

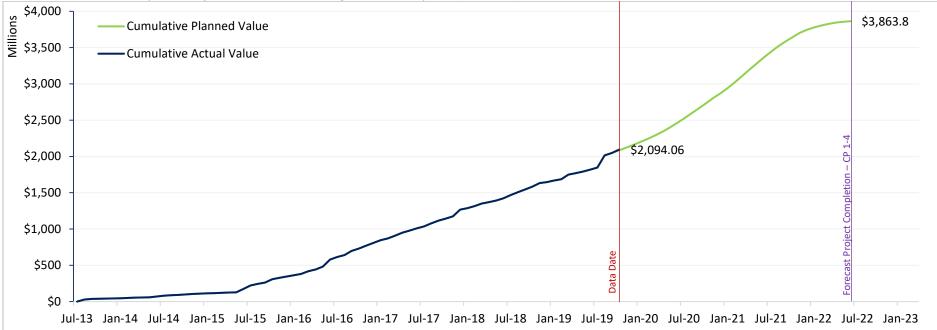
Finance & Audit Committee CENTRAL VALLEY STATUS REPORT

December 2019 Report (data through October 2019)



Infrastructure Delivery Overview – 119-mile Central Valley Segment Construction Packages 1-4 (CP 1-4)

CP 1-4 Earned Value



CP 1-4 - Planned vs. Actual Expenditures from Contract Award through Contract Completion (\$ Millions)

Notes:

1. Figure 1 shows historical expenditures from the award of the first construction package through October 31, 2019. The planned values from October 2019 to December 2022 are based on the Proposed Schedules developed for all the construction packages as of November 2019. It is anticipated that the total current contractual value \$3.864B will be expended by end of December 2022.

CP 1-4 Projected Milestones

Milestone	Date	Milestone	Date	Milestone	Date
01. CP 1 Main Design Complete	Nov-19	05. CP 2-3 Main Design Complete	May-21	09. CP 4 Main Design Complete	Feb-20
02. CP 1 ROW Acquisition Complete	Nov-20	06. CP 2-3 ROW Acquisition Complete	Jan-21	10. CP 4 ROW Acquisition Complete	Dec-20
03. CP 1 Environmental Clearance Complete	Mar-20	07. CP 2-3 Environmental Clearance Complete	Feb-20	11. CP 4 Environmental Clearance Complete	Apr-20
04. CP 1 Utility Relocation Complete	Mar-21	08. CP 2-3 Utility Relocation Complete	Feb-21	12. CP 4 Utility Relocation Complete	Mar-21

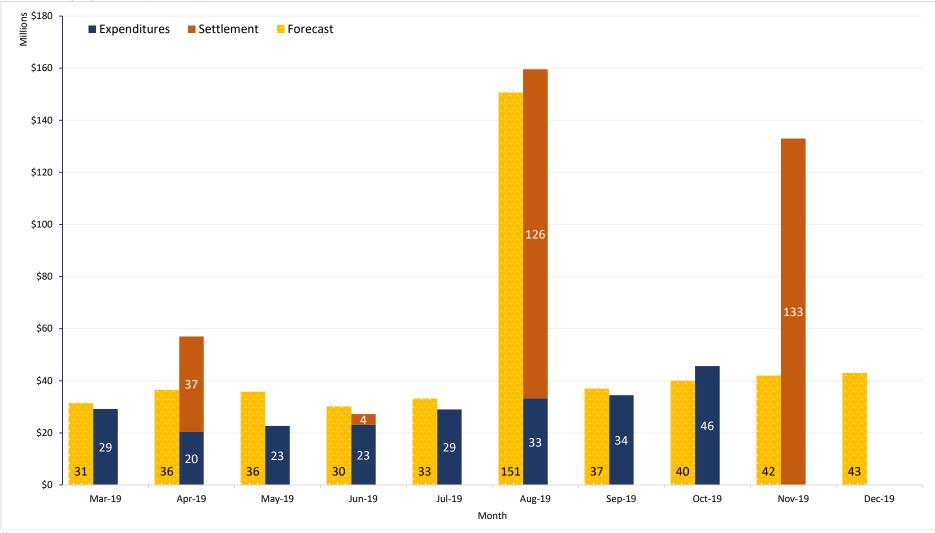
Notes:

1. The above at completion value (\$3,863.8M) is based on the current contract values of the construction packages and does not include SR-99. This value does not include change orders that are yet to be executed.



CP 1-4 - Design-Build Planned vs. Actual Expenditures – Near Term

CP 1-4 Monthly Expenditures (\$ Millions)



Notes:

1. Expenditures contained in the chart above are specific to the Design-Builder production and based on the certified invoice and do not include accrual adjustments.

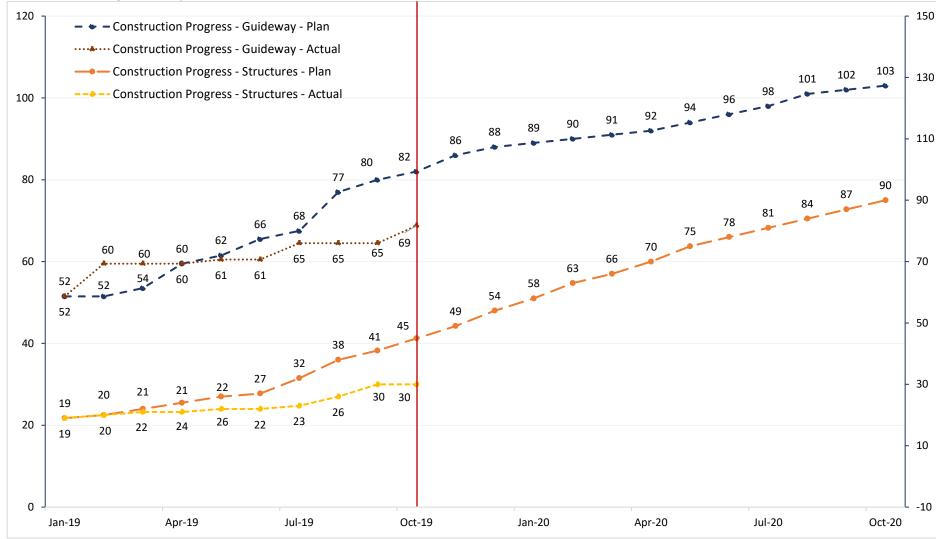
2. Forecasted expenditures are based on the Proposed Schedules developed for CP 1-4 as of November 2019.

3. Sudden increases in the cumulative values are due to Time Impact Analysis Settlements.



CP 1-4 – Structures and Guideway Progress – Planned vs. Actuals

CP 1-4 Construction Progress to Completion – Forecast vs. Actual



Notes:

- 1. Total Structures: 93 each.
- 2. Total Guideway: 117 miles does not include mileage for SR-99.
- 3. This forecast is based on the get to work plans developed in January 2019.



CP 1-4 - Construction Progress

CP 1-4 Construction Progress Summary

Construction Package	Category	Planned vs. Actuals	Status Update
CP 1	Structures	Planned Progress: 21 structures Actual Progress: 16 structures Progress 5 structures behind	 As of October 2019, 6 structures completed, and 10 structures are underway. The construction works is planned to start at McKinley Ave, Belmont Ave, and realignment of utilities between Herndon and Ashlan Avenue. Golden State Blvd. HST structure cannot start due to a AT&T line found once excavating for the footing. It was assumed in the structure progress forecast that TPZP would be starting to construct at Herndon UPRR and HST structures. Both ROW acquisition and shoofly design have delayed both Herndon structures. McKinley construction has not started due to utility relocations. FMFCD storm drains need to be moved to alleviate storm water from the new FMFCD facility. The draft outgrant document was delivered in October which is the start of the wet season. As a mitigation, work will proceed on the storm drain pipe laying with blanked off connections. In April 2020, TPZP can tie in new FMFCD system into the existing network and basin. Avenue 9 cannot start due to ROW required for a gas transmission line. The PCM has instructed TPZP to explore a redesign of the embankment to avoid the requirement for additional ROW.
CP 1	Guideway	Planned Progress: 14 miles Actual Progress: 8 miles Progress 6 miles behind	 Approximately 3 miles cannot be constructed due to IPB design which is required to complete the guideway. IPB design height was under discussion with railroads. Guideway Package 3 (GW 3) package design was not approved preventing a few miles of southern guideway from being constructed. Two miles are dependent on approval of retaining wall design packages. Design lifespan specification is in question and the project team is coordinating to drive this to resolution.
CP 2-3	Structures	Planned Progress: 14 structures Actual Progress: 11 structures Progress 3 structures behind	 As of end of October 2019, there are 10 structures complete and 1 underway, and it is expected that the total structures under construction will increase in next couple of months. Delaying factors are unavailability of ROW and delayed start of utilities works resulting from land conveyance issues. HSR is mobilizing additional resources and optimizing the processes to expedite land conveyances. In addition, the PCM team and the Authority are actively working to mitigate any additional issues affecting the land conveyance process.
CP 2-3	Guideway	Planned Progress: 47 miles Actual Progress: 45 miles Progress 2 miles behind	• This is due to the issue with unsuitable soils. Once the issues are resolved, 8 miles of embankment will be available for construction. The project team is working with DFJV and HSR engineering to resolve the issue.
CP 4	Structures	Planned Progress: 10 structures Actual Progress: 4 structures Progress 6 structures behind	 Re-design of one structure (Merced Avenue Overpass) was not completed as per plan due to ongoing negotiations with third parties and utilities regarding the relocation of their services. Environmental clearance (preparation of the Pre-Construction Survey) is ongoing and preparation and process of required documentation has not been processed according to the plan. The project team is addressing this with the DB contractor. Ongoing negotiations with landowners are taking longer than anticipated, impacting the acquisition of ROW and the start of construction on anticipated structures. HSR is mobilizing additional resources, carrying out negotiations with the property owners, and optimizing the processes to expedite the ROW acquisition.
CP 4	Guideway	Planned Progress: 21.1 miles Actual Progress: 18 miles Progress 3.1 miles behind	 In October 2019, there was an uptick in the guideway progress from 12 miles to 18 miles with 16 miles underway and 2 miles cleared and pending a start time. The remaining guideway is impacted by the ongoing negotiations with landowners taking longer than anticipated. The environmental clearance (preparation of the Pre-Construction Survey) has delayed the start of construction on the remaining alignment. The project team is working closely with CRB to resolve this issue.



CP 1-4 – ROW Parcels to be Acquired and Remaining

CP 1-4 ROW Parcels to be Acquired and Remaining

Construction Package	Total Needed Parcels as of September 30	Total Acquired to Date as of September 30	Remaining Parcels to be Acquired as of September 30	Optimized Parcels	Parcels Acquired in October	Total Parcels Remaining as of October 31
CP 1	932	827	105	4	0	101
CP 2-3	854	559	295	4	6	285
СР 4	223	166	57	0	0	57
Total	2,009	1,552	457	8	6	443

Notes:

1. Optimized parcels are reductions in parcels achieved through utility redesign.

2. Reporting of railroad parcels is now included in the land conveyance reporting in this report for each Construction Package, rather than in the totals above. The property rights needed on railroad Right-of-Way is obtained through agreement rather than going through the Right-of-Way acquisition process.

3. The data above is an update to the Central Valley Status Report presented to the F & A Committee on November 19, 2019.

The Real Property Branch is implementing the following risk mitigation strategies:

- Improvements to the land conveyance process to reduce process time from 140 days to approximately 40 days in length.
- Improvements to the pre-Acquisition process to reduce time from 105 to approximately 65 days.
- Pursuing administrative settlements to decrease the time to acquisition and immediately deliver needed parcels.
- Consolidating new acquisitions with existing acquisitions on the same parcels to decrease the time for the new acquisitions.
- Adding staff in Land Conveyance to triple our production rate and meet need dates for critical (utility) conveyances.
- Pursuing a Resolution of Necessity to start the condemnation process 31 days after first offer to have a known end point for parcel acquisition and to plan construction activities to meet schedule.



119-Mile Central Valley Segment - Third Party Agreements

CP 1-4 Look Ahead - Estimated completion timeline for key Third Party Agreements

Entity Project Section		Result of Resolution	Estimated Completion
Calif. Dept. of Toxic Substances Control	CP 1	Provides for environmental review and mitigation between the design-builder and Calif. Dept. of Toxic Substances Control.	Jan 20
County of Fresno	CP 1	Updates road locations to be closed to reflect design changes since original Cooperative Agreement and provide further clarity regarding remediation of County property post-construction.	Jan 20
County of Fresno	CP 1	Defines the ownership and maintenance of grade separations between the Authority and County in perpetuity.	Jan 20
Fresno Metropolitan Flood Control District	CP 1	CCUA template allows for prompt execution of the CCUA land conveyances.	Nov 19
Fresno Metropolitan Flood Control District	CP 1	JUA template allows for prompt execution of the JUA land conveyances.	Nov 19
Madera Valley Water Company	CP 1	Obtains cooperation on our project and captures the essential terms on how we work together to relocate Madera Valley Water Company's facilities.	Oct/Nov 19
Corcoran Irrigation District	CP 2-3	Provides for CID's review of technical engineering documents, coordination with the Authority, and review of documents for JUA/CCUA.	Feb 20
County of Fresno	CP 2-3	Updates the road locations to be closed to reflect design changes since original Cooperative Agreement and provides further clarity regarding remediation of County property post-construction.	Jan 20
County of Fresno	CP 2-3	Defines the ownership and maintenance of grade separations between the Authority and County in perpetuity.	Jan 20
County of Kings	CP 2-3	Covers the transfer of Right-of-Way between the Authority and the County. Allows the Authority's immediate right of possession and use of existing Right-of-Way to construct the HSR project.	Mar 20
County of Tulare	CP 2-3	Defines the ownership and maintenance of grade separations between the Authority and County in perpetuity.	Dec 19
Kings County Water District	CP 2-3	JUA template allows for prompt execution of the JUA land conveyances.	Mar 20
Kings County Water District	CP 2-3	CCUA template allows for prompt execution of the CCUA land conveyances.	Mar 20
Lakeside Ditch Company	CP 2-3	Provides for the necessary coordination for the development of JUA/CCUA.	Nov/Dec 19
Lower Tule River Irrigation District	rigation CP 2-3 Provides for Lower Tule's review of technical engineering documents, coordination with the Authority, and review of documents for JUA/CCUA.		Jan 20
Lower Tule River Irrigation District	CP 2-3	Defines the ownership and maintenance of facilities between the Authority and Lower Tule in perpetuity.	Oct/Nov 19
People's Ditch Company	's Ditch Company CP 2-3 Provides for People's review of technical engineering documents, coordination with the Authority, and review of documents for JUA/CCUA.		Nov 19
Settler's Ditch Company	CP 2-3	Provides for Settler's review of technical engineering documents, coordination with the Authority, and review of documents for JUA/CCUA.	Nov 19



CP 1-4 Look Ahead - Estimated completion timeline for key Third Party Agreements (cont'd)

Entity	Project Section	Result of Resolution	Estimated Completion
Southern California Edison	CP 2-3	JUA template allows for prompt execution of the JUA land conveyances.	
Southern California Gas Company (Sempra)	CP 2-3	Southern California Gas Company's replacement rights needed in the BNSF Right-of-Way.	Oct/Nov 19
Southern California Edison	CP 2-3	CCUA template allows for prompt execution of the CCUA land conveyances.	Oct/Nov 19
Southern California Edison	CP 2-3	Utility agreement addendum for Duct and Substructure Work for Construction.	Oct/Nov 19
Southern California Edison	CP 2-3	EP templates for providing either a temporary right where SCE's prior rights were in franchise and facilities be in franchise again post- construction, or a permanent replacement right for franchise prior rights where roadway will be vacated.	Feb 20
City of Wasco	CP 4	Covers the transfer of Right-of-Way between the Authority and the City. It allows the Authority's immediate right of possession and use of existing Right-of-Way to construct the HSR project.	Feb 20
City of Wasco	CP 4	Defines the ownership and maintenance of grade separations between the Authority and City in perpetuity.	
City of Wasco	CP 4 Design and construction of a pedestrian underpass at the Wasco Amtrak station.		Feb 20
City of Wasco	CP 4	Design and construction of a grade separation at Poso Ave. in Wasco.	Feb 20
County of Tulare	CP 4	Defines the ownership and maintenance of grade separations between the Authority and County in perpetuity.	Nov 19
Semitropic Water Storage District	CP 4	This agreement is for design and construction of facilities.	Nov/Dec 19
Semitropic Water Storage District	CP 4	JUA template allows for prompt execution of the JUA land conveyances.	Nov/Dec 19
Semitropic Water Storage District	CP 4	CCUA template allows for prompt execution of the CCUA land conveyances.	
Southern California Edison	CP 4	Utility agreement addendum for Duct and Substructure Work for Construction.	
Southern California Gas Company (Sempra)	CP 4 Southern California Gas Company's replacement rights needed in the BNSE Right-ot-Way		Oct/Nov 19
Pacific Gas & Electric Company	CP 4	Allows for the continuation of CP 4 PG&E design and construction work for 4.5 additional years until June 30, 2024.	Dec 19



119-Mile Central Valley Segment – Environmental Clearance

Incidental Take Permits (ITP) Summary

ITP Name	Amendment Status	Construction Project	ITP Amendment Construction Implications		
Merced-Fresno 2081 ITP, Permit Number 2081-2013-025-04, Issued on 03/12/2014					
Utility Design Refinements	Contractor Revising	CP 1	Documents changes in utility design at various locations in CP 1.	Feb-20	
Hairy Orcutt Grass	In Review with CDFW	CP 1	Administrative to identify the mitigation site for HOG. no impact on construction.	Feb-20	
North Extension Separation of Rail	In draft with contractor	CP 1	Accommodates increase in construction footprint to realign the HST away from existing freight rail lines in the North Extension of CP 1.	Mar-20	
	· · · · · · · · · · · · · · · · · · ·	Fresno-Bake	rsfield, 2081 ITP, Permit Number 2081-2015-024-04, Issued on 6/15/2015	·	
Deer Creek/Cross Creek	CDFW Deemed Complete	CP 2-3 Accommodates design changes in the Deer and Cross Creek areas.		Feb-20	
CP 2-3 IPB	CDFW Deemed Complete	CP 2-3	Construction of IPB at various locations in CP 2-3.	Feb-20	
Table 5	In Review with CDFW	CP 2-3	Administrative map book amendment to finalize the locations of dedicated wildlife crossings.	Feb-20	
		Fresno-Bake	rsfield, 2081 ITP, Permit Number 2081-2015-024-04, Issued on 6/15/2015		
Wasco At-Grade	CDFW Deemed Complete	CP 4	Accommodates changes construction profile in the city of Wasco from a viaduct to retained filled structure. Also increases construction footprint to complete construction of cast-in-place concrete walls.	Feb-20	
McCombs and Merced/Scaroni Caltrans	CDFW Deemed Complete	CP 4	Increases construction footprint for design variations at McCombs and Merced/Scaroni interchanges with SR 43, utility relocations, Caltrans roadway improvements, access roads, and other covered activities.		
BNSF/PG&E	SF/PG&EIn draft with contractorCP 4Covers additional ROW adjacent to the mainline required for relocation of 3rd party utilities and access to utilities and BNSF operations areas. Also, to include various other small footprint adjustments along alignment.		Apr-20		

Notes:

1. The above table represents a snapshot in time of the ITP amendments needed to complete CP 1-4. Some additional design changes may occur to complete utility relocations. As design progresses and achieves final approval, the risk of additional amendments shrinks.



CONSTRUCTION PACKAGE 1 (CP 1) OVERVIEW

CP 1 – Design-Build Contract Summary

llestones	
Milestone	Date
RFQ Date:	11/15/2011
SOQ Date:	12/19/2011
RFP Date:	3/22/2012
Proposal:	1/18/2013
Bid Open Date:	4/13/2013
Award Date:	8/16/2013
NTP 1 Date:	10/15/2013
NTP 2 Date:	11/22/2013
NTP 3 Date:	7/11/2014
Original Completion Date:	3/31/2018
Current Completion Date:	11/2/2021

Contract Value

Description	Amount
Fixed Bid Price:	\$969,988,000.00
Provisional Sums:	\$53,000,000.00
Original Contract Price:	\$1,022,988,000.00
Executed Change Orders:	\$797,058,601.87
Current Contract Amount:	\$1,820,046,601.87
Approved Invelops to Datal	¢1 135 410 607 14
Approved Invoices to Date ¹ :	\$1,125,410,697.14
Remaining Contract Balance:	\$694,635,904.73

Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded:	1,312
Work Days Spent (thru 9/30/2019):	2,207

Expended to Date

Description	Percentage	De
Time:	75.1%	Tir
Dollars:	61.8%	Do

Growth %

Description	Percentage
Time:	80.6%
Dollars:	77.9%

Notes:

1. Includes estimated earned value for the reporting period.

2. Contingency funded change orders only.

3. The budget status table has been removed this period as it contains same information as the contract value.



CP 1 – Executed Change Order Status

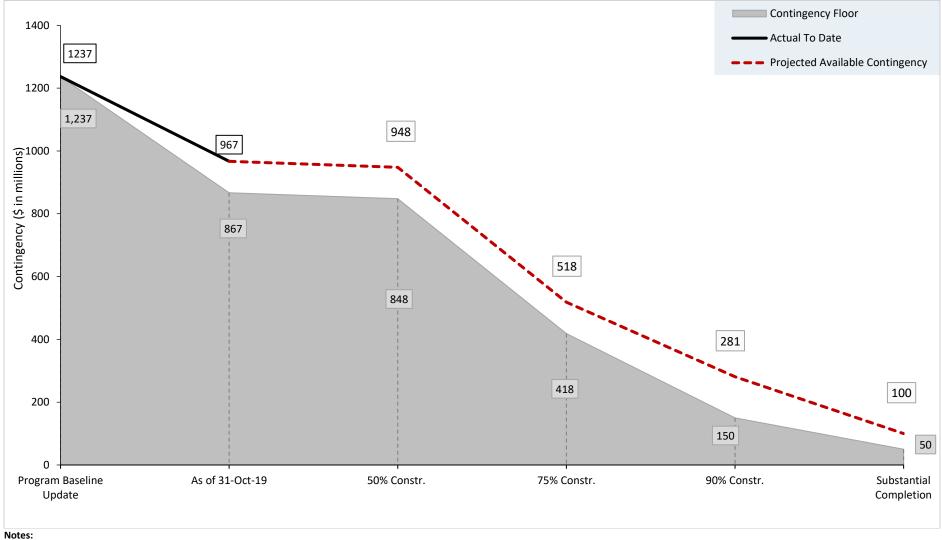
CP 1 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00271	Emergency Closure SR-180 West Bound	Fully Executed	\$12,079.76	25-Oct-19
00265.1	UPRR Safety and Security	Fully Executed	\$500,000.00	25-Oct-19
00262	USBOR Agreement for Siphon Maintenance	Fully Executed	\$144,920.04	25-Oct-19
00266	FB-10-0176 Secure Fresno Rescue Mission	Fully Executed	\$2,642.59	24-Oct-19
00270	MF-10-0058 Keith's Auto Sewer Leak	Fully Executed	\$5,061.49	22-Oct-19
00233.2	MVWC Waterline Relocation Rd 27	Fully Executed	\$5,447.50	22-Oct-19
00260	Herndon Avenue - Construction	Fully Executed	\$76,583,809	16-Oct-19
00149.1	PG&E Const. Elec. Package K - Credit	Fully Executed	\$-3,494.75	04-Oct-19
Total:			\$77,250,465.63	



CP 1 – Risk - Contingency Report





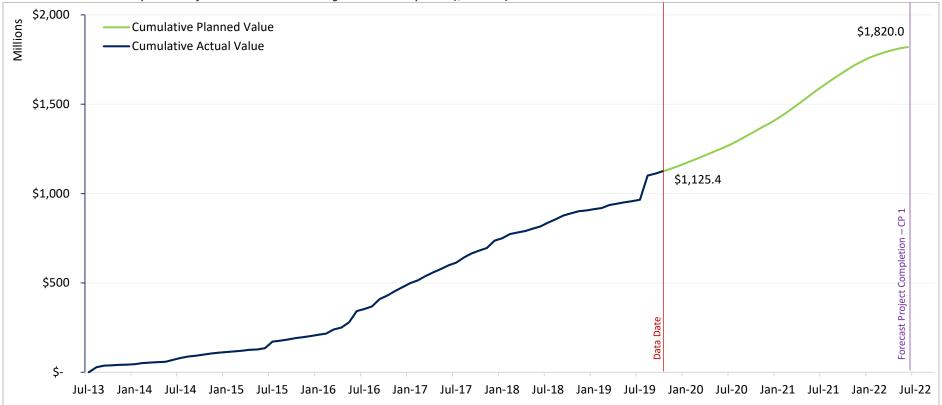
^{1.} The Program Baseline Update was presented to ad accepted by the CHSRA Board in May 2019. The adoption of the Program Baseline Update resulted in changes to contingency amounts. The contingency drawdown curve has been revised to reflect updated contingency amount for the entire CP 1 Project.

2. Contract through October 31, 2019.



CP 1 – Earned Value





CP 1 – Projected Milestones

Milestone	Date	Milestone	Date
Main Design Complete	Feb-20	Environmental Clearance Complete	Apr-20
ROW Acquisition Complete	Nov-20	Utility Relocation Complete	Mar-21

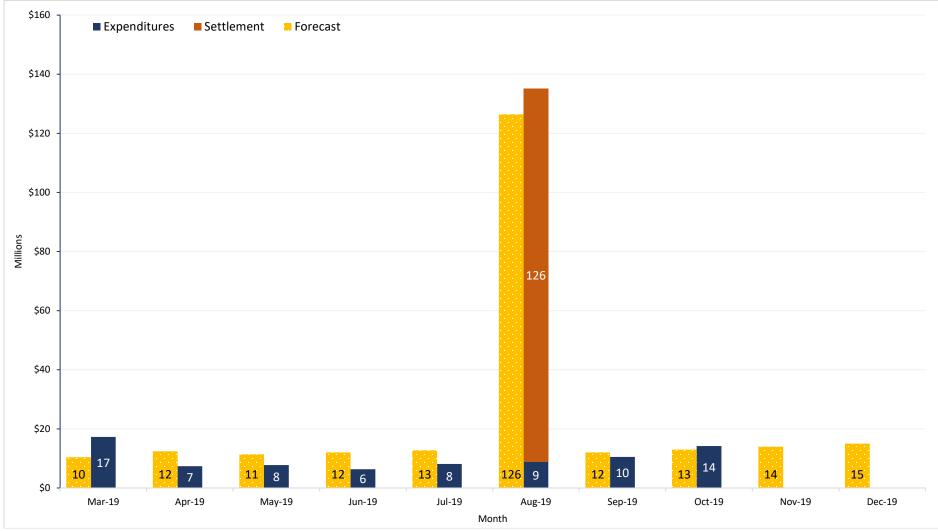
Notes:

- 1. The Planned Value and Contract Substantial Completion Date is based on the CP 1 Proposed Schedule as of November 2019. This is expected to be refined as future change orders are issued and a revised RBS is finalized.
- 2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement.
- 3. The Current Contract Value at completion does not include unexecuted change orders including IPB, Herndon, SR99 section remaining works, and North Extension Revision.



CP 1 – Design-Build Planned vs. Actual Expenditures – Near Term

CP 1 – Fiscal Year Expenditures (\$ Millions)



Notes:

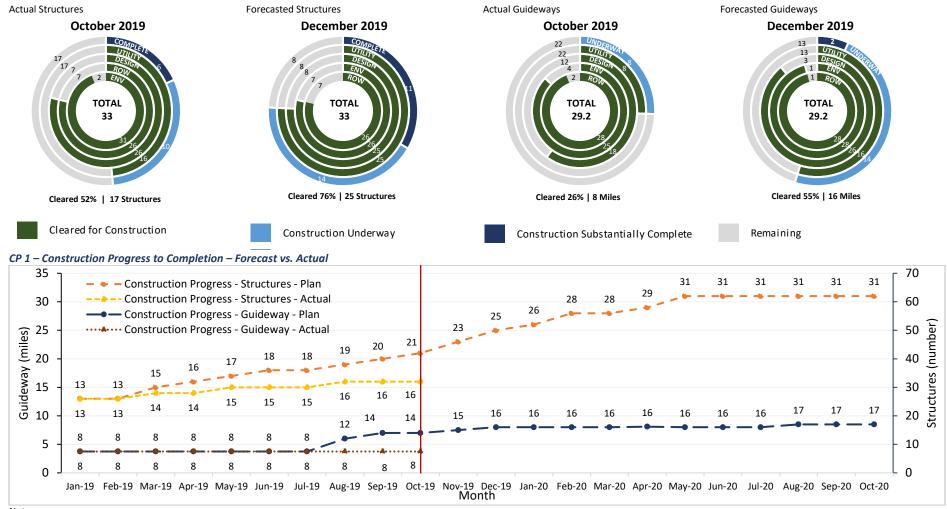
1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoice and do not include accrual adjustments.

2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement.



CP 1 – Construction Progress

CP 1 – Construction Progress



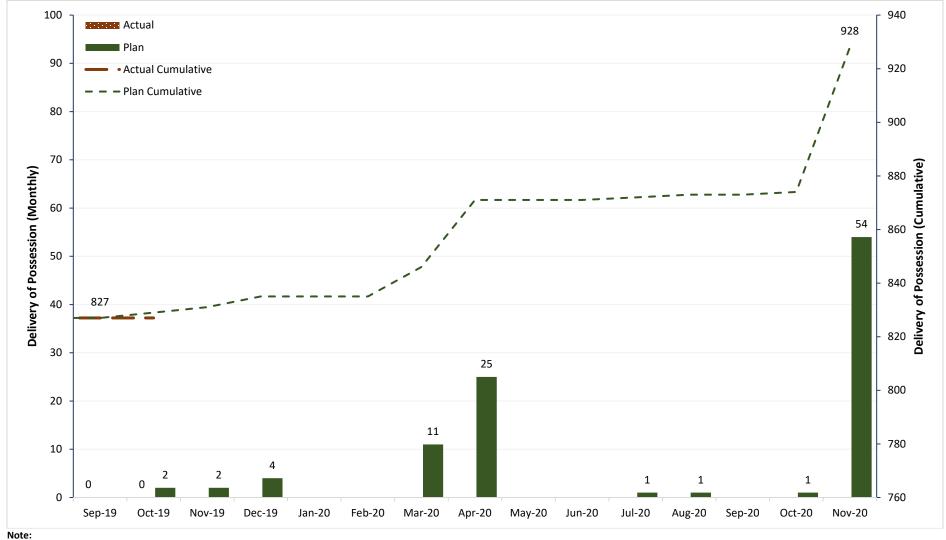
- Notes:
 - 1. Total Structures: 33 structures.
 - 2. Total Guideway: 29 miles. (this does not include SR99 section)

3. This forecast is based on the get to work plans developed in Jan 2019.



CP 1 – ROW Parcels Acquired by Month – Plan vs. Actuals

CP 1 – Parcels Acquired by Month

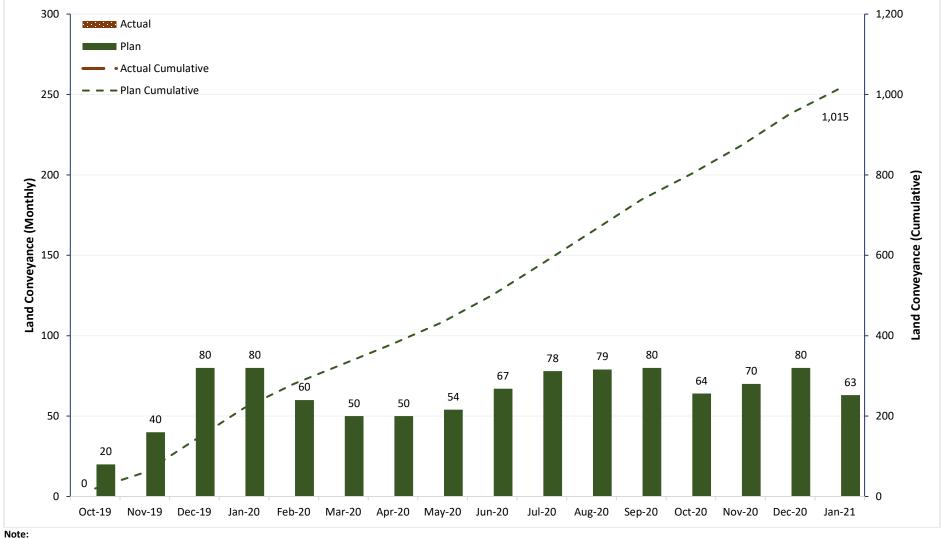


1. ROW process review undertaken in September resulting in no Actuals for that month.



CP 1 – ROW Land Conveyance by Month – Plan vs. Actual





^{1.} ROW process review undertaken in September resulting in no data for that month.



CONSTRUCTION PACKAGE 2-3 (CP 2-3) OVERVIEW

CP 2-3 – Design Build Contract Summary

Milestone	Date
RFQ Date:	10/9/2013
SOQ Date:	12/13/2013
RFP Date:	4/3/2014
Proposal:	10/30/2014
Bid Open Date:	12/11/2014
Award Date:	6/10/2015
NTP 1 Date:	6/12/2015
NTP 2 Date:	7/25/2015
Original Completion Date:	8/19/2019
Current Completion Date:	5/22/2020

Description	Amount
Fixed Bid Price:	\$1,205,335,890.00
Provisional Sums:	\$160,000,000.00
Original Contract Price:	\$1,365,335,890.00
Executed Change Orders:	\$172,548,996.42
Current Contract Amount:	\$1,537,884,886.42
Approved Invoices to Date ¹ :	\$740,977,632.30
Remaining Contract Balance:	\$796,907,253.94

Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded:	277
Current Contract Days:	1,763
Work Days Spent (thru 9/30/2019)	1.559

Expended to Date

Description	Percentage		
Time:	88.4%	Γ	٦
Dollars:	48.2%		[

Growth	%
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	Description	Percentage
Time:		18.6%
Dollars:		12.6%

Notes:

1. Contingency funded change orders only.

2. The budget status table has been removed this period as it contains same information as the contract value.



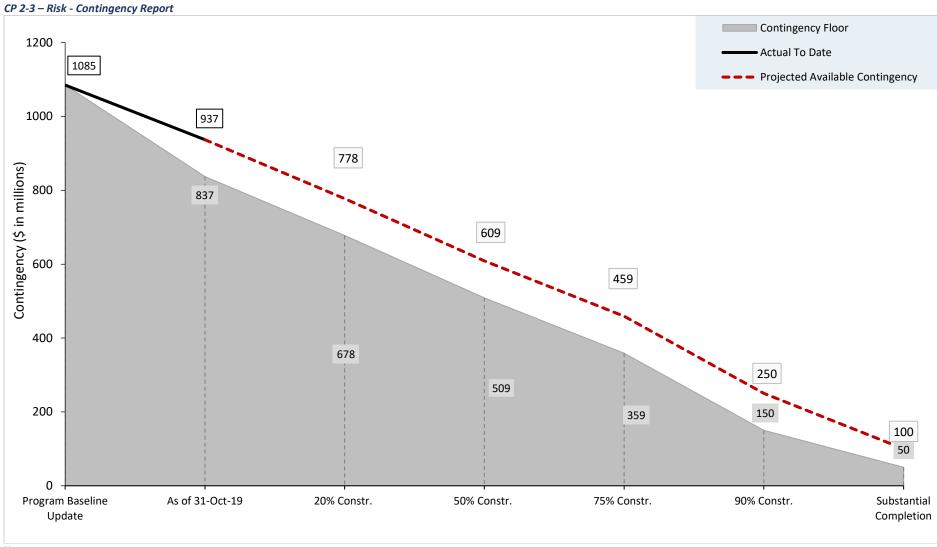
CP 2-3 – Executed Change Order Status

CP 2-3 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
	No Change Orders Executed This Period			
Total				



CP 2-3 – Risk - Contingency Report



Notes:

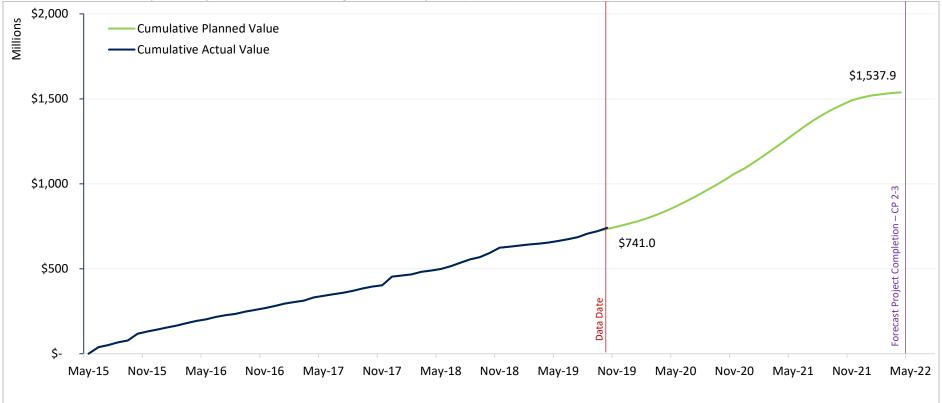
1. The Program Baseline Update was presented to and accepted by the CHSRA Board in May 2019. The adoption of the Program Baseline Update resulted in changes to contingency amounts. The contingency drawdown curve has been revised to reflect updated contingency amount for the entire CP 2-3 Project.

2. Contract through October 31, 2019.



CP 2-3 – Earned Value

CP 2-3 – Planned vs. Actual Expenditures from Contract Award through Contract Completion (\$ Millions)



CP 2-3 – Projected Milestones

Milestone	Date	Milestone	Date
Main Design Complete	Feb-20	Environmental Clearance Complete	Apr-20
ROW Acquisition Complete	Jan-21	Utility Relocation Complete	Mar-21

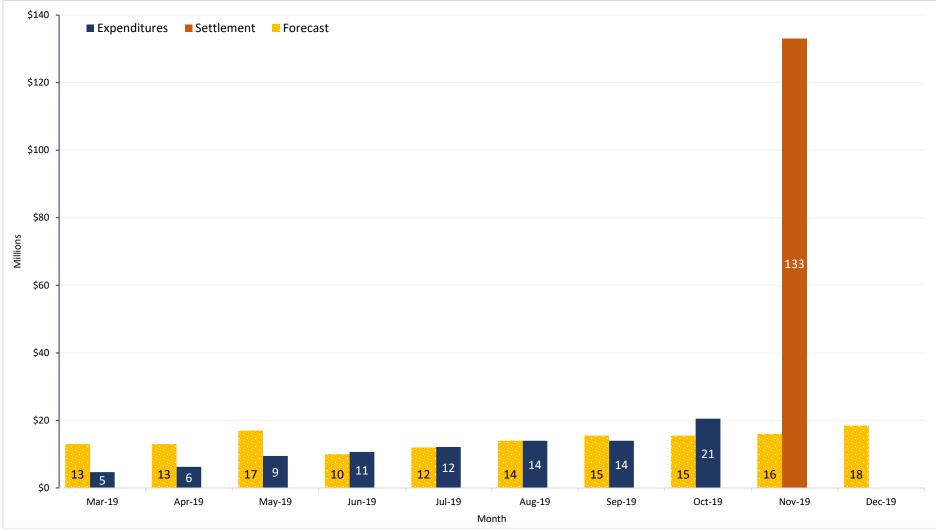
Notes:

- 1. The Planned Value and Contract Substantial Completion Date is based on the CP 2-3 Proposed Schedule as of November 2019. This is expected to be refined as future change orders are issued and a revised RBS is finalized
- 2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement.
- 3. The Current Contract Value does not include unexecuted change orders including Project 517, the latest TIA settlement, IPB change orders.



CP 2-3 – Design-Build Planned vs. Actual Expenditures – Near Term

CP 2-3 – Fiscal Year Expenditures (\$ Millions)



Notes:

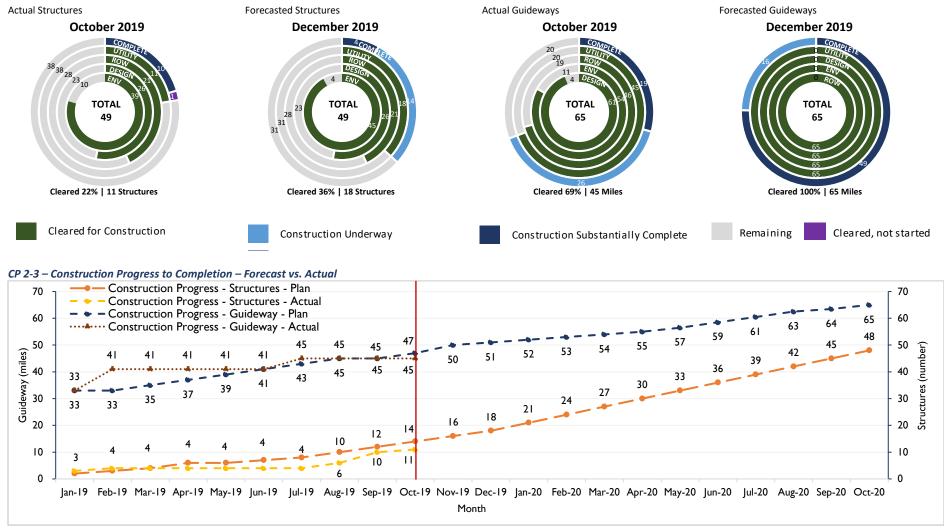
1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoice and do not include accrual adjustments.

2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement.



CP 2-3 – Construction Progress

CP 2-3 – Construction Progress



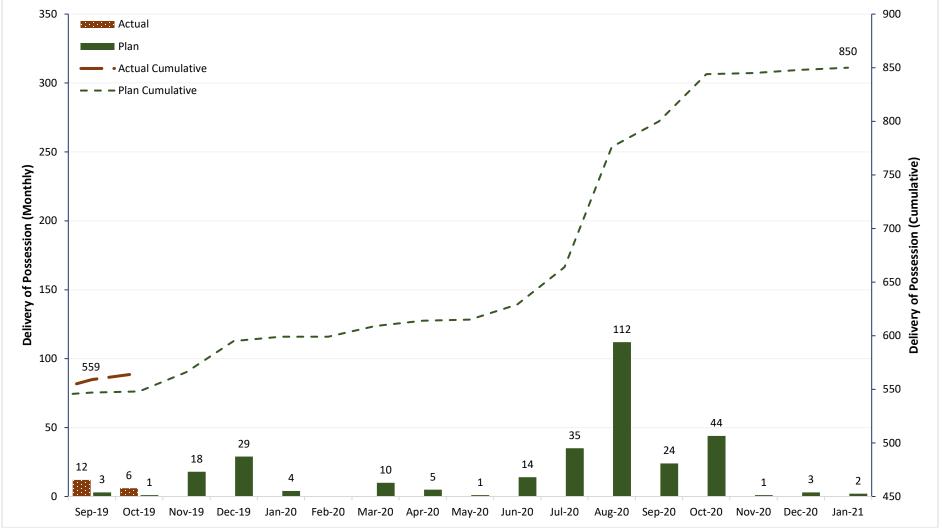
Notes:

- 1. Total Structures: 49 each. This count has been reduced from 50 due to combining the structures resulting from Project 517
- 2. Total Guideway: 65 miles.
- 3. This forecast is based on the get to work plans developed in Jan 2019.



CP 2-3 – ROW Parcels Acquired by Month – Plan vs. Actuals

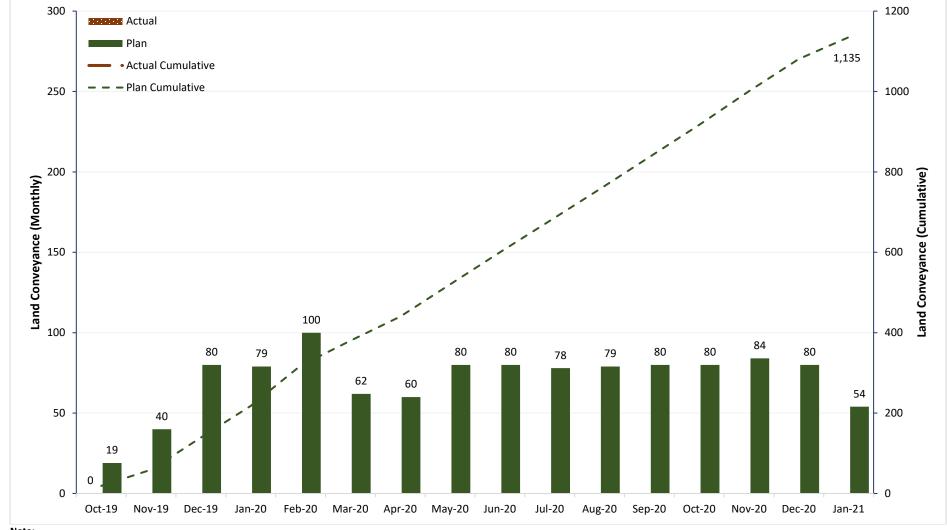
CP 2-3 – Parcels Acquired by Month





CP 2-3 – ROW Land Conveyance by Month – Plan vs. Actual





Note:

1. ROW process review undertaken in September resulting in no data for that month.



CONSTRUCTION PACKAGE 4 (CP 4) OVERVIEW

CP 4 – Design Build Contract Summary Milestones

Allestones	
Milestone	Date
RFQ Date:	11/20/2014
SOQ Date:	1/30/2015
RFP Date:	5/27/2015
Proposal:	11/25/2015
Bid Open Date:	1/5/2016
Award Date:	2/29/2016
LNTP Date:	3/1/2016
NTP Date:	4/15/2016
Original Completion Date:	6/3/2019
Current Completion Date:	6/30/2021

Amount
\$337,247,000.00
\$107,000,000.00
\$444,247,000.00
\$61,574,508.30
\$505,821,508.30
\$227,667,393.10
\$278,154,115.20

Contract Time Status

Description	Duration ¹
Original Contract Days:	1,144
Extension of Time Awarded:	757
Current Contract Days:	1,901
Work Days Spent (thru 9/30/2019)	1,294

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Expended to Date		Growth %				
Description	Percentage	Description	Percentage			
Time:	68.1%	% Time Growth:	66.2%			
Dollars:	45.0%	% Dollars Growth:	13.9%			

Notes:

1. Includes actuals through October 2019.

This amount only represents the contingency amount allocated to the DB contract as approved by Business Oversight Committee (BOC) or through the Delegation of Authority (DOA). The remaining 2. Baseline Rev 1 continency is kept at the project level.

3. Contingency funded change orders only.



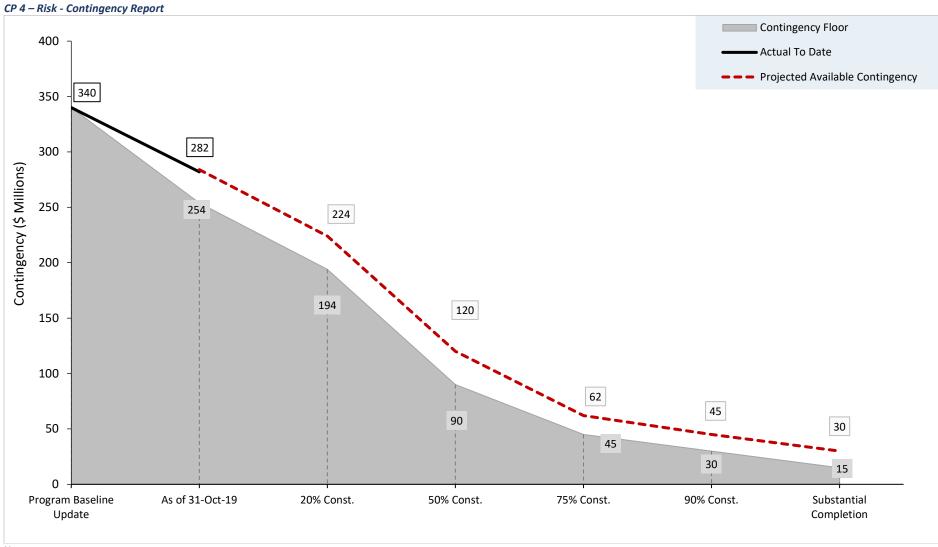
CP 4 – Executed Change Order Status

CP 4 – Executed Change Order Status

CO Number	Title	Change Status Amount		Executed Date	
00045	IPB Design Modifications	CO Executed	\$1,300,000.00	28-Oct-19	
00044	Work Separation of HSR Alignment at SR46 and BNSF Crossing	CO Executed	\$68,821.33	8-Oct-19	
00043	Landowner Reimbursement	CO Executed	\$125,688.67	8-Oct-19	
00042	Resume Original Merced Ave Alignment	CO Executed	\$601,641.77	3-Oct-19	
Total:			\$2,096,151.77		



CP 4 – Risk - Contingency Report



Notes:

1. The Program Baseline Update was presented to and accepted by the CHSRA Board in May 2019. The adoption of the Program Baseline Update resulted in changes to contingency amounts. The contingency drawdown curve has been revised to reflect updated contingency amount for the entire CP 4 Project.

2. Contract through October 31, 2019.



CP 4 – Earned Value





CP 4 – Projected Milestones

Milestone	Date	Milestone	Date		
Main Design Complete	Feb-20	Environmental Clearance Complete	Apr-20		
ROW Acquisition Complete	Dec-20	Utility Relocation Complete	Mar-21		

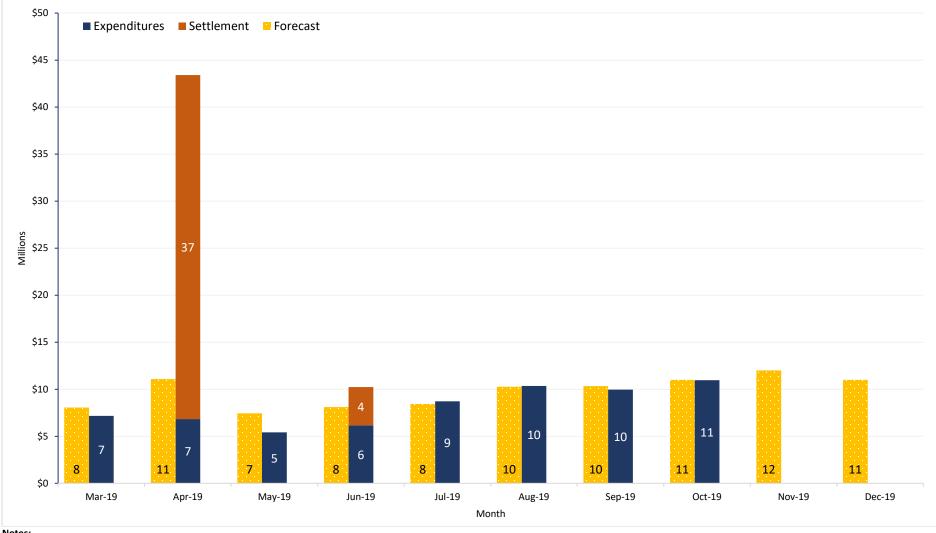
Notes:

- 1. The Planned Value and Contract Substantial Completion Date is based on the CP 4 Proposed Schedule as of November 2019. This is expected to be refined as future change orders are issued and a revised RBS is finalized.
- 2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement.
- 3. The above contract value does not include unexecuted change orders including SR46 BNSF structure and IPB.



CP 4 – Design-Build Planned vs. Actual Expenditures – Near Term

CP 4 – Fiscal Year Expenditures (\$ Millions)



Notes:

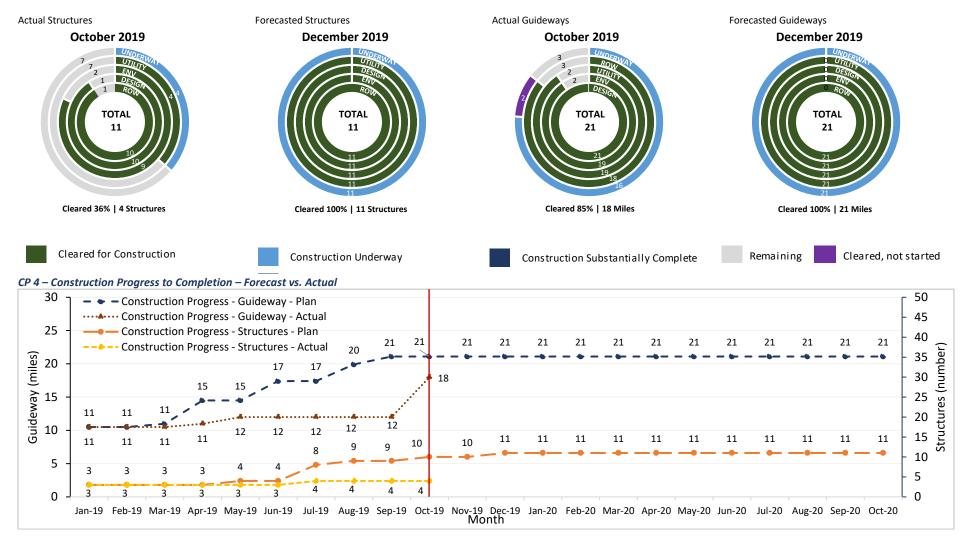
1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoice and do not include accrual adjustments.

2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement.



CP 4 – Construction Progress

CP 4 – Construction Progress



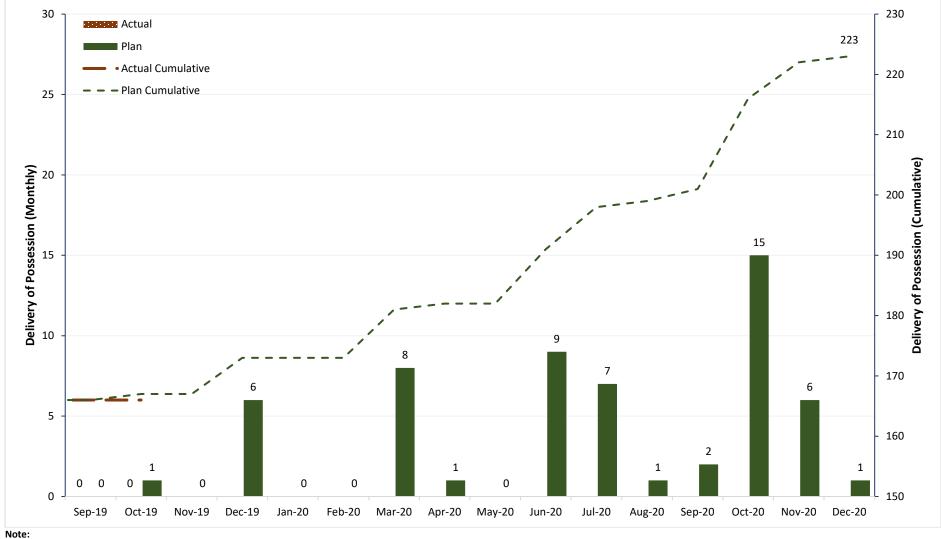
Notes:

- 1. Total Structures: 11 each.
- 2. Total Guideway: 21 miles.
- 3. Two miles of guideway have been cleared but not started.
- 4. This forecast is based on the get to work plans developed in Jan 2019.



CP 4 – ROW Parcels Acquired by Month – Plan vs. Actuals



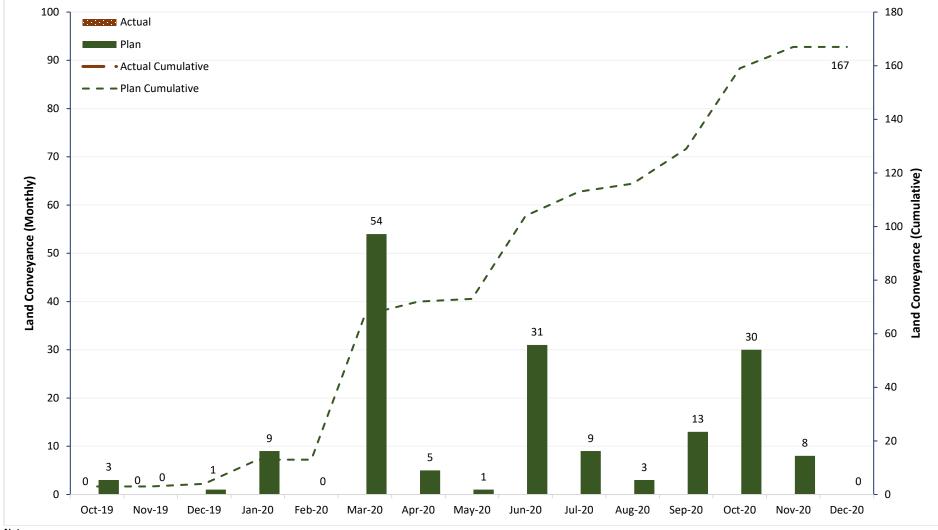


1. ROW process review undertaken in September resulting in no Actuals for that month.



CP 4 – ROW Land Conveyance by Month – Plan vs. Actual





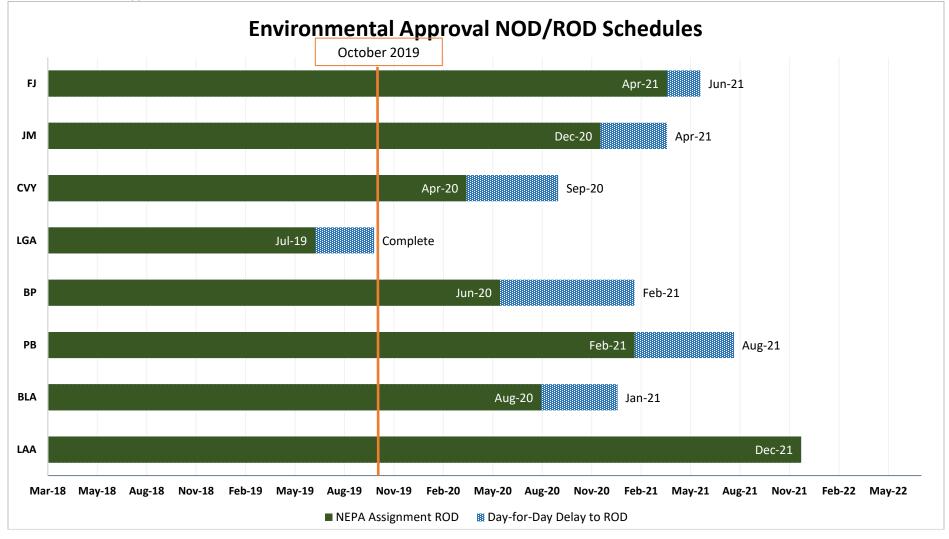
Note:

1. ROW process review undertaken in September resulting in no data for that month.



PROJECT DEVELOPMENT SCHEDULE – RECORDS OF DECISION (ROD)

Phase 1 Environmental Approval Schedule





Project Development Schedule (to ROD)

Program Priority	Segment	Progress		omplete Purpose & Complete Alternatives Need Statement Analysis		Board Concurrence of Publish Draft EIR/EIS Preliminary Preferred Alt. Draft EIR/EIS			Publish Final EIS & Obtain ROD		Date EIR/EIS To Be Completed			
Number	Section	Due Dates	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current
Document Complete	Merced to Fresno	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Fresno to Bakersfield	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	CV Electrical Interconnections	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
1	San Francisco to San Jose	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Mar-20 Apr-20 49%	Mar-20 Apr-20 43%	Apr-21 Apr-21 0%	Apr-21 Jun-21 ¹ 0%	Apr-21	Jun-21
2	San Jose to Merced	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Dec-19 Mar-20 45%	Dec-19 Mar-20 47%	Dec-20 Dec-20 0%	Dec-20 Apr-21 ² 0%	Dec-20	Apr-21
3	Central Valley Wye (M-F)	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Apr-20 Sep-20 5%	Apr-20 Sep-20 ³ 8%	Sep-20	Sep-20
4	Locally Generated Alternative (F-B)	Plan For e cast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Jul-19 Oct-19 96%	Complete Complete 100%	Aug-19 Oct-19	Complete Complete 100%
5	Los Angeles to Anaheim	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Nov-20 Nov-20 68%	Nov-20 Nov-20 68%	Dec-21 Dec-21 0%	Dec-21 Dec-21 0%	Dec-21	Dec-21
6	Burbank to Los Angeles	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Sep-19 Oct-19 70%	Feb-20 Feb-20 80%	Aug-20 Aug-20 0%	Aug-20 Jan-21 ⁴ 0%	Aug-20	Jan-21
7	Palmdale to Burbank	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Dec-19 Jan-20 64%	Dec-19 Mar-20 66%	Feb-21 Feb-21 0%	Feb-21 Aug-21 ⁵ 0%	Feb-21	Aug-21
8	Bakersfield to Palmdale	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Jul-19 Mar-20 85%	Jul-19 Feb-20 87%	Jun-20 Jun-20 0%	Jun-20 Feb-21 ⁶ 0%	Jun-20	Feb-21
9	HMF	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Apr-16 TBD 0%	Apr-16 TBD 0%	Sep-16 TBD 0%	Sep-16 TBD 0%	Feb-21 TBD 0%	Feb-21 TBD 0%	TBD	TBD

¹ Actual 2-month delay (incorporating 2018 CEQA guidelines and responding to agency comments).

² Actual 4-month delay (incorporating 2018 CEQA guidelines and responding legal and program comments).

³ Actual 4-month delay (day for day slip occurred because of lack of NEPA Assignment).

⁴ Actual 5-month delay (Construction assumptions update and External Agency coordination: Burbank Airport).

⁵ Actual 6-month delay (External Agency Coordination: Una Lake). Developing mitigation plans to minimize or eliminate associated schedule impacts.

⁶ Actual 8-month delay (External Agency Coordination: CCNM). Developing mitigation plans to minimize or eliminate associated schedule impacts.



Project Development – Key Actions

During October, the Authority conducted EIR/EIS document reviews for several project sections. This included review of the decision documents for the Fresno to Bakersfield Final Supplemental EIS; and Finishing Team reviews for distributing to the cooperating agencies the Burbank to Los Angeles and San Jose to Merced Project Section Administrative Draft EIR/EIS documents. The NEPA Assignment Team also initiated its review responsibilities for the Bakersfield to Palmdale Administrative Draft EIR/EIS. For permitting, work continued to obtain environmental approvals (e.g., a Biological Opinion from the U.S. Fish and Wildlife Service) and Valley-to-Valley permits needed for project construction.

Project Development – Key Actions Summary

Project Section	Key Actions
San Francisco to San Jose	 Continuation of internal Authority review of the administrative draft EIR/EIS (Environmental Impact Report/Environmental Impact Statement). Prepared technical feasibility concepts to support coordination activities with Universal Paragon Corporation. Checkpoint B Closure Letters were sent out on October 29 to U.S. Army Corps of Engineers and U.S. Environmental Protection Agency. Checkpoint C Submittal #4 was submitted for Authority and legal counsel review.
San Jose to Merced	 Checkpoint B Closure Letters were sent out on October 29 to U.S. Army Corps of Engineers and U.S. Environmental Protection Agency. Revised the draft Checkpoint C report in response to legal and technical reviews. Submitted the revised administrative draft EIR/EIS to the Finishing Team on October 11. Met with local agencies on preliminary design and infrastructure project coordination.
Central Valley Wye	 U.S. Fish and Wildlife Service Final Biological Opinion received on September 27, 2019. Released supplemental draft EIS for NEPA circulation on September 13, conducted public hearing on October 1, and comment period closed on October 28.
Locally Generated Alternative	 The Authority's Chief Executive Officer signed the Supplemental Record of Decision and the Final Supplemental EIS on October 31, 2019. Readied for Authority review and approval Section 404 and Section 401 Clean Water Act permits and Section 1602 permit for project construction.
Bakersfield to Palmdale	 Held meeting with Cesar Chavez National Monument (CCNM) consulting parties on October 16, 2019. Finalized project footprint for the Refined CCNM Design Option and began the environmental analysis.
Palmdale to Burbank	 Coordination continued with USACE and USEPA on Checkpoint B (for approvals and permits) with regard to impacts to Una Lake. Completed Record Set PEPD documents and made available to FRA for review and comment. Submitted compiled administrative draft EIR/EIS for Finishing Team review. Cooperating agency review of the EIR/EIS is planned for January 2020.
Burbank to Los Angeles	 Continued to conduct consultation with municipalities and agencies within the project section by providing preliminary engineering plans for their review. From this review, refinements were made to the construction phasing plans. Finishing Team review of the administrative draft EIR/EIS was completed and the document was distributed to the cooperating agencies on November 2, 2019
Los Angeles to Anaheim	 Coordination continued with BNSF on project elements and analysis methods for inclusion in the draft EIR/EIS. Continued coordination with Metro, Metrolink and other stakeholder agencies on shared corridor strategies.