



CALIFORNIA
High-Speed Rail Authority

California High-Speed Rail: Construction Update

Brian Kelly, Chief Executive Officer

Bill Casey, Chief Operating Officer

Central Valley Early Operating Segment 171 Miles

- Status
 - » 100% environmentally cleared
 - » 119 miles under construction
 - » 52 miles starting advanced design (pre-construction work)
- Goals
 - » Initial operations by 2030-2033
 - » Advance Track and Systems contracts in 2024
 - » Train procurement by 2024
 - » 30% station design for Merced, Fresno, Kings/Tulare and Bakersfield by 2024



Central Valley Update

Where We Are & Where We Are Going

Construction Management in 2024

- Completing project definition
 - » Executing major change orders to capture full project scope
Status Update: All major commercial issues identified in 2023 have been resolved, except for the Cross Creek Viaduct
- Completing right-of-way (ROW) acquisitions
 - » Improved ROW planning and management to exceed delivery forecasts
Status Update: 99% of parcels delivered to the Design-Builder. CP4 is 100% complete
- Advancing third-party relocation approvals
 - » Increased executive engagement and focused efforts to resolve issues impacting approvals
Status Update: Established new goal for 2024 to relocate 150 utilities. 81 of 150 (54%) utilities have been relocated so far
- Updating design and construction activities
 - » Working with Design-Build Contractors to re-sequence work and mitigate schedule impacts
Status Update: Revised Baseline Schedule (RBS) for CP1 accepted in October 2023 and continuing towards establishing the RBS for CP 2-3



Right-of-Way Status Update



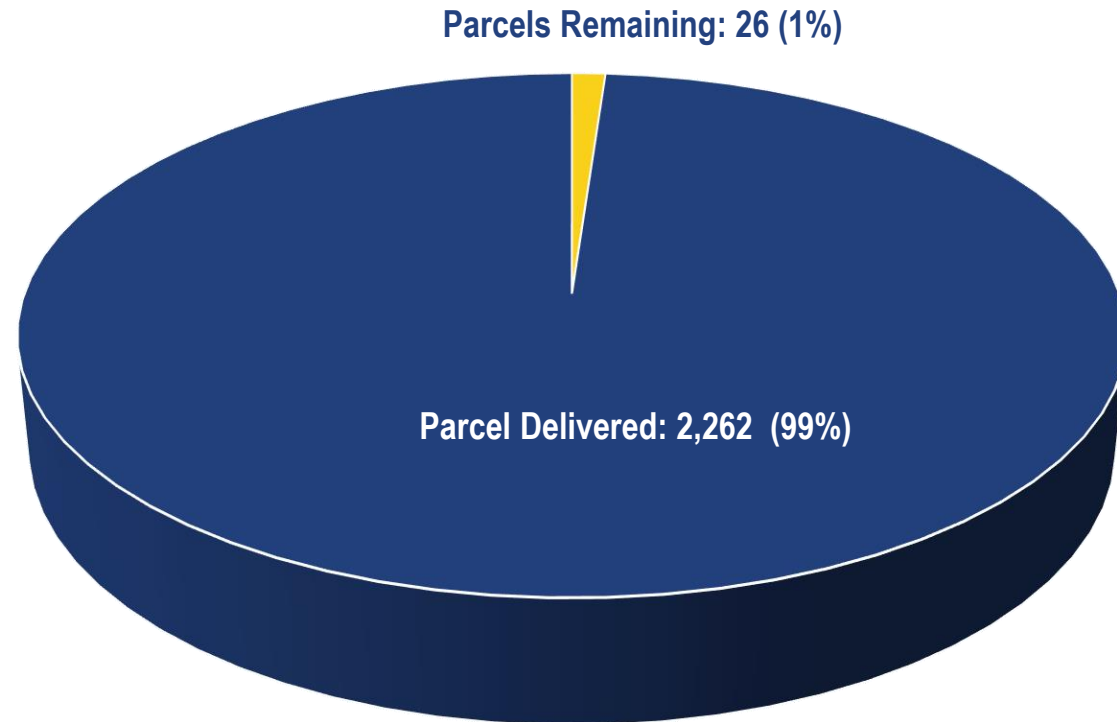
Central Valley Update

Central Valley Right of Way

2018 to 2024:

- 881 Parcels Delivered
- 26 Parcels Remaining

Parcels Required 2,288



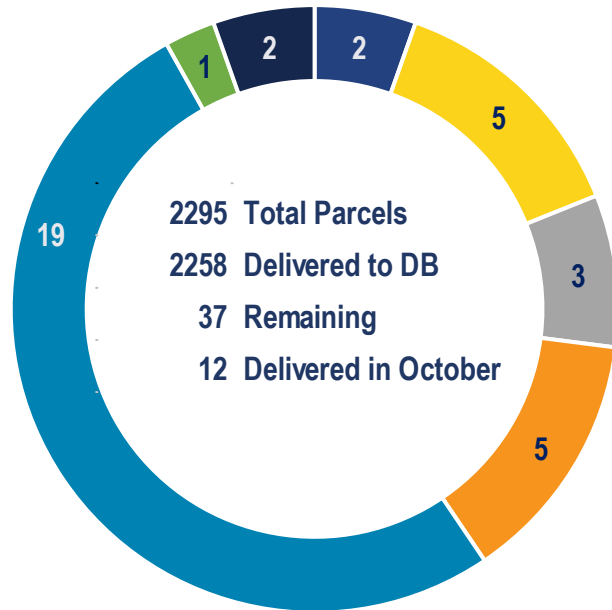
Data Date: 3/31/2024

Central Valley Update

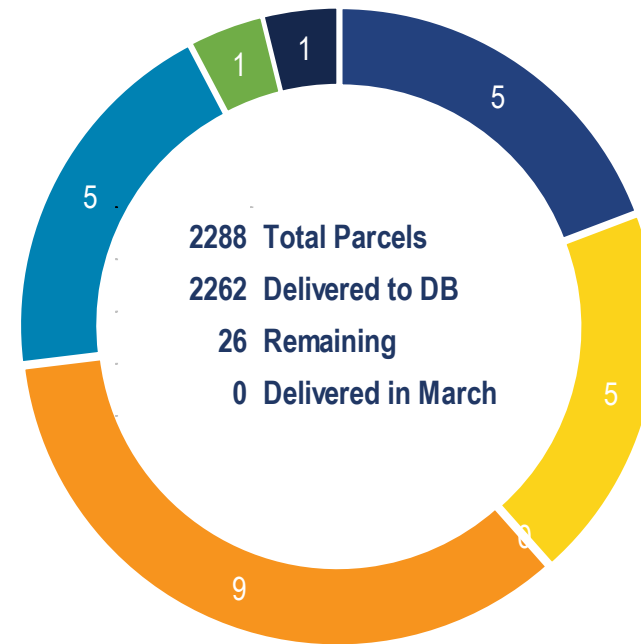
Central Valley Right of Way

Right of Way Production Graphs

October 31, 2023



March 31, 2024



- Parcels Pending RRL
- Final Mapping
- Task Order
- Appraisal Process
- Negotiation Process
- Negotiation Process - Condemnation
- Delivery Process



Construction Package 4



Central Valley Update

Construction Package 4



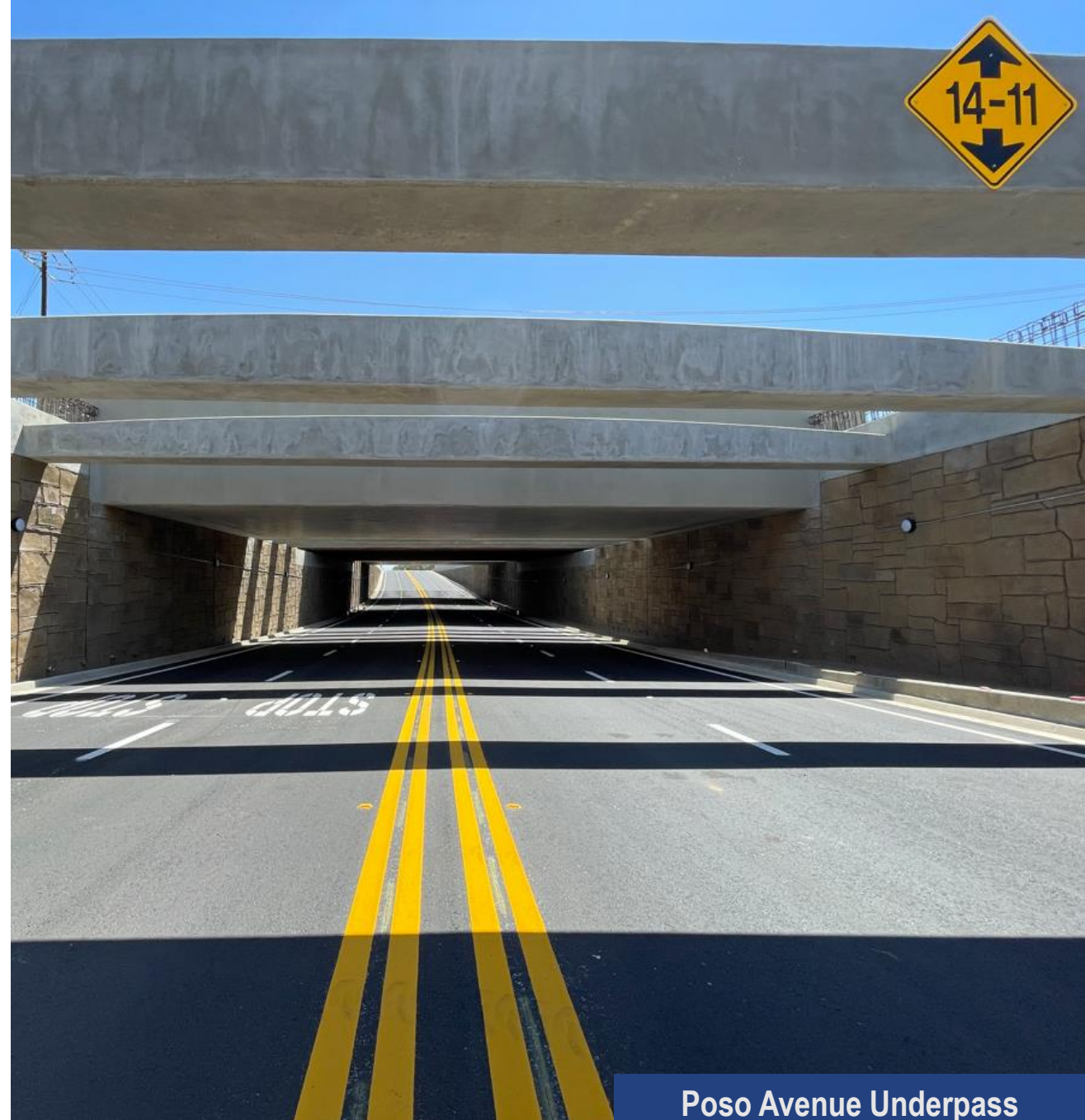
- Construction Package 4 (CP 4) is the southernmost construction package along the alignment
- 21.2-mile stretch bounded by a point approximately one mile north of the Tulare/Kern County Line at the terminus of Construction Package 2-3 and Poplar Avenue to the south
- Construction included 11 structures, as well as 21 miles of at-grade high-speed rail embankment
- **Substantial Completion achieved on January 8, 2024**

Central Valley Update

Construction Package 4

		CP 4
	Authority Approved Design Completed	100%
	Right-Of-Way Parcels Delivered to DB	100%
	Utility Relocation Complete/In-Progress	100%
	Structures Complete/In Progress	100%
	Miles of Guideway Complete/In Progress	100%
	Overall Contract	98%

Data Date: 3/31/2024



Poso Avenue Underpass

Central Valley Update

Construction Package 4

Remaining Risk

1. Only 400-feet of guideway remains in progress due to land conveyance issues related to Canal 9-22

Risk Mitigation Underway

1. The Authority, including the CEO and Board Chair, is engaged with the North Kern Water Storage District to find a resolution that will enable the completion of the 400-foot section of the guideway



Construction Package 1



Central Valley Update

Construction Package 1







Central Avenue Grade Separation



- Construction Package 1 (CP 1) is the first construction contract executed on the Initial Operating Section
- Extends 32-miles between Avenue 19 in Madera County to East American Avenue in Fresno County
- Includes 19 grade separations, 3 viaducts (a major river crossing over the San Joaquin River) and 2 trenches
- **Substantial Completion in 2026**

Central Valley Update

Construction Package 1

	CP 1
 Authority Approved Design Completed	100%
 Right-Of-Way Parcels Delivered to DB	99%
 Utility Relocation Complete/In-Progress	84%
 Structures Complete/In Progress	85%
 Miles of Guideway Complete/In Progress	63%
 Overall Contract	67%

Data Date: 3/31/2024



Tulare Street Underpass

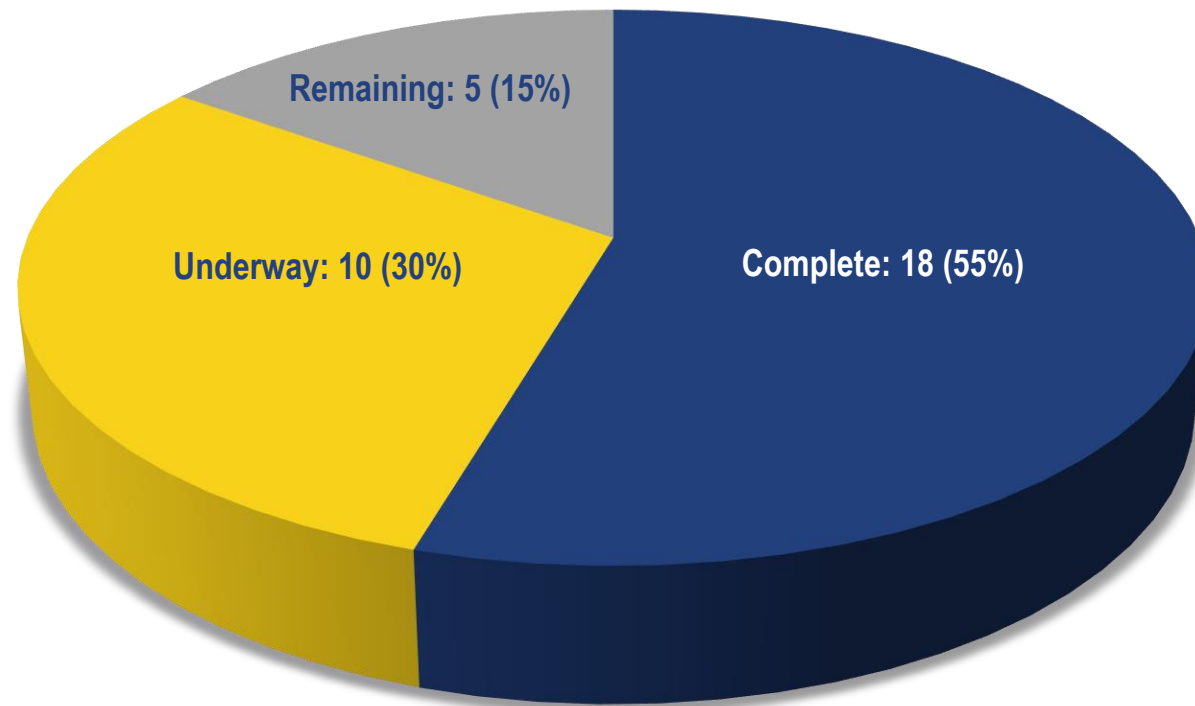
Central Valley Update

Construction Package 1

- **Number of Structures in Progress**

- » Total Structures: 33

- 1 structure (Road 26) began construction in 2024
- 4 remaining Structures will begin in 2025



Structure completion is defined as all concrete work complete
Data Date: 3/31/2024

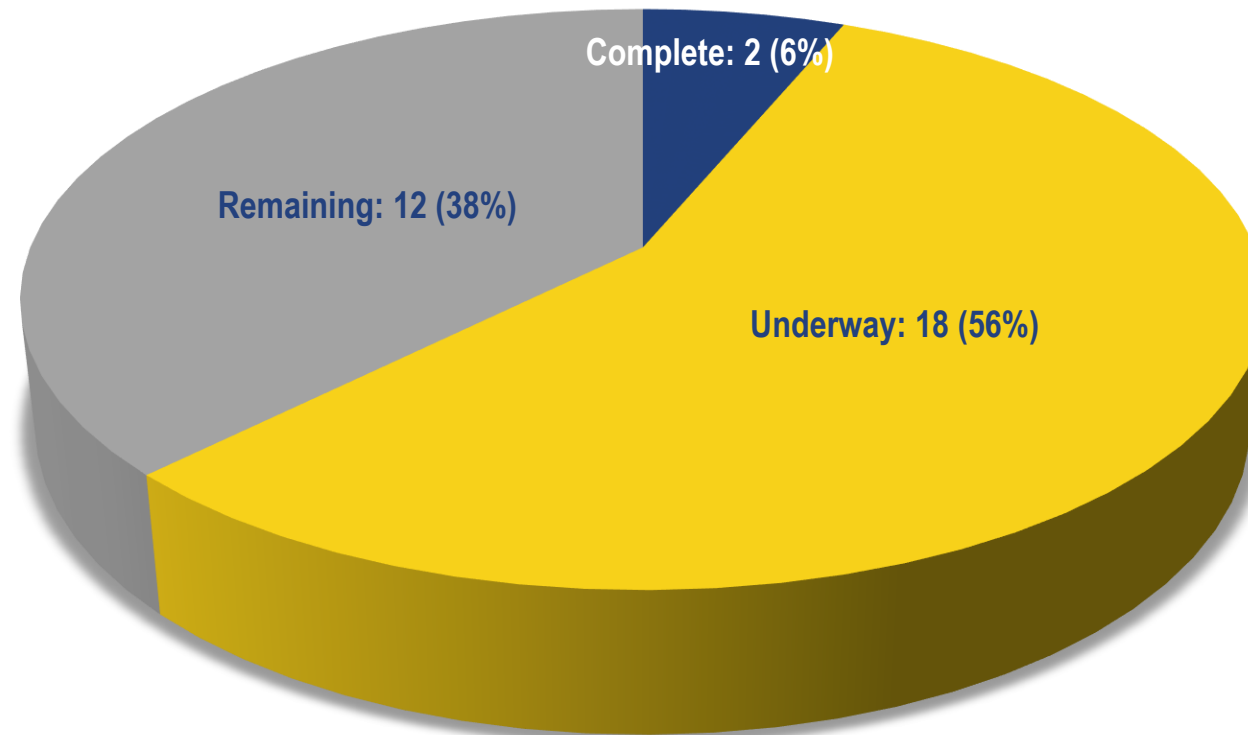
Central Valley Update

Construction Package 1

- Miles of Guideway in Progress

- » Total Guideway Miles: 32

- Guideway is the riding surface that will support and physically guide the high-speed train



Guideway completion is defined as earthworks complete with rough grading.

Data Date: 3/31/2024

Central Valley Update

Construction Package 1

Primary Risks

1. Delays with Union Pacific Railroad (UPRR) approvals of submittals (i.e., crossing applications, work plans, design packages)
2. Delays with City of Fresno approvals of submittals (i.e., traffic control plans, design approvals)

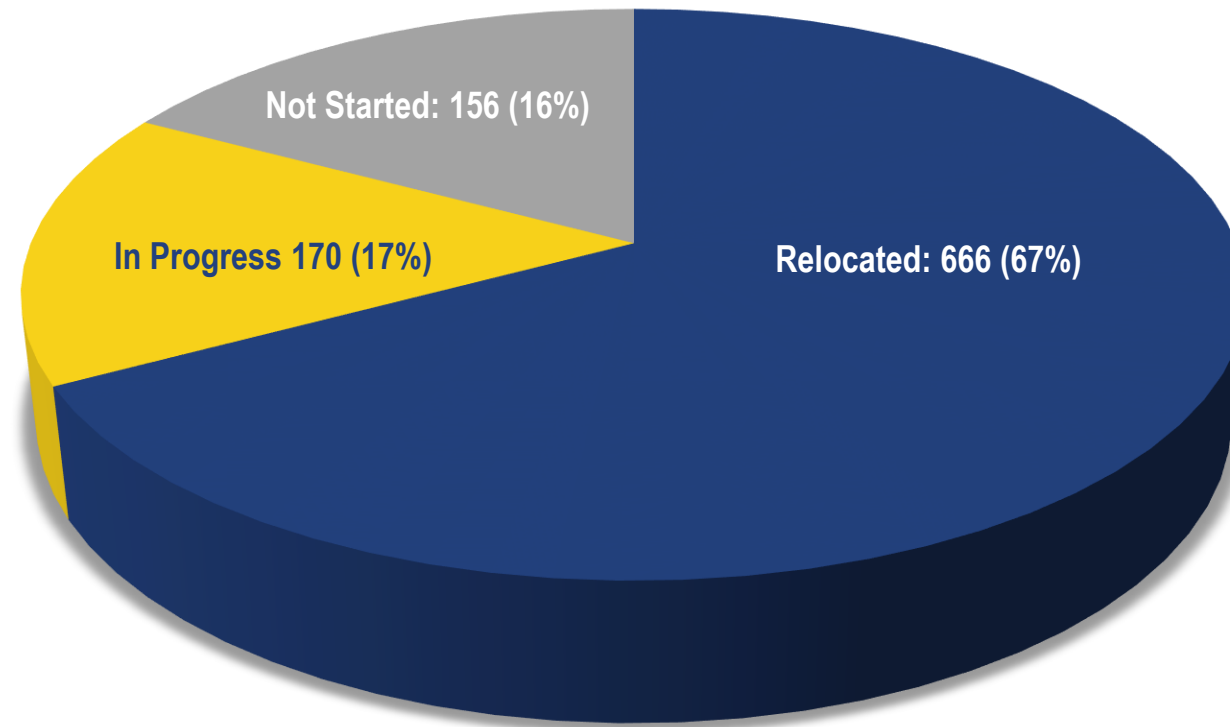
Risk Mitigations Underway

1. Continuous improvement of submittal quality and executive engagement with UPRR to enhance relationships, outline project priorities, and completion schedule
2. Focused meetings with the Authority, TPZP, UPRR and the City of Fresno to facilitate comment resolution to secure design approval
3. Continue conducting monthly partnering meetings with TPZP to identify and manage issues that present schedule risk

Central Valley Update

Construction Package 1

- High-Level Utility Summary
 - » Total of **992** Utilities Required



Data Date: 3/31/2024

Central Valley Update

Construction Package 1

Utility Relocation Summary by Utility Type

Utility Type	Status	Number	Percentage
Electric	Not Started	69	32%
	In Progress	12	6%
	Relocated	134	62%
	Total Electric Utilities	215	100%
Gas	Not Started	17	18%
	In Progress	26	29%
	Relocated	48	53%
	Total Gas Utilities	91	100%
Telecom	Not Started	32	8%
	In Progress	49	12%
	Relocated	334	80%
	Total Telecom Utilities	415	100%
Wet	Not Started	38	14%
	In Progress	83	31%
	Relocated	150	55%
	Total Wet Utilities	271	100%

Data Date: 3/31/2024



Construction Package 2-3



Central Valley Update



Construction Package 2-3



- Construction Package 2-3 is the second significant construction contract executed on the Initial Operating Section
- Extends 65 miles from the terminus of Construction Package 1 at East American Avenue in Fresno to one mile north of the Tulare-Kern County line
- Includes viaducts, underpasses and overpasses, and 26 grade separations in the counties of Fresno, Tulare and Kings
- **Substantial completion in 2026**

Central Valley Update

Construction Package 2-3

		CP 2-3
	Authority Approved Design Completed	100%
	Right-Of-Way Parcels Delivered to DB	99%
	Utility Relocation Complete/In-Progress	83%
	Structures Complete/In Progress	82%
	Miles of Guideway Complete/In Progress	77%
	Overall Contract	74%

Data Date: 3/31/2024



Hanford Viaduct

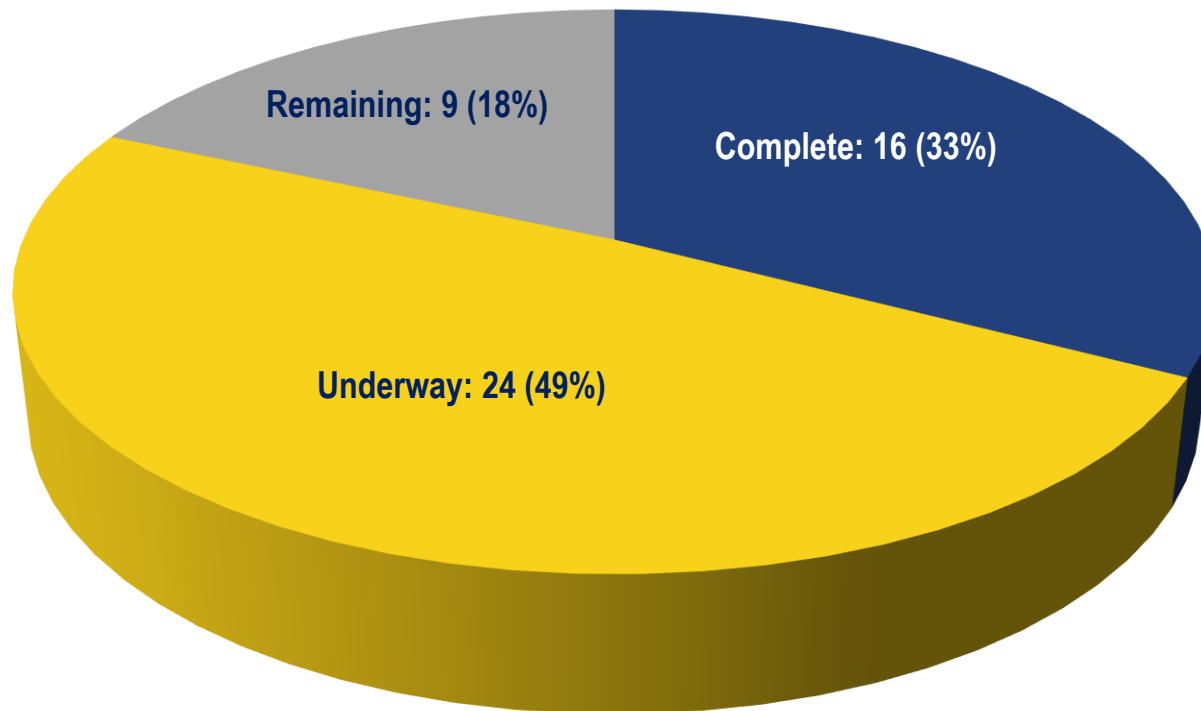
Central Valley Update

Construction Package 2-3

- **Number of Structures in Progress**

- » Total Structures: 49

- 5 additional structures (Manning Avenue, Grangeville Avenue, Hanford Armona, Avenue 120, Stoil Spur) are scheduled to begin construction in 2024



Data Date: 3/31/2024

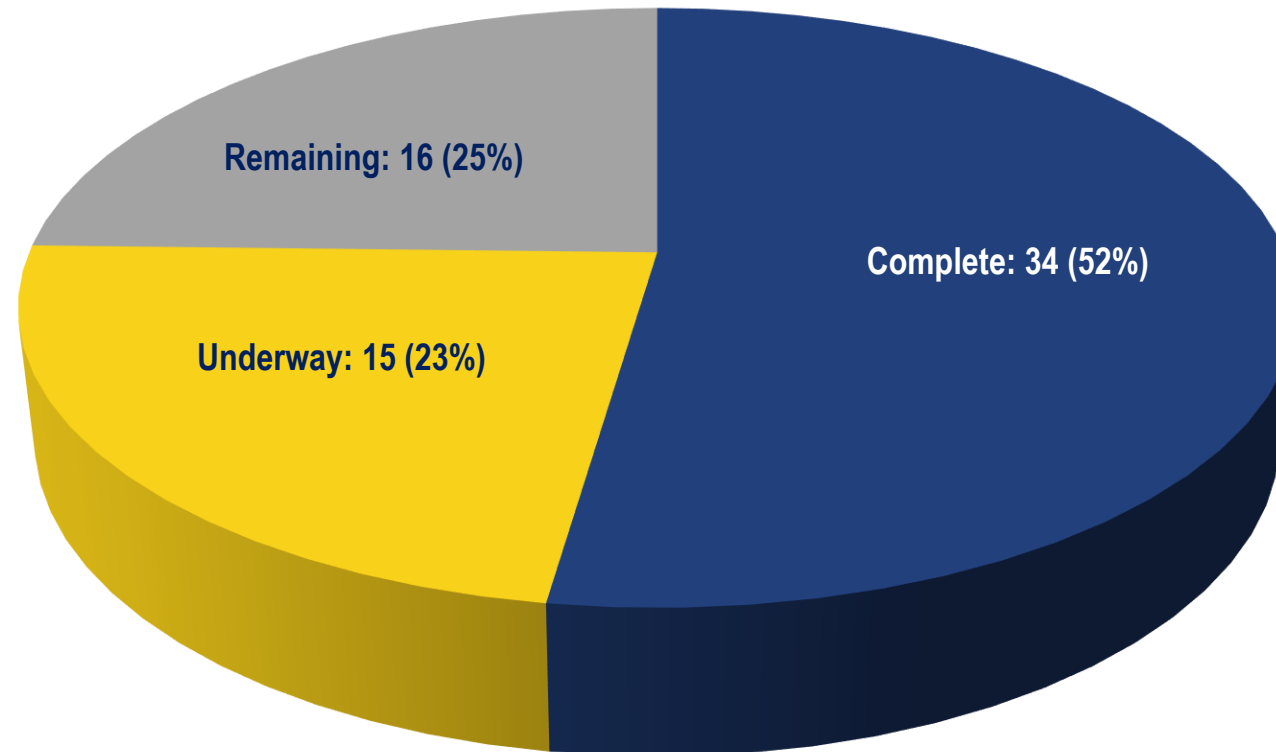
Central Valley Update

Construction Package 2-3

- **Miles of Guideway in Progress**

- » Total Guideway Miles: 65

- Guideway is the riding surface that will support and physically guide the high-speed train

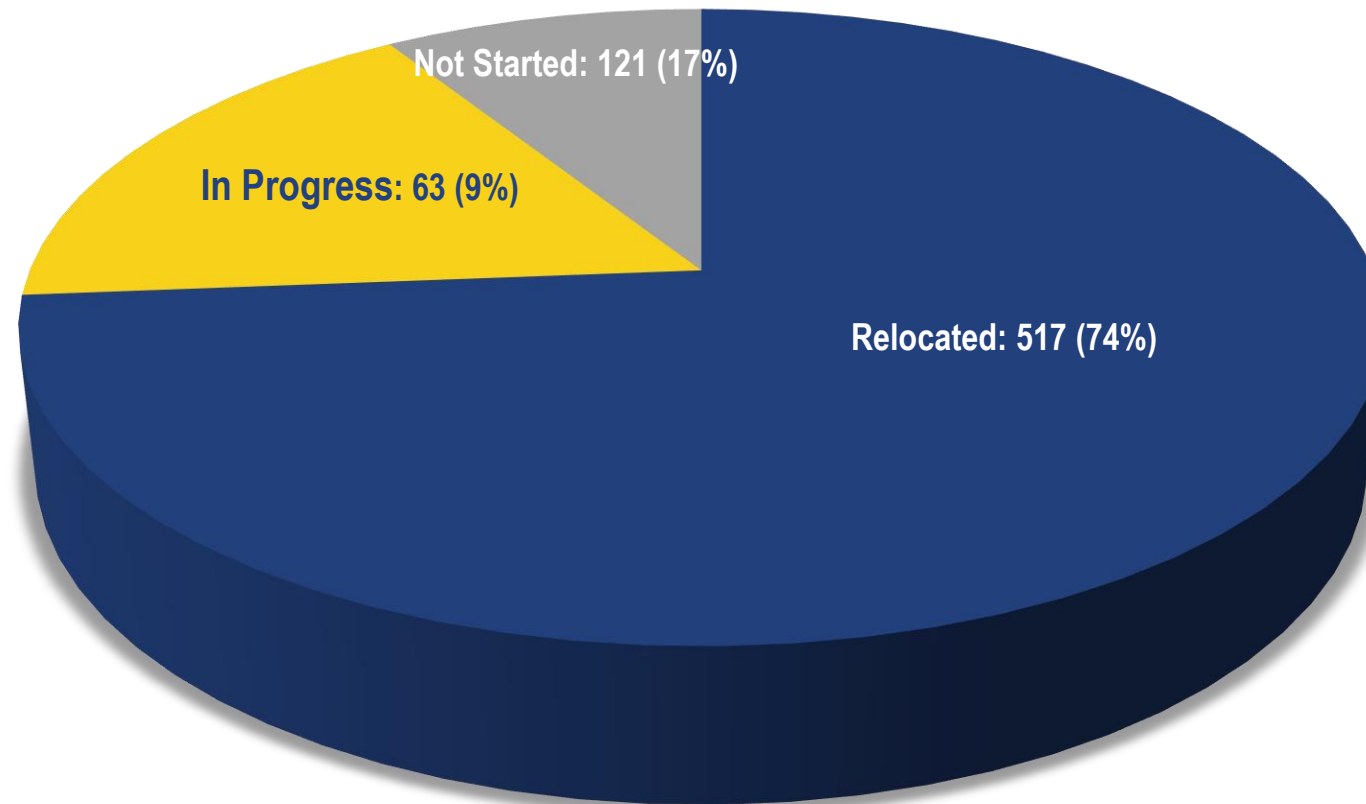


Data Date: 3/31/2024

Central Valley Update

Construction Package 2-3

- High-Level Utility Summary
 - » Total of **701** utilities required



Data Date: 3/31/2024

Central Valley Update

Construction Package 2-3

Primary Risks

1. Potential delays with third party approvals for critical path BNSF Railway track shifts scheduled for 2024
2. Delays due to recent changes in PG&E requirements for transmission lands

Risk Mitigations Underway

1. Regular meetings are currently being held to proactively resolve issues and expediate third-party approvals of track shifts
2. Mitigation measures to expediate PG&E approvals for designs are being implemented and other options are being evaluated
3. Continue conducting monthly partnering meetings with DFJV to identify and manage issues that present schedule risk

Central Valley Update

Construction Package 2-3

Utility Relocation Summary by Utility Type

Utility	Status	Number	Percentage
Electric	Not Started	96	25%
	In Progress	30	8%
	Relocated	258	67%
	Total Electric Utilities	384	100%
Gas	Not Started	10	37%
	In Progress	0	0%
	Relocated	17	63%
	Total Gas Utilities	27	100%
Telecom	Not Started	2	1%
	In Progress	23	10%
	Relocated	208	89%
	Total Telecom Utilities	233	100%
Wet	Not Started	13	23%
	In Progress	10	17%
	Relocated	34	60%
	Total Wet Utilities	57	100%

Data Date: 3/31/2024

Labor Jobs – Highlights

- 13,000+ Construction Jobs Created Since Construction Began
 - » In 2024, Record Number of Workers Dispatched Daily Reached 1,646
 - » 25 Active Construction Sites in the Central Valley
 - » Average 70% Workers from Disadvantaged Communities





Merced and Bakersfield Extensions



Merced and Bakersfield Extensions

- Notice to Proceed to advance to 100% design issued to Stantec for the Merced Extension
- Limited Notice to Proceed for the Shafter area to advance to 60% design issued to HNTB for the Bakersfield Extension
- Right-of-Way mapping is ongoing to enable appraisal and acquisition for the Bakersfield and Merced Extensions



Fresno Station Early Works



Fresno Station Early Site Activation: 2024

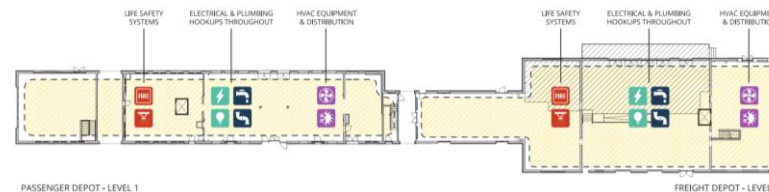
- Three projects funded by \$20 Million RAISE grant
- Design underway

Chinatown Zero-Emissions Mobility Hub Plaza

Final Location in Chinatown TBD



Historic Depot Seismic and Accessibility Retrofit



Downtown/Depot Plaza



Questions?



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