASES 2 - STAGE 1 & 2 & PHASE 3

1. MODIFY EXISTING ESSENTIALS AND PLACE NEW SOUTHERLY SUPERSTRUCTURE DURING UPRR/CALTRAIN TRAIN FREE NIGHTS AND/OR WEEKENDS. PLACE SOUTHERLY RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF BRIDGE.
2. PLACE NEW RETAINING WALL IN FRONT OF SOUTHERLY SIDE OF ABUTS 1 AND ABUT 4.
3. PLACE NEW SUPERSTRUCTURE IN FRONT OF SOUTHERLY SIDE OF ABUTS.

PHASES 2 - STAGE 2 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-104040)

5. CONSTRUCT CALTRAIN MAINLINE TRACKS AT EACH END OF SOUTHERLY BRIDGE. PLACE TRACK PROTECTION PANELS AND REMOVE APPROACH SPANS OF SOUTHERLY BRIDGE.
6. CONSTRUCT CALTRAIN RETAINING WALLS IN FRONT OF SOUTHERLY SIDE OF ABUTS.
7. CONSTRUCT CALTRAIN TRACK PROTECTION PANELS AND REMOVE APPROACH SPANS OF SOUTHERLY BRIDGE.

PHASES 3 - STAGE 1 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-104041)

1. CONSTRUCT UPRR Retaining WALL IN FRONT OF SOUTHERLY SIDE OF BRIDGE.
2. CONSTRUCT UPRR TRACK PROTECTION PANELS AND REMOVE APPROACH SPANS OF SOUTHERLY BRIDGE.
3. CONSTRUCT UPRR RETAINING WALLS IN FRONT OF SOUTHERLY SIDE OF ABUTS.

PHASES 3 - STAGE 2 CONSTRUCTION STEPS (SEE ALSO DRAWING CV-104042)

4. CONSTRUCT UPRR TRACK PROTECTION PANELS AND REMOVE APPROACH SPANS OF SOUTHERLY BRIDGE.
5. CONSTRUCT UPRR RETAINING WALLS IN FRONT OF SOUTHERLY SIDE OF ABUTS.
6. CONSTRUCT UPRR TRACK PROTECTION PANELS AND REMOVE APPROACH SPANS OF SOUTHERLY BRIDGE.
7. CONSTRUCT UPRR RETAINING WALLS IN FRONT OF SOUTHERLY SIDE OF ABUTS.

LEGEND

- EXISTING FACILITY
- NEW CONSTRUCTION
- REMOVAL

INDICATES DIRECTION OF TRAFFIC AND NUMBER OF LANES

SAN JOSE TO CVY EIR/S: VOLUME III ALTERNATIVE 3 BOOK 3E SHEET 153 OF 216 CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MONTEREY CORRIDOR CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MONTEREY CORRIDOR CALIFORNIA HIGH-SPEED TRAIN PROJECT SAN JOSE TO MERCED MONTEREY CORRIDOR
BLOOMFIELD AVENUE AND PRIVATE DRIVEWAY/BOLSA ROAD/SHELDON AVENUE/FRAZIER LAKE ROAD:

STAGE ONE:
1. PARTIALLY CONSTRUCT BOLSA ROAD REALIGNMENT.
2. CONTINUE TRAFFIC ON EXISTING BOLSA ROAD.
3. PARTIALLY CONSTRUCT BLOOMFIELD ROAD GRADE SEPARATION REALIGNMENT.
4. CONTINUE TRAFFIC ON EXISTING BLOOMFIELD AVENUE.
5. CONSTRUCT TEMPORARY DETOUR ROADWAY ON WEST SIDE OF EXISTING FRAZIER LAKE ROAD.
6. CONTINUE TRAFFIC ON EXISTING FRAZIER LAKE ROAD.

STAGE TWO:
1. CONSTRUCT BLOOMFIELD ROAD GRADE SEPARATION REALIGNMENT AT THE INTERSECTION WITH EXISTING SHELDON AVENUE.
2. CONTINUE TRAFFIC ON EXISTING BLOOMFIELD AVENUE.
3. CONSTRUCT FRAZIER LAKE ROAD GRADE SEPARATION.
4. DETOUR TRAFFIC ON FRAZIER LAKE ROAD TO TEMPORARY DETOUR ROADWAY ON WEST SIDE OF EXISTING FRAZIER LAKE ROAD.

STAGE THREE:
1. CONSTRUCT NORTH AND SOUTH BLOOMFIELD ROAD GRADE SEPARATION REALIGNMENT CONFORMS TO TEMPORARY LANE CLOSURE WITH REVERSIBLE CONTROL.
2. RESTORE TRAFFIC ONTO BLOOMFIELD ROAD GRADE SEPARATION REALIGNMENT.
3. CONSTRUCT BOLSA ROAD REALIGNMENT CONFORMS TO TEMPORARY LANE CLOSURE WITH REVERSIBLE CONTROL.
4. RESTORE TRAFFIC TO BOLSA ROAD REALIGNMENT.
5. CONSTRUCT FRAZIER LAKE ROAD GRADE SEPARATION.
6. RESTORE TRAFFIC ONTO BLOOMFIELD ROAD GRADE SEPARATION.
7. RESTORE TEMPORARY DETOUR ROADWAY ON WEST SIDE OF FRAZIER LAKE ROAD GRADE SEPARATION.
LEGEND:

- Construct this stage

NOTES:

1. See drawing CV-I1001 for general notes regarding stage construction.

2. HSR tracks to be constructed following completion of stage separation work.

- Proposed HSR right-of-way
- Existing Bloomfield Avenue
- Proposed Bloomfield Avenue
- Realigned Bolsa Road
- Construction staging area
- TCE

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 155 OF 216

MAY 3, 2019
NOTES:
1. SEE DRAWING CV-I1001 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

LEGEND:

CONSTRUCT THIS STAGE

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 156 OF 216

MAY 3, 2019
MAY 3, 2019
NOTES:
1. SEE DRAWING CV-I1005 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HT TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

LEGEND:

- CONSTRUCT THIS STAGE

SANTA CLARA COUNTY

PERSPECTIVE

REALIGNED BLOOMFIELD AVENUE

STAGE TWO

PROPOSED HST R/W VIADUCT TO DOWNTOWN GILROY

SAN JOSE TO CVY EIR/S: VOLUME III ALTERNATIVE 3 BOOK 3E SHEET 158 OF 216

MAY 3, 2019

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 158 OF 216

MAY 3, 2019
NOTES:
1. SEE DRAWING CV-I1001 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION AREA.

LEGEND:
- CONSTRUCT THIS STAGE

GRADE SEPARATION
REALIGNED BLOOMFIELD AVENUE
STAGE THREE

GRADE SEPARATION
REALIGNED BOLSA ROAD
STAGE THREE

NOTES:
GRADE SEPARATION
REALIGNED BLOOMFIELD AVENUE
STAGE THREE

CONSTRUCTION PHASING / STAGING PLAN - STAGE 3
BLOOMFIELD AVENUE GRADE SEPARATION - SHEET 1 OF 2
HSR15-34

B1
B2

NOT FOR SUBMITTAL
RECORD PEPD

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 159 OF 216

CONSTRUCTION
STAGING AREA

PROPOSED WEST RUN

PROPOSED WEST RUN

PROPOSED WEST RUN

NOTES:
GRADE SEPARATION
REALIGNED BLOOMFIELD AVENUE
STAGE THREE

BLOOMFIELD AVENUE
BOLSA ROAD

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 159 OF 216

MAY 3, 2019
NOTES:
1. SEE DRAWING CV-I1001 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

LEGEND:
CONSTRUCT THIS STAGE
**HOLSCAW ROAD/SR 152/FRAZIER LAKE ROAD:**

**STAGE ONE:**
1. Construct temporary detour roadway on east side of existing Frazier Lake Road to conform with existing SR152.
2. Continue traffic on existing Frazier Lake Road.

**STAGE TWO:**
1. Construct partial realignment of Holscaw Road connection with Pacheco Pass Road.
2. Continue traffic on existing Holscaw Road.
3. Construct partial SR152 realignment on south side of existing SR152.
4. Continue traffic on existing SR152.
5. Redirect traffic on Holscaw Road to conform with proposed SR152 realignment.

**STAGE THREE:**
1. Redirect traffic onto realigned Frazier Lake Road.
2. Remove temporary detour roadway for Frazier Lake Road.
3. Construct Holscaw Road east and west of SR152.
4. Continue traffic on existing Frazier Lake Road.
5. Redirect Frazier Lake traffic onto temporary Frazier Lake Detour Roadway.
6. Construct Holscaw Road on east side of existing Frazier Lake to conform with existing SR152.
7. Continue traffic on existing Holsclaw Pass Road.
8. Construct partial realignment of Frazier Lake Road.
9. Continue traffic on existing Frazier Lake Road.
10. Redirect traffic on Pacheco Pass Road.
11. Construct Frazier Lake Road Realignment to conform with proposed SR152 realignment.

**NOTES:**
- Control - Typical lane closure with reversible access conforms - use flaggers for lane closure with reversible control.
- **NOT FOR SUBMITTAL**
- RECORD PEPD

**SAN JOSE TO CVY EIR/S: VOLUME III ALTERNATIVE 3 BOOK 3E SHEET 161 OF 216**
NOTES:
1. SEE DRAWING CV-I1101 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.
NOTES:
1. SEE DRAWING CV-I1101 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 164 OF 216

MAY 3, 2019
NOTES:
1. SEE DRAWING CV-I1101 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HSR TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

SCALE APPLICABLE FOR FULL SIZE ONLY

GRADE SEPARATION
REALIGNED SR 152 CONNECTOR
STAGE TWO
"HOLC2" LINE

NOTES:
1. HSR TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

SCALE: 1"=100'

CONSTRUCTION STAGING PLAN - STAGE 2
SR 152/FRAZIER LAKE RD GRADE SEPARATIONS

MAY 3, 2019
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 166 OF 216

CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERced
MORGAN HILL AND GILROY
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 166 OF 216

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 166 OF 216
NOTES:
1. SEE DRAWING CV-I1101 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HSR TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

NOT FOR SUBMITTAL
SCALE: 1"=100'

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 168 OF 216

MAY 3, 2019
MAY 3, 2019

CONSTRUCTION STAGING PLAN - STAGE 3
SR 152/FRAZIER LAKE RD GRADE SEPARATIONS
NOTES:
1. SEE DRAWING CV-I1101 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 169 OF 216

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 169 OF 216

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 169 OF 216
NOTES:
1. SEE DRAWING CV-11101 FOR GENERAL NOTES REGARDING STAGE CONSTRUCTION.
2. HOT TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

GRADE SEPARATION
REALIGNED SR 152 CONNECTOR
STAGE THREE
"HOLC2" LINE

SANTA CLARA COUNTY

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 170 OF 216
**Henry Miller Road Detour:**
1. Build temporary roadway on north side of Henry Miller Road, see drawings CV-I1602 and CV-I1603 for details.
2. Direct traffic onto detour and close existing roadway to allow for construction of grade separation.
3. Close Volta Road and detour traffic onto Incomar Grade Road to Henry Miller Road.
4. Restore traffic to Henry Miller Road after completion of grade separation work.
5. Construct remaining portion of of Volta Rd.
6. Remove temporary roadway.

**Carlucci Road Detour:**
1. Build temporary detour roadway on east side of Carlucci Road, see drawing CV-I1607 for details.
2. Direct traffic onto detour and close existing Carlucci Road to allow for construction of grade separation.
3. Restore traffic to Carlucci Road (realigned) Henry Miller Road and realigned Hutchins Springs Road upon completion of grade separation work.
4. Remove temporary roadways.

**Delta Road Detour:**
1. Build temporary detour roadway on west side of Delta Road, see drawing CV-I1605 for details.
2. Direct traffic onto detour and close existing roadway to allow for construction of grade separation.
3. Restore traffic to Delta Road upon completion of grade separation work.
4. Remove temporary roadway.

**Turner Island Road Detour:**
1. Construct connection road and temporary detour roadway on west side of Turner Island Road, see drawing CV-I1606 for details.
2. Direct traffic onto detour / connector road during construction of grade separation.
3. Restore traffic to Turner Island Road upon completion of grade separation work.
4. Remove temporary roadway.

**Notes:**
1. Grade separation construction shall be limited to 20 feet width of road from roadways within a 1/2 mile radius.
VOLTA, MERCED COUNTY

**NOTES:**
1. TEMPORARY DETOUR ROADWAY TO BE USED DURING CONSTRUCTION OF GRADE SEPARATION. SEE DRAWING CV-I1601 FOR DETAILS.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

**CONSTRUCTION STAGING PLAN**
HENRY MILLER ROAD GRADE SEPARATION
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 172 OF 216

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 172 OF 216

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 172 OF 216**

**LEGEND**
CONSTRUCT THIS STAGE WHEN HENRY MILLER ROAD TRAFFIC IS RESTORED
CONSTRUCT THIS STAGE WHEN TEMPORARY DETOUR ROADWAY IS CLOSED

**SCALE APPLICABLE FOR FULL SIZE ONLY**
1" = 200'

**NOTES:**
VOLTA, MERCED COUNTY

**LEGEND:**
SEE NOTES 1 AND 2
TEMPORARY DETOUR ROADWAY

**PROJECT:**
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 172 OF 216

**CONSTRUCTION STAGING PLAN**
HENRY MILLER ROAD GRADE SEPARATION
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 172 OF 216

**SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 172 OF 216**
NOTES:
1. TEMPORARY DETOUR ROADWAY TO BE USED DURING CONSTRUCTION OF GRADE SEPARATION. SEE SHEET CV-I1601 FOR DETAILS.
2. NEW TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

LEGEND:
- [ ] CONSTRUCT THIS STAGE WHEN TEMPORARY DETOUR ROADWAY IS OPEN

PRESENTATION:
- PROPOSED DETOUR ROADWAY
  - SEE NOTES 1 AND 2

CONSTRUCTION STAGING PLAN
HENRY MILLER ROAD GRADE SEPARATION
SAN JOSE TO MERCED
SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 173 OF 216

CONSTRUCTION
NOT FOR SUBMITTAL
NOTES:
1. TEMPORARY DETOUR ROADWAY TO BE USED DURING CONSTRUCTION OF GRADE SEPARATION. SEE DRAWING CV-I1601 FOR DETAILS.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

LEGEND:
- CONSTRUCT THIS STAGE

Temporary intersection
Temporary detour roadway
Temporary culverts

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 175 OF 216
MAY 3, 2019

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 175 OF 216
MAY 3, 2019

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 175 OF 216
MAY 3, 2019

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 175 OF 216
MAY 3, 2019

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 175 OF 216
MAY 3, 2019
NOTES:

1. TEMPORARY DETOUR ROADWAY AND CONNECTOR ROAD TO BE USED DURING CONSTRUCTION OF GRADE SEPARATION. SEE DRAWING CV-I1601 FOR DETAILS.

2. HSR TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

MERCED COUNTY

LEGEND:

- CONSTRUCT STAGE 1 (CONSTRUCT AS PART OF TEMPORARY ROAD)
- CONSTRUCT STAGE 2

SCALE APPLICABLE FOR FULL SIZE ONLY

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 176 OF 216

MAY 3, 2019

SAN JOSE TO MERCED HNTB
HENRY MILLER ROAD CONSTRUCTION STAGING PLAN
TURNER ISLAND ROAD GRADE SEPARATION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
SAN JOSE TO MERCED
HENRY MILLER ROAD CONSTRUCTION STAGING PLAN
TURNER ISLAND ROAD GRADE SEPARATION

SAN JOSE TO CVY EIR/S: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 176 OF 216

MAY 3, 2019
LEGEND:

1. CONSTRUCT THIS STAGE

NOTES:

1. TEMPORARY DETOUR ROADWAY TO BE USED DURING CONSTRUCTION OF GRADE SEPARATION. SEE SHEET CV-I1607 FOR DETAILS.
2. HST TRACKS TO BE CONSTRUCTED FOLLOWING COMPLETION OF GRADE SEPARATION WORK.

SAN JOSE TO CVY R/W: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 177 OF 216

MAY 3, 2019

SAN JOSE TO CVY R/W: VOLUME III
ALTERNATIVE 3
BOOK 3E
SHEET 177 OF 216

MAY 3, 2019