



**CALIFORNIA**  
High-Speed Rail Authority

# **Connecting California: Fresno to Bakersfield Project Section Locally Generated Alternative**

**Diana Gomez, Central Valley Regional Director**

**Shafter Community Open House**

**August 25, 2016**

**Shafter Veterans Hall, Shafter California**



**DIANA GOMEZ**  
**CENTRAL VALLEY REGIONAL DIRECTOR**

**SCOTT HURLBERT**  
**SHAFTER CITY MANAGER**

# HIGH-SPEED RAIL: Connecting California



- **Phase 1:**
  - » 520 Miles
  - » San Francisco to Los Angeles/Anaheim
- **Phase 2:**
  - » Extends 300 Miles
  - » Connections to Sacramento & San Diego

# High-Speed Rail Benefits



## ***Increase Mobility***

Improve mobility in the face of growth – with the state's population estimated to reach 50 million by 2050.



## ***Needed Alternative***

Provide a more convenient and productive way to travel and new opportunities to collaborate on business.



## ***Better Air Quality***

Improve air quality – by shifting people from cars and planes to clean trains.



## ***Job Growth***

Stimulate job growth across the state – now with construction and long-term with maintenance and operations.

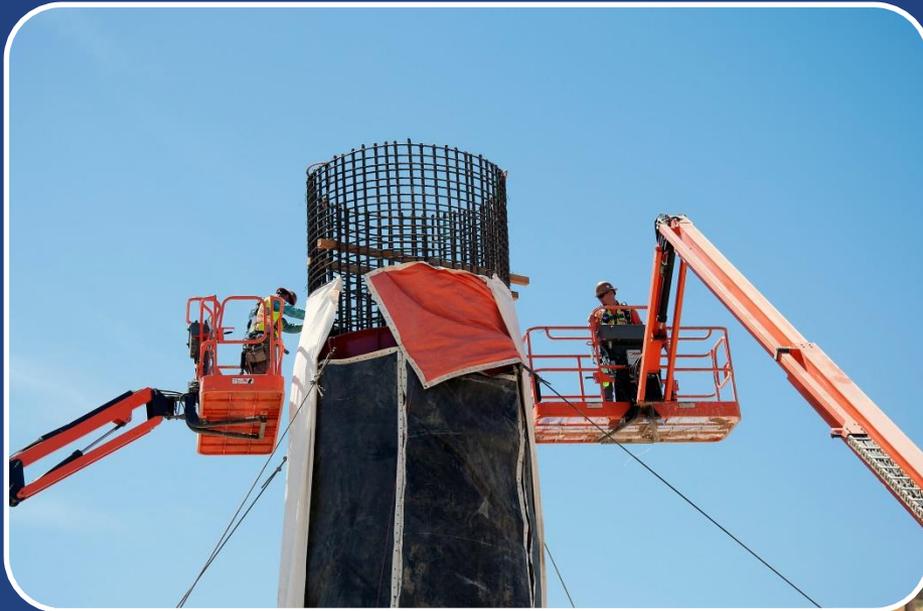
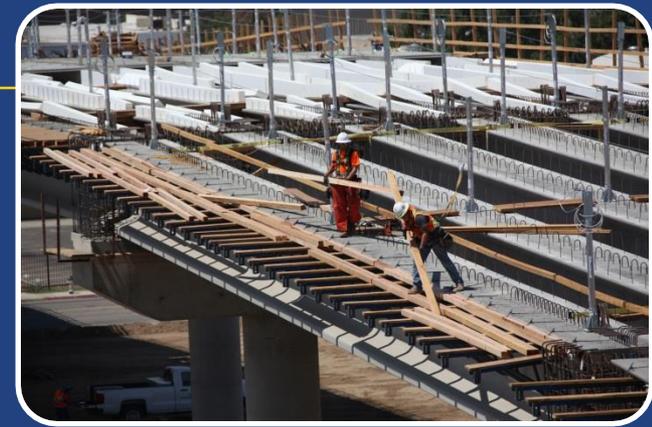
# CONNECTING CALIFORNIA: Central Valley Backbone

- **Construction Package 1: 32 Miles**
  - » Avenue 19 in Madera County to East American Avenue in Fresno County
  - » DB: Tutor Perini/Zachry/Parsons
  - » PCM: Wong+Harris
- **Construction Package 2-3: 65 Miles**
  - » East American Avenue in Fresno County to one-mile north of the Tulare-Kern county line
  - » DB: Dragados/Flatiron
  - » PCM: Arcadis
- **Construction Package 4: 22 Miles**
  - » One-mile north of the Tulare-Kern county line to Poplar Avenue
  - » DB: California Rail Builders
  - » PCM: HNTB



# IT'S HAPPENING!

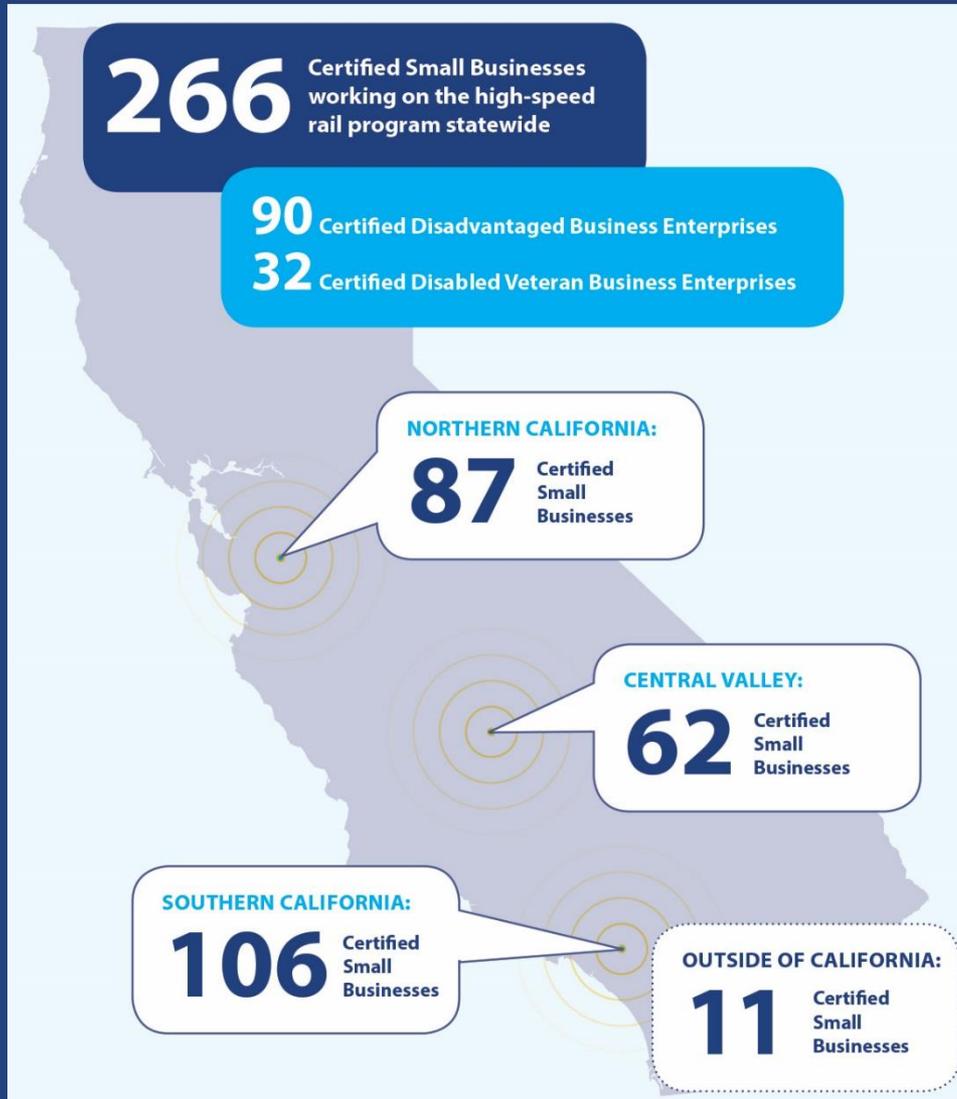
- Approximately 119 Miles
- Madera to North of Bakersfield
- Approximately \$3 Billion Investment



# SMALL BUSINESS PROGRAM

SMALL BUSINESS PARTICIPATION\*

AS OF MARCH 2016

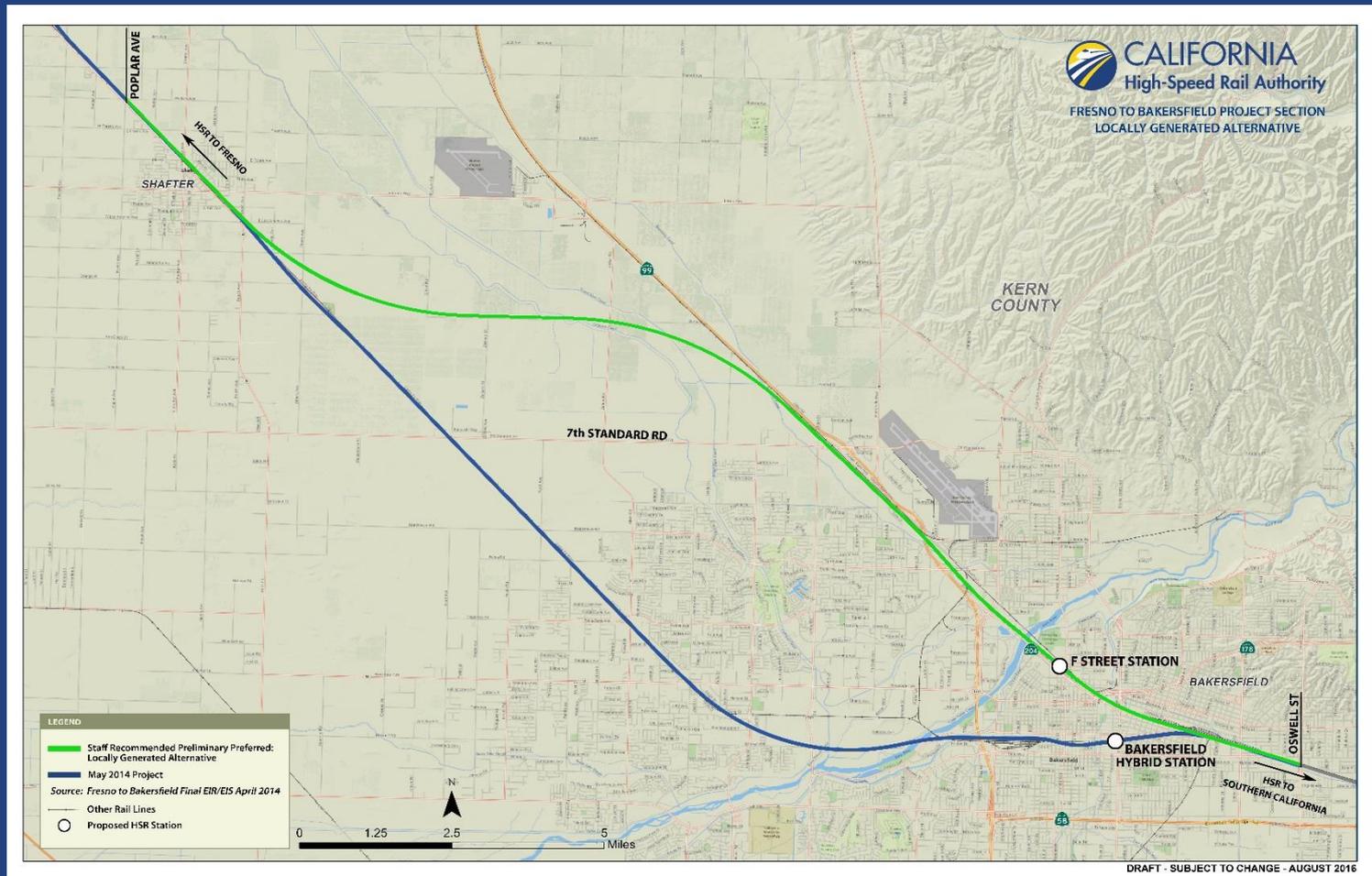


- **30% Goal for Small Business Participation**
  - » 10% Disadvantaged Business Enterprises (DBE)
  - » 3% Disabled Veteran Business Enterprises (DVBE)



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- 23-Mile Corridor
- Station at F Street and Golden State Avenue (SR-204)
- Parallels BNSF and UPRR Railroad Corridors



# FRESNO TO BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

---

- **May 2016 - Board identified the F-B LGA as the “Preliminary Preferred Alternative”**
  - » Preliminary assessment indicates:
    - Environmental: LGA less impact than Hybrid in many areas (e.g., protected waters), more impact in some areas (e.g., noise)
    - Cost: LGA appears to be less costly
    - Operations: LGA appears to offer slightly faster travel time
  - » The Board’s action was NOT an approval or tentative approval or adoption of this alternative.
  - » Provides public a more meaningful opportunity to review and comment on “Preliminary Preferred Alternative” prior to final decisions.

# FRESNO TO BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

---

**WHAT'S NEW?**

## **Potential Vertical Alignment Refinement**

- **Replace viaduct with retained fill through Shafter**
  - Proposed by City of Shafter
  - Grade separates HSR and BNSF from local roads
  - No significant cost difference between Viaduct and Retained Fill Options
- **Benefits**
  - Improved safety
  - Reduction in freight railroad noise
  - Improved traffic circulation
- **Does not affect May 2016 Board action**

# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- Central Avenue with Retained Fill



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- Central Avenue with Viaduct



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- Shafter Rail Depot with Retained Fill



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- Shafter Rail Depot with Viaduct



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- Walker Street with Retained Fill



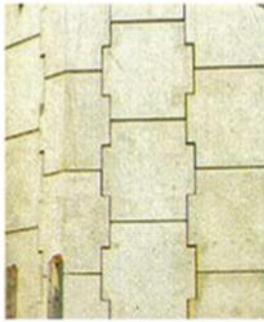
# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

- Walker Street with Viaduct



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

## • EXAMPLES: AESTHETIC TREATMENTS OF RETAINING WALLS



Exposed Aggregate Texture



Simulated Stone



Vertical Board-Format Concrete Texture



Smooth Concrete with Reveal Lines



Rectangular Panels in Horizontal Pattern



Fractured Granite



Smooth Concrete with Local Art Image

### Examples of Walls for Approach Structures

The pictures on the left show examples of retaining walls for approach structures similar to those that may be constructed by the Authority.

The images illustrate aesthetic treatments of retaining walls throughout the United States.

Whether MSE walls or conventional, cast-in-place concrete retaining walls are used, the following aesthetic principles should be considered:

- Coordinate the walls' appearance with adjacent aerial structures, bridges, and overpasses by introducing smooth transitions and cohesive detailing between the different structure types;
- Use similar design features throughout the region, particularly concrete finish, texture, and color ; and
- Use vertical surfaces as opportunities for local participation, including developing patterns or artistic themes based on local history, culture, or images

# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

---

## Potential Vertical Alignment Refinement at 7<sup>th</sup> Standard Rd.

- » Proposed by Kern County
  - » Raises 7<sup>th</sup> Standard over HSR, creating an interchange with SR-99
- 
- **Differences**
    - » Lower HSR profile at 7<sup>th</sup> Standard Road
    - » Reconstructs interchange

# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

## Potential Vertical Alignment Refinement at 7<sup>th</sup> Standard Rd.



# FRESNO-BAKERSFIELD LOCALLY GENERATED ALTERNATIVE

## Potential Vertical Alignment Refinement at 7<sup>th</sup> Standard Rd.

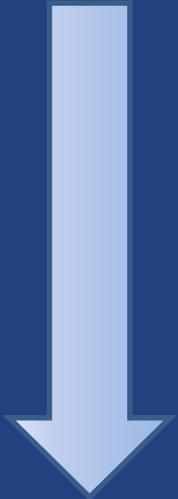


# JANUARY 2015 UNTIL NOW

- **Coordination with the Cities of Bakersfield and Shafter**
  - » 11 Technical Working Groups (TWG)
- **Stakeholder Meetings**
  - » More than 60 one-on-one meetings
- **Community Open Houses**
  - » City of Bakersfield, Aug. 25, 2015
  - » City of Shafter, Sept. 17, 2015
  - » Joint FRA Open House, Nov. 5, 2015
  - » City of Shafter, Aug. 25, 2016
- **Activity Center**
  - » Mercado Latino Tianguis
  - » San Joaquin Valley Contracting Procurement & Transportation Conference
  - » Shafter Farmers Market
- **Stakeholder Working Group**
  - » Sumner Street Businesses
  - » Oildale Community



# TIMELINE



- Ongoing Stakeholder Meetings
- Aug. 2015 -Aug. 2016 Community Open Houses
- Nov. 5, 2015 Joint Community Open House with Federal Railroad Administration (FRA)
- 2015 - 2016 Project-Level Supplemental Environmental Document
  - Detailed Technical Studies
  - Refined Route Design
- Fall 2016\* Draft Supplemental Environmental Document
- Winter 2016\* Final Supplemental Environmental Document

\* New refinements may impact schedule.

# STAY INVOLVED

---

**Diana Gomez**, Central California Regional Director  
(559) 445-5172 [diana.gomez@hsr.ca.gov](mailto:diana.gomez@hsr.ca.gov)

**Fresno to Bakersfield Locally Generated Alternative**  
(888) 481-2772 [fresno\\_Bakersfield@hsr.ca.gov](mailto:fresno_Bakersfield@hsr.ca.gov)

**Central California Regional Office**  
California High-Speed Rail Authority  
1401 Fulton Street, Suite 200  
Fresno, CA 93721  
[www.hsr.ca.gov](http://www.hsr.ca.gov)



[instagram.com/cahsra](https://www.instagram.com/cahsra)



[facebook.com/CaliforniaHighSpeedRail](https://www.facebook.com/CaliforniaHighSpeedRail)



[twitter.com/cahsra](https://twitter.com/cahsra)



[youtube.com/user/CAHighSpeedRail](https://www.youtube.com/user/CAHighSpeedRail)