

High Speed Rail

Interaction with State Highway System



Accomplishments and Challenges



Garth Fernandez

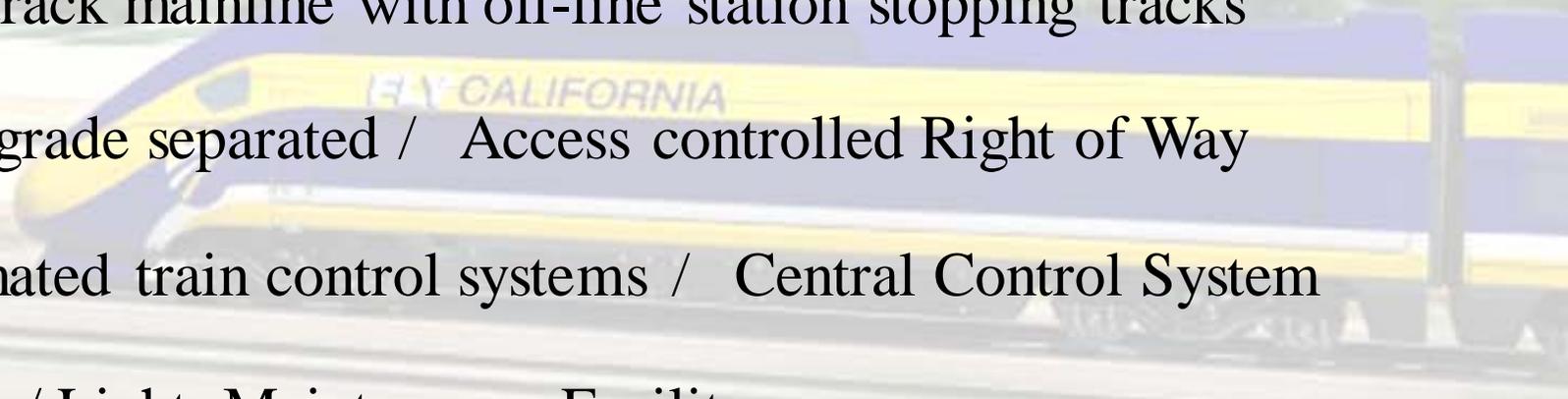
District 6

Transportation Planning Workshop

April 11, 2014

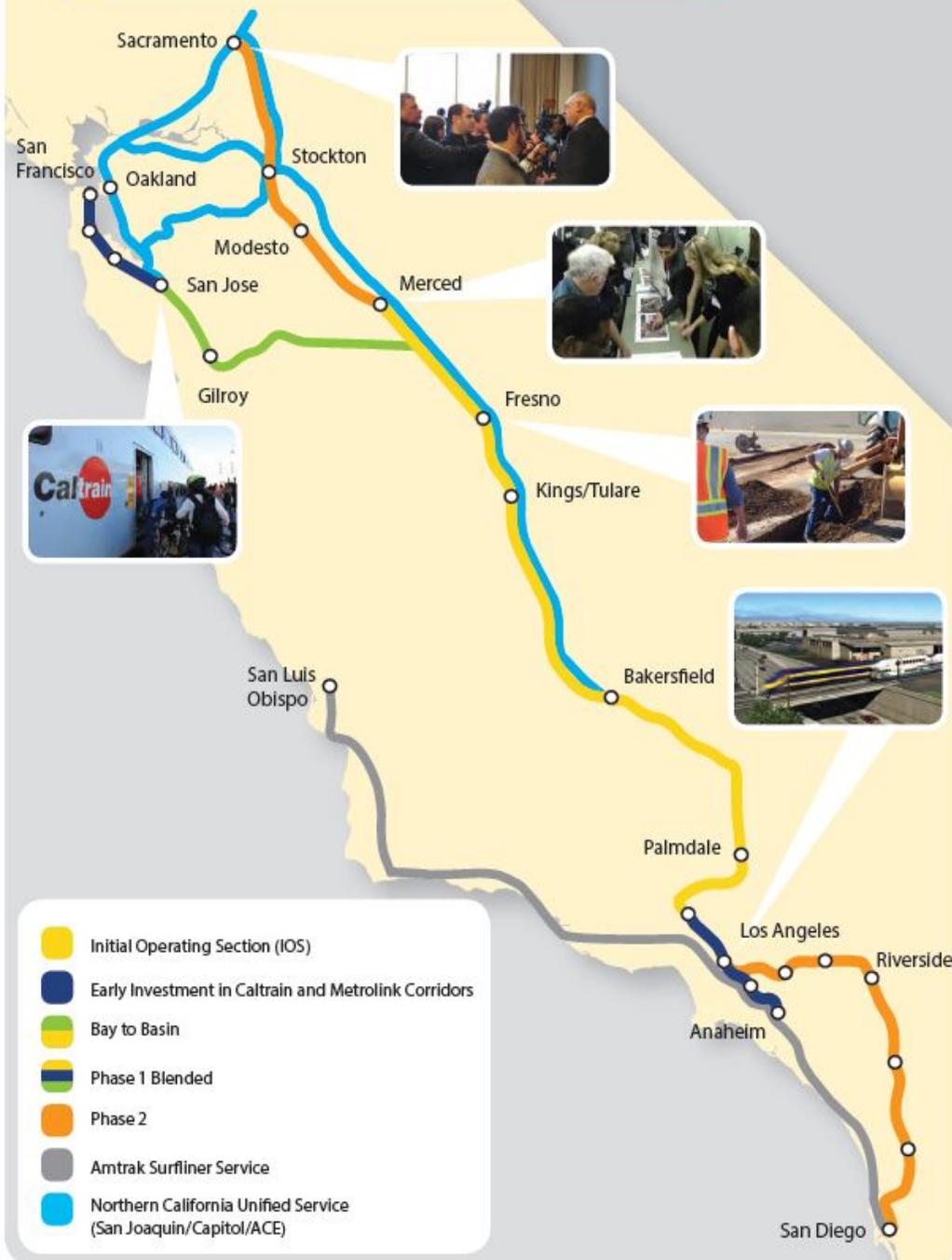
California's High Speed Train System

The Project

- 800- mile long High Speed Train System
 - Electrically propelled at speeds in excess of 200 mph
 - Dual track mainline with off-line station stopping tracks
 - Fully grade separated / Access controlled Right of Way
 - Automated train control systems / Central Control System
 - Heavy / Light Maintenance Facility
- 

HIGH-SPEED RAIL SYSTEM

High-Speed Rail: Connecting California



Initial Operating Section

Merced to San Fernando Valley
300 Miles - \$ 31 Billion (2022)

Bay to Basin

San Jose to San Fernando Valley
Upgraded Caltrain Corridor to San Francisco
410 Miles - \$ 51 Billion (2026)

Phase I Blended

San Francisco to Los Angeles/Anaheim
Metrolink corridor from LA to Anaheim
520 miles - \$ 68 Billion (2028)

Phase II - Sacramento and San Diego –
800 miles

California's High Speed Train System

Caltrans Involvement (District 6)

Oversight:

- Statewide Master Agreement (PID & PA&ED Phases - Nov 2009).
- Covers work only within State Highway System (SHS).
- CHSRA reimburses Department for all work.
- Resource needs identified yearly.
- Section Report required for each project segment.
- Project Report required for all locations within SHS.
- Encroachment Permit required for work within SHS.

Project Segments

- San Jose to Merced (Central Valley WYE)
- Merced to Fresno
- Fresno to Bakersfield
- Bakersfield to Palmdale

California's High Speed Train System

Oversight work

Segment	SHS Locations (District 6) *	Capital Cost
San Jose to Merced (Central Valley WYE)	16	\$250-\$350M
Merced to Fresno	9	\$250-\$300M
Fresno to Bakersfield	26	\$150-\$200M
Bakersfield to Palmdale	12	\$150-\$250M

* - Final number will depend on alternative selected

San Jose to Merced (06-1HT00_)

(Central Valley WYE)

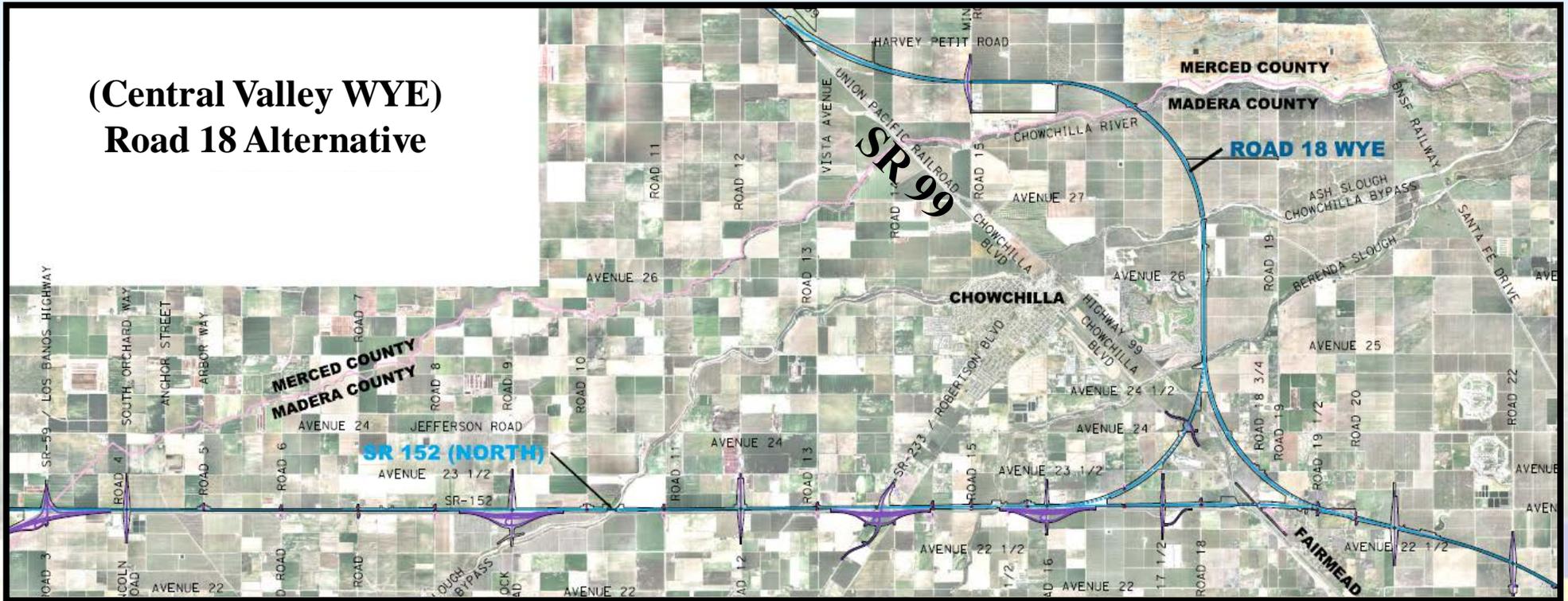
Interaction with SHS

Alternative parallel to SR 152

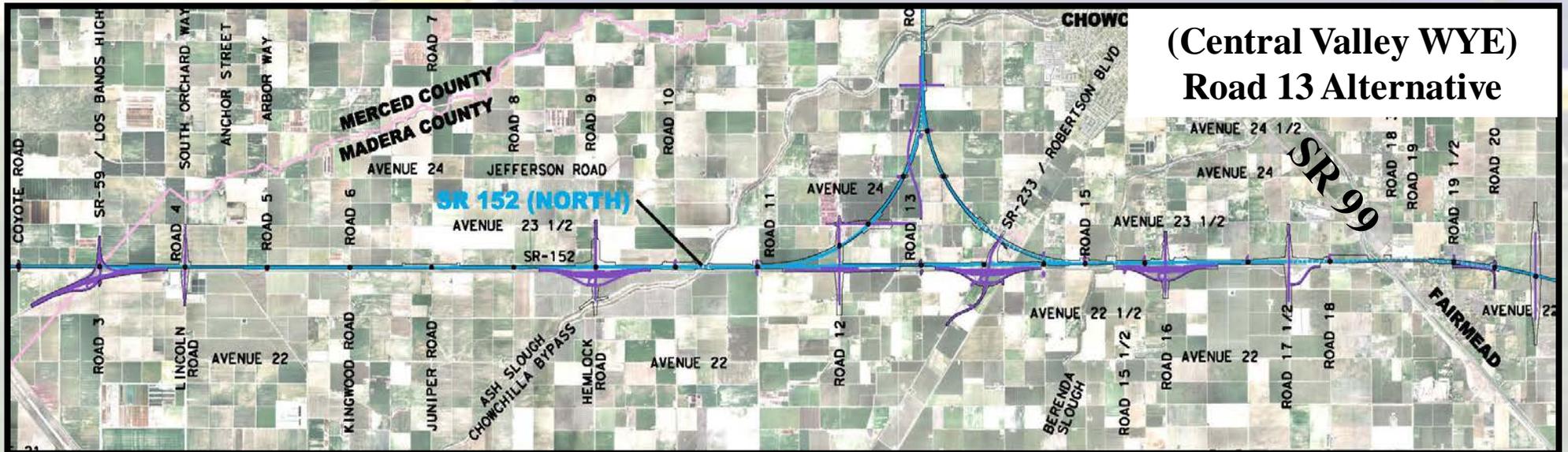
- Reconstruct Interchanges – SR 59 & SR 233
- New Interchanges - Road 9 & 16
- New Overcrossings / Undercrossing – Road 4, 12 & 17 ½
- Tunnel / Viaduct across SR 99
- Pump Plant
- Eliminate 8 Local Road at grade connections between SR 59 & SR 99.

San Jose to Merced (06-1HT00_)

(Central Valley WYE)
Road 18 Alternative



(Central Valley WYE)
Road 13 Alternative



San Jose to Merced (06-1HT00_)

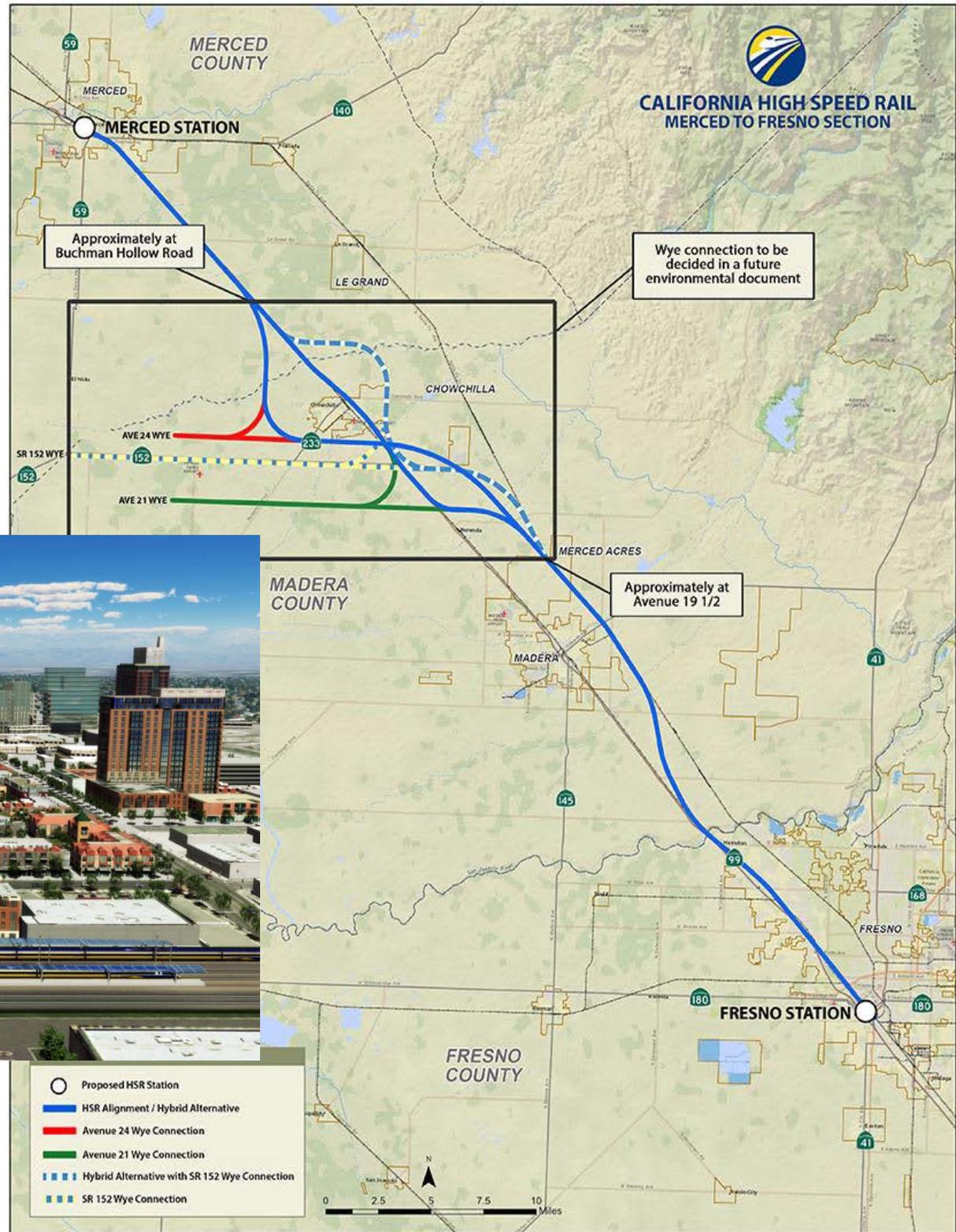
Accomplishments

- Section Report January 2012
- Draft 15 % plan review December 2013

Next Steps

- Draft EIR/EIS – December 2014
- Final EIR/EIS
- Project Report
- Modification of Freeway Agreement (After approval of ED)

Merced to Fresno



Merced to Fresno (06-2HT00_)

Interaction with SHS

- SR 145 Crossing.
- SR 99 NB Onramp at Herndon Avenue.
- SR 99 Realignment from Ashlan to Clinton Avenue.
- SR 99 NB Ramp Termini Improvements at McKinley.
- SR 99 Belmont Avenue Ramp Termini Improvements.
- SR 99 Olive Avenue Ramp Termini Improvements.
- SR 180 Crossing (Jacked Box).
- SR 99 Stanislaus & Tuolumne Ramp Termini Improvements.

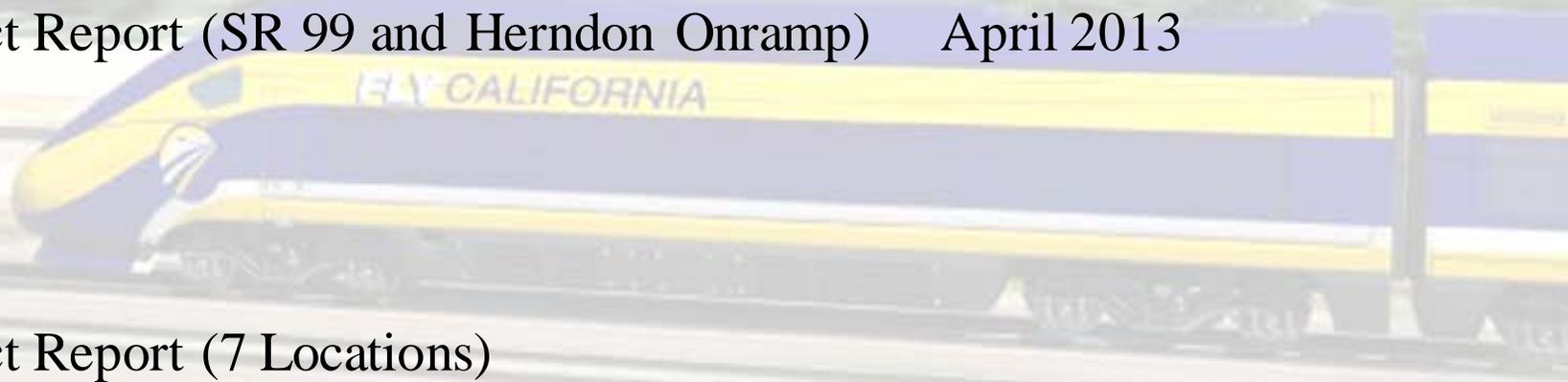
Merced to Fresno (06-2HT00_)

Accomplishments

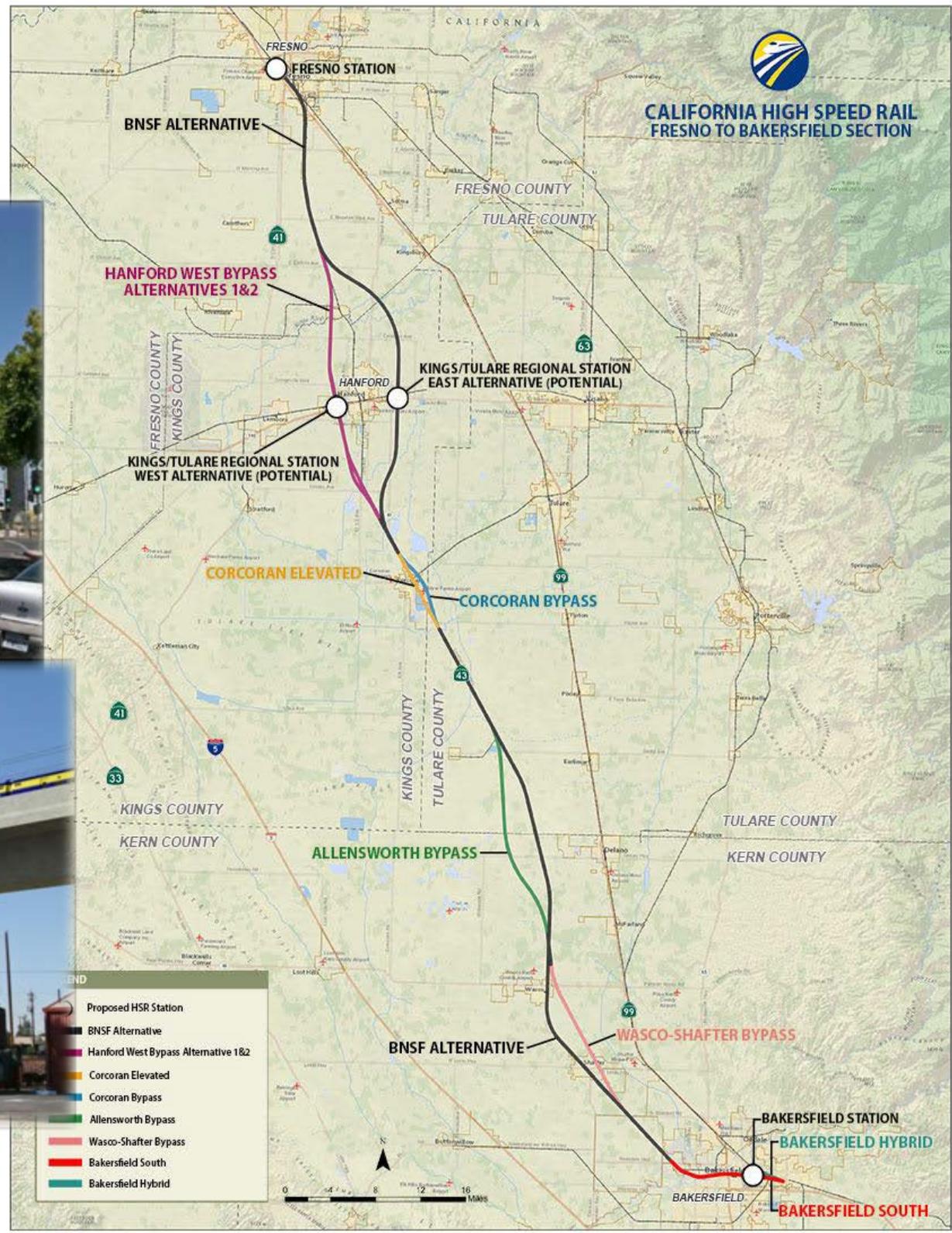
- Section Report October, 2010
- Draft 15 % plan review September, 2011
- Final EIR/EIS April 2012
- Project Report (SR 99 and Herndon Onramp) April 2013

Next Steps

- Project Report (7 Locations)



Fresno to Bakersfield



Fresno to Bakersfield (06-3HT00_)

Interaction with SHS

CP1 Contract

- SR 41 & 99 HST Crossing

CP2 & CP3 Contract

- SR 198, 137 & 43 (4 locations on SR 43) HST Crossing
- Pump Plants
- Local Street Overcrossings (5 Locations)
- New Access (5 locations) on SR 43

Subsequent Contract

- SR 43, 46, 58, 99 & 204 HST Crossing
- Local Street Overcrossings (3 Locations)

Fresno to Bakersfield (06-3HT00_)

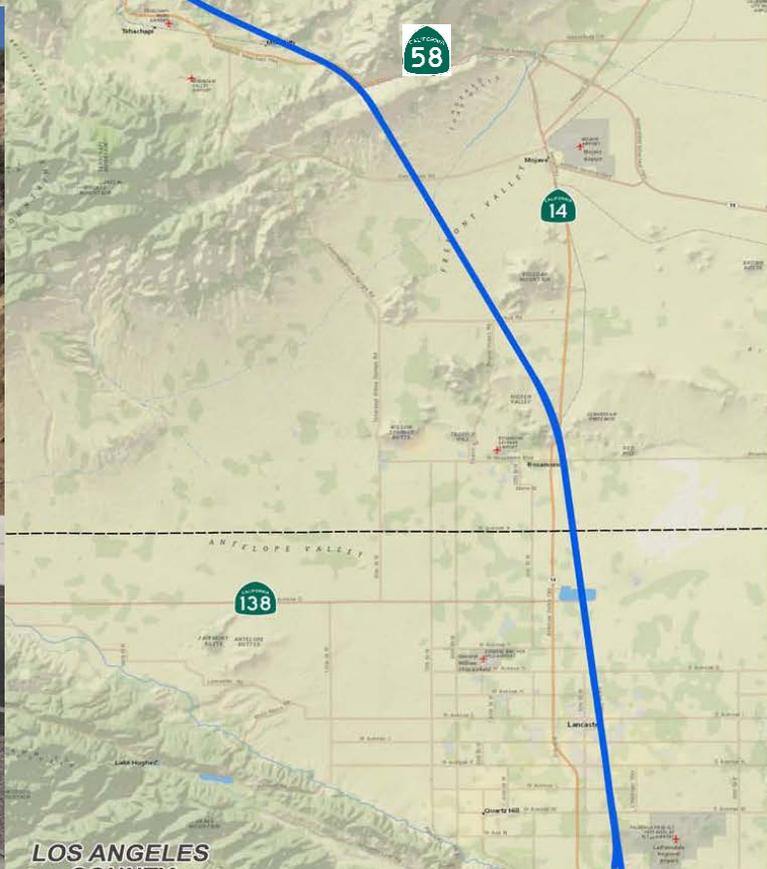
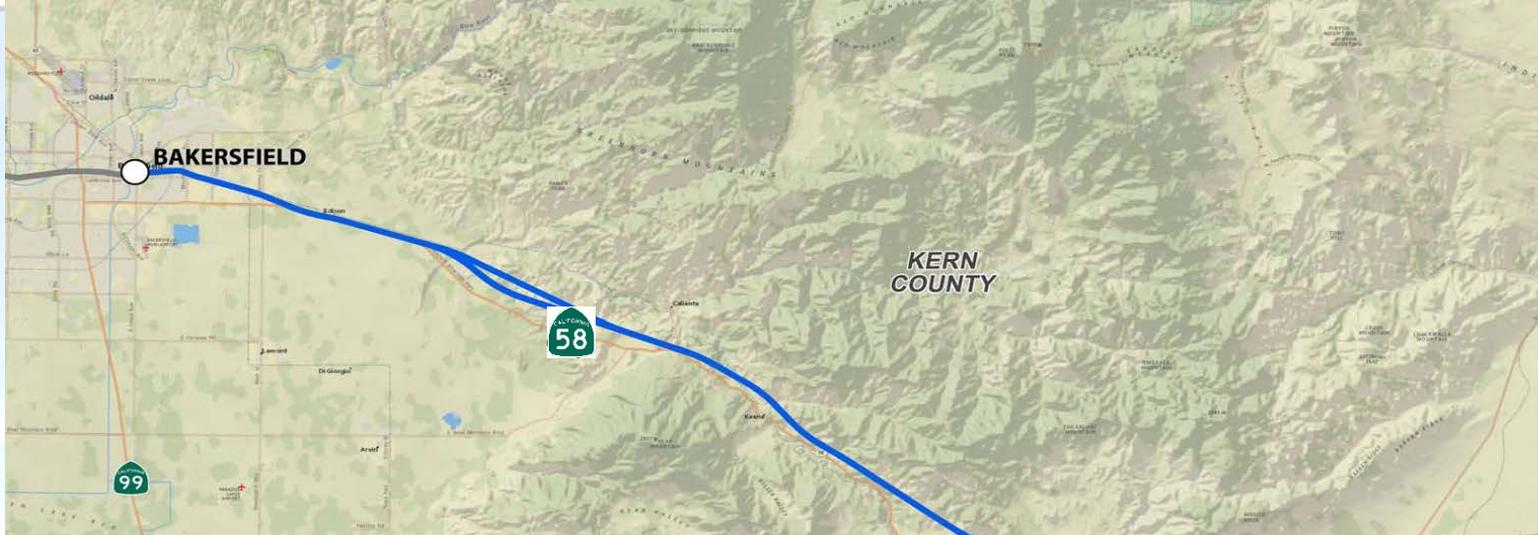
Accomplishments

- Section Report November 2010
- Draft EIR/EIS October 2012

Next Steps

- Final EIR/EIS May /June 2014
- Project Report for locations within CP1 contract
- Review and concur with concepts along SR 43
- Project Report for locations within CP2 & CP3

Palmdale to Bakersfield



Bakersfield to Palmdale (06-4HT00_)

Interaction with SHS

- 3 Modified Interchanges (SR 58 in the Vicinity of Edison)
- Local Street Overcrossings (5 Locations)
- HST Overhead at SR 14
- Emergency Access (3 Locations)

Accomplishments

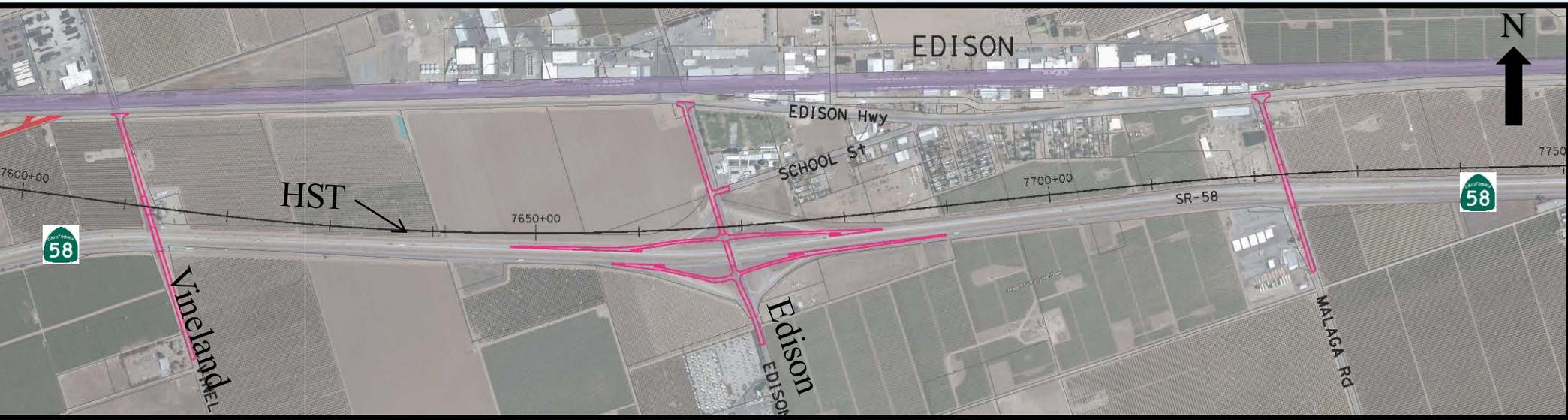
- Preliminary reviews of Route 58 concepts

Next Steps

- Section Report

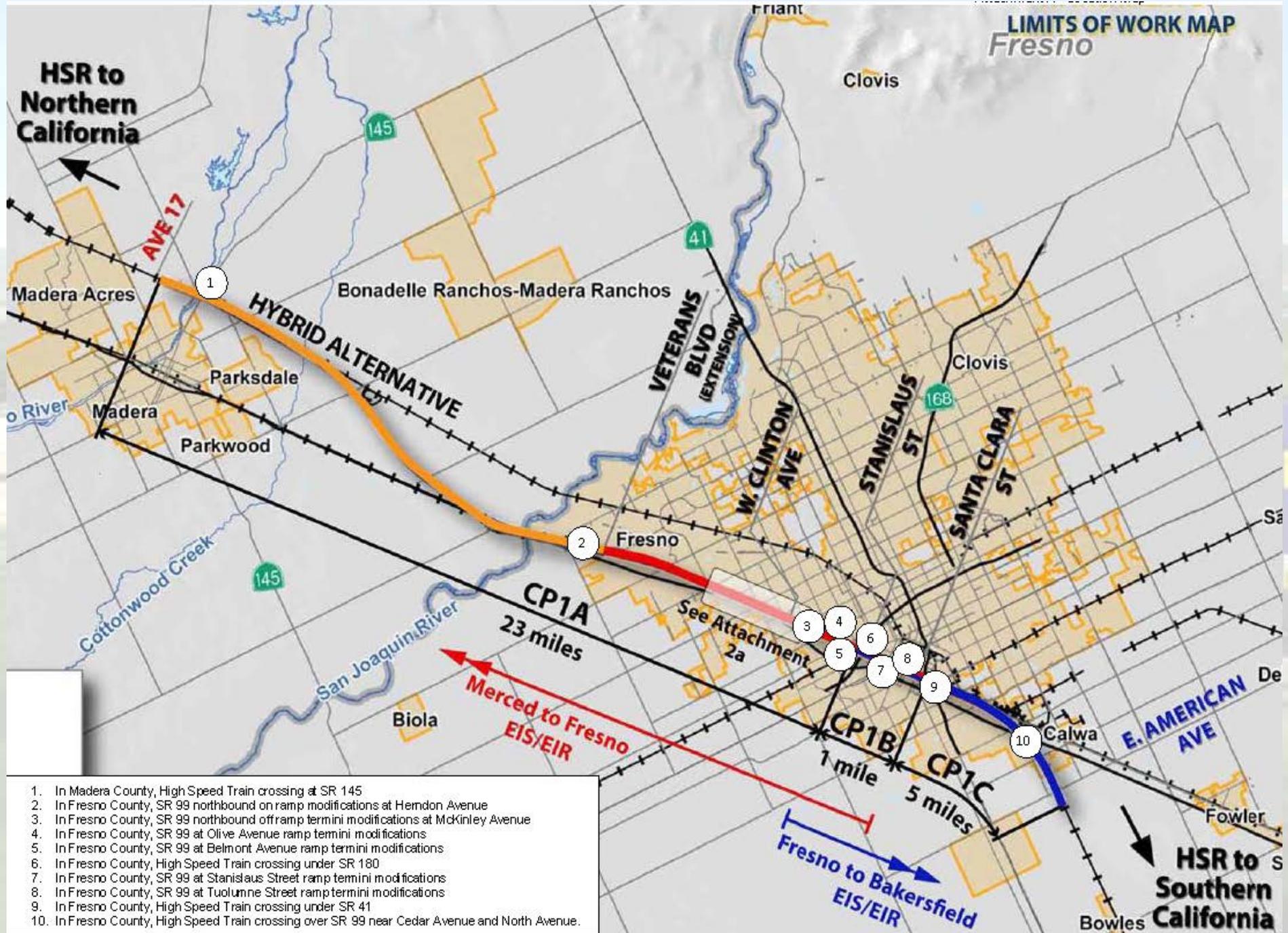
Interaction with SR 58 in the Vicinity of Edison)

Preliminary Concepts



Construction Package 1 (06-2HT01_)

Avenue 17 in Madera to American Avenue in Fresno



Construction Package 1 (06-2HT01_)

Total length – 29 miles

Construction Contract Value \$1 Billion Awarded to TPZP - June 2013

NTP3 – Work within Fresno to Bakersfield Segment ED

Interaction with SHS (9 Locations – approx. \$ 50-60 Million)

- High Speed Train crossing at SR 145 & SR 180
- SR 99 northbound on ramp modifications at Herndon Avenue
- SR 99 northbound off ramp termini modifications at McKinley Avenue
- SR 99 at Olive & Belmont Avenue ramp termini modifications
- SR 99 at Stanislaus & Tuolumne Street ramp termini modifications
- High Speed Train crossing at SR 41 & SR 99

Construction Package 1 (06-2HT01_)

Agreements

Negotiating agreement with CHSRA to provide IQA

- Master Agreement with CHSRA (Statewide)
- Interagency Agreement (Construction Package 1)

Next Steps

- Develop Design review process / Timelines for review
- Function specific meetings with CP1 contractor
- Review / approve R/W acquired for the Department
- Encroachment permit process
- Construction oversight

Construction Package 2-3

American Ave in Fresno to the
Tulare / Kern County Line

60 Miles

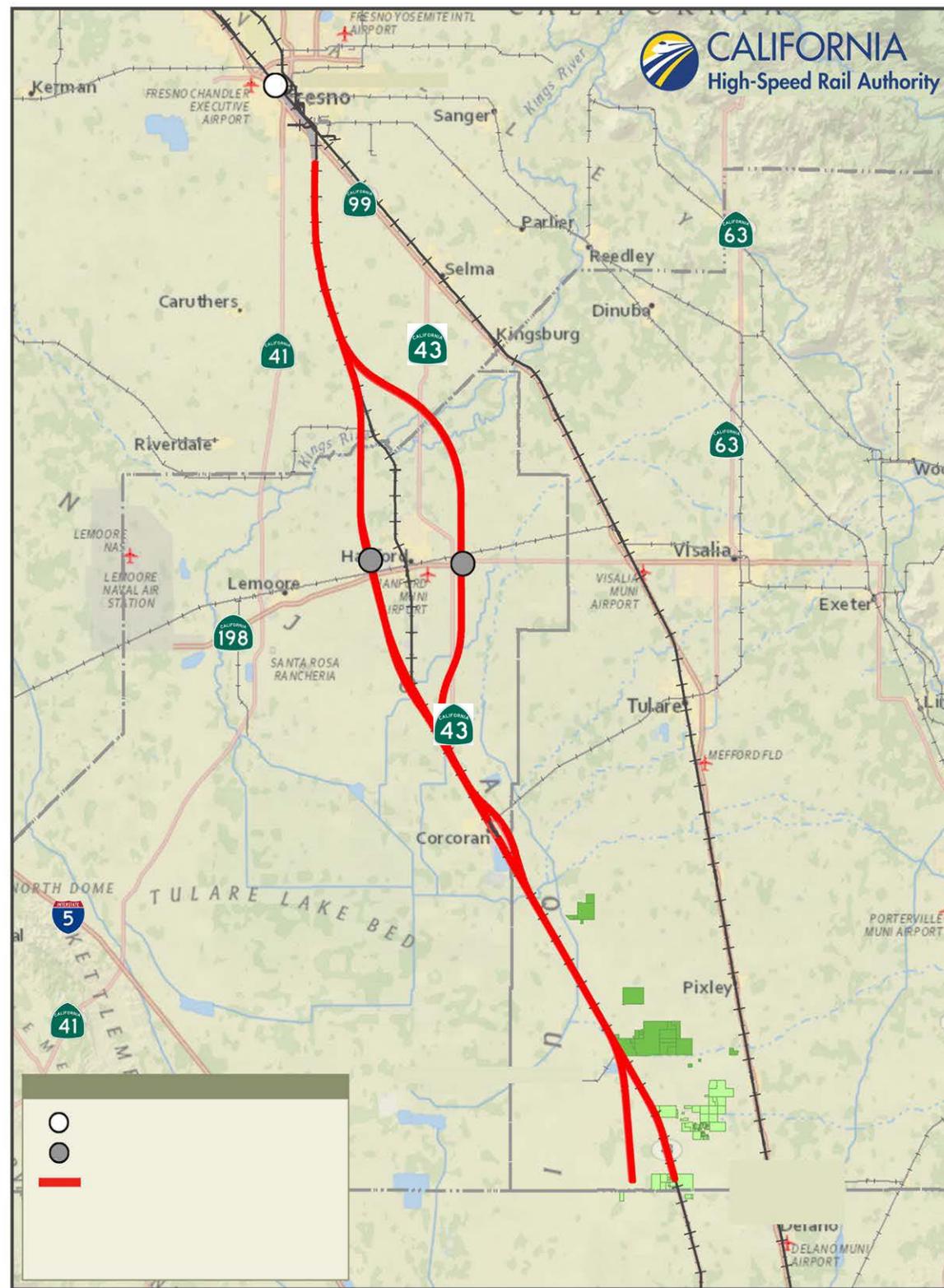
Const. Cost - \$ 1.5 to 2 Billion

RFQ Issued - October 9, 2013

SOQ Submitted - December 6, 2013

Interaction with SHS

- 6 HST Crossing
- Pump Plants
- Local Street OC (5 Locations)
- New Access (5 locations)



California's High Speed Train System

Caltrans Involvement (District 6)

Direct work:

HST/Fresno Street Separation Project – Completed

SR 99 Realignment (Clinton to Ashlan) – Ongoing

Potential other locations:

- Multiple HST crossings along SR 43
- SR 152 corridor improvements between SR 59 and SR 99
- SR 58 corridor improvements in the vicinity of Edison

HST/Fresno Street Separation Project

Direct work



Agreement Signed – March 2012.

\$ 1.6 Million – (Develop PS&E)

Delivered PS&E package - May 2012

Under budget.

Incorporated into CP1 Contract

Local Street UC

Multiple Structures

Retaining Walls - Profile Change

Pump Plant

Aesthetics

Traffic Handling



SR 99 Realignment

Interagency Agreement - Approved February 2013

- Total Contract Value \$225,900,000
- Approx 120 PY's reimbursed work.
- PS&E , R/W and Construction phases

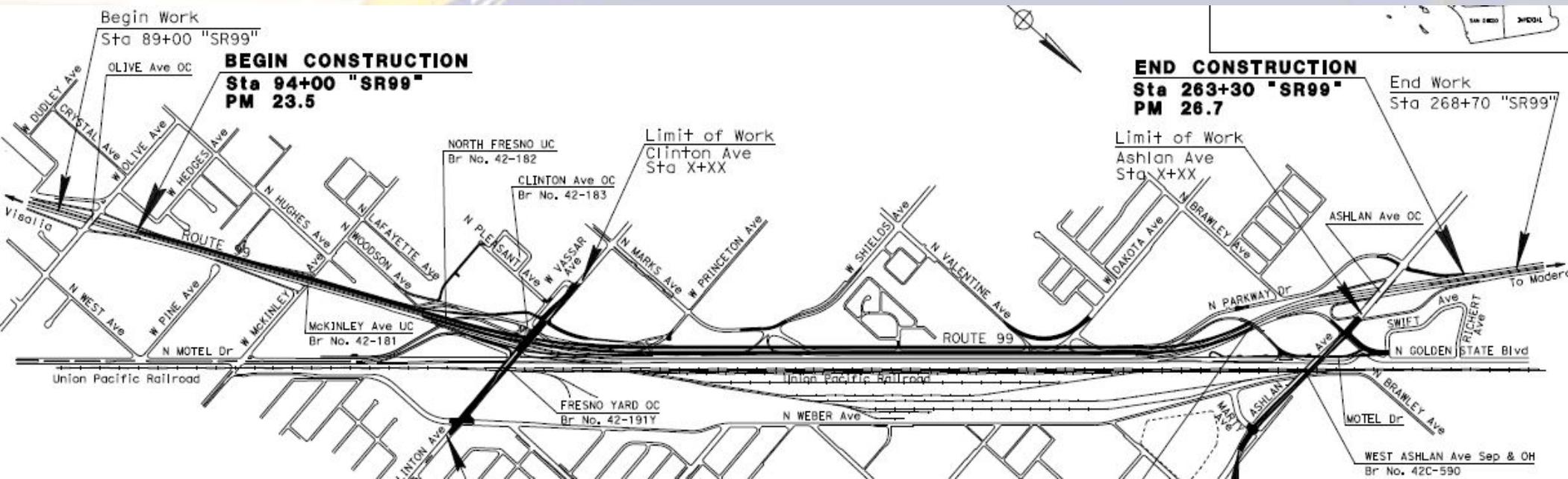
Major Milestones (Interagency Agreement commitment)

- PA&ED (M200) April 2013
- Build High Speed Train Infrastructure February 2018
- Contract Acceptance (M600) June 2018
- End Project (M800) June 2020

SR 99 Realignment

Scope of Work

- Realign SR 99 to the West incl. Auxiliary Lanes
- Reconstruct Clinton Ave Interchange
- Reconstruct Ashlan Ave OH
- Hazardous Waste and Noise Studies
- Construct HSRA infrastructure within project limits.
- Acquire Right of Way (including Condemnations)



SR 99 Realignment

Accomplishments

- 30 % plan review
- Modified Freeway agreement
- Public Information Meeting
- Bridge Type Selection (OC & OH)
- Stage construction concept
- Appraisal Maps to Right of Way
- Signed Contract (2 parcels) Full Take parcels
- Hazardous Waste / Noise Studies
- Initial utility relocation concepts
- Value Analysis
- HST Design Criteria overview Workshop

SR 99 Realignment

Challenges / Next Steps

- Property Appraisals / Acquisition
- 60% Design review
- Identification of additional easement needs (Utility)
- Aesthetic concept approval – City of Fresno
- Environmental Clearance for Design modifications
- CHSRA Design Variances Fact sheet approval
- Approval for clearance envelope (HST & UPRR)
- Geotechnical Drilling
- Contract Coordination with CHSRA (Incl. Billing)
- CP1 Contractor Coordination
- Construction Manager / General Contractor (CM/GC)

Questions

