

**California High-Speed Train Project**



**Request for Proposal  
for Design-Build Services**

**RFP No.: HSR 11-16**

**Book 3, Part D, Subpart 6  
CP01 Transportation Mitigation**

ADDENDUM 9

| <b>Revision(s)</b> | <b>Date</b> | <b>Description</b> |
|--------------------|-------------|--------------------|
| 0                  | 11/13/2012  | Addendum 6         |
| 1                  | 01/08/2013  | Addendum 9         |
|                    |             |                    |
|                    |             |                    |

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|   |   | <b>Required Mitigations</b>  |   |   |   |
|---|---|--|---|---|---|
|   |   | <b>Related to Civil Construction<sup>2</sup></b>   | <b>Implementing Party and Monitoring/Reporting Party</b>  | <b>Implementation / Reporting Schedule</b>  | <b>Implementation Mechanism</b>   |
| <b>Fresno Area (North of Clinton Ave)</b>               |   |  |   |   |   |
| <b>Between Herndon Ave and Shaw Ave (Intersections)</b> |   |  |   |   |   |
| 1   | Golden State Blvd/Santa Ana Ave           | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant in 2035).</p> <p><b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide dual left-turn lanes and one through lane.</p> <p><b>TR MM#7</b> - Widen downstream on Santa Ana Avenue from one receiving lane to two receiving lanes to accommodate the dual left-turn lanes from northbound approach on Golden State Boulevard.</p>  | <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>TR MM #7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> | <p><b>TR MM#4</b> - Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p> <p><b>TR MM #7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p> | <p><b>TR MM #4</b> - MOU with City of Fresno</p> <p><b>TR MM #7, TR MM#8</b> - Contract Requirements/Specifications</p>                     |
| 2   | Cornelia Ave/Shaw Ave                     | <p><b>TR MM#4</b> - Signalize intersection.</p> <p><b>TR MM#5, TR MM#8</b> - Restripe eastbound approach to provide one left-turn lane, two through lanes, and one right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide two left-turn lanes, two through lanes and one right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide one left-turn lane, one through lane, and one channelized right-turn.</p> <p><b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide one left-turn lane, one through lane, and one right-turn.</p> <p><b>TR MM#7</b> - Widen downstream on Cornelia Avenue from one receiving lane to two receiving lanes to accommodate the second left-turn lane from westbound approach on Shaw Avenue.</p> | <p><b>TR MM#4 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> <p><b>TR MM #5, TR MM#7, TR MM#8: Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#4:</b> Prepare construction management plan/maintain weekly reporting schedule</p> <p><b>TR MM #5, TR MM#7, TR MM#8:</b> Prepare construction management plan/maintain weekly reporting schedule</p>          | <p><b>TR MM #4:</b> Contract Requirements/Specifications</p> <p><b>TR MM #5, TR MM#7, TR MM#8:</b> Contract Requirements/Specifications</p> |
| 5   | Blythe Ave/Shaw Ave                       | <p><b>TR MM#7, TR MM#8</b> -Widen eastbound approach to provide a second left-turn lane.</p>   | <p><b>TR MM#7, TR MM#8: Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#7, TR MM#8:</b> Prepare construction management plan/maintain weekly reporting schedule</p>   | <p><b>TR MM#7, TR MM#8:</b> Contract Requirements/Specifications</p>  |
| 7   | Cornelia Ave/Golden State Blvd            | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant in 2035).</p>   | <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p>   | <p><b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p>  | <p><b>TR MM #4:</b> MOU with City of Fresno</p>   |
| 9   | Figarden Dr/Bullard Ave                   | <p><b>TR MM#5</b> - Restripe westbound approach to provide two left-turn lanes, one through lane and one right-turn lane.</p>  | <p><b>TR MM #5: Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM #5:</b> Prepare construction management plan/maintain weekly reporting schedule</p>   | <p><b>TR MM #5:</b> Contract Requirements/Specifications</p>  |
| 14  | Veterans Blvd/Bullard Ave                 | <p><b>TR MM#5</b> - Restripe eastbound approach to provide one left-turn lane and two right-turn lanes.</p> <p><b>TR MM#5</b> - Restripe northbound approach to provide three left-turn lanes and one through lane.</p> <p><b>TR MM#6</b> - Modify signal timing.</p> <p><b>TR MM#10</b> - Grade separate through movement on Veterans Boulevard.</p>  | <p><b>TR MM #5, TR MM#6: Implementing Party:</b> City of Fresno</p> <p><b>Monitoring/Reporting Party:</b> City of Fresno</p> <p><b>TR MM#10:</b> City of Fresno</p>   | <p><b>TR MM #5, TR MM#6:</b> City of Fresno</p> <p><b>TR MM#10:</b> City of Fresno</p>  | <p><b>TR MM #5, TR MM#6:</b> MOU with City of Fresno</p> <p><b>TR MM#10:</b> MOU with City of Fresno</p>                                    |
| 15  | Veterans Blvd/Golden State Blvd Connector | <p><b>TR MM#5</b> - Restripe eastbound approach to provide one left-turn lane and four through lanes.</p> <p><b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide additional left-turn lane and a through lane.</p> <p><b>TR MM#3</b> - Modify northbound and southbound right-turn as free movements.</p>  | <p><b>TR MM #3, TR MM#5, TR MM#7, TR MM#8: Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>  | <p><b>TR MM #3, TR MM#5, TR MM#7, TR MM#8:</b> Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM #3, TR MM#5, TR MM#7, TR MM#8:</b> Contract Requirements/Specifications</p>   |

HSR13-06 - EXECUTION VERSION

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|   |   | <b>Required Mitigations</b>  |  |  |  |
|---|---|--|--|--|--|
|   |   | <b>Related to Civil Construction<sup>2</sup></b>   | <b>Implementing Party and Monitoring/Reporting Party</b>   | <b>Implementation / Reporting Schedule</b>   | <b>Implementation Mechanism</b>  |
| <b>Between Herndon Ave and Shaw Ave (Roadways)</b>                      |   |  |  |  |  |
| -   | Veterans Blvd between Golden State Blvd and Bullard Ave | TR MM#11 - Add one lane in each direction.   | TR MM#11: City of Fresno   | TR MM#11: City of Fresno   | TR MM#11: MOU with City of Fresno  |
| <b>SR 99 Realignment (Intersections)</b>                                |   |  |  |  |  |
| 5   | Clinton Ave/Brawley Ave                                 | TR MM#7, TR MM#8 - Widen southbound approach to provide second left-turn lane.   | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans  | TR MM#7, TR MM#8 - Caltrans  | TR MM#7, TR MM#8 - MOU with Caltrans   |
| 6   | Clinton Ave/Marks Ave                                   | TR MM#7, TR MM#8 - Widen northbound approach to provide exclusive northbound right-turn lane.<br>TR MM#5 - Restripe southbound approach to include two left-turn lanes and one shared through-right-turn lane.   | TR MM#5, TR MM#7, TR MM#8 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans   | TR MM#5, TR MM#7, TR MM#8 - Caltrans   | TR MM#5, TR MM#7, TR MM#8 - MOU with Caltrans                                    |
| 8   | Clinton Ave/SR 99 SB Ramps                              | TR MM#7, TR MM#8 - Widen eastbound approach to provide exclusive eastbound right-turn lane.  | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans  | TR MM#7, TR MM#8 - Caltrans  | TR MM#7, TR MM#8 - MOU with Caltrans   |
| 10  | Clinton Ave/Weber Ave                                   | TR MM#7, TR MM#8 - Widen southbound approach to provide second left-turn lane.<br>TR MM#7, TR MM#8 - Widen eastbound approach to provide second left-turn lane.  | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans  | TR MM#7, TR MM#8 - Caltrans  | TR MM#7, TR MM#8 - MOU with Caltrans   |
| 14  | Shields Ave/Brawley Ave                                 | TR MM#4 - Signalize intersection.  | TR MM#4 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans   | TR MM#4 - Caltrans   | TR MM#4 - MOU with Caltrans  |
| 15  | Dakota Ave/Brawley Ave                                  | TR MM#4 - Signalize intersection.<br>TR MM#5 - Restripe northbound approach to include exclusive left-turn lane and shared through-right-turn lane.<br>TR MM#5 - Restripe westbound approach to include exclusive left-turn lane and shared through-right-turn lane.<br>TR MM#7, TR MM#8 - Widen southbound approach to include exclusive left-turn, through and exclusive right-turn lanes.<br>TR MM#7, TR MM#8 - Widen eastbound approach to include exclusive left-turn and shared through-right-turn lane. | TR MM#4 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans<br><br>TR MM#5, TR MM#7, TR MM#8 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans | TR MM#4 - Caltrans<br><br>TR MM#5, TR MM#7, TR MM#8 - Caltrans                             | TR MM#4 - MOU with Caltrans<br><br>TR MM#5, TR MM#7, TR MM#8 - MOU with Caltrans |
| 16  | Ashlan Ave – SR 99 SB Ramps/Parkway Dr                  | TR MM#7, TR MM#8 - Add second northbound right-turn lane.  | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans  | TR MM#7, TR MM#8 - Caltrans  | TR MM#7, TR MM#8 - MOU with Caltrans   |
| <b>SR 99 Realignment (Freeway)</b>                                      |   |  |  |  |  |
| -   | SR 99 SB, south of Clinton Ave to Olive Ave             | TR MM#2 - Add SB Auxillary lane  | TR MM#2 - <b>Implementing Party:</b> Caltrans<br><b>Monitoring/Reporting Party:</b> Caltrans   | TR MM#2: Caltrans  | TR MM#2: MOU with Caltrans   |
| <b>Fresno Area (South of Clinton) - Between McKinley Ave and SR 180</b> |   |  |  |  |  |
| <b>Intersections</b>  |   |  |  |  |  |
| 5   | W Olive Ave /SR 99 SB Ramps                             | TR MM#7, TR MM#8 - Widen southbound approach to provide additional left-turn lane.   | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor  | TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule | TR MM#7, TR MM#8 - Contract Requirements/Specifications                          |
| 6   | W Olive Ave /SR 99 NB Ramps                             | TR MM#7, TR MM#8 - Widen northbound approach to provide exclusive left-turn lane   | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor  | TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule | TR MM#7, TR MM#8 - Contract Requirements/Specifications                          |

HSR13-06 - EXECUTION VERSION

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|  |  | <b>Required Mitigations</b>   |   |   |   |
|--|--|---|---|---|---|
|  |  | <b>Related to Civil Construction<sup>2</sup></b>  | <b>Implementing Party and Monitoring/Reporting Party</b>  | <b>Implementation / Reporting Schedule</b>  | <b>Implementation Mechanism</b>   |
| 7  | W Olive Ave/N West Ave                               | TR MM#4 - Signalize intersection.   | TR MM#4 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor  | TR MM#4 - Prepare construction management plan/maintain weekly reporting schedule   | TR MM#4 - Contract Requirements/Specifications  |
| 10   | W Belmont Ave /SR 99 SB Ramps                        | TR MM#4 - Signalize intersection.   | TR MM#4 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor  | TR MM#4 - Prepare construction management plan/maintain weekly reporting schedule   | TR MM#4 - Contract Requirements/Specifications  |
| 11   | W Belmont Ave /SR 99 NB Ramps                        | TR MM#4 - Signalize intersection.   | TR MM#4 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor  | TR MM#4 - Prepare construction management plan/maintain weekly reporting schedule   | TR MM#4 - Contract Requirements/Specifications  |
| <b>Between McKinley Ave and SR 180 (Roadways)</b>            |  |   |   |   |   |
| -  | W Olive Ave, between SR 99 Ramps and N West Ave      | TR MM#11 - Add one lane in each direction.  | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor   | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule  | TR MM#11 - Contract Requirements/Specifications   |
| -  | W Belmont Ave, between N Arthur Ave and SR 99 Ramps  | TR MM#11 - Add one lane in each direction.  | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor   | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule  | TR MM#11 - Contract Requirements/Specifications   |
| <b>Fresno Station (Between SR 180 and SR 41)<sup>3</sup></b> |  |   |   |   |   |
| <b>Intersections</b>   |  |   |   |   |   |
| 7  | E St/Ventura Ave                                     | TR MM#4 - Signalize intersection (meets signal warrant by 2035).  | TR MM#4 - <b>Implementing Party:</b> Authority and Contractor (post-construction contractor)<br><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)                        | TR MM#4: Annual intersection LOS analysis. Installation of signal when warrant criteria are met.  | TR MM #4: MOU with City of Fresno   |
| 9  | Broadway Ave/Ventura Ave                             | Tulare Street Underpass Option:<br>TR MM#7, TR MM#8 - Widen the northbound approach to add one exclusive right-turn, one left-turn lane, and one through lane.<br>TR MM#3 - Modify signal phasing to provide protected left-turn phases for the northbound and southbound approaches.<br><br>Tulare Street Overpass Option:<br>TR MM#7, TR MM#8 - Widen the eastbound approach to add two exclusive left-turn lanes, two through lanes, and one exclusive right-turn lane.<br>TR MM#3 - Modify signal phasing to provide protected left-turn phases for the northbound and southbound approaches. | TR MM#3 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor<br><br>TR MM#7, TR MM#8 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor | TR MM#3 - Prepare construction management plan/maintain weekly reporting schedule<br><br>TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule | TR MM#3 - Contract Requirements/Specifications<br><br>TR MM#7, TR MM#8 - Contract Requirements/Specifications |
| 23   | F St/Tulare St (Tulare Street Underpass Option only) | TR MM#7, TR MM#8 - Widen the northbound approach to provide one exclusive left-turn and one shared through/right-turn lane.<br>TR MM#7, TR MM#8 - Widen the southbound approaches to provide one exclusive left-turn lane, and one shared through/right-turn lane.<br>TR MM#7, TR MM#8 - Widen the westbound approach to provide one exclusive right-turn lane, one exclusive left-turn lane, and one through lane.<br>TR MM#3 - Modify signal phasing to provide protected left-turn phases for all approaches.  | TR MM#3 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor<br><br>TR MM#7, TR MM#8 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor | TR MM#3 - Prepare construction management plan/maintain weekly reporting schedule<br><br>TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule | TR MM#3 - Contract Requirements/Specifications<br><br>TR MM#7, TR MM#8 - Contract Requirements/Specifications |

HSR13-06 - EXECUTION VERSION

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|    |   | <b>Required Mitigations</b>   |  |   |  |
|----|---|---|--|---|--|
|    |   | <b>Related to Civil Construction<sup>2</sup></b>  | <b>Implementing Party and Monitoring/Reporting Party</b>   | <b>Implementation / Reporting Schedule</b>  | <b>Implementation Mechanism</b>  |
| 25 | H St/Tulare St<br>(Tulare Street Underpass Option only)             | <p><b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide one exclusive right-turn lane, one exclusive left-turn lane, and two through lanes.</p> <p><b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide one exclusive right-turn lane, one exclusive left-turn lanes, and two through lanes.</p> <p><b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide one exclusive right-turn lane, one exclusive left-turn lane, and two through lanes.</p> <p><b>TR MM#3</b> - Modify signal phasing to provide protected left-turn phases for all approaches.</p> | <p><b>TR MM#3 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule</p> <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>                | <p><b>TR MM#3</b> - Contract Requirements/Specifications</p> <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p> |
| 50 | Van Ness Ave/Tuolumne St  | <p><b>TR MM#7, TR MM#8</b> - Widen eastbound approach to provide one exclusive left-turn lane, one through lane and one exclusive right-turn lane</p>   | <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>  |
| 52 | E St/Stanislaus St<br>(Tulare Street Overpass Option only)          | <p><b>TR MM#5, TR MM#8</b> - Restripe the westbound approach to provide one shared left/through lane, two through lanes, and one shared through/right-turn lane.</p> <p><b>TR MM#5, TR MM#8</b> - Restripe the southbound approach to provide one shared left/through lane and one exclusive right-turn lane.</p> <p><b>TR MM#3</b> - Modify signal phasing to provide split phasing on eastbound and westbound approaches.</p>   | <p><b>TR MM#3 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> <p><b>TR MM#5, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule</p> <p><b>TR MM#5, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>                | <p><b>TR MM#3</b> - Contract Requirements/Specifications</p> <p><b>TR MM#5, TR MM#8</b> - Contract Requirements/Specifications</p> |
| 53 | Broadway St/Stanislaus St<br>(Tulare Street Overpass Option only)   | <p><b>TR MM#5, TR MM#8</b> - Restripe the southbound approach to provide shared left/through lane and one exclusive right-turn lane.</p> <p><b>TR MM#3</b> - Modify signal phasing to provide permissive phase on northbound and southbound approaches.</p>   | <p><b>TR MM#3 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> <p><b>TR MM#5, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule</p> <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>                | <p><b>TR MM#3</b> - Contract Requirements/Specifications</p> <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p> |
| 54 | Van Ness Ave/Stanislaus St<br>(Tulare Street Underpass Option only) | <p><b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide one exclusive left-turn lane, one through lane and one shared through/right-turn lane</p>  | <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>  |
| 58 | H St/San Joaquin St   | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant after 2035).</p>   | <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p>  | <p><b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p>  | <p><b>TR MM #4:</b> MOU with City of Fresno</p>  |
| 60 | H St/Amador St  | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035).</p> <p><b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide one exclusive left-turn lane and one through lane.</p>   | <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> | <p><b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p> <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p> | <p><b>TR MM #4:</b> MOU with City of Fresno</p> <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>              |

HSR13-06 - EXECUTION VERSION

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|    |   | <b>Required Mitigations</b>  |   |   |  |
|----|---|--|---|---|--|
|    |   | <b>Related to Civil Construction<sup>2</sup></b>   | <b>Implementing Party and Monitoring/Reporting Party</b>  | <b>Implementation / Reporting Schedule</b>  | <b>Implementation Mechanism</b>  |
| 63 | H Street/Divisadero Street                            | <p><b>TR MM#5, TR MM#8</b> - Restripe the westbound approach to provide one shared through/right/left-turn lane and two exclusive right-turn lanes.</p> <p><b>TR MM#7, TR MM#8</b> - Widen the northbound approach to provide two exclusive left-turn lanes and one shared through/right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen the southbound approach to provide additional left-turn lane (on H St).</p>   | <p><b>TR MM#5, TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#5, TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p> | <p><b>TR MM#5, TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p> |
| 67 | H St/Roosevelt St                                     | <p><b>TR MM#7, TR MM#8</b> - Widen the westbound approach (H St) to provide one shared through/right-turn lane, one exclusive through lane, and one exclusive left-turn lane.</p>  | <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>  | <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>          | <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>          |
| 81 | Broadway St/Amador St                                 | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035).</p>   | <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p> | <p><b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p>    | <p><b>TR MM #4:</b> MOU with City of Fresno</p>                                |
| 83 | Fresno St/F St  | <p>Tulare Street Underpass Option:</p> <p><b>TR MM#5, TR MM#8</b> - Restripe the northbound approach to provide one exclusive left-turn lane, one exclusive through lane, and one shared through/right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen the westbound approach to provide one exclusive left turn lane, two through lanes, and one exclusive right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen the eastbound approach to provide two exclusive left-turn lanes, one through lane, and one shared through/right-turn lane.</p> <p>Tulare Street Overpass Option:</p> <p><b>TR MM#5, TR MM#8</b> - Restripe the northbound approach to provide one exclusive left-turn lane, one exclusive through lane, and one shared through/right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen the westbound approach to provide one exclusive left turn lane, one through lane, one share through/right-turn lane, and one exclusive right-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen the eastbound approach to provide two exclusive left-turn lanes, one through lane, and one shared through/right-turn lane.</p> | <p><b>TR MM#5, TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#5, TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p> | <p><b>TR MM#5, TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p> |
| 84 | G St/Mono St<br>(Tulare Street Underpass Option only) | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035).</p>   | <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p> | <p><b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p>    | <p><b>TR MM #4:</b> MOU with City of Fresno</p>                                |
| 86 | H St/Ventura St (Tulare St Underpass Option Only)     | <p><b>TR MM#4</b> - Signalize intersection.</p>  | <p><b>TR MM#4 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#4:</b> Prepare construction management plan/maintain weekly reporting schedule</p>                    | <p><b>TR MM #4:</b> Contract Requirements/Specifications</p>                   |

HSR13-06 - EXECUTION VERSION

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|     |  | <b>Required Mitigations</b>  |  |   |  |
|-----|--|--|--|---|--|
|     |  | <b>Related to Civil Construction<sup>2</sup></b>   | <b>Implementing Party and Monitoring/Reporting Party</b>   | <b>Implementation / Reporting Schedule</b>  | <b>Implementation Mechanism</b>  |
| 92  | S Van Ness Ave/E California Ave                          | <p><b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035).</p> <p><b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide exclusive left-turn lane.</p> <p><b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide exclusive left-turn lane.</p> <p><b>TR MM#3</b> - Modify signal phasing on northbound and southbound approaches to provide protected plus permissive left-turn phasing.</p> | <p><b>TR MM#3 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> <p><b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)</p> <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> | <p><b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule</p> <p><b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.</p> <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p> | <p><b>TR MM#3</b> - Contract Requirements/Specifications</p> <p><b>TR MM #4:</b> MOU with City of Fresno</p> <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p> |
| 96  | Golden State Blvd/E Church Ave                           | <p><b>TR MM#7, TR MM#8</b> - Provide an exclusive right-turn lane in the northbound direction.</p> <p><b>TR MM#3</b> - Modify signal phasing on all approaches to provide protected plus permissive left-turn phase.</p>   | <p><b>TR MM#3 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p> <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule</p> <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM#3</b> - Contract Requirements/Specifications</p> <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>   |
| 101 | S East Ave/Golden State Blvd                             | <p><b>TR MM#6</b> - Increase cycle length (in the PM Peak Hour only).</p>  | <p><b>TR MM#6 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>  | <p><b>TR MM#6</b> - Prepare construction management plan/maintain weekly reporting schedule</p>   | <p><b>TR MM#6</b> -Contract Requirements/Specifications</p>  |
| 102 | Golden State Blvd/E Jensen Ave                           | <p><b>TR MM#8</b> - Provide an exclusive right-turn lane for both northbound and southbound approaches.</p>  | <p><b>TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>  | <p><b>TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>   | <p><b>TR MM#8</b> - Contract Requirements/Specifications</p>   |
| 109 | Stanislaus St/F St                                       | <p>(Tulare Street Overpass Option only)</p> <p><b>TR MM#7, TR MM#8</b> - Widen the northbound approach to provide one exclusive left-turn lane and two exclusive right-turn lanes.</p>   | <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>  |
| 110 | Tuolumne St/F St<br>(Tulare Street Overpass Option only) | <p><b>TR MM#5, TR MM#8</b> - Restripe the eastbound approach to provide one exclusive left-turn lane, one shared left/through lane and one exclusive right-turn lane.</p>  | <p><b>TR MM#5, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#5, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM#5, TR MM#8</b> - Contract Requirements/Specifications</p>  |
| 113 | Stanislaus St/L St                                       | <p><b>TR MM#7, TR MM#8</b> - Widen the northbound approach to provide one exclusive left-turn lane and one shared through/right-turn lane.</p>   | <p><b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor</p> <p><b>Monitoring/Reporting Party:</b> Contractor</p>   | <p><b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule</p>  | <p><b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications</p>  |

HSR13-06 - EXECUTION VERSION

**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

|                 |   | Required Mitigations  |   |  |   |
|-----------------|---|---|---|--|---|
|                 |   | Related to Civil Construction <sup>2</sup>  | Implementing Party and Monitoring/Reporting Party   | Implementation / Reporting Schedule  | Implementation Mechanism                                |
| 115             | Stanislaus St/M St  | TR MM#7, TR MM#8 - Widen the southbound approach to provide one shared left/through lane and one exclusive right-turn lane.                       | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor | TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule | TR MM#7, TR MM#8 - Contract Requirements/Specifications |
| 117             | Stanislaus St/N St  | TR MM#7, TR MM#8 - Widen the westbound approach to provide one exclusive left turn lane, one through lane and one shared through/right-turn lane. | TR MM#7, TR MM#8 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor | TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule | TR MM#7, TR MM#8 - Contract Requirements/Specifications |
| <b>Roadways</b> |   |   |   |  |   |
| -               | H St<br>Between East Divisadero St and Stanislaus St  | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Stanislaus St<br>Between Broadway St and E St   | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Fresno St<br>Between G St and SR 99 NB Ramps  | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Van Ness Ave<br>Between Ventura Ave and SR 41 Ramps<br>(Tulare Street Overpass Option only) | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Stanislaus St<br>Between E St and F St<br>(Tulare Street Overpass Option only)              | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | F St<br>Between Stanislaus St and Tuolumne St<br>(Tulare Street Overpass Option only)       | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Stanislaus St<br>Between G St and H St<br>(Tulare Street Overpass Option only)              | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Stanislaus St<br>Between Broadway St and Fulton St  | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |
| -               | Stanislaus St<br>Between L St and M St<br>(Tulare Street Underpass Option only)             | TR MM#11 - Add one travel lane in each direction.   | TR MM#11 - <b>Implementing Party:</b> Contractor<br><b>Monitoring/Reporting Party:</b> Contractor         | TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule         | TR MM#11 - Contract Requirements/Specifications         |

HSR13-06 - EXECUTION VERSION

Notes:

- 1 This table specifies which Merced Fresno transportation mitigation measures in the MMRP are required to be implemented by the Contractor for CP1A and CP1B
- 2 Mitigation measures indicated under this category occur with the roadway modifications due to the proposed HST alignment
- 3 In the vicinity of Fresno Station, all locations are impacted under both Tulare Street Underpass and Overpass options, unless otherwise specified