



Finance & Audit Committee

# **CENTRAL VALLEY STATUS REPORT**

May 2020 Report (data through March 2020)

## Executive Summary

### Overall

- The Central Valley Status Report (CVSR) projections will be updated with the finalization of the Revised Baseline Schedules (RBS).
- Total contractor invoices for all Construction Packages (CPs) 1-4 totaled \$65M, an increase of \$13M from March 2020's projection of \$52M. Overall, two CPs exceeded their forecasts for March and one CP was on target. April 2020's expenditures are estimated at \$57M.
- Construction labor for the four CPs averaged 698 workers during the March, even as the Central Valley endured one of the wettest months to date with almost 6.5 inches of rain.
- Guideway miles and structure construction progressed this period and saw an increase of one mile from last period's 77 miles and an increase of two structures from last period's 39 structures.
- Approximately \$4B is currently under contract for CPs 1-4, with \$6B required to be under contract to fulfill the American Recovery and Reinvestment Act (ARRA) grant terms. The total of \$6B includes the scope of work for track within the Track and Systems contract, as well as the major CP 1-4 scope additions identified within the contingency for each CP.

### Construction Package 1

- The contractor invoiced \$25M, compared to the \$17M that was projected.
- Seven structures have been built, 10 structures are underway; two miles of guideway are complete, and 11 miles of guideway are available for construction.
- Major Incidental Take Permits (ITPs) will be acquired by the end of the third quarter of 2020, which includes the North Extension.
- The increase in Land Rights Conveyances and Right-of-Way (ROW) acquisitions in the month has enabled the start of work in three new locations: the MID Lateral 6.2, the Downtown Fresno Viaduct and the Golden State Boulevard Bridge.
- storm drain at Herndon/GSB is now open.
- Four locations (storm drain at Kern and Inyo; water line at Cornelia; gas at Mono; and electric at Road 27) will open in April 2020;
- The Authority directed Tutor Perini/Zachry/Parsons (TPZP) to implement 25 design solutions that will remove the need for design variances from third parties and additional ROW parcels.

### Construction Package 2-3

- The contractor invoiced \$25M, compared to the \$20M that was projected.
- Seventeen structures are underway, an increase of two structures from last period; 19 miles of guideway are substantially complete, and work is underway on 26 miles of guideway, totaling 45 miles of guideway available for construction.
- Acquired seven of the required nine ITPs. The remaining ITPs will be acquired by the end of the second quarter of 2020.
- The majority of the third-party agreements are completed. The PCM will conclude maintenance agreements for Type 2 structures (grade separations over highways) as they are completed.
- Bridge construction is progressing at 17 locations; this work includes demolition, earthwork, utility relocations and structure construction.
- Twenty of the 87 utility relocations are complete, and civil work is underway at 24 locations.
- The PCM is working with the design-build contractor to expedite approvals on the outstanding design packages.
- Twenty-three outstanding NCRs (Non-Conformance Reports) were closed in the month of March 2020.

### Construction Package 4

- The contractor invoiced \$15M, on target with the \$15M that was projected.
- Seven structures are underway; 20 miles of guideway are now available for construction.
- 100% of the main design is complete. However, the design-build contractor is redesigning one structure to overcome a utility conflict. This redesign is expected to be finished within the first quarter of 2020.
- Acquired 10 out of the required 12 ITPs; the remaining ITPs are projected to be acquired within the second quarter of 2020.
- Bridge construction is progressing at seven locations. Demolition work of the Certis buildings has been completed.
- 85% of the guideway embankment is substantially complete.

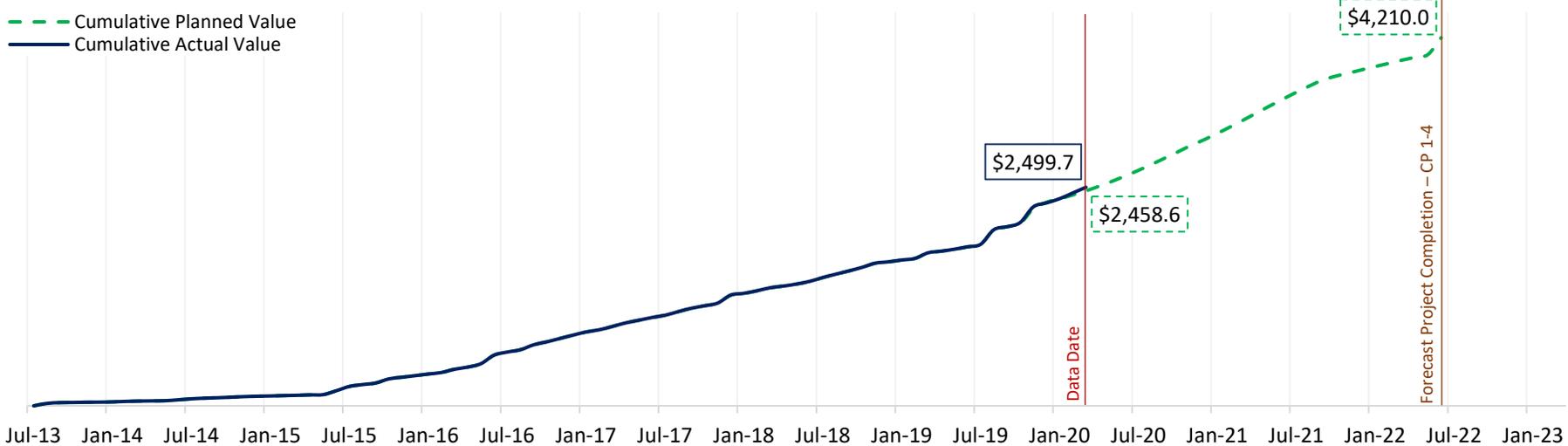
### Real Property (Right-of-Way)

- Production through March 31, 2020 includes the following:
  - Delivered to Design-Builder (DB) – Delivered 13 parcels, and zero delinquent critical parcels.
  - Land Rights Conveyances – Recorded six land rights conveyances, and one delinquent land conveyance not delaying construction.
- Real Property and the PCM contractors continue their efforts to re-baseline design/construction schedules to include all acquisition and land rights conveyances for CP 1-4.
- The Judicial Council of California issued emergency rules for court proceedings related to COVID 19. Each court has the discretion to issue its own general orders and local rules. The Authority has cases in five courts. Delays in court proceedings may result in delayed possession of properties and ability to deliver to the Design-Build Contractor.
- County Recorders' offices are closed to walk in service, resulting in land rights conveyances not being recorded daily. However, this has created only a minimal impact since PG&E agreed to accept fully executed documents in lieu of recorded documents.
- ROW process is being evaluated for what is and is not working, strategies for improvement, and analyzing the adaption to teleworking.

## 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)



The chart above shows historical expenditures from the award of the first construction package through March 31, 2020. The planned values from January 2020 to December 2022 are based on the Proposed Schedules developed for all the construction packages as of January 2020. The completion value (\$4B) 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. It is anticipated that the total current contractual value \$4B will be expended by end of June 2022.

### CP 1-4 – Projected Milestones

Milestone	Date
01. CP 1 Main Design Complete	Jun-20 <sup>1</sup>
02. CP 1 ROW Acquisition Complete	Nov-20
03. CP 1 Environmental Clearance Complete	Jun-20 <sup>3</sup>
04. CP 1 Utility Relocation Complete	Mar-21

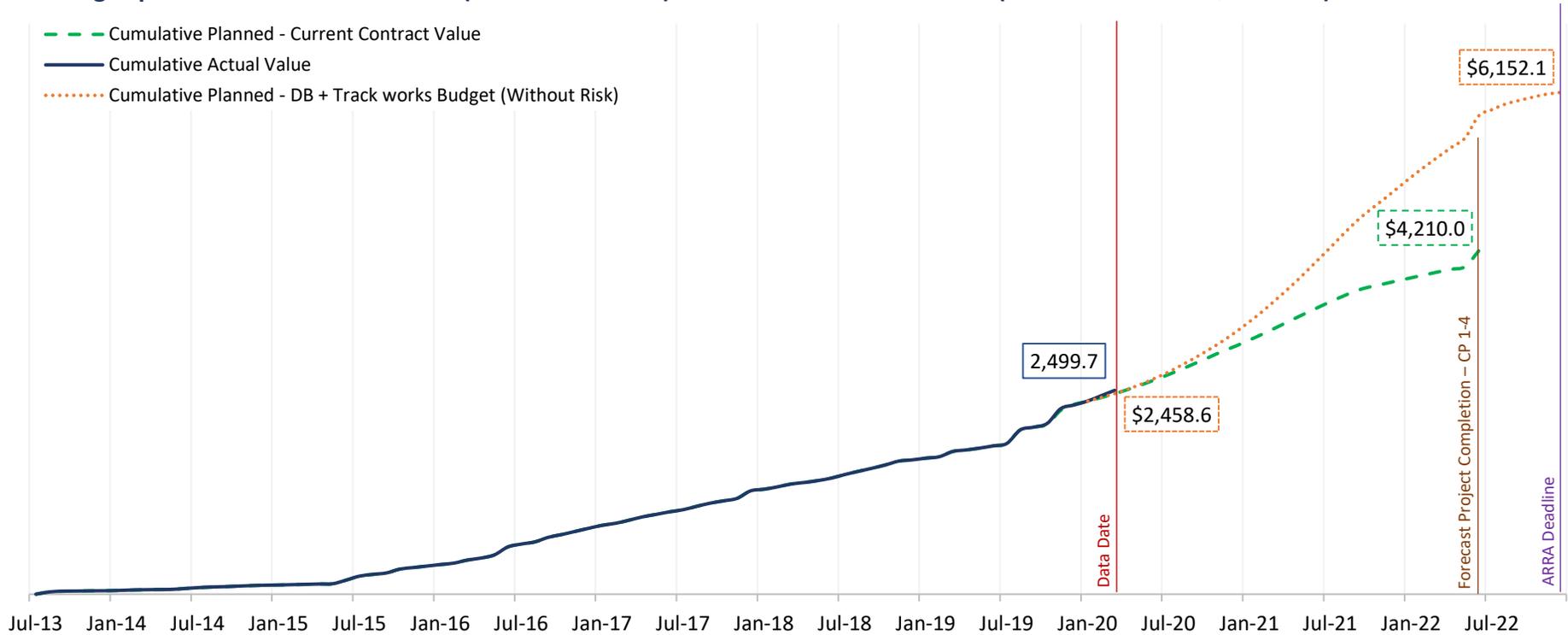
Milestone	Date
05. CP 2-3 Main Design Complete	May-20
06. CP 2-3 ROW Acquisition Complete	Jan-21 <sup>2</sup>
07. CP 2-3 Environmental Clearance Complete	May-20
08. CP 2-3 Utility Relocation Complete	Mar-21

Milestone	Date
09. CP 4 Main Design Complete	Feb-20 (Complete)
10. CP 4 ROW Acquisition Complete	Dec-20
11. CP 4 Environmental Clearance Complete	Jul-20 <sup>4</sup>
12. CP 4 Utility Relocation Complete	Mar-21

**Notes:**

1. CP 1 Main Design has been pushed to June 2020 as the DB, PCM and UPRR address design delays for the utility relocations which is critically impacting the schedules.
2. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs).
3. CP 1 Environmental Clearance pushed to June 2020 in order to review the Hazardous Abatement designs at the structure and guideway sites.
4. Additional Environmental Clearance on lands requiring utility relocations delayed per California Rail Builders (CRB) to July 2020.

### Remaining Expenditures to Achieve ARRA (DB+ Track Works) Within the Current Baseline (No Risk Included - \$ millions)



**Remaining DB and Track Work Baseline Items:**

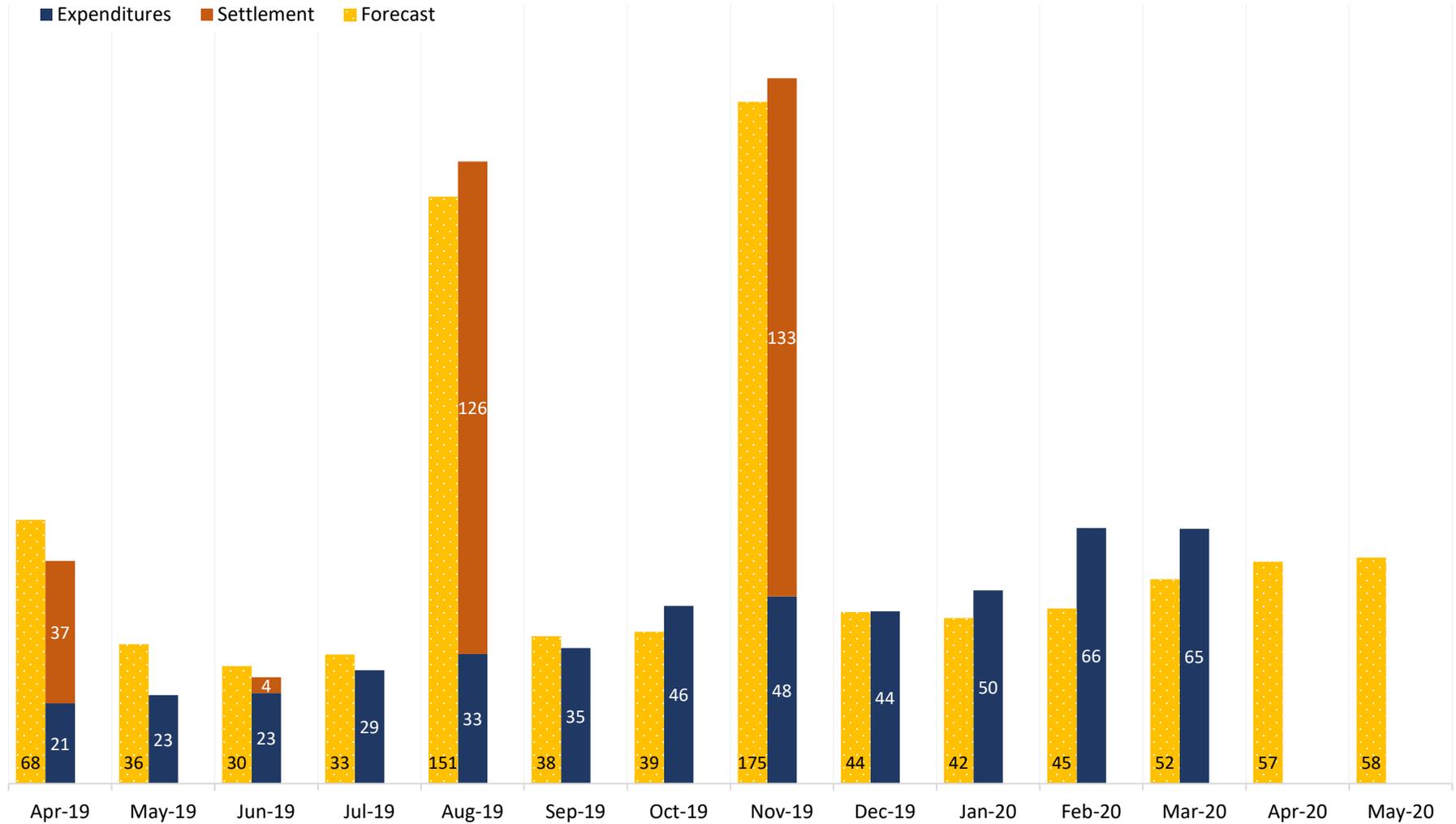
- Intrusion Protection Barriers and other railroad related works.
- North Extension (Avenue 17 to 19 in Madera County).
- Third-Party related work (e.g., Additional PGE and AT&T work).
- Track Works (Needed for ARRA fulfillment).
- Miscellaneous Works Modifications (e.g., Utility Relocation, Environmental Mitigation, Cast in Place Walls).
- Cumulative Planned – Current Contract Value (dotted green line) is based on the current contract values for CP 1-4. This will be updated once the Revised Baseline Schedules (RBSs) are finalized.

**Notes:**

1. The Remaining Baseline items are the Design-Build future scope that are not currently contracted but are required to be completed for delivery of the 119-mile infrastructure.
2. The above forecast does not include the estimated risk in the baseline budget.
3. The June 2022 Cumulative Plan forecast projection moved from February 2020's \$4,127.4M to \$4,210.0M mark because of the \$82.7M in Change Order executions that took place in March 2020.

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

### CP 1-4 – Monthly Expenditures (\$ Millions)

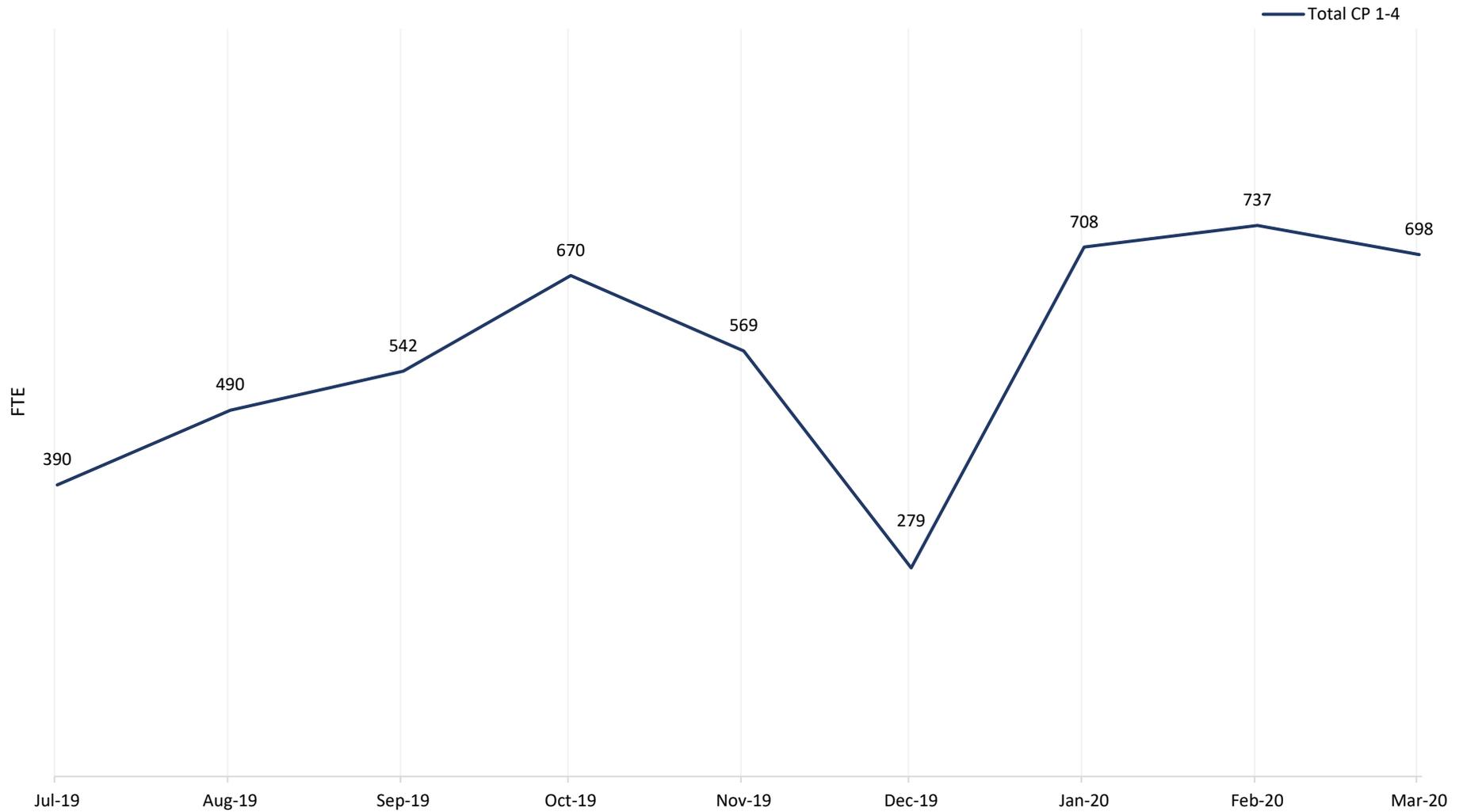


**Notes:**

1. Expenditures contained in the chart above are specific to the Design-Builder production and based on the certified invoice reported in the respective month and do not include accrual adjustments.
2. A revised projection will be updated upon the finalization of the Revised Baseline Schedules (RBSs).
3. Sudden increases in the expenditure values are due to the Time Impact Analysis Settlements.
4. A revised projection has been updated with one CP out of the four CP's finalization of the Revised Baseline Schedules (RBS).

## CP 1-4 Monthly Construction Workforce Total

### CP 1-4 – Monthly Construction Workforce Total – Actual

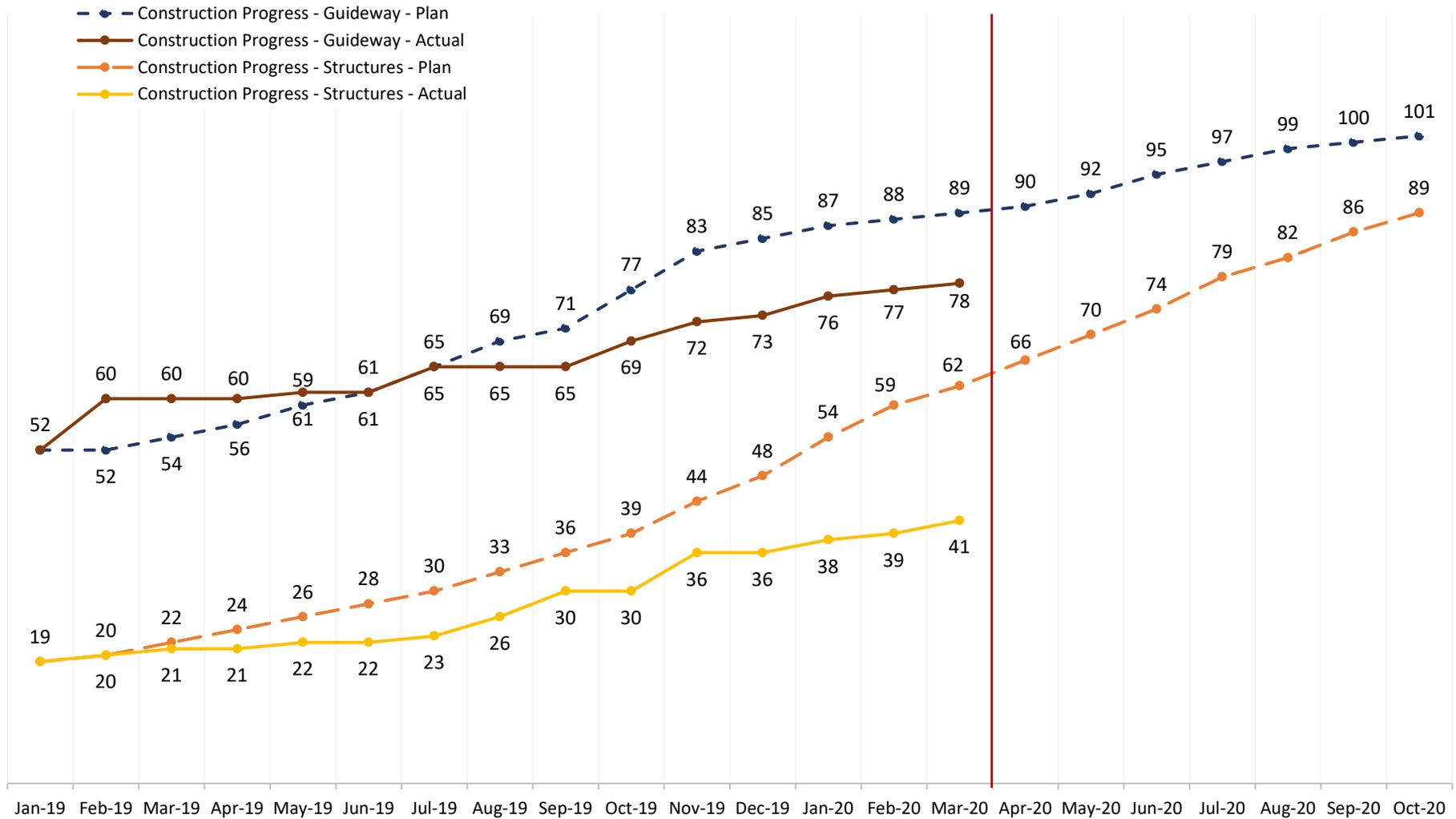


**Notes:**

1. The Construction Labor numbers (Full-Time Employees) are based on the working calendar month.
2. The December 2019 reporting number shows a sharp decrease due to the holiday week of December 23<sup>rd</sup> through December 31<sup>st</sup>.

## 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: ~119 miles.
3. A revised projection will be updated upon the finalization of the Revised Baseline Schedule (RBSs).
4. The March 2020 through October 2020 Plan totals only represent a developing forecast.

## CP 1-4 – Construction Progress

### CP 1-4 – Construction Progress Summary

CP	Category	Progress	Status Update
CP 1	Structures	Planned: 28 Structures Actual: 17 Structures Status: Behind by 11 Structures	<ul style="list-style-type: none"> <li>Golden State Boulevard abutments 1 and 5 are pending execution of out grants to enable the utility cutover relocations. The PCM is finalizing plans for bents 2, 3 and 4 for construction.</li> <li>The PCM is mitigating Jensen Trench Phase I and II gas and sewer relocations, which could bring completion forward to May 2020.</li> <li>The PCM is redesigning Central Avenue, Avenue 15 ½, Avenue 9 and McKinley Avenue to avoid additional ROW requirements. PG&amp;E out grants are in progress, and staff expects early civil packages by August 2020.</li> <li>Herndon Avenue (two structures – one UPRR and one high-speed rail) are pending additional ROW acquisition, which will allow storm drain relocation construction to commence by the start of April 2020.</li> <li>Shaw Avenue will ramp up the work in July 2020 once utility relocation starts. Church Avenue work continues as the PCM and contractor resolve and clarify any factors that may impact the UPRR’s electrical transmission line, which could require ROW and storm drainage redesign.</li> </ul>
CP 1	Guideway	Planned: 16 Miles Actual: 13 Miles Status: Behind by 3 Miles	<ul style="list-style-type: none"> <li>Guideway has cleared 13 miles to include the utilities. Delays are anticipated because Intrusion Protection Barrier (IPB) design has not been finalized (60% design is with the railroad and the Authority for review).</li> <li>Approximately 1.5 miles are being delayed due to Mechanically Stabilized Earth (MSE) wall approval.</li> <li>TPZP is successfully completing three test piles to progress with guideway in Madera County.</li> </ul>
CP 2-3	Structures	Planned: 27 Structures Actual: 17 Structures Status: Behind by 10 Structures	<ul style="list-style-type: none"> <li>Adams Avenue continues to be placed on hold due to the Fresno County encroachment permit.</li> <li>Land rights conveyance and out grant issues are preventing the start of construction at five locations: Floral Avenue, Elkhorn Avenue, Dover Avenue, and Fowler Avenue. However, the PCM team and the Authority are actively working on mitigating these issues.</li> <li>The PCM is working to resolve early work approval issues with Caltrans to begin work at three locations: SR-43 Tied Arch, Tule River and SR-43 Curved Bridge.</li> </ul>
CP 2-3	Guideway	Planned: 54 Miles Actual: 45 Miles Status: Behind by 9 Miles	<ul style="list-style-type: none"> <li>Resolution to the soft soils issue in Segment 3: The PCM is currently evaluating the three-dimensional (3D) model defining the rally waves’ effect on the soft soil. The PCM is currently acquiring more information from Dragados Flat Iron Joint Venture (DFJV) on the 3D test results. The design-build contractor and the Authority are collaborating to revise the designs, as necessary, for solutions to mitigate the affected areas. Once the PCM resolves these issues, eight miles of embankment will be available for construction.</li> <li>The PCM is anticipating that the start of the embankment work from Riverside Ditch to Dover Avenue in Segment 2 will begin over the coming weeks.</li> </ul>
CP 4	Structures	Planned: 7 Structures Actual: 7 Structures Status: On Target	<ul style="list-style-type: none"> <li>Structures design is complete. However, one structure (Peterson Road Underpass) is being redesigned due to pending negotiations with third parties and utilities regarding the relocation of their assets.</li> <li>The PCM continues to negotiate with landowners regarding ROW acquisition. The PCM is evaluating the impact on the start of construction and is implementing mitigation actions.</li> <li>Construction continues on seven structures: the Garces Highway Underpass, Pond Road Underpass, SR-46 HSR, Poso Creek Overpass, Wasco Viaduct, Merced Avenue Overpass, and the Kimberlina Road Underpass.</li> </ul>
CP 4	Guideway	Planned: 19 Miles Actual: 20 Miles Status: Ahead by 1 Mile	<ul style="list-style-type: none"> <li>Guideway construction progress is affected by the ongoing negotiations with landowners regarding land right acquisitions.</li> <li>Subgrade preparation and the importing of embankment, as well as clearing construction activities, continued during the month in available areas.</li> <li>The PCM continues to work on relocating utilities, including PG&amp;E, Sempra, AT&amp;T and others.</li> <li>Completed demolition work on the Certis buildings between 4<sup>th</sup> and 6<sup>th</sup> streets. Earthworks continues along SR-46 and 6<sup>th</sup> Street.</li> </ul>

**Notes:**

1. Out grant refers to grant of interest or right to one to use government real property by a lease, easement, license, or permit. It is an agreement whereby a private party may, depending on the type of real estate instrument issued, enjoy an interest in or use real property.
2. Bents are the basic post and beam structure that forms a cross section for the frame that has been set in place, the bents are then lifted and dropped into place one by one by the crane.

## CP 1 – 4 ROW Summary

### ROW established metrics to track the following:

- **Acquisition Tracking**
  - Parcel: Property rights required from others and public lands (which are property rights required from public entities and/or multiple parties).
  - Railroad: Property rights and other agreements required from railroads.
- **Land Conveyance Tracking**
  - Tier 1: Land Rights Conveyances (critical); entities requiring transfer of title prior to completion of work (PG&E, Southern California Edison, Fresno Irrigation District, Fresno Metropolitan Flood Control District).
  - Tier 2: Land Rights Conveyances (non-critical); entities where transfer of title does not need to occur prior to beginning work.

### CP 1-4 – ROW Parcel Acquisition Summary

Construction Package	March 9, 2020 Total Needed	Total Needed COS Modifications <sup>1</sup>	March 31, 2020 Total Needed	March 9, 2020 Total Acquired	March Acquired	March 31, 2020 Total Acquired
	(A)	(B)	(C) = (A) + (B)	(D)	(E)	(F) = (D) + (E)
CP 1	1,066	22	1,088	828	1	829
CP 2-3	1,011	-11	1,000	604	9	613
CP 4	253	13	266	160	1	161
<b>Total</b>	<b>2,330</b>	<b>24</b>	<b>2,354</b>	<b>1,592</b>	<b>11</b>	<b>1,603</b>

**Note:**

1. For Construction Package 1-4: 42 parcels added through Certificate of Sufficiency (March 20, 2020). 18 parcels removed due to design optimization.

### CP 1-4 – ROW Acquired but Not Delivered to Design-Builder (DB)

Construction Package	March 31, 2020 Total Acquired <sup>1</sup>	March 2020 Delivered to DB <sup>2</sup>	March 31, 2020 Total Delivered to DB <sup>3</sup>	March 31, 2020 Total Acquired, Remaining to Deliver to DB
	(G) = (F)	(H)	(I)	(J) = (G) - (I)
CP 1	829	4	828	1
CP 2-3	613	9	596	17
CP 4	161	0	159	2
<b>Total</b>	<b>1,603</b>	<b>13</b>	<b>1,583</b>	<b>20</b>

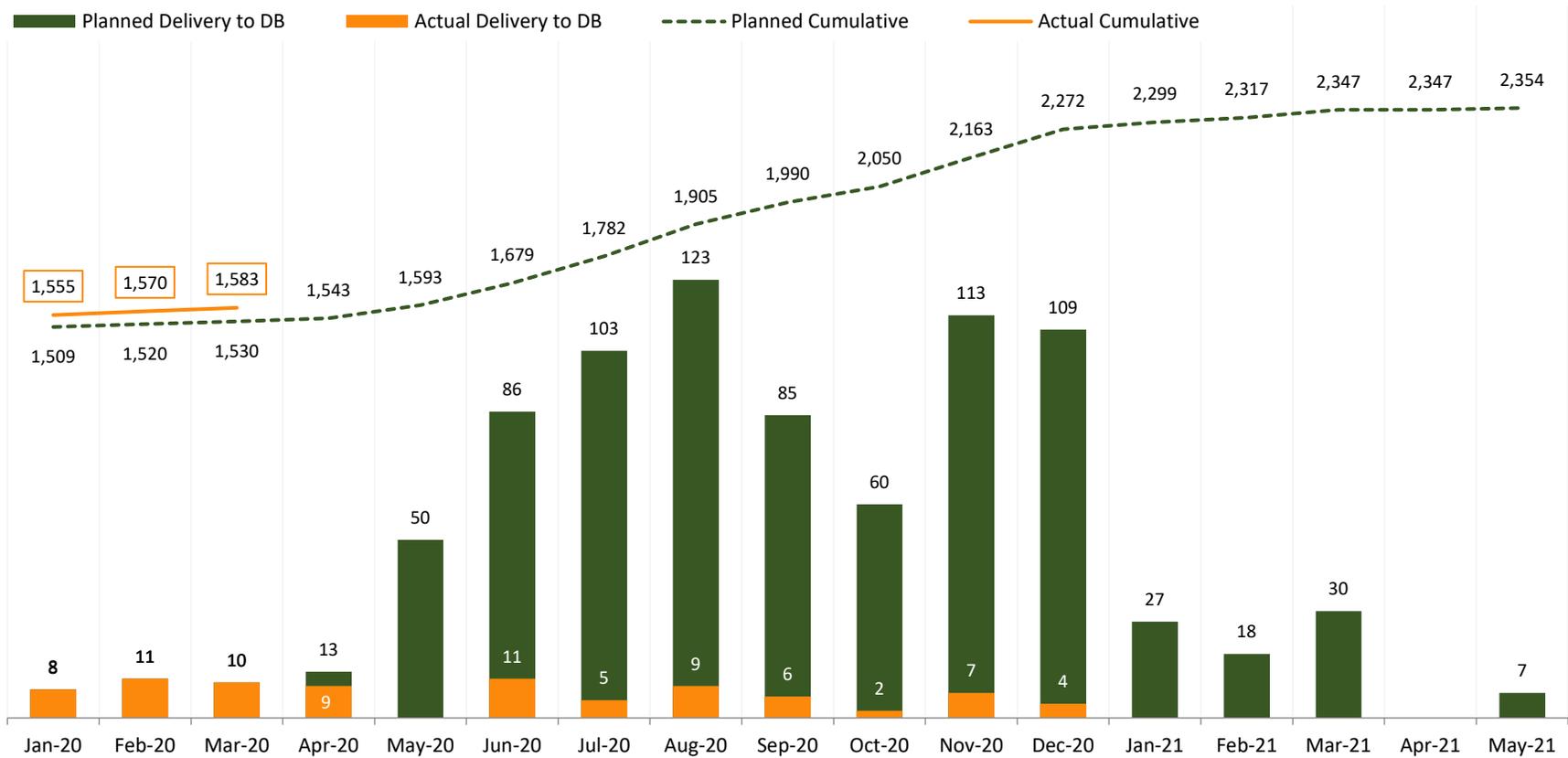
**Notes:**

1. Total acquired is defined as parcels that are legally possessed by the Authority.
2. The 13 parcels Delivered to DB in March include four planned in March, two in April, four in September, and three public lands parcels previously delivered.
3. Delivered to DB is defined as parcels certified for construction and delivered to the Design-Builder.

## CP 1-4 – ROW Summary

Construction Package	Total Needed Parcels March 31, 2020	Total Parcels Delivered to Date March 31, 2020	Remaining Parcels to be Delivered March 31, 2020
CP 1	1,088	828	260
CP 2-3	1,000	596	404
CP 4	266	159	107
<b>Total</b>	<b>2,354</b>	<b>1,583</b>	<b>771</b>

## CP 1-4 – Parcel Delivery to DB Summary



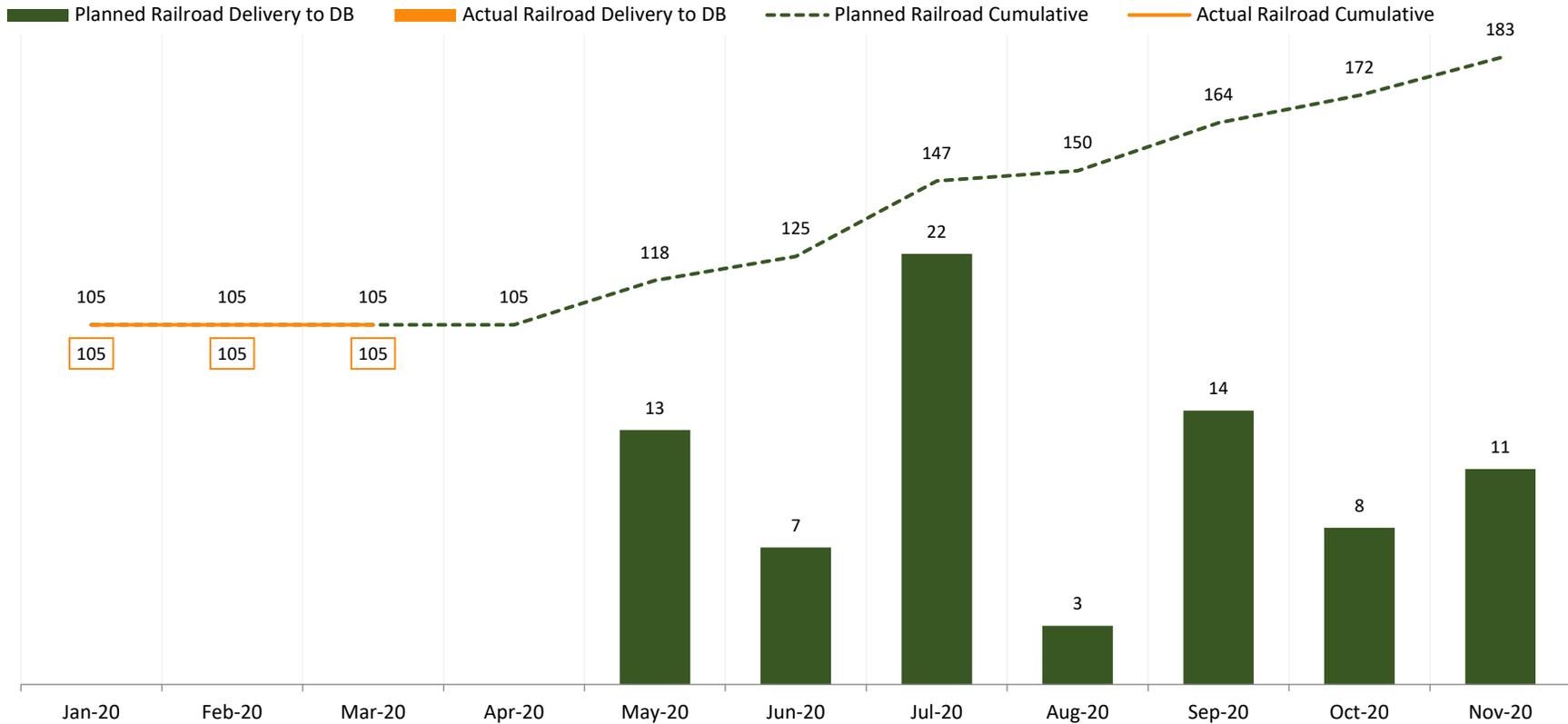
**Notes:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs).
2. Actual and planned Delivered to DB parcels adjusted from last month's report due to continued refinement of the RBS.
3. Actual cumulative line for January 2020 includes updated total of parcels Delivered to DB.
4. Actual cumulative line for March 2020 reflects delivered parcels that are forecasted in future months.

### CP 1-4 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels March 31, 2020	Total Railroad Parcels Delivered to Date March 31, 2020	Remaining Railroad Parcels to be Delivered March 31, 2020
CP 1	95	52	43
CP 2-3	58	26	32
CP 4	30	27	3
<b>Total</b>	<b>183</b>	<b>105</b>	<b>78</b>

### CP 1-4 – Railroad Parcel Delivery to DB Summary



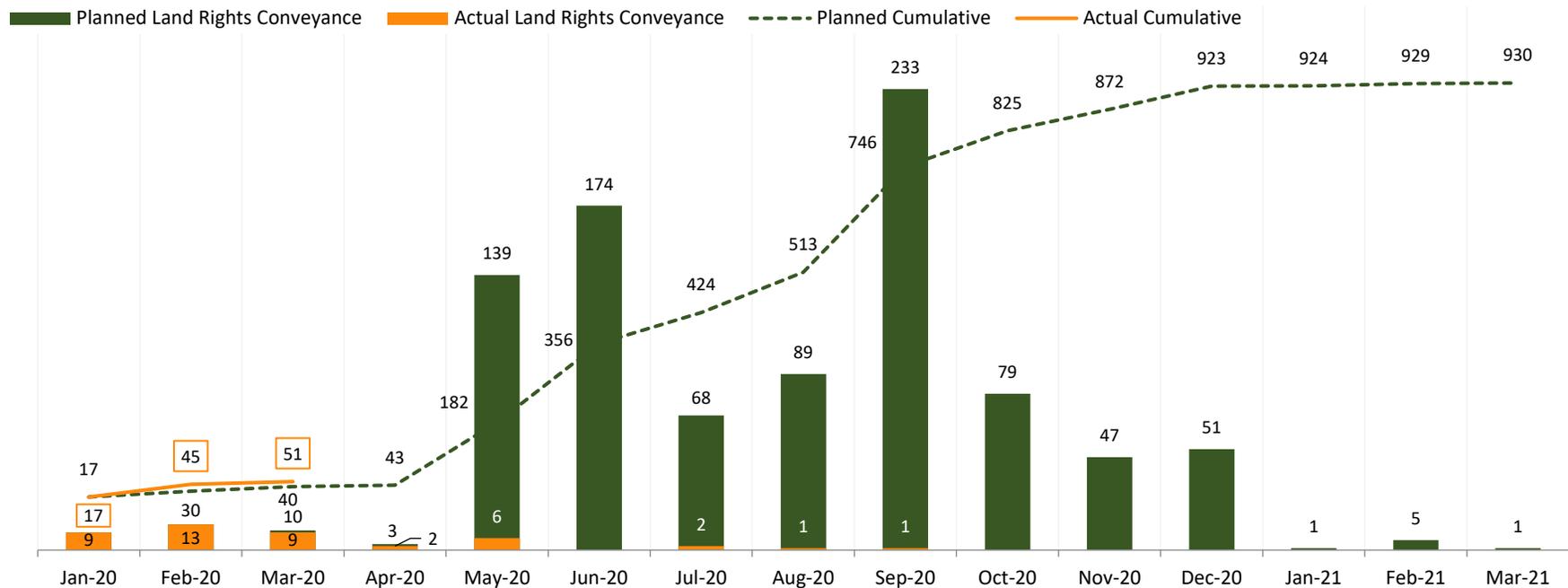
**Notes:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs).

### CP 1-4 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Rights Conveyances March 9, 2020	Total Needed Land Rights Conveyances Modifications <sup>4</sup>	Total Needed Land Rights Conveyances March 31, 2020	Total Land Rights Conveyances Recorded March 9, 2020	Total Land Rights Conveyances Recorded March 9, 2020-March 31, 2020	Remaining Land Rights Conveyances to be Recorded March 31, 2020
CP 1	363	-4	359	21	6	332
CP 2-3	491	-19	472	21	0	451
CP 4	78	21	99	3	0	96
<b>Total</b>	<b>932</b>	<b>-2</b>	<b>930</b>	<b>45</b>	<b>6</b>	<b>879</b>

### CP 1-4 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



- Notes:**
1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs) and the PG&E letter agreement (executed May 6, 2020) that will reclassify numerous land rights conveyances as non-critical for construction.
  2. Actual Cumulative for March 2020 includes completed land rights conveyances that are forecasted in future months.
  3. The planned land rights conveyance dates shown in March (last month's report) were moved to May, July, August, October, November, and December to reflect RBS refinements.
  4. CP 1 and CP 2-3: removed land rights conveyances due to design optimization and GeoAMPS reconciliation. CP 4: added land rights conveyances due to Certificate of Sufficiency and design refinement.

## 119-Mile Central Valley Segment – Third-Party Agreements

### CP 1-4 – Look Ahead - Estimated Completion Timeline for Third-Party Agreements

Entity	Project Section	Result of Resolution	Previous Estimated Completion	Current Estimated Completion
County of Fresno	CP 1 & CP 2-3	Updates road closures, reflecting design changes made since original Cooperative Agreement. Further clarifies remediation of County property post-construction.  Finalized language with County Counsel on April 23, 2020. Waiting for County to place on Board agenda after COVID-19 concerns are alleviated.	Apr-20	Apr-20
County of Fresno	CP 1 & CP 2-3	Defines ownership and maintenance of grade separations between Authority and County in perpetuity.  Finalized language with County Counsel on April 23, 2020. Waiting for County to place on Board agenda after COVID-19 concerns are alleviated.	Apr-20	Apr-20
Madera Valley Water Company (MVWC)	CP 1	Obtain MVWC’s cooperation and capture essential terms working together to relocate MVWC facilities.  MVWC legal review.	Apr-20	Apr-20
Corcoran Irrigation District	CP 2-3	CID’s review of technical engineering documents, coordination, and review of real property documents.  Authority submitted CID agreement on February 13, 2020. CID to provide signature.	Mar-20	Apr-20
County of Kings	CP 2-3	Covers transfer of ROW between Authority and County. Grants immediate right of possession to Authority and use of existing ROW for construction.  Focusing efforts on executing time-critical utility agreement. Once the utility agreement is finalized, staff will resume efforts to negotiate ROW transfer agreement.	On Hold	On Hold
Kings County Water District	CP 2-3	CCUA <sup>1</sup> template allows prompt execution of land conveyances.	Mar-20	Completed
Kings County Water District	CP 2-3	JUA <sup>2</sup> template allows prompt execution of land conveyances.	Mar-20	Completed
Lower Tule River Irrigation District (LTRID)	CP 2-3	LTRID review of technical engineering documents, coordination, and review of real property documents.  In processing by Contracts and Procurements Branch for submittal for LTRID execution.	May-20	May-20

**Notes:**

1. Consent to Common Use Agreement (CCUA) - CCUAs recognize/perpetuate a facility owner’s existing rights where a facility is either protected in place in an area that is now within the Authority’s ROW, or relocated to a new position within the Authority’s ROW, but also still within the facility owner’s existing ROW (for example, an open canal is converted to a box culvert under the Authority corridor). CCUAs also establish the facility owner’s and Authority’s respective rights and obligations for occupying, maintaining, and accessing the joint use area.
2. Joint Use Agreement (JUA) - JUAs identify and convey replacement easement rights to facility owners when their utility facility relocates to a position within the Authority’s ROW and outside or partly outside of the facility owner’s existing ROW. JUAs also establish the facility owner’s and Authority’s respective rights and obligations for occupying, maintaining, and accessing the joint use area.

**CP 1-4 – Look Ahead - Estimated Completion Timeline for Third-Party Agreements (cont'd.)**

Entity	Project Section	Result of Resolution	Previous Estimated Completion	Current Estimated Completion
Settler's Ditch Company	CP 2-3	Settler's review of technical engineering documents, coordination, and review of real property documents. Authority submitted agreement to Settler's on February 13, 2020. Settler's to provide signature.	Mar-20	Apr-20
People's Ditch Company	CP 2-3	People's review of technical engineering documents, coordination, and review of real property documents. Authority submitted agreement to People's on February 13, 2020. People's to provide signature.	Mar-20	Apr-20
Southern California Edison	CP 2-3 & CP 4	Utility agreement addendum for duct and substructure construction work. Resolving remaining provision with Authority legal.	Mar-20	Apr-20
City of Wasco	CP 4	Covers transfer of ROW between Authority and City. Grants immediate right of possession to Authority and use of existing ROW for construction. Focused efforts on utility agreements. Now accelerating efforts back to negotiating this ROW transfer agreement.	May-20	May-20
City of Wasco	CP 4	Defines ownership and maintenance of grade separations between Authority and City in perpetuity. Focused efforts on utility agreements. Now accelerating efforts back to negotiating this ownership and maintenance agreement.	May-20	May-20
Semitropic Water Storage District	CP 4	Design and construction of facilities. Semitropic Board approved March 2020.	Feb-20	May-20
Semitropic Water Storage District	CP 4	JUA template allows prompt execution of land conveyances. Semitropic Board approved March 2020.	Feb-20	May-20
Semitropic Water Storage District	CP 4	CCUA template allows prompt execution of land conveyances. Semitropic Board approved March 2020.	Feb-20	May-20

## 119-Mile Central Valley Segment – Environmental Clearance - Incidental Take Permits (ITP) Summary<sup>1</sup>

### Merced-Fresno 2081 ITP, Permit Number 2081-2013-025-04, Issued on 12-Mar-14

ITP Name	Amendment Status	Construction Project	ITP Amendment Construction Implications	Previous Date of Approval / Issue	Current Date of Approval / Issue
CP 1AB M-F Clean Up No. 2	TPZP/PCM	CP 1	This amendment is incomplete and is currently under review. The amendment will be resubmitted to California Department of Fish and Wildlife (CDFW) after the review is complete.	Mar-20	Mar-20 <sup>2</sup>
North Extension Separation of Rail	In Review with CDFW	CP 1	Accommodates increase in construction footprint to realign high-speed rail guideway away from existing freight rail lines in the North Extension of CP 1.	Jun-20	Jun-20

### Fresno-Bakersfield, 2081 ITP, Permit Number 2081-2015-024-04, Issued on 15-Jun-15

ITP Name	Amendment Status	Construction Project	ITP Amendment Construction Implications	Previous Date of Approval / Issue	Current Date of Approval / Issue
Modified Burrow and Excavation Language	CDFW to Issue	CP 2-3 & CP 4	CDFW initiated an amendment to facilitate construction by modifying burrow and excavation guidance.	Mar-20	Apr-20 <sup>3</sup>
Deer Creek/Cross Creek	CDFW Deemed Complete	CP 2-3	Accommodates design changes in the Deer and Cross Creek areas.	Mar-20	May-20 <sup>4</sup>
Table 5	In Review with CDFW	CP 2-3	Finalizes the locations of dedicated wildlife crossings.	May-20	May-20
BNSF/PG&E	In Review with CDFW	CP 4	Covers additional ROW adjacent to the mainline required for relocation of third-party utilities and access to utilities and BNSF operations areas. The amendment also includes various other small footprint adjustments along the alignment.	May-20	May-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.
2. TPZP has not responded to CDFW incomplete notification of amendment request.
3. Working with California Dept of Fish and Wildlife to achieve more efficient SJAS and TKR trapping and burrow excavation language but has resulted in delay. Does not impact the Authority's ability to continue work under existing language in ITP.
4. Deer Creek/Cross Creek and Table 5 amendment is in mutual delay as they can only be issued after the Burrow and Excavation Language amendment is issued.

## CONSTRUCTION PACKAGE 1 (CP 1) OVERVIEW

### CP 1 – Design-Build Contract Summary

#### Milestones

Milestone	Date
RFQ Date:	11/15/2011
SOQ Date:	12/19/2011
RFP Date:	03/22/2012
Proposal:	01/18/2013
Bid Open Date:	04/13/2013
Award Date:	08/16/2013
NTP 1 Date:	10/15/2013
NTP 2 Date:	11/22/2013
NTP 3 Date:	07/11/2014
Original Completion Date:	03/31/2018
<b>Current Completion Date:</b>	<b>11/02/2021</b>

#### 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:	\$899,943,009.49
Current Contract Amount:	\$1,922,931,009.49
Approved Invoices to Date <sup>1</sup> :	\$1,215,257,496.77
<b>Remaining Contract Balance:</b>	<b>\$707,673,512.72</b>

#### Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded:	1,312
Current Contract Days:	2,940
Work Days Spent (thru 03/31/2020):	2,359

#### Expended to Date

Description	Percentage
Time:	80.2%
Dollars:	63.2%

#### Growth Percentage

Description	Percentage
Time:	80.6%
Dollars:	88.0%

#### Note:

1. Includes estimated March 2020 invoiced amount of \$24,578,243.

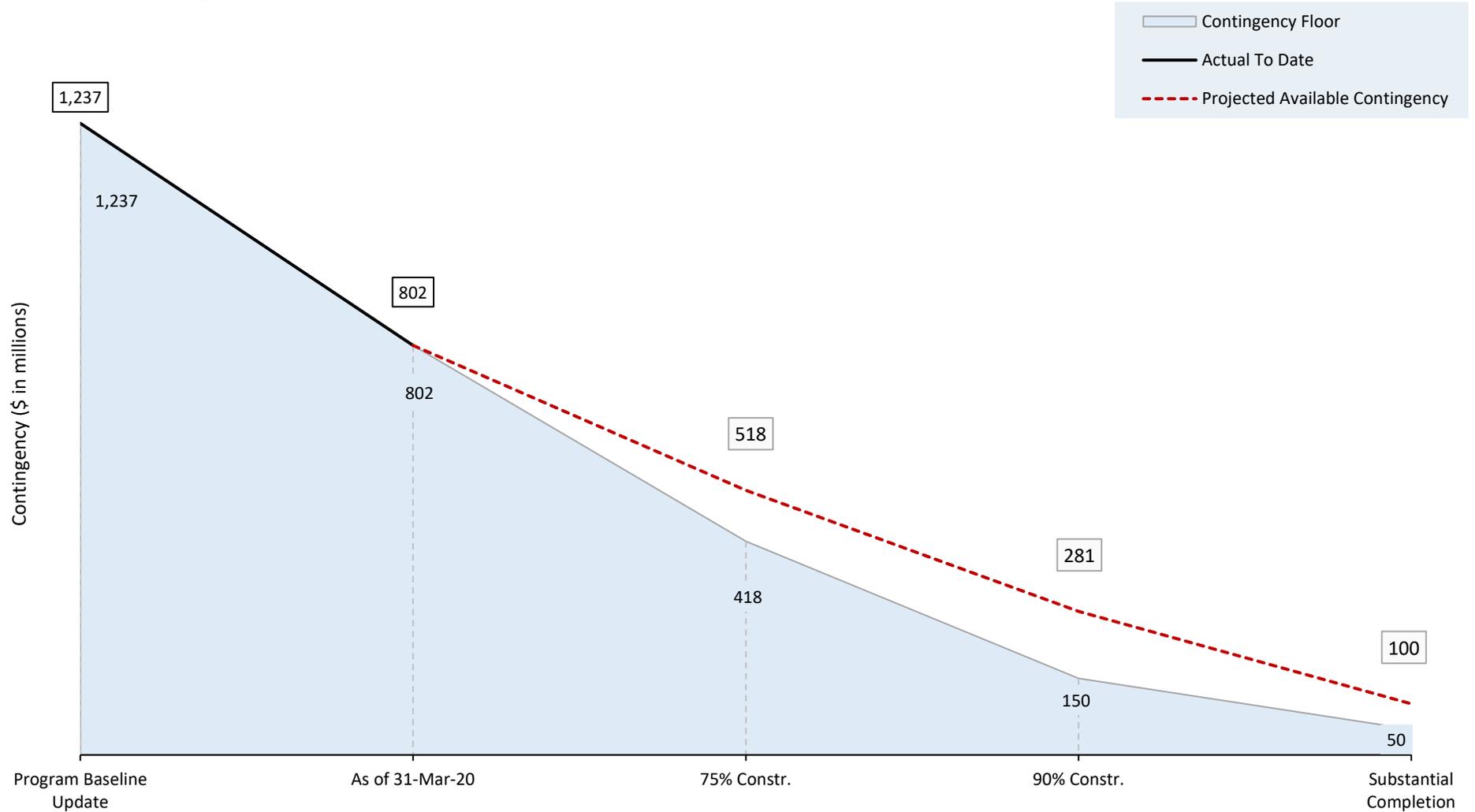
## CP 1 – Executed Change Order Status

### CP 1 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00233.3	Road 27 Delays – MVWC Review Services Agreement Fee Supplemental	Executed	\$5,459.00	19-Mar-20
00296	North Extension Security Cost	Executed	\$62,845.00	19-Mar-20
00291	PG&E Future Franchise Shape File Submission	Executed	\$501,727.00	19-Mar-20
00304	MID Lateral 6.2 Box Culvert Diversion - Construction	Executed	\$1,218,221.00	31-Mar-20
00307	CDFW Addition of Wildlife Crossings - Construction	Executed	\$3,517,264.00	31-Mar-20
00305	Intrusion Protection Requirements - Design	Executed	\$13,898,322.64	31-Mar-20
<b>Total</b>			<b>\$19,203,838.64</b>	

## CP 1 – Risk - Contingency Report

### CP 1 – Risk - Contingency Report

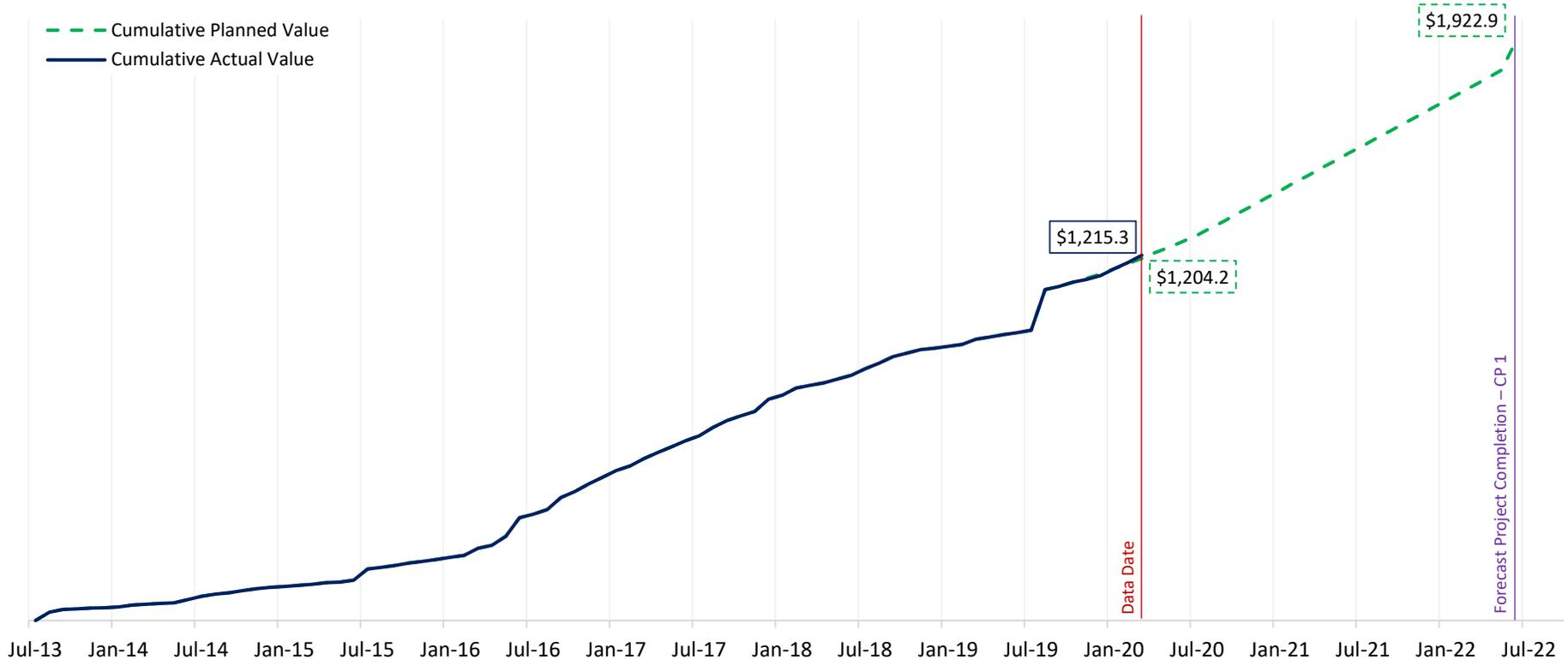


**Notes:**

1. The Program Baseline Update was presented to and accepted by the 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 March 31, 2020.

## CP 1 – Earned Value

### CP 1 – Planned vs. Actual Expenditures from Contract Award Through Contract Completion (\$ Millions)



### CP 1 – Projected Milestones

Milestone	Date
Main Design Complete	Jun-20
ROW Acquisition Complete	Nov-20

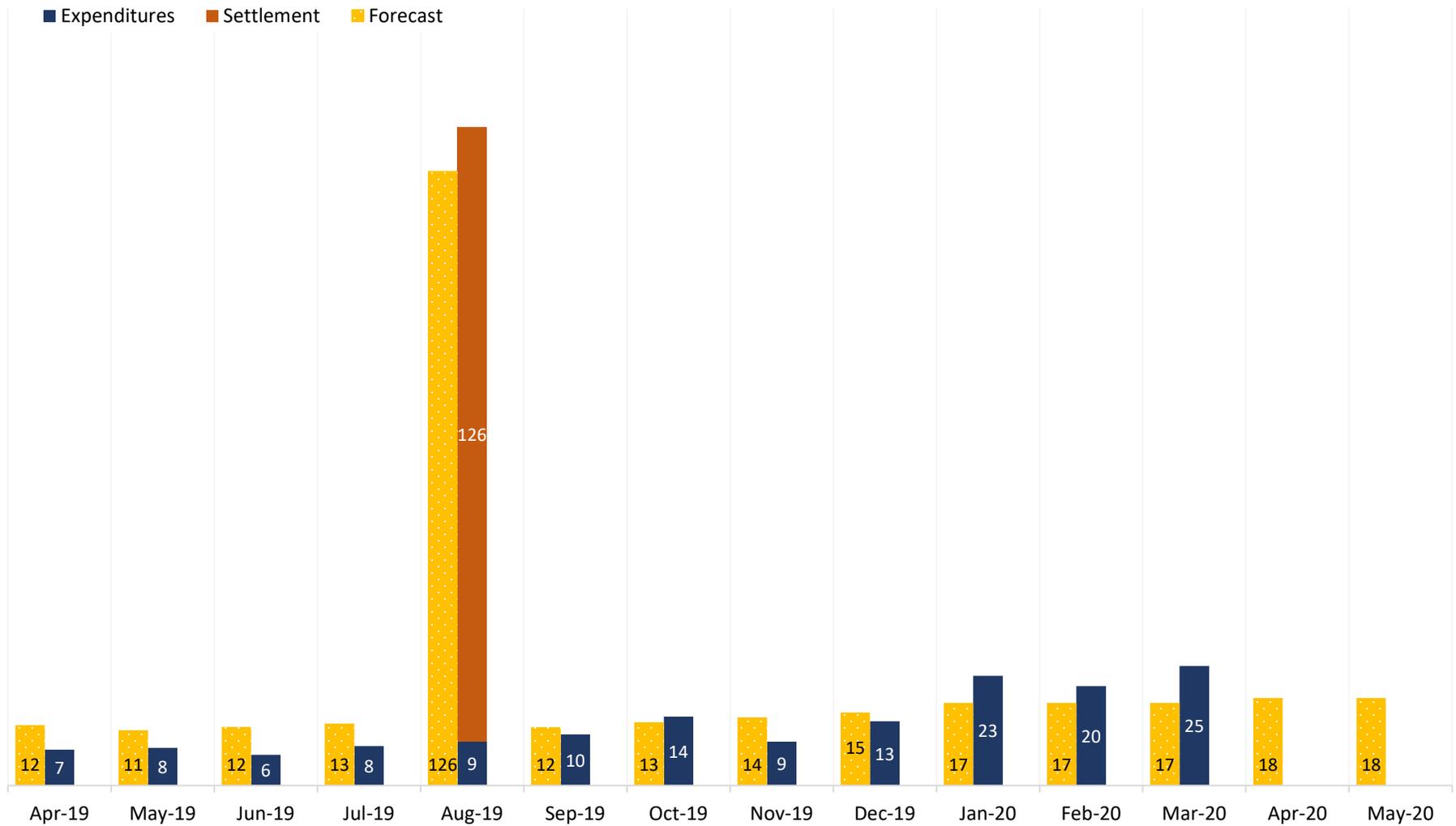
Milestone	Date
Environmental Clearance Complete	Jun-20
Utility Relocation Complete	Mar-21

**Notes:**

1. The Planned Value and Contract Substantial Completion Date is based on the CP 1 Proposed Schedule as of March 2020. This is expected to be refined as future change orders are issued and a Revised Baseline Schedule (RBS) is finalized.
2. The sudden increase in the cumulative value is due to Time Impact Analysis settlement in August 2019.
3. The Current Contract Value at completion does not include unexecuted change orders, including IPB, Herndon, SR-99 section remaining works, and the North Extension Revision.
4. Main Design has been pushed to June 2020 as the DB, PCM and UPRR address design delays for the utility relocations, which is critically impacting the schedules.
5. CP 1 Environmental Clearance pushed to June 2020 in order to review the Hazardous Abatement designs at the structure and guideway sites.

## 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 invoices.
2. The sudden increase in the expenditure value in August 2019 is due to the Time Impact Analysis settlement.

## CP 1 – Construction Progress

### CP 1 – Construction Progress



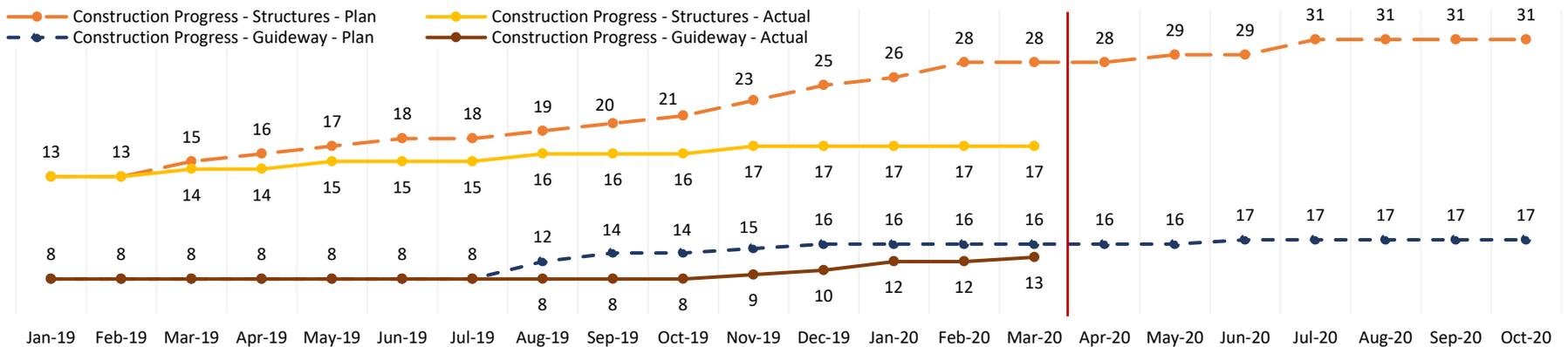
**Forecasted Structures**  
Projections will be included upon the finalization of the Revised Baseline Schedule (RBS)



**Forecasted Guideway**  
Projections will be included upon the finalization of the Revised Baseline Schedule (RBS)



### CP 1 – Construction Progress to Completion – Forecast vs. Actual



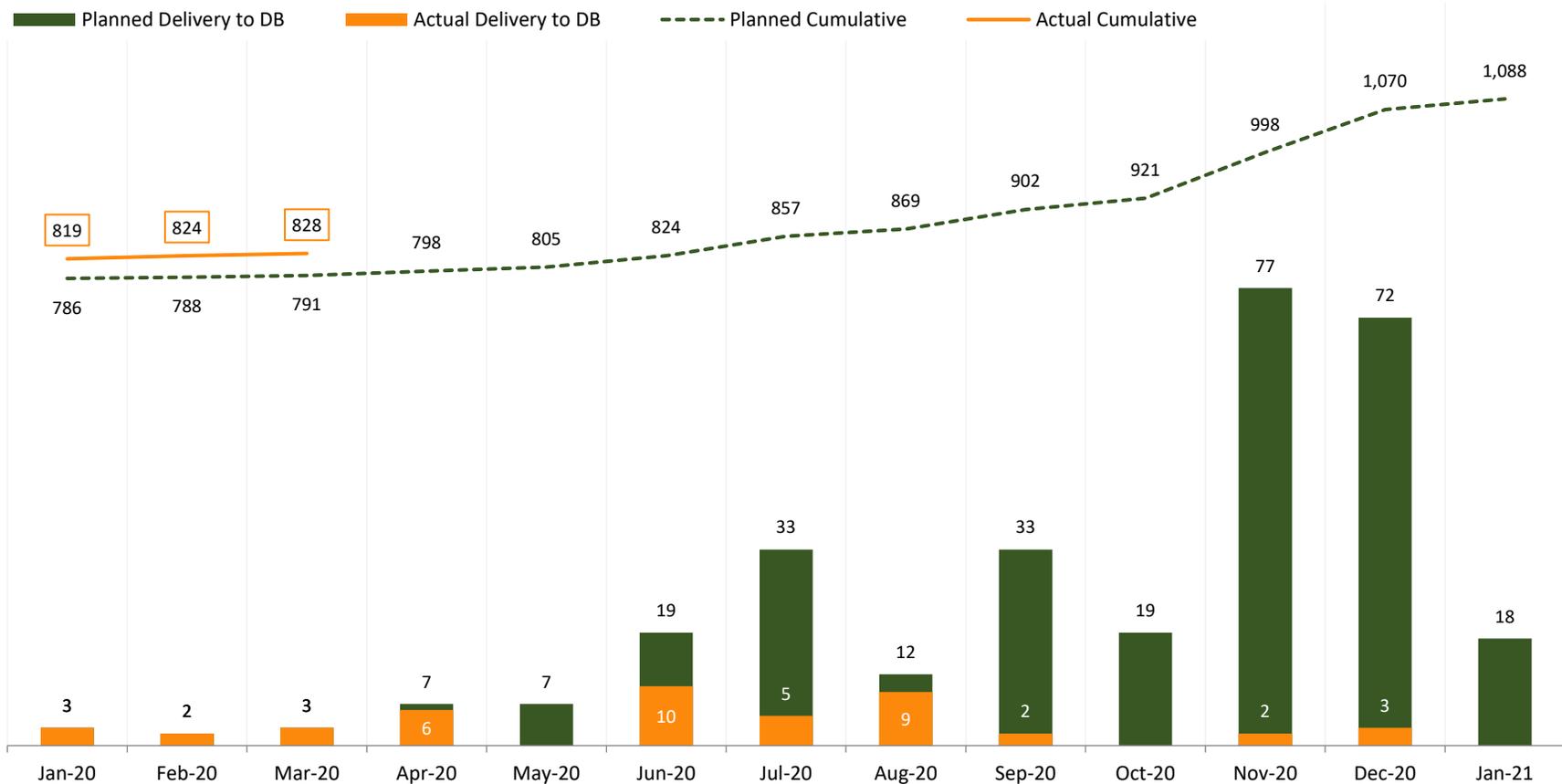
**Notes:**

1. Total Structures: 33 structures.
2. Total Guideway: 32 miles. This does not include SR-99 section. Guideway was added to the Caltrans contract resulting in a guideway total of approximately 32 miles.
3. This forecast is based on the get to work plans developed in January 2019.
4. A revised projection will be updated upon the finalization of the Revised Baseline Schedule (RBS).

## CP 1 – ROW Summary

Construction Package	Total Needed Parcels March 31, 2020	Total Parcels Delivered to Date March 31, 2020	Remaining Parcels to be Delivered March 31, 2020
CP 1	1,088	828	260

## CP 1 – Parcel Delivery to DB Summary



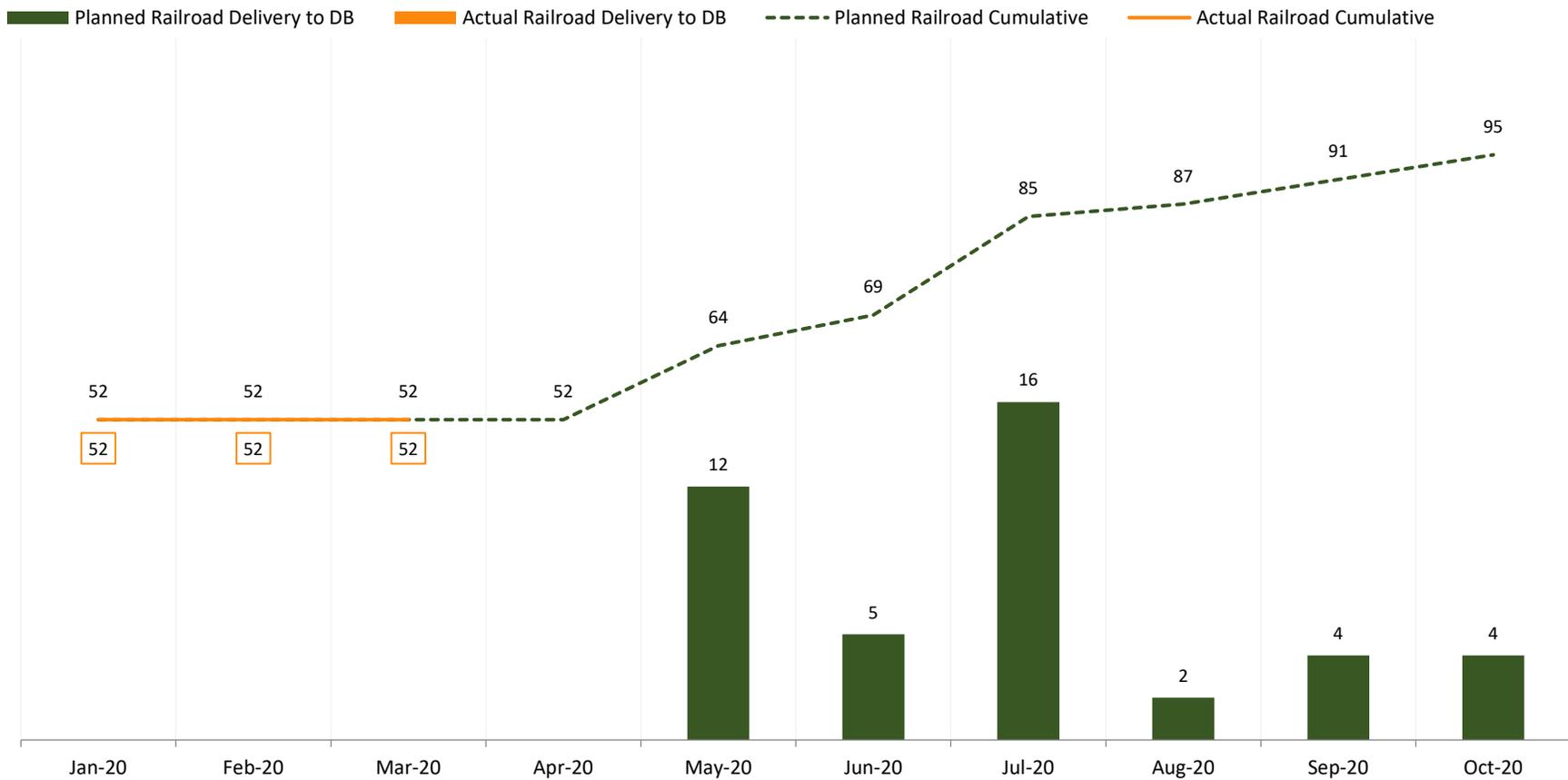
**Notes:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs).
2. Actual and planned Delivered to DB parcels adjusted from last month's report due to continued refinement of the RBS.
3. Actual cumulative line for January 2020 includes updated total of parcels Delivered to DB.
4. Actual cumulative line for March 2020 reflects delivered parcels that are forecasted in future months.

### CP 1 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels March 31, 2020	Total Railroad Parcels Delivered to Date March 31, 2020	Remaining Railroad Parcels to be Delivered March 31, 2020
CP 1	95	52	43

### CP 1 – Railroad Parcel Delivery to DB Summary



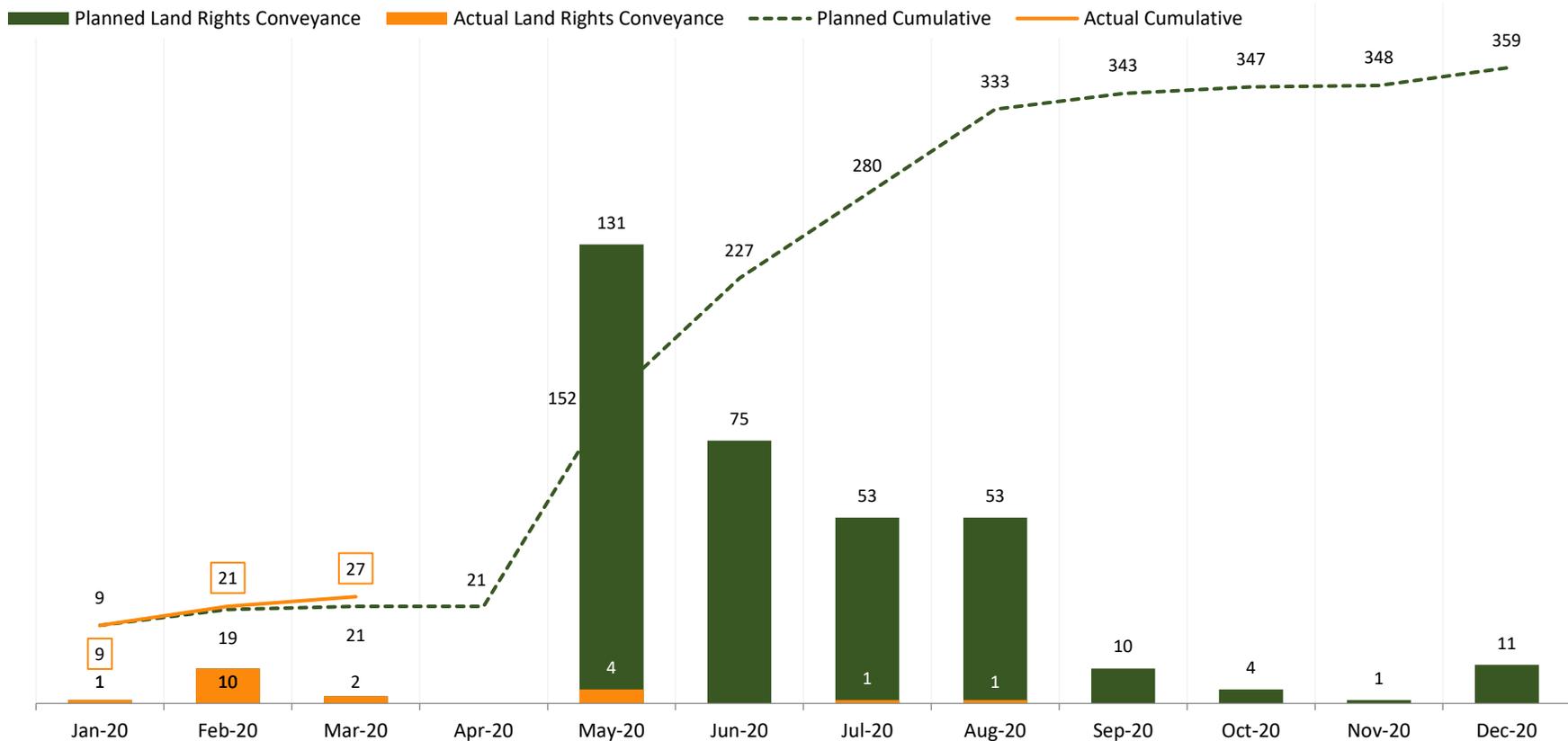
**Note:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBS).

### CP 1 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Rights Conveyances March 31, 2020	Total Land Rights Conveyances Recorded March 31, 2020	Remaining Land Rights Conveyances to be Recorded March 31, 2020
CP 1	359	27	332

### CP 1 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



- Notes:**
1. A revised projection will be updated with the finalization of the Revised Baseline Schedule (RBS) and the PG&E letter agreement (executed May 6, 2020) that will reclassify numerous land rights conveyances as non-critical for construction.
  2. Actual Cumulative for March 2020 includes completed land rights conveyances that are forecasted in future months.
  3. The planned land rights conveyance dates shown in March (last month's report) were moved to May, July, August, October, November, and December to reflect RBS refinements.
  4. CP 1: removed land rights conveyances due to design optimization and GeoAMPS reconciliation.

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

### CP 2-3 – Design-Build Contract Summary

#### Milestones

Milestone	Date
RFQ Date:	10/09/2013
SOQ Date:	12/13/2013
RFP Date:	04/03/2014
Proposal:	10/30/2014
Bid Open Date:	12/11/2014
Award Date:	06/10/2015
NTP 1 Date:	06/12/2015
NTP 2 Date:	07/25/2015
Original Completion Date:	08/19/2019
<b>Current Completion Date:</b>	<b>04/18/2022</b>

#### Contract Value

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:	\$366,500,759.00
Current Contract Amount:	\$1,731,836,649.00
Approved Invoices to Date <sup>1</sup> :	\$991,838,429.00
<b>Remaining Contract Balance:</b>	<b>\$739,998,220.00</b>

#### Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded:	973
Current Contract Days:	2,459
Work Days Spent (thru 03/31/2020):	1,711

#### Expended to Date

Description	Percentage
Time:	69.6%
Dollars:	57.3%

#### Growth Percentage

Description	Percentage
Time:	65.5%
Dollars:	26.8%

#### Note:

1. Includes estimated March 2020 invoiced amount of \$25,483,822.

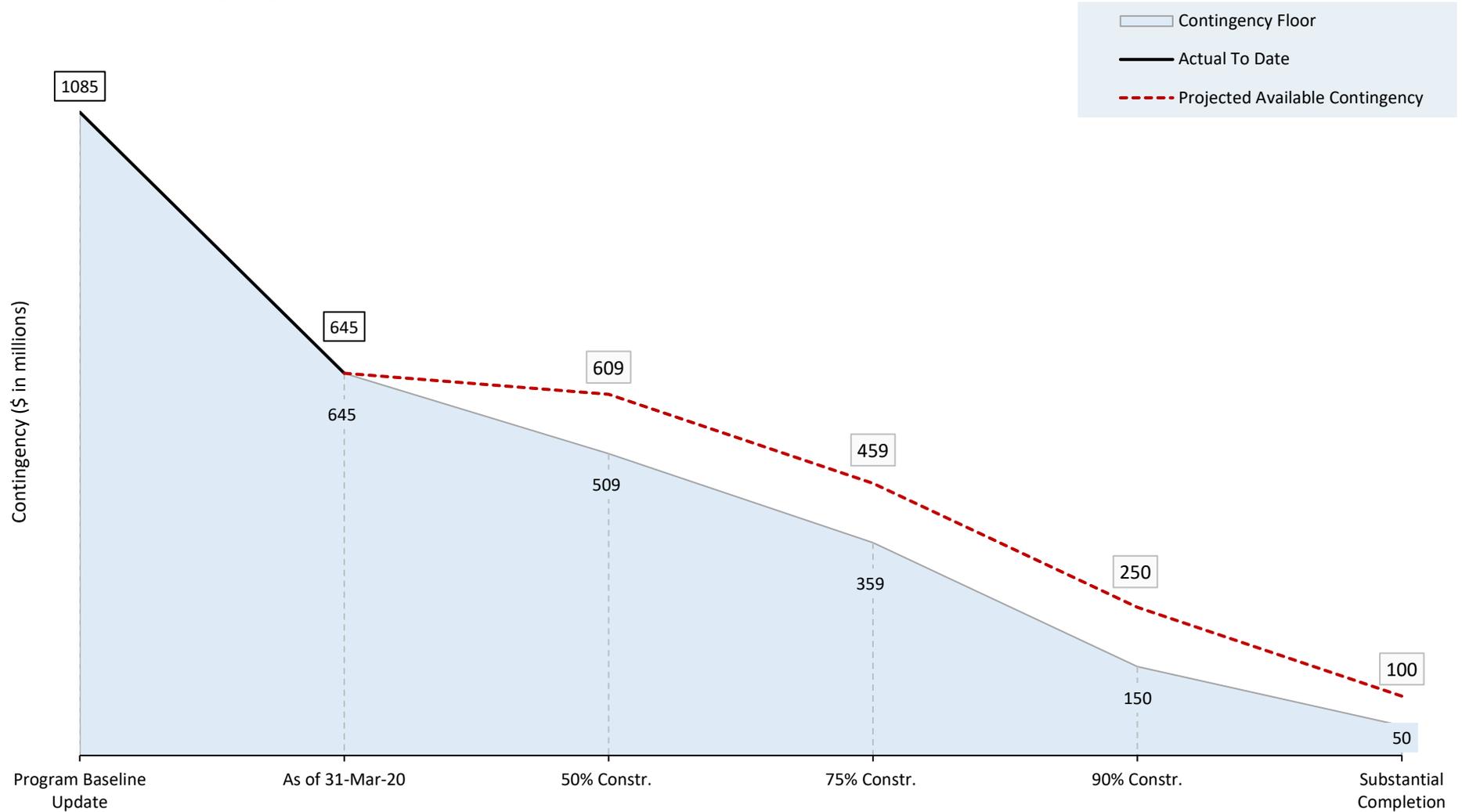
## CP 2-3 – Executed Change Order Status

### CP 2-3 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00131	South Avenue Jack Bore RC Agreement TM	Executed	\$42,055.00	20-Mar-20
00125	10" HDPE Level 3 - Conejo Avenue	Executed	\$189,428.00	20-Mar-20
00133	Barcelos Water Service Connection	Executed	\$375,236.00	20-Mar-20
00080.1	Additional Waterline @ 4 1/2 Avenue	Executed	\$377,858.00	20-Mar-20
00132	ROW Acquisition - Additional ROW Utility Relocation	Executed	\$387,272.00	20-Mar-20
00045.4	Escalation Costs - December 2019	Executed	\$412,220.00	20-Mar-20
00126	10" HDPE Level 3 - Kamm Avenue	Executed	\$492,048.00	20-Mar-20
00124	10" HDPE Level 3 - Sumner Huntsman Avenue	Executed	\$606,248.00	20-Mar-20
00138	Precast Girders Storage - T&M	Executed	\$652,000.00	20-Mar-20
00127	Type 2 Structure Access Roads	Executed	\$2,100,413.00	20-Mar-20
00137	Precast Girders Storage	Executed	\$4,925,000.00	20-Mar-20
00136	GTC - Embankment Construction at Nevada Avenue and Avenue 144	Executed	\$14,666,140.00	26-Mar-20
00109.1	Project Floodplain Limit Increases	Executed	\$22,283,480.00	26-Mar-20
<b>Total</b>			<b>\$47,509,398.00</b>	

## CP 2-3 – Risk - Contingency Report

### CP 2-3 – Risk - Contingency Report

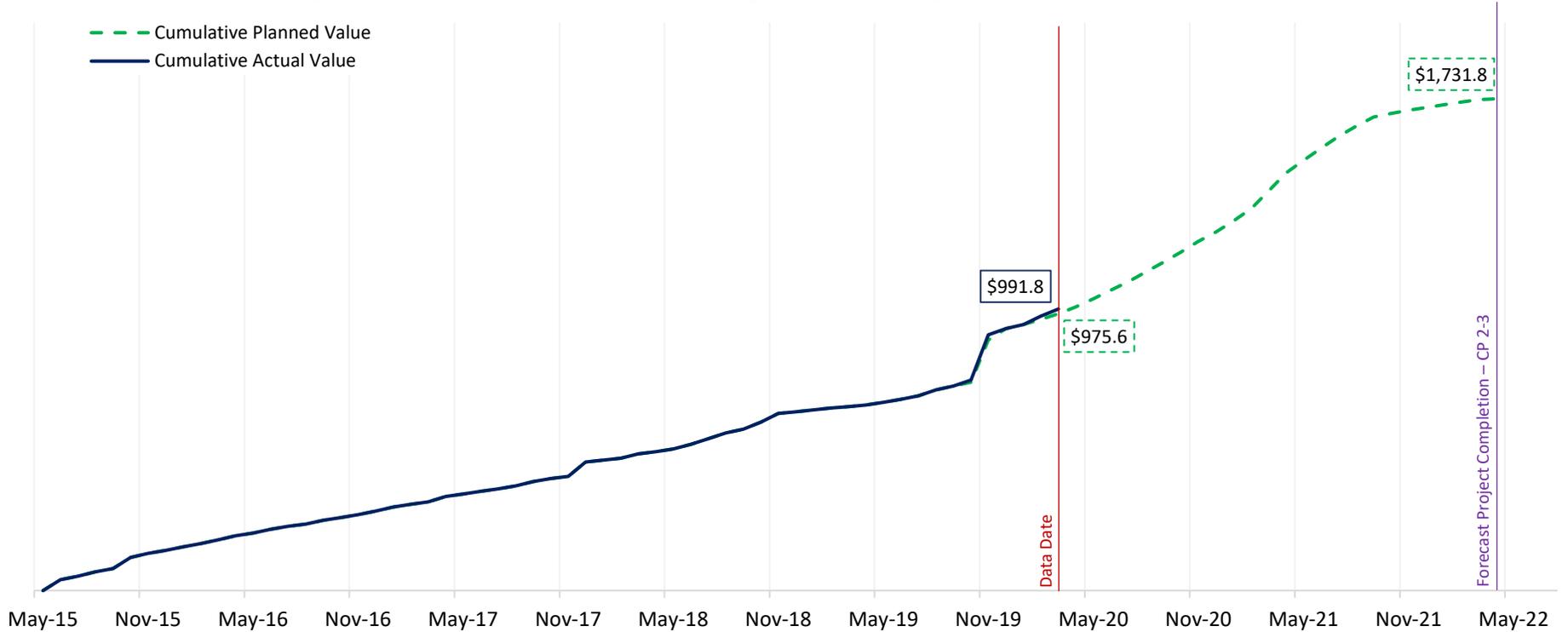


**Notes:**

1. The Program Baseline Update was presented to and accepted by the 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 March 31, 2020.

## CP 2-3 – Earned Value

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



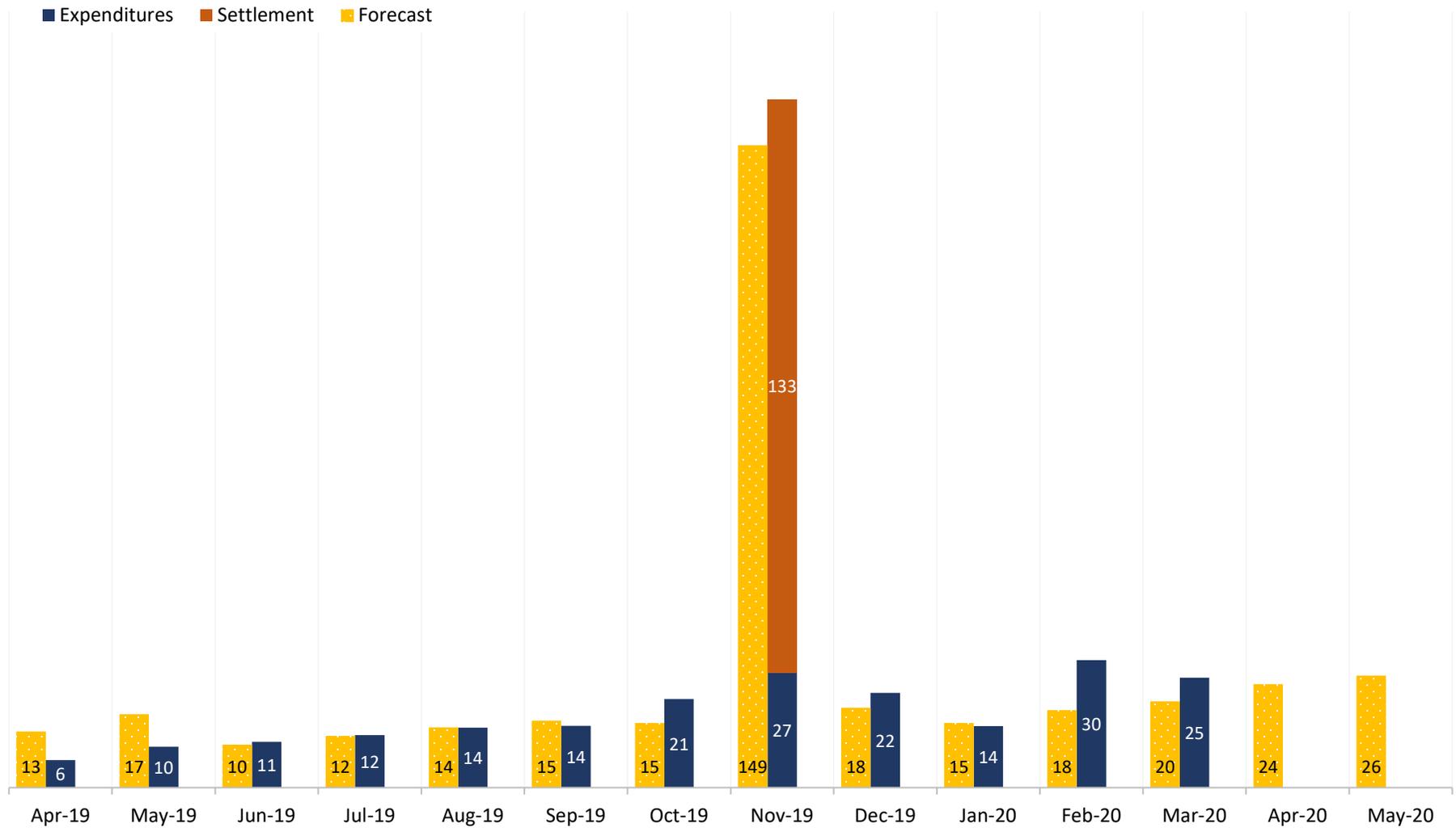
### CP 2-3 – Projected Milestones

Milestone	Date	Milestone	Date
Main Design Complete	May-20	Environmental Clearance Complete	May-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 March 2020. This is expected to be refined as future change orders are issued and a Revised Baseline Schedule (RBS) is finalized.
  2. The sudden increase in the cumulative value is due to the Time Impact Analysis (TIA) settlement.
  3. The Current Contract Value does not include unexecuted change orders including Project 517, the latest TIA settlement, and IPB change orders.
  4. Environmental Clearance pushed to May 2020 in order to finalize the map book amendment regarding the locations of dedicated wildlife crossings.

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

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

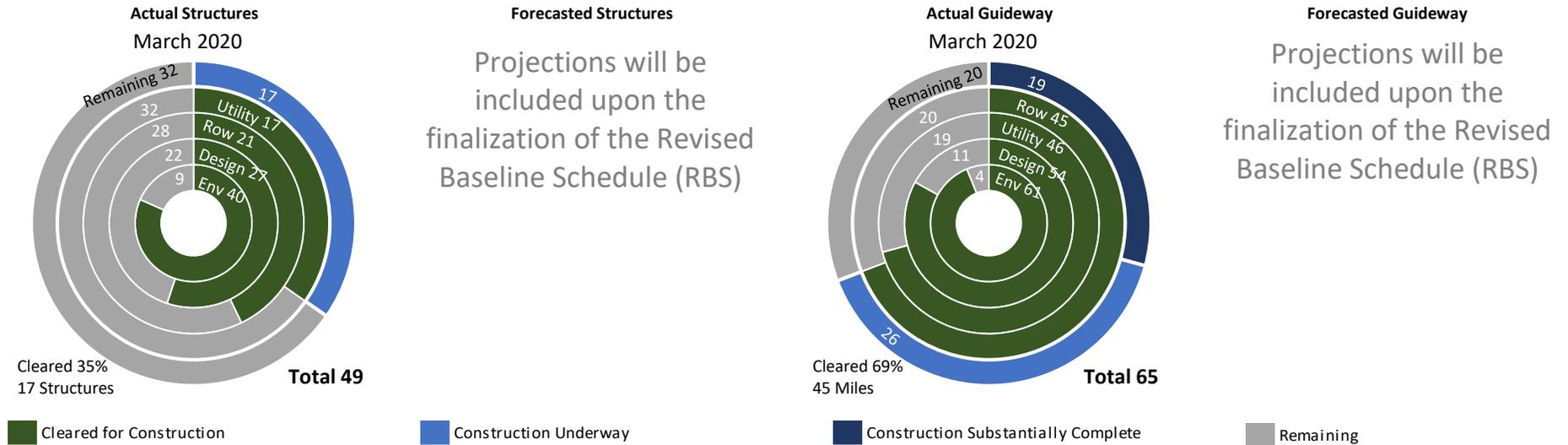


**Notes:**

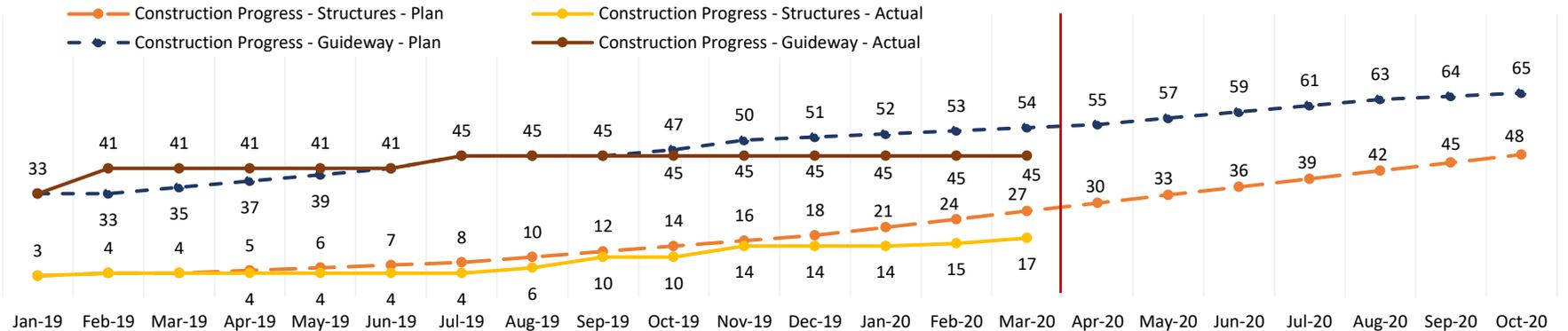
1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoices.
2. The sudden increase in the expenditure value in November 2019 is due to the Time Impact Analysis settlement.

## CP 2-3 – Construction Progress

### CP 2-3 – Construction Progress



### CP 2-3 – Construction Progress to Completion – Forecast vs. Actual



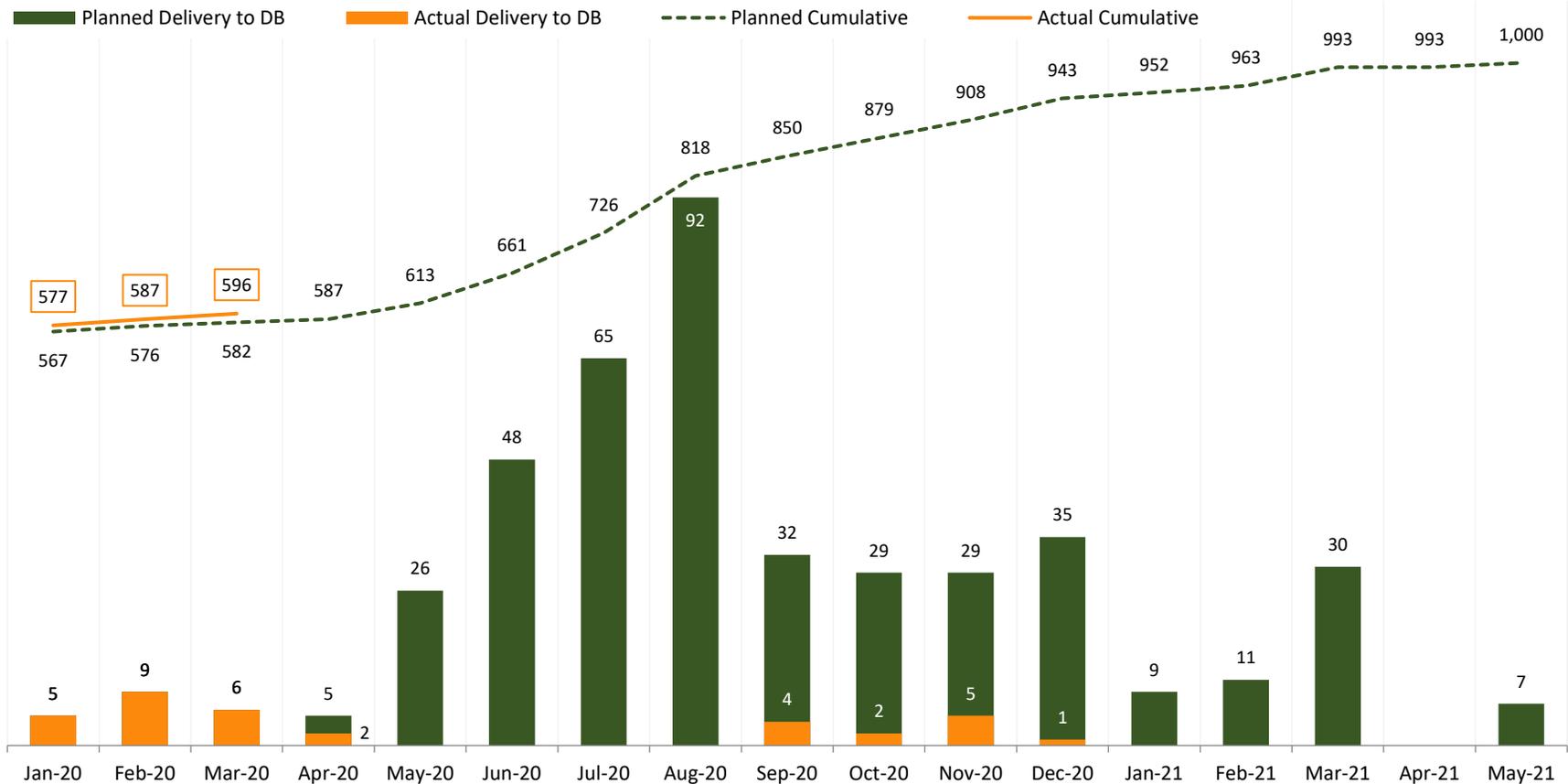
**Notes:**

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 January 2019.
4. A revised projection will be updated upon the finalization of the Revised Baseline Schedule (RBS).

## CP 2-3 – ROW Summary

Construction Package	Total Needed Parcels March 31, 2020	Total Parcels Delivered to Date March 31, 2020	Remaining Parcels to be Delivered March 31, 2020
CP 2-3	1,000	596	404

## CP 2-3 – Parcel Delivery to DB Summary



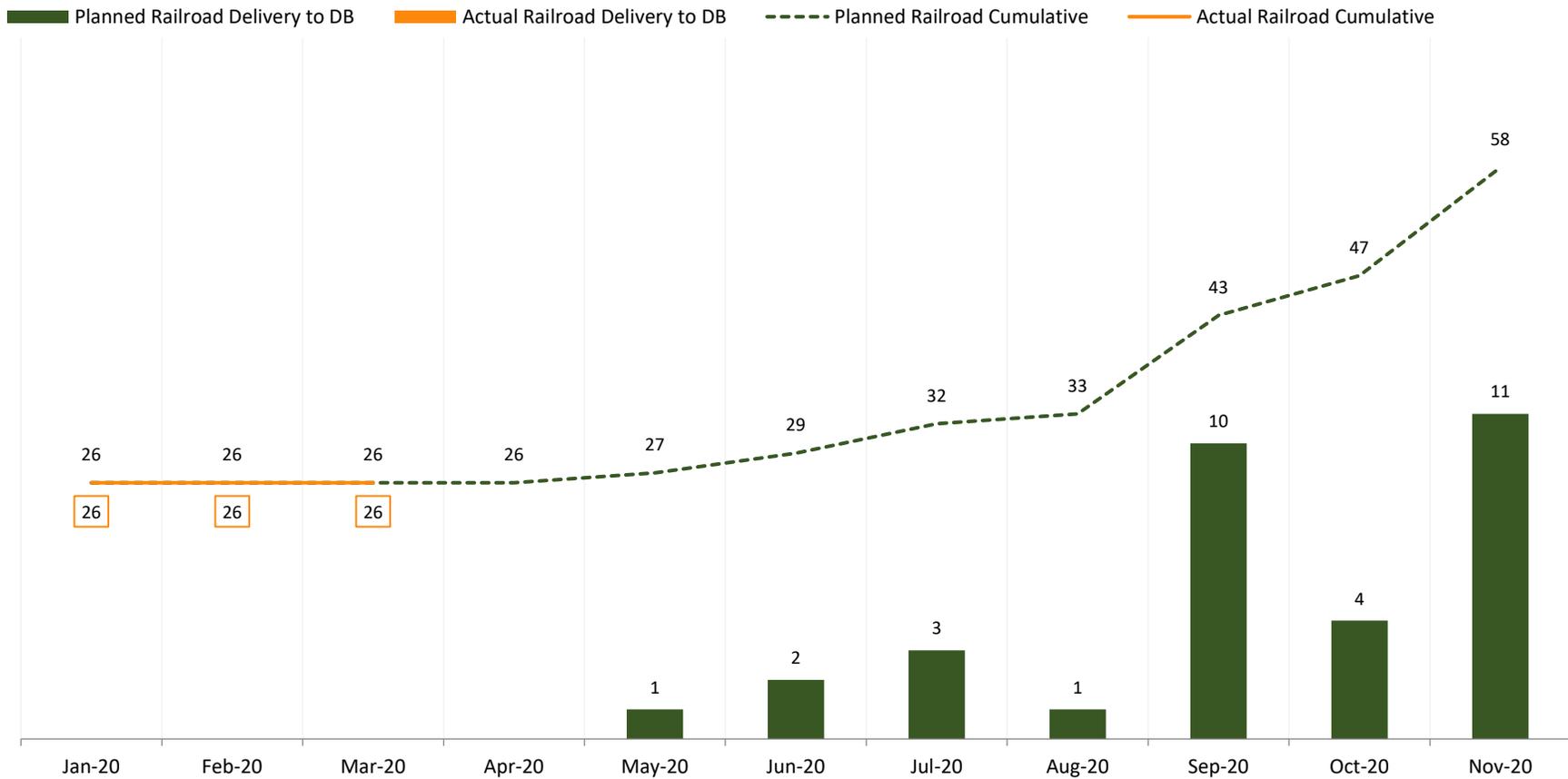
**Notes:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs).
2. Actual and planned Delivered to DB parcels adjusted from last month's report due to continued refinement of the RBS.
3. Actual cumulative line for January 2020 includes updated total of parcels Delivered to DB.
4. Actual cumulative line for March 2020 reflects delivered parcels that are forecasted in future months.

### CP 2-3 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels March 31, 2020	Total Railroad Parcels Delivered to Date March 31, 2020	Remaining Railroad Parcels to be Delivered March 31, 2020
CP 2-3	58	26	32

### CP 2-3 – Railroad Parcel Delivery to DB Summary



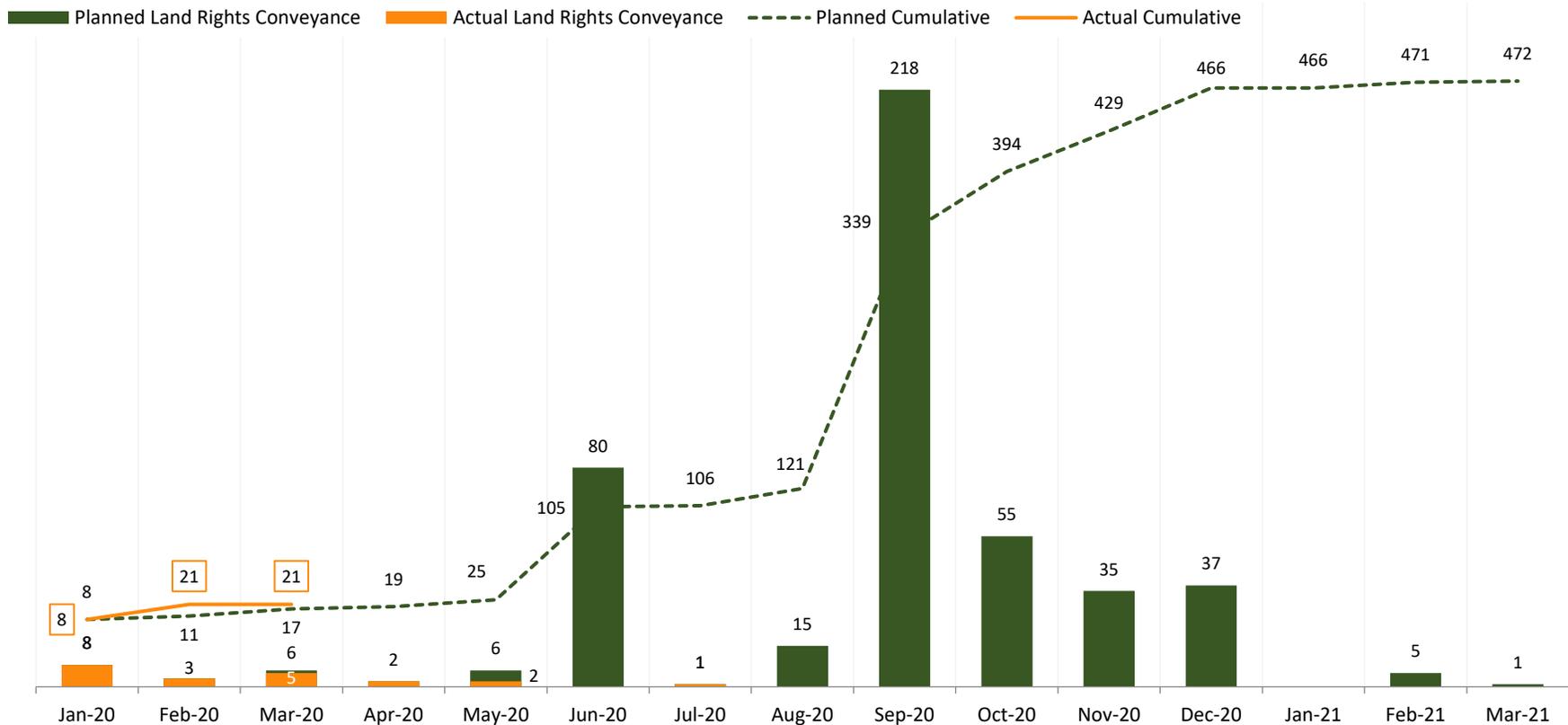
**Notes:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBS).

### CP 2-3 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Rights Conveyances March 31, 2020	Total Land Rights Conveyances Recorded March 31, 2020	Remaining Land Rights Conveyances to be Recorded March 31, 2020
CP 2-3	472	21	451

### CP 2-3 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



- Notes:**
1. A revised projection will be updated with the finalization of the Revised Baseline Schedule (RBS) and the PG&E letter agreement (executed May 6, 2020) that will reclassify numerous land rights conveyances as non-critical for construction.
  2. Actual Cumulative for March 2020 includes completed land rights conveyances that are forecasted in future months.
  3. The planned land rights conveyance dates shown in March (last month's report) were moved to May, July, August, October, November, and December to reflect RBS refinements.
  4. CP 2-3: removed land rights conveyances due to design optimization and GeoAMPS reconciliation.

## CONSTRUCTION PACKAGE 4 (CP 4) OVERVIEW

### CP 4 – Design-Build Contract Summary

#### Milestones

Milestone	Date
RFQ Date:	11/20/2014
SOQ Date:	01/30/2015
RFP Date:	05/27/2015
Proposal:	11/25/2015
Bid Open Date:	01/05/2016
Award Date:	02/29/2016
LNTP Date:	03/01/2016
NTP Date:	04/15/2016
Original Completion Date:	06/03/2019
<b>Current Completion Date:</b>	<b>06/30/2021</b>

#### Contract Value

Description	Amount
Fixed Bid Price:	\$337,247,000.00
Provisional Sums:	\$107,000,000.00
Original Contract Price:	\$444,247,000.00
Executed Change Orders:	\$110,995,432.90
Current Contract Amount:	\$555,242,432.0
Approved Invoices to Date <sup>1</sup> :	\$292,615,273.00
<b>Remaining Contract Balance:</b>	<b>\$262,627,159.90</b>

#### Contract Time Status

Description	Duration <sup>2</sup>
Original Contract Days:	1,144
Extension of Time Awarded:	757
Current Contract Days:	1,901
Work Days Spent (thru 03/31/2020):	1,445

#### Expended to Date

Description	Percentage
Time:	76.0%
Dollars:	52.7%

#### Growth Percentage

Description	Percentage
Time:	66.2%
Dollars:	25.0%

#### Notes:

1. Includes estimated March 2020 invoiced amount of \$15,342,455.
2. Calendar Days.

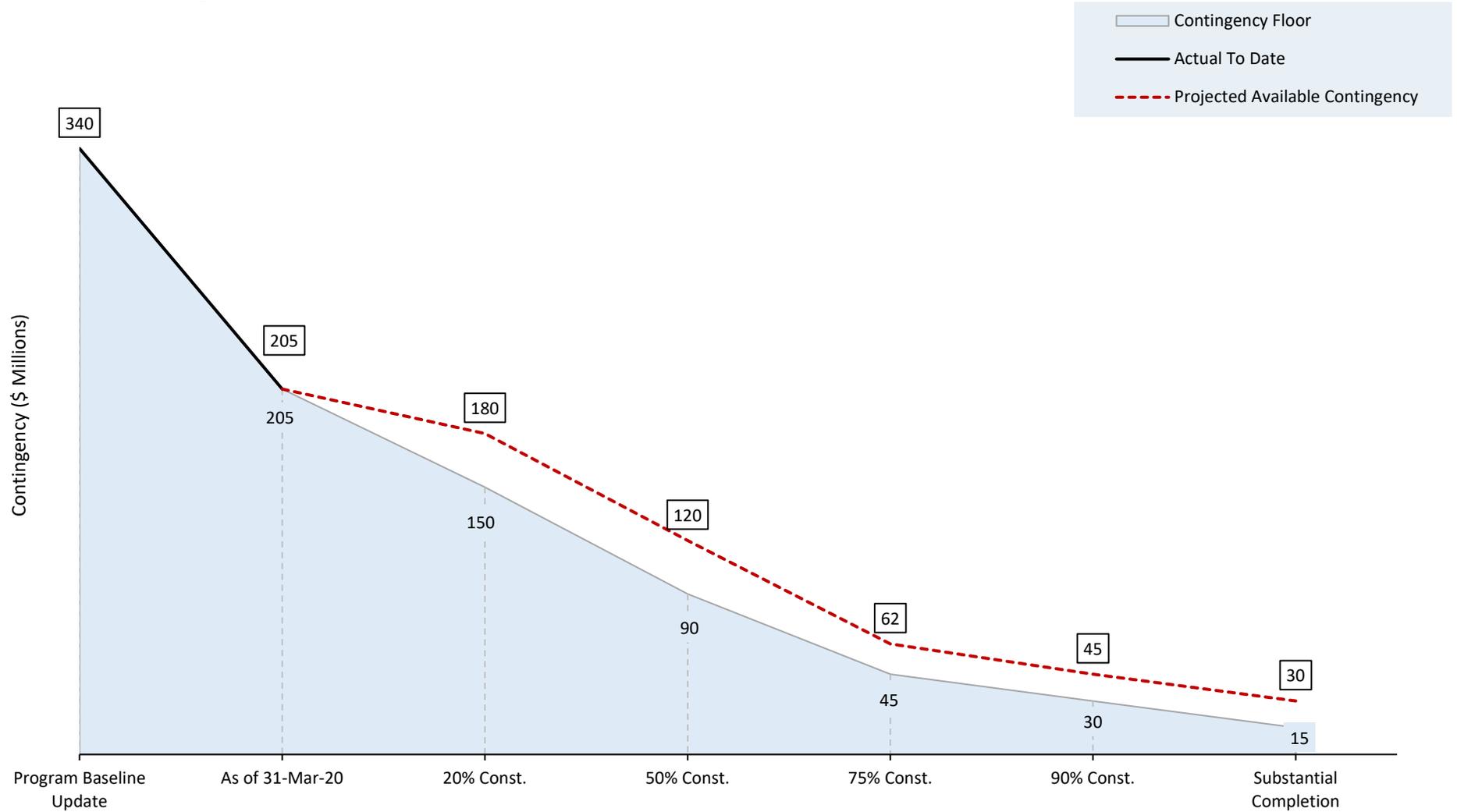
## CP 4 – Executed Change Order Status

### CP 4 – Executed Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
53	Removal of Underground Storage Tanks and Concrete Vaults at G Street	Executed	\$71,211.60	28-Feb-20
39R2	IPB – Last Mile	Executed	\$15,872,287.58	5-Mar-20
<b>Total:</b>			<b>\$15,943,499.18</b>	

## CP 4 – Risk - Contingency Report

### CP 4 – Risk - Contingency Report

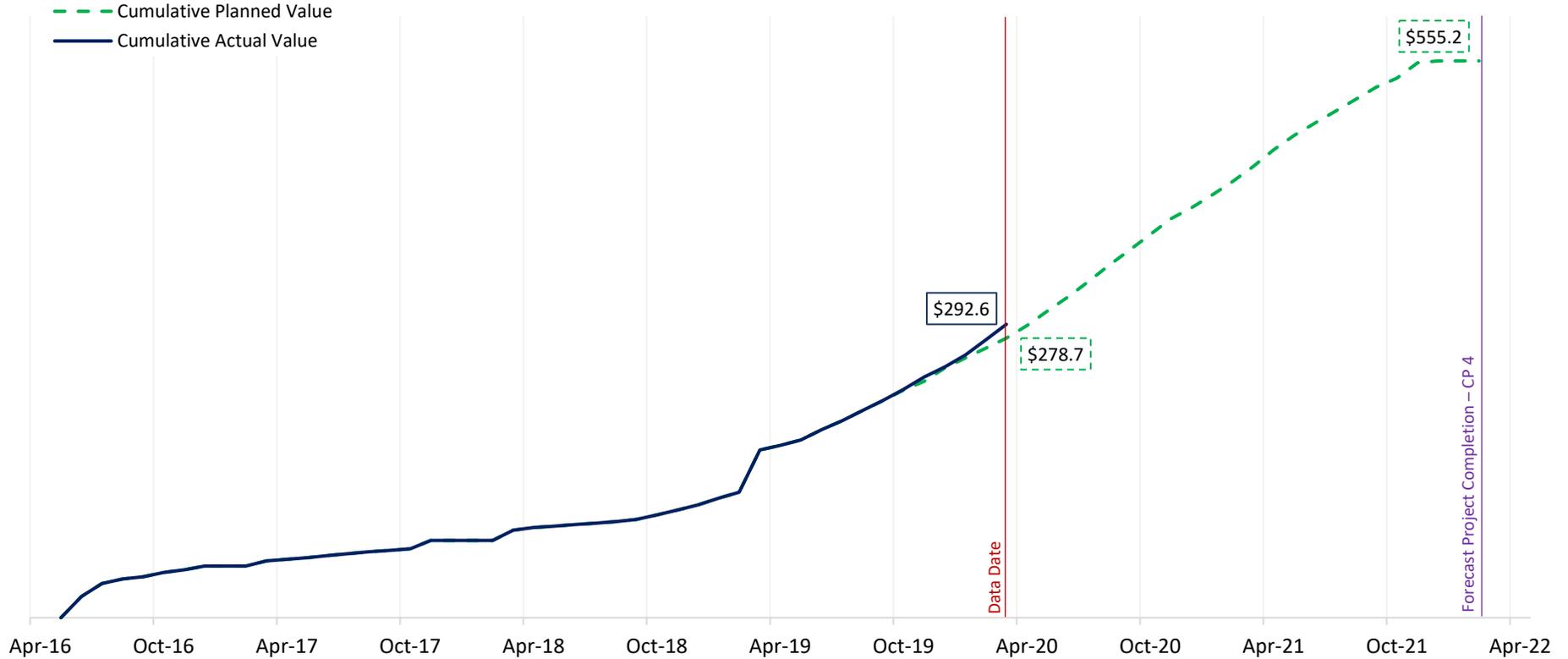


**Notes:**

1. The Program Baseline Update was presented to and accepted by the 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 March 31, 2020.

## CP 4 – Earned Value

### CP 4 – Planned vs. Actual Expenditures from Contract Award Through Contract Completion (\$ Millions)



### CP 4 – Projected Milestones

Milestone	Date
Main Design Complete	Feb-20 (Complete)
ROW Acquisition Complete	Dec-20

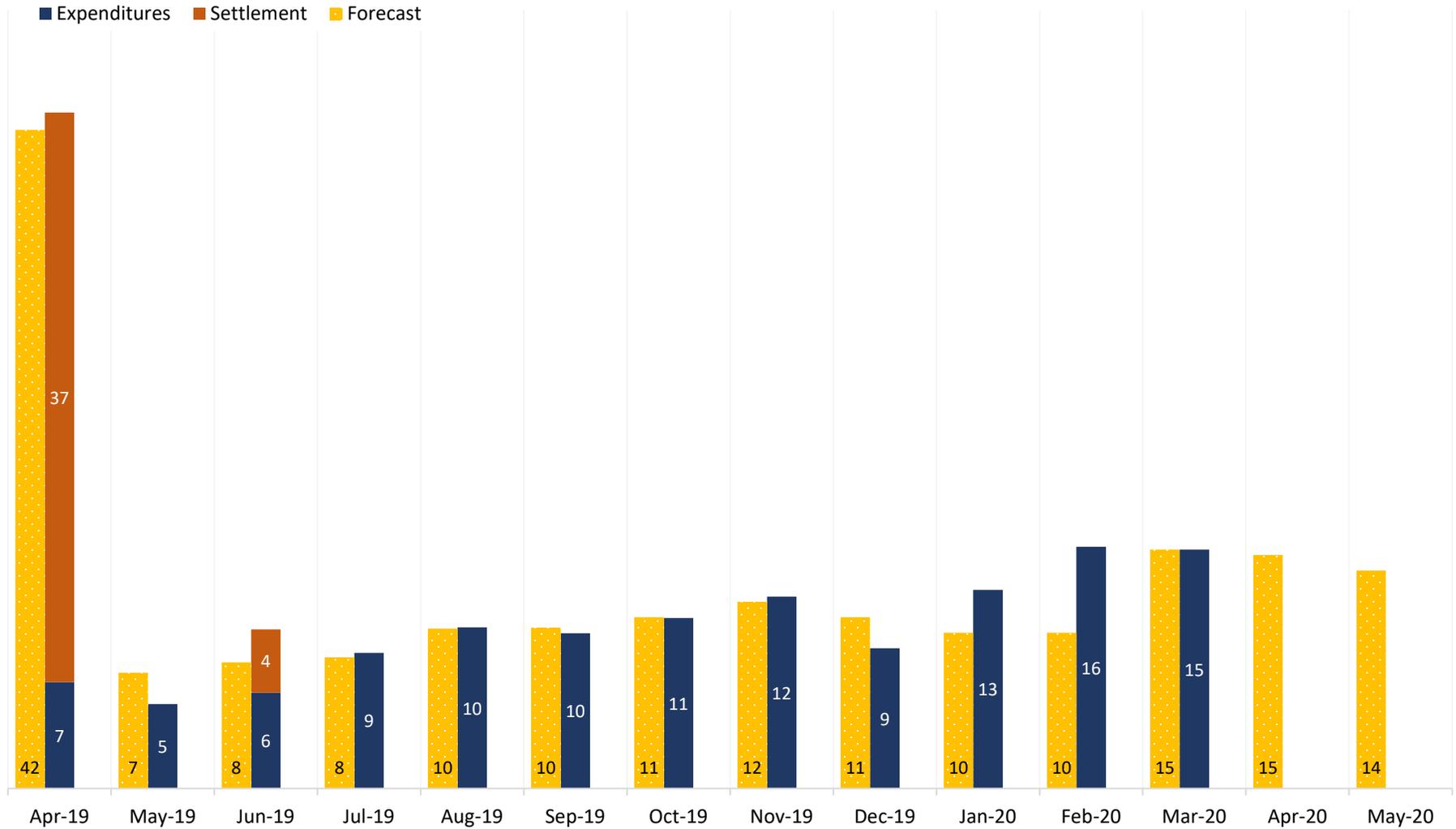
Milestone	Date
Environmental Clearance Complete	Jul-20 <sup>3</sup>
Utility Relocation Complete	Mar-21

**Notes:**

1. A revised projection will be updated upon the finalization of the Revised Baseline Schedule (RBS).
2. The above contract value does not include unexecuted change orders including SR-46 BNSF structure.
3. Additional Environmental Clearance on lands requiring utility relocations delayed per CRB to July 2020.

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

### CP 4 – Fiscal Year Expenditures (\$ Millions)

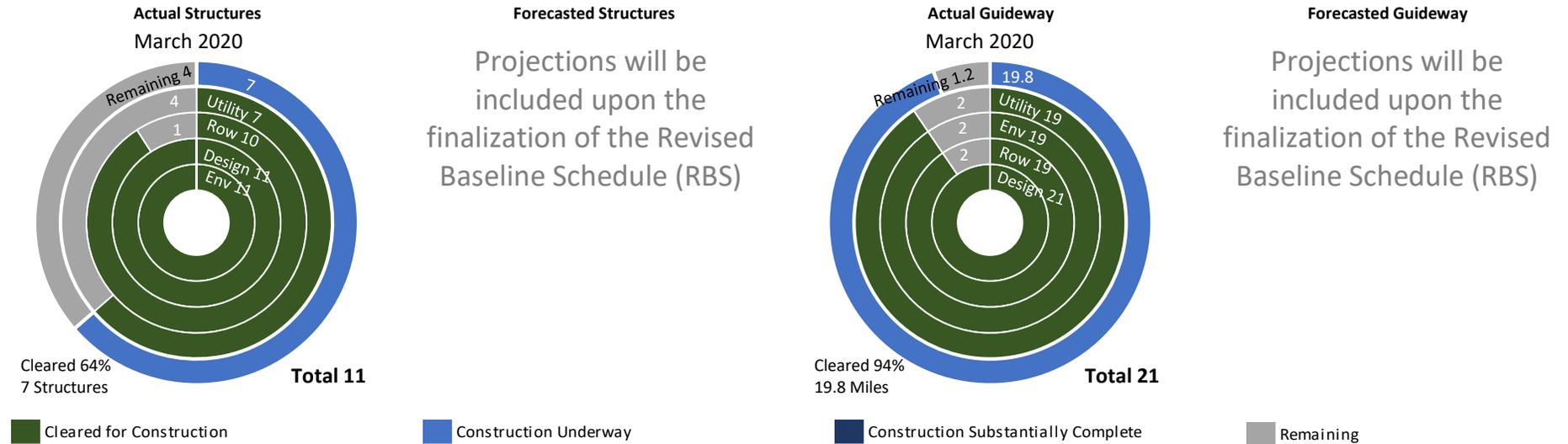


**Notes:**

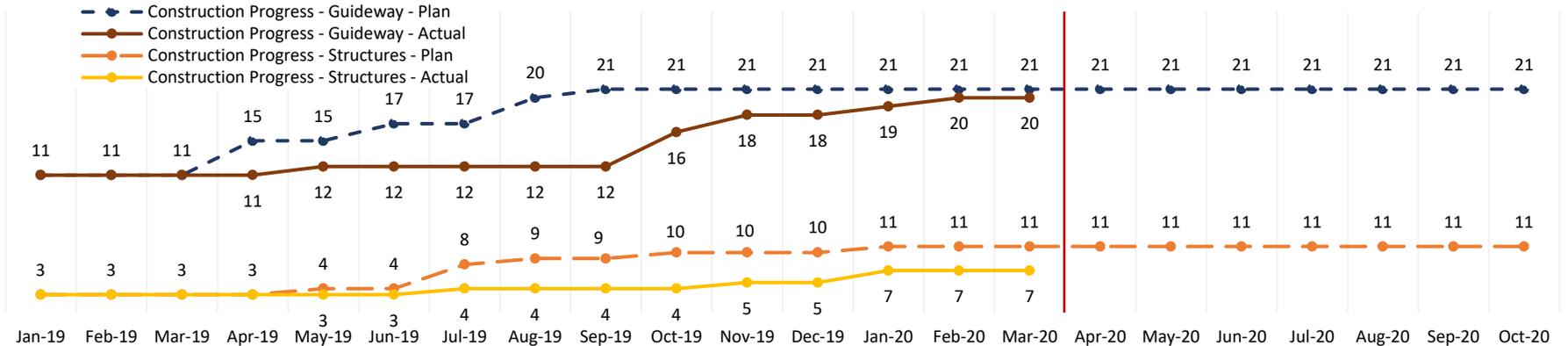
1. Expenditures in the chart above are specific to the Design-Builder production and based on the certified invoice and do not include accrual adjustments.
2. The sudden increase in the expenditure value in April 2019 is due to Time Impact Analysis settlement.
3. A revised projection will be updated upon the finalization of the Revised Baseline Schedule (RBS).

## CP 4 – Construction Progress

### CP 4 – Construction Progress



### CP 4 – Construction Progress to Completion – Forecast vs. Actual



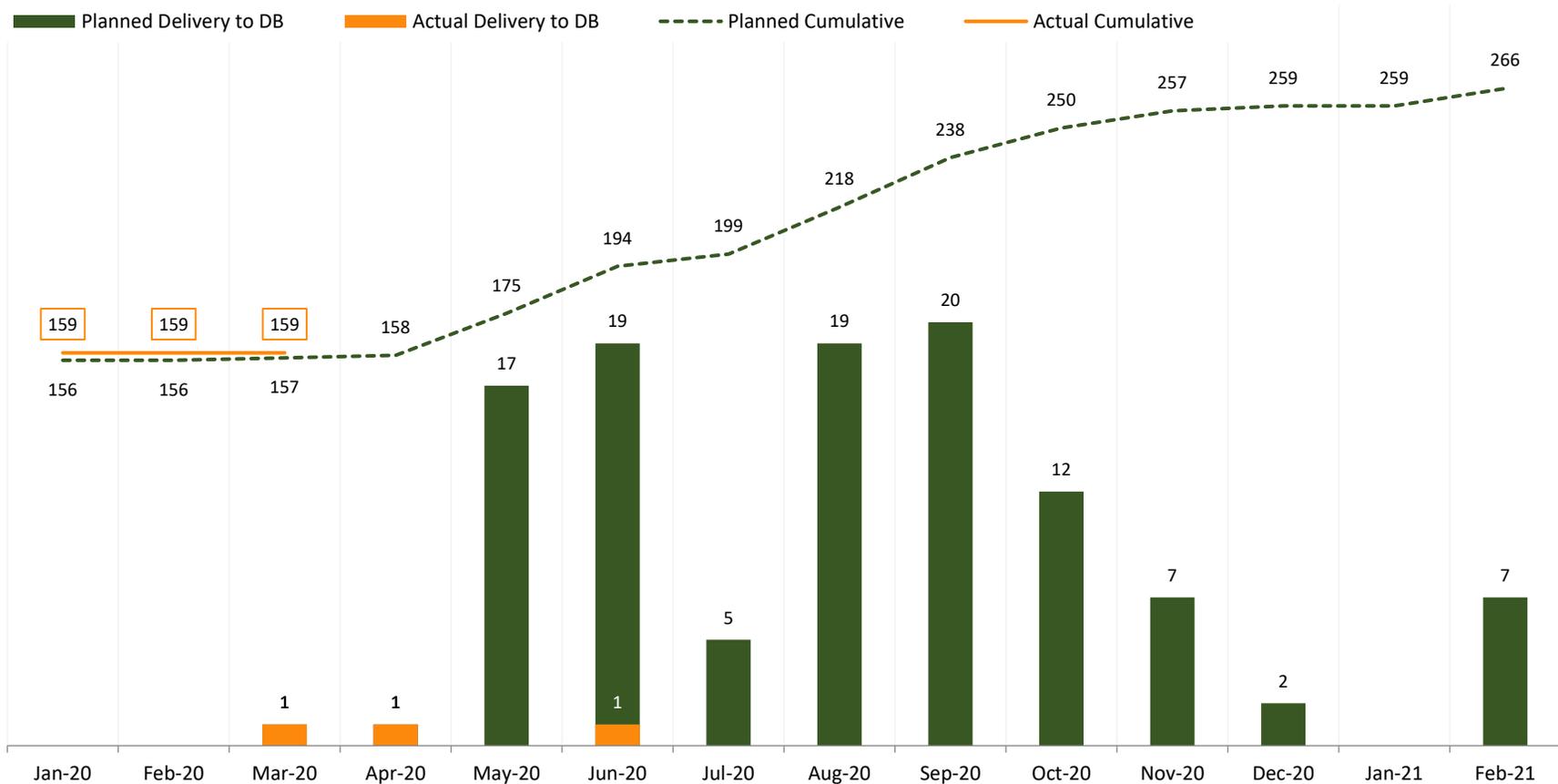
**Notes:**

1. Total Structures: 11 structures.
2. Total Guideway: 21 miles.
3. Actual Guideway progress for March 2020 was 19.8 miles. The graph reflects 20 miles due to the rounding up within the mathematical formula.
4. A revised projection will be updated upon the finalization of the Revised Baseline Schedule (RBS).

## CP 4 – ROW Summary

Construction Package	Total Needed Parcels March 31, 2020	Total Parcels Delivered to Date March 31, 2020	Remaining Parcels to be Delivered March 31, 2020
CP 4	266	159	107

## CP 4 – Parcel Delivery to DB Summary



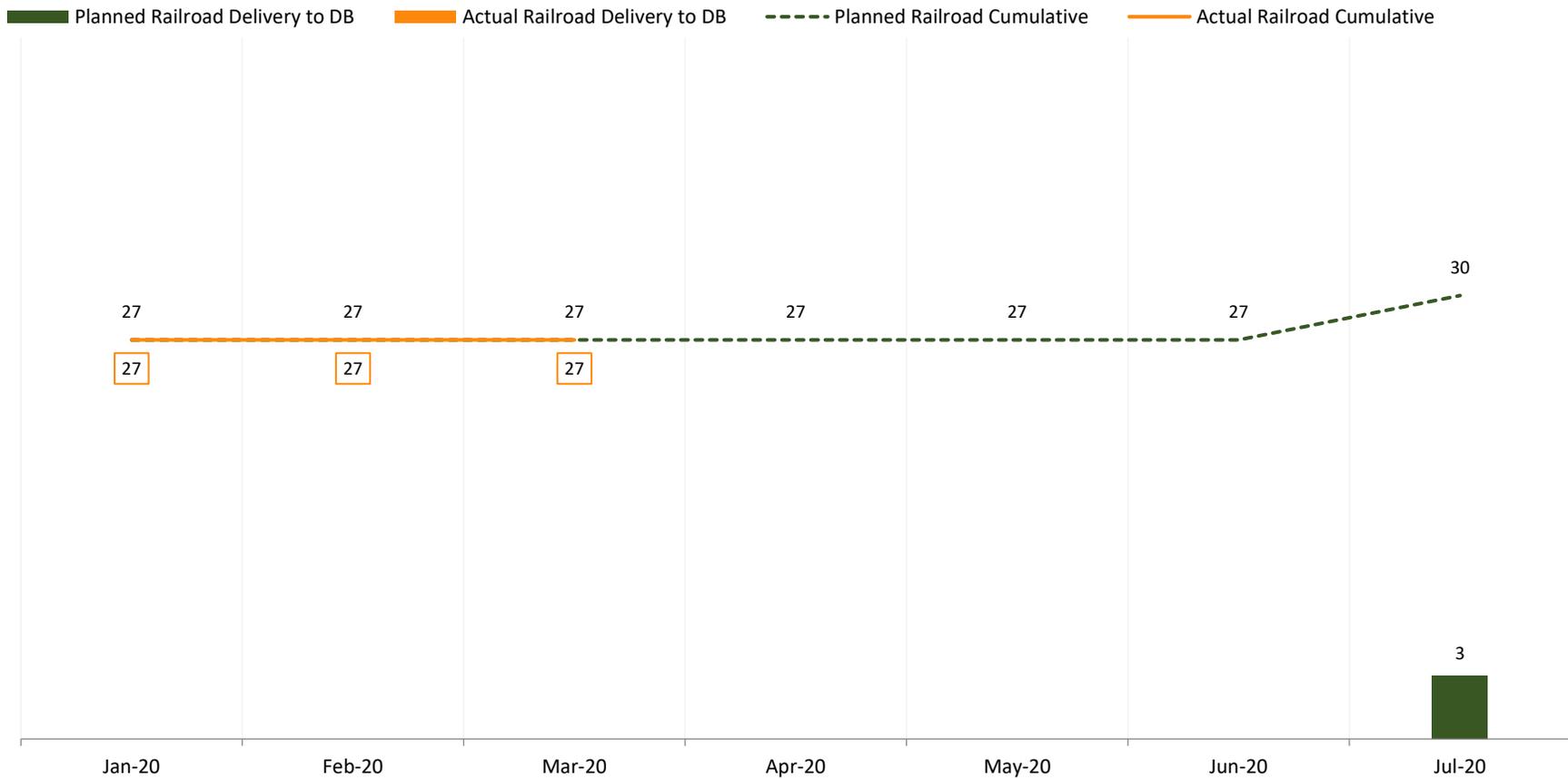
**Notes:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBSs).
2. Actual and planned Delivered to DB parcels adjusted from last month's report due to continued refinement of the RBS.
3. Actual cumulative line for January 2020 includes updated total of parcels Delivered to DB.
4. Actual cumulative line for March 2020 reflects delivered parcels that are forecasted in future months.

### CP 4 – ROW Railroad Summary

Construction Package	Total Needed Railroad Parcels March 31, 2020	Total Railroad Parcels Delivered to Date March 31, 2020	Remaining Railroad Parcels to be Delivered March 31, 2020
CP 4	30	27	3

### CP 4 – Railroad Parcel Delivery to DB Summary



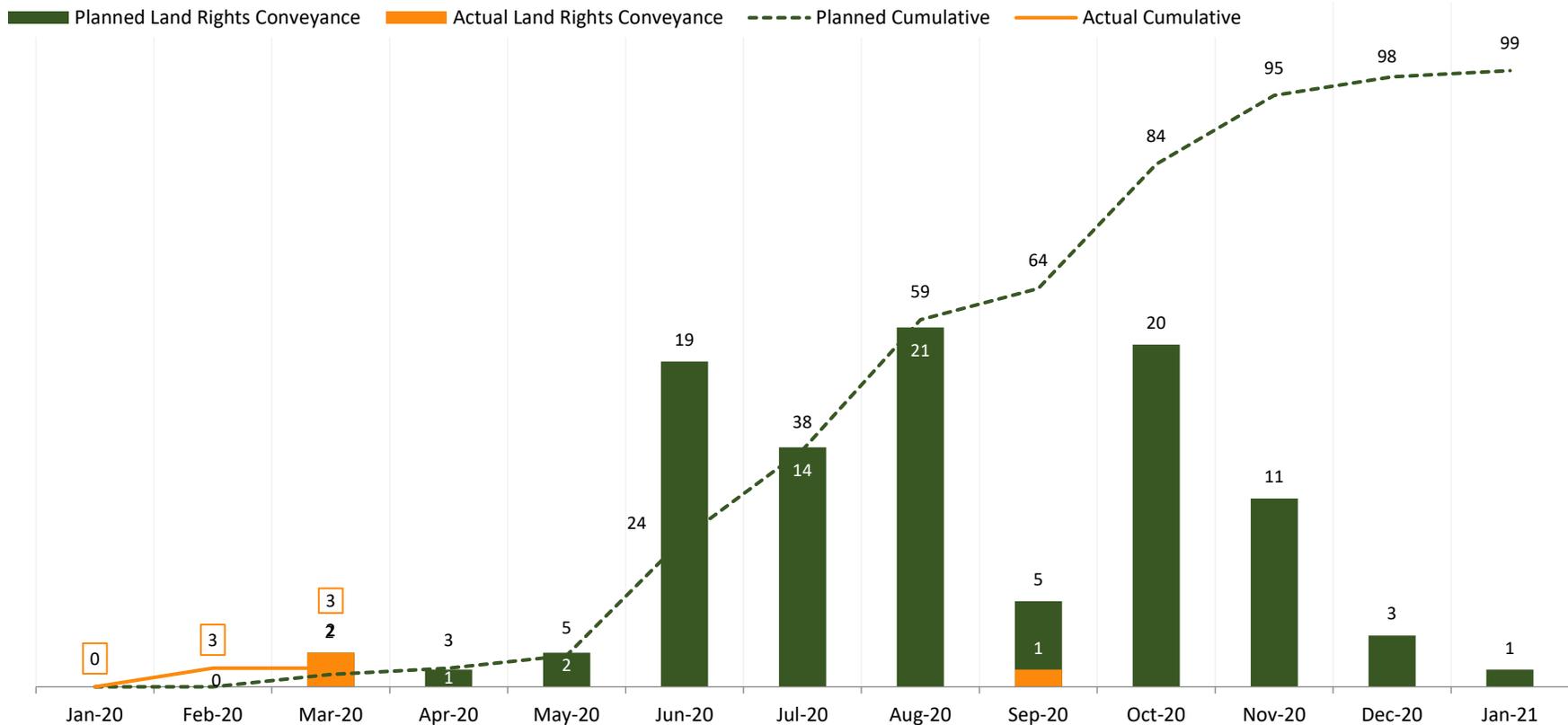
**Note:**

1. A revised projection will be updated with the finalization of the Revised Baseline Schedules (RBS).

### CP 4 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary

Construction Package	Total Needed Land Rights Conveyances March 31, 2020	Total Land Rights Conveyances Recorded March 31, 2020	Remaining Land Rights Conveyances to be Recorded March 31, 2020
CP 4	99	3	96

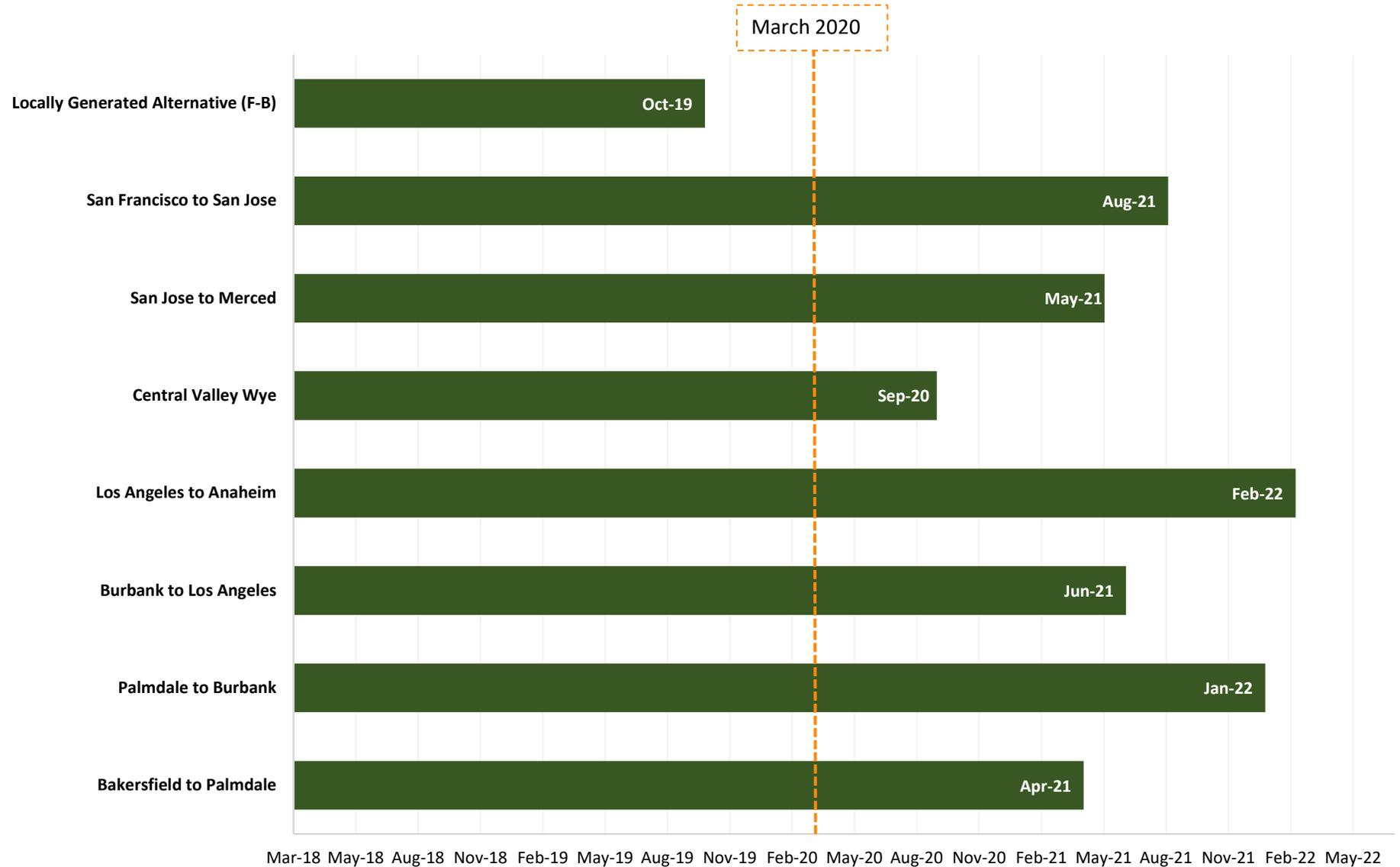
### CP 4 – Tier 1 Land Rights Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD) Summary



- Notes:**
1. A revised projection will be updated with the finalization of the Revised Baseline Schedule (RBS) and the PG&E letter agreement (executed May 6, 2020) that will reclassify numerous land rights conveyances as non-critical for construction.
  2. Actual Cumulative for March 2020 includes completed land rights conveyances that are forecasted in future months.
  3. The planned land rights conveyance dates shown in March (last month's report) were moved to May, July, August, October, November, and December to reflect RBS refinements.
  4. CP 4: added land rights conveyances due to Certificate of Sufficiency and design refinement.

## Project Development Schedule – Record of Decision (ROD)

### Phase 1 Environmental Approval Schedule



### Project Development Schedule (to ROD)

Program Priority	Segment	Progress	Complete Purpose & Need Statement		Complete Alternatives Analysis		Board Concurrence of Preliminary Preferred Alt. Draft EIR/EIS		Publish Draft EIR/EIS		Publish Final EIS & Obtain ROD		Date EIR/EIS To Be Completed	
			Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current
<b>Document Complete</b>	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%
<b>Document Complete</b>	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%
<b>Document Complete</b>	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%
<b>Document Complete</b>	Locally Generated Alternative (F-B)	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%
<b>1</b>	San Francisco to San José	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Apr-20 Jun-20 63%	Apr-20 Jun-20 70%	Jun-21 Aug-21 0%	Jun-21 Aug-21 <sup>1</sup> 0%	Aug-21	Aug-21
<b>2</b>	San José to Merced	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 75%	Mar-20 Apr-20 86%	Apr-21 May-21 <sup>2</sup> 0%	Apr-21 May-21 <sup>2</sup> 0%	Apr-21 May-21 <sup>2</sup> 0%	May-21
<b>3</b>	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%	Sep-20 Sep-20 65%	Sep-20 Sep-20 68%	Sep-20	Sep-20
<b>4</b>	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 Jan-21 68%	Nov-20 Jan-21 72%	Dec-21 Feb-22 <sup>3</sup> 0%	Dec-21 Feb-22 <sup>3</sup> 0%	Feb-22	Feb-22
<b>5</b>	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%	Feb-20 May-20 85%	Feb-20 May-20 90%	Jan-21 Jun-21 <sup>4</sup> 0%	Jan-21 Jun-21 <sup>4</sup> 0%	Jun-21	Jun-21
<b>6</b>	Palmdale to Burbank	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Feb-20 Feb-20 66%	Feb-20 Feb-20 66%	Aug-21 Jan-22 <sup>5</sup> 0%	Aug-21 Jan-22 <sup>5</sup> 0%	Aug-21 Jan-22 <sup>5</sup> 0%	Jan-22
<b>7</b>	Bakersfield to Palmdale	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Jan-20 Jan-20 87%	Jan-20 Jan-20 87%	Feb-21 Apr-21 <sup>6</sup> 0%	Feb-21 Apr-21 <sup>6</sup> 0%	Feb-21 Apr-21 <sup>6</sup> 0%	Apr-21
<b>8</b>	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

**Notes:**

- Two-month delay due to late submittal of cooperating agency comments, remediation time to meet Web Content Accessibility Guidelines (WCAG) to address internal reviews and resource constraints.
- One-month delay due to late submittal of cooperating agency comments, remediation time to meet Web Content Accessibility Guidelines (WCAG) to address internal reviews and resource constraints.
- Two-month delay due to delay in receipt of BNSF environmental deliverables.
- Five-month delay due to late submittal of cooperating agency comments, remediation time to meet Web Content Accessibility Guidelines (WCAG) to address internal reviews and resource constraints.
- Five-month delay in project delivery because of additional consultation with USACE and USEPA for an avoidance alternative at Una Lake.
- Two-month delay due to design revision to accommodate CCNM.

## Project Development – Key Actions

In March 2020, the Authority conducted Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) document reviews for several project sections. This included revising the San Francisco to San José Project Section Administrative Draft EIR/EIS document in response to comments by the cooperating and participating agencies, preparation of the San José to Merced Draft EIR/EIS for CEO briefing and signature, and the circulation of the CVY Second Draft SEIR/S for the evaluation of the Crotch Bumblebee. The National Environmental Policy Act (NEPA) Assignment Team also conducted its review responsibilities for the Bakersfield to Palmdale Administrative Draft EIR/EIS and completed a review for the Burbank to Los Angeles 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 Fresno to Bakersfield - Locally Generated Alternative, and Central Valley Wye permits needed for project construction.

### Project Development – Key Actions Summary

Project Section	Key Actions
<b>San Francisco to San José</b>	<ul style="list-style-type: none"> <li>Authority completed review of the Draft EIR/EIS revised in response to input from cooperating and participating agencies on March 31.</li> <li>Continued coordination with Bay Conservation &amp; Development Commission (BCDC), City of Millbrae, and the City of Millbrae.</li> </ul>
<b>San José to Merced</b>	<ul style="list-style-type: none"> <li>Project team and Authority senior leadership held second Draft EIR/EIS briefing with CEO and COO on March 13, during which the CEO signed the document title page and directed publication on April 24.</li> <li>The USEPA and USACE issued concurrence letters on the Checkpoint C preliminary LEDPA determination on March 18 and March 20, respectively.</li> <li>The SHPO issued concurrence with the FOE on March 27.</li> </ul>
<b>Central Valley Wye</b>	<ul style="list-style-type: none"> <li>Completed and submitted the Administrative Final Supplemental EIR/EIS for legal review on March 11. Coordinated with legal on comment response.</li> <li>Published the CVY Second Draft SEIR/S for a 45-day public comment on March 13, 2020, to address the recent listing of the Crotch bumble bee as a candidate species under the California Endangered Species Act.</li> <li>Continued coordination with Chowchilla Elementary School District on assessment of school bus routes and advanced draft agreement with Madera County regarding the Fairmead community center.</li> </ul>
<b>Locally Generated Alternative</b>	<ul style="list-style-type: none"> <li>The Combined Supplemental Record of Decision and Final Supplemental Environmental Impact Statement was released to the public and noticed in the Federal Register on November 8, 2019.</li> <li>Prepared the Section 404 and Section 401 Clean Water Act permits and Section 1602 permit for project construction for Authority review and approval.</li> </ul>
<b>Bakersfield to Palmdale</b>	<ul style="list-style-type: none"> <li>Published and began 45-day public review and comment period February 28, 2020.</li> <li>Completed open house meetings in the communities of Lancaster and Bakersfield on March 4 and 5, respectively.</li> <li>Community even scheduled in Rosamond on March 26 cancelled due to COVID-19 contingencies.</li> <li>Due to “stay at home” executive orders put in place statewide in California, team began preparations for virtual public hearing in lieu of in person meeting for April 9.</li> </ul>
<b>Palmdale to Burbank</b>	<ul style="list-style-type: none"> <li>Finalizing a design option that will enable avoidance of Una Lake.</li> <li>Completed the Record Set Preliminary Engineering for Project Definition (PEPD) documents and submitted them to the Federal Railroad Administration for review and comment.</li> <li>Completed touch-point review with the Environmental and NEPA Assignment teams regarding continuing with Cooperating Agency review. Reached a decision to postpone the review until the Authority resolves Checkpoint B agreement on range of alternatives with the United States Army Corps of Engineers (U.S. ACE) and United States Environmental Protection Agency (U.S. EPA).</li> <li>Met with USACE and EPA on March 19 to present the Una Lake Avoidance Option which was positively received by both USACE and EPA. USACE requested additional information regarding alternatives through the previously considered Palmdale West Station. Follow up meeting scheduled in early April.</li> </ul>
<b>Burbank to Los Angeles</b>	<ul style="list-style-type: none"> <li>Incorporating comments received from Cooperating and Responsible Agencies on the Administrative Draft EIR/EIS into the Draft EIR/EIS.</li> <li>Conducted an open-house meeting/webinar in Burbank on March 9, 2020, and webinars on March 11, 2020, and March 12, 2020, to provide project updates to the public.</li> <li>The Burbank to Los Angeles Draft EIR/EIS is expected to be released for public review in May 2020.</li> </ul>
<b>Los Angeles to Anaheim</b>	<ul style="list-style-type: none"> <li>Continued coordination with BNSF on project elements and analysis methods to be included in the Draft EIR/EIS.</li> <li>The first round of meetings to brief key officials in San Bernardino County on the Colton and Lenwood projects is complete.</li> </ul>