



Finance & Audit Committee

CENTRAL VALLEY STATUS REPORT

June 2022 Report (data through April 2022)

Executive Summary

Construction Packages (CP) Design-Build Expenditures ([Page 5](#))

- April 2022 Expenditures totaled \$53.8M:
 - Construction Package 1 – Expenditures totaled \$12.8M.
 - Construction Package 2-3 – Expenditures totaled \$33.8M.
 - Construction Package 4 – Expenditures totaled \$7.2M.
- Total CP Cumulative Actual Expenditures (Pages 15, 24, and 33) – \$3,891.0M.
- Total Cumulative Current Contract Amount (Pages 15, 24, and 33) – \$5,812.2M.

Change Orders

- Executed Change Orders this period – 20 for a total of \$237.4M:
 - Construction Package 1 – Five for a total of \$34.3M (Page 17).
 - Construction Package 2-3 – 11 for a total of \$181.1M (Page 26).
 - Construction Package 4 – Four for a total of \$22.0M (Page 35).

Risk Contingency ([Page 6](#))

- Original Contract Contingency – \$4,000.7M budgeted contract contingency. Contingency balance is \$1,141.6M as of April 30, 2022.
 - Construction Package 1 (Page 18) – \$1,944.5M budgeted contract contingency. Contingency balance is \$583.7M as of April 30, 2022.
 - Construction Package 2-3 (Page 27) – \$1,638.4M budgeted contract contingency. Contingency balance is \$469.4M as of April 30, 2022.
 - Construction Package 4 (Page 36) – \$417.8M budgeted contract contingency. Contingency balance is \$88.5M as of April 30, 2022.

CP Design (Structures/Guideway)

- Expected completion of all CP major design - Ready for Construction (RFC) by the Second Quarter of 2022:
 - Construction Package 1 – 39 of 40 total design packages cleared for construction. Forecasted completion is Second Quarter of 2022 (2.5 mile Caltrans Segment approved with comments). Sweeper Package elements being finalized.
 - Construction Package 2-3 – 108 of 109 total design packages cleared for construction. Expect completion Second Quarter of 2022 (Geotech data collection is complete and data analysis is underway for Dutch John Cut).
 - Construction Package 4 – 14 of 14 total design packages cleared for construction.

CP Construction Labor ([Page 7](#))

- April 2022, Average Daily Site Workers (by Week) – 1011 workers. An increase of 120 workers from the previous period (from 891):
 - Construction Package 1 (Page 19) – 236 workers. A decrease of 14 workers from the previous month (250).
 - Construction Package 2-3 (Page 28) – 515 workers. An increase of 33 workers from the previous month (482).
 - Construction Package 4 (Page 37) – 260 workers. An increase of 101 workers from the previous month (159).
- Daily Average Contracted CP Employees Quarantined for COVID-19 in April 2022 – one. A decrease of two from the daily average of three in March 2022.

- Contractors continued with construction while following safety protocols and guidelines from the Centers for Disease Control and Prevention (CDC) and Occupational Safety and Health Administration (OSHA).

CP Construction Progress (Page 8)

- Structures – 67 underway/Construction complete compared to 93 structures total. An increase of one from the previous period:
 - Construction Package 1 – 26 structures underway/Construction complete.
 - Construction Package 2-3 – 30 structures underway/Construction complete.
 - Construction Package 4 – 11 structures underway/Construction complete.
- Guideway – 87 miles constructed/underway compared to 119 miles total. No change from the previous period:
 - Construction Package 1 – 17 miles underway/Construction complete.
 - Construction Package 2-3 – 48 miles underway/Construction complete.
 - Construction Package 4 – 19.1 miles underway/Construction complete.

Utility Relocations Status (Page 9)

- Relocated: 824 (45%); In Progress: 403 (22%); Approved to Start: 136 (7%); Not Started: 488 (26%); Total: 1,851. Twenty-eight relocated in April 2022 reporting period. A sequence of activities must be completed to begin utility relocation work. These activities include environmental clearance, executed third-party agreement(s), design approval, construction work plans, pre-construction walkthroughs, acquisition of real property, and/or land right conveyances:
 - Construction Package 1 – Relocated: 361 (36%); In Progress: 342 (35%); Approved to Start: 0 (0%); Not Started: 289 (29%); Total: 992.
 - Construction Package 2-3 – Relocated: 388 (56%); In Progress: 43 (6%); Approved to Start: 97 (14%); Not Started: 166 (24%); Total: 694.
 - Construction Package 4 – Relocated: 75 (45%); In Progress: 18 (11%); Approved to Start: 39 (24%); Not Started: 33 (20%); Total: 165.

CP Real Property/Right-of-Way (ROW) (Pages 10 - 12)

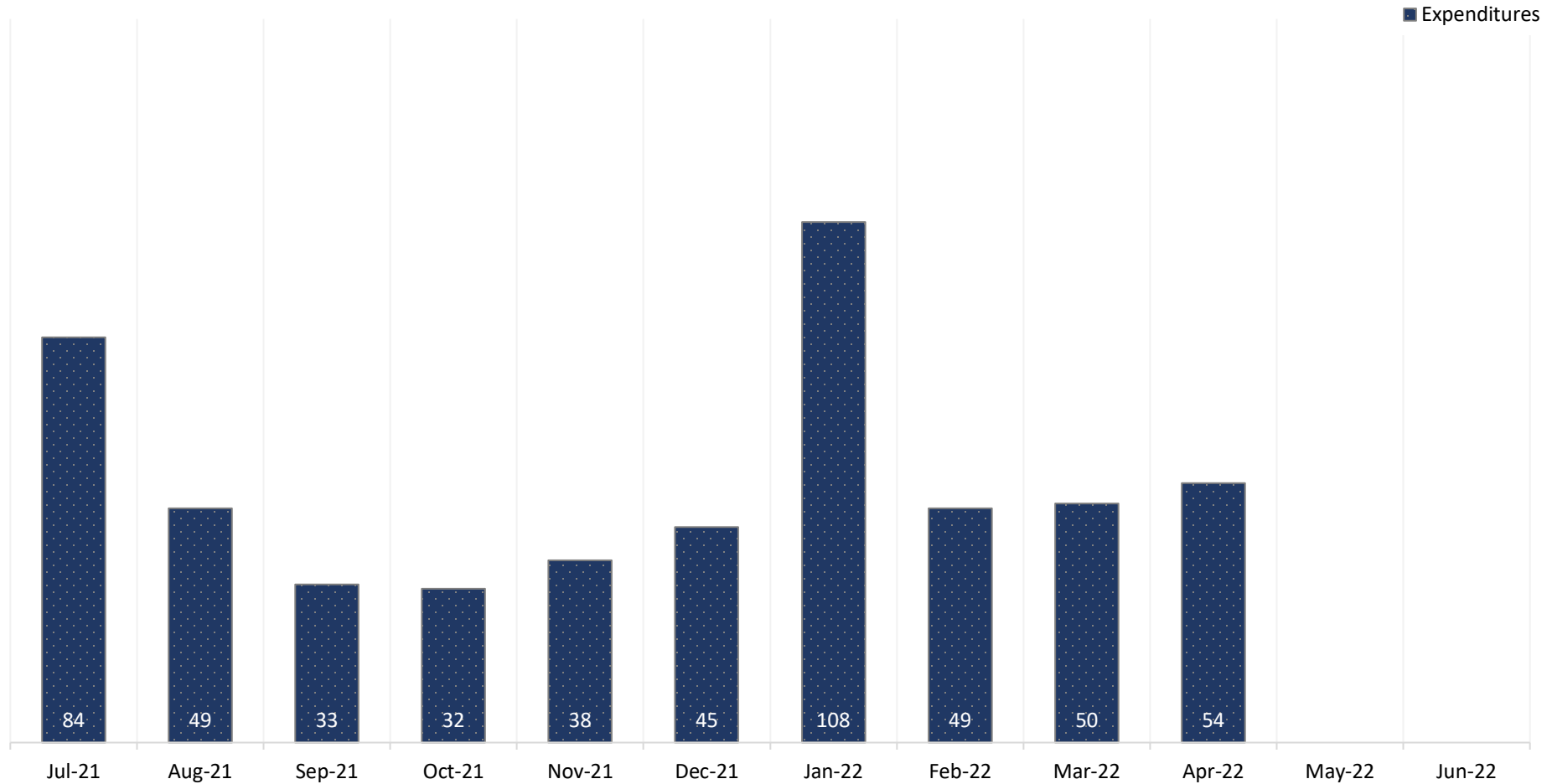
- Total Parcels Delivered to Date – 2,093 parcels compared to an estimated 2,305 parcels needed.
- Parcels Delivered to Design-Builder (DB) – Sixteen parcels in April 2022.
- Construction Packages 1-4 – Two parcels added, and one removed due to design refinements and third party requirements. The Authority continues to receive requests for additional parcels primarily related to third-party requirements. The Authority reviews these as received and if merit is found, those parcels will be added and acquired per contractual terms.
- Railroad Parcels Delivered to Design-Builder – Zero parcels.
- Total Railroad Parcels Delivered to Date – 123 parcels delivered compared to an estimated 168 total railroad parcels needed.
- Land Right Conveyances (Tier 1, Prior to Construction):
 - Three land right conveyances approved.
 - To date, the Authority received approval on 650 land right conveyances.

Project Development (Environmental Clearance) Schedule – Notice of Determination (NOD)/Record of Decision (ROD) ([Pages 42 - 43](#))

- San Francisco to San Jose – Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) content frozen April 20, 2022. Received Biological Opinion from US Fish and Wildlife Service on April 22, 2022. Release of Final EIR/EIS planned for June 10, 2022.
- San Jose to Merced – The High-Speed Rail Authority Board of Directors certified the San Jose to Merced Final EIR/EIS and directed the CEO to sign the Record of Decision (ROD) at the Board meeting on April 28, 2022.
- Bakersfield to Palmdale – Work through Notice of Determination/Record of Decision (NOD/ROD) has been completed. Continued meeting with key stakeholders (Center for Biological Diversity).
- Palmdale to Burbank – Continued working through Step 7 - Required Approval Sequence. In February 2022, a risk emerged related to validating costs, and that effort would require multiple weeks to complete and extended the start of the Public Comment period to May 2022. Options for changing the Draft EIR/EIS release date based on the ongoing cost estimate review will be discussed with Executive Management in May 2022.
- Burbank to Los Angeles – The Authority’s Chief Executive Officer (CEO) signed the Record of Decision on March 7, 2022. Work through NOD/ROD has been completed.
- Los Angeles to Anaheim – The team continued integrating additional Burlington Northern Santa Fe Corporation (BNSF) deliverables pertaining to the Colton and Lenwood facilities into the assembled Administrative Draft EIR/EIS and continued Preliminary Engineering for Project Definition (PEPD) reviews with external stakeholders.

CP 1-4 – Design-Build Expenditures

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

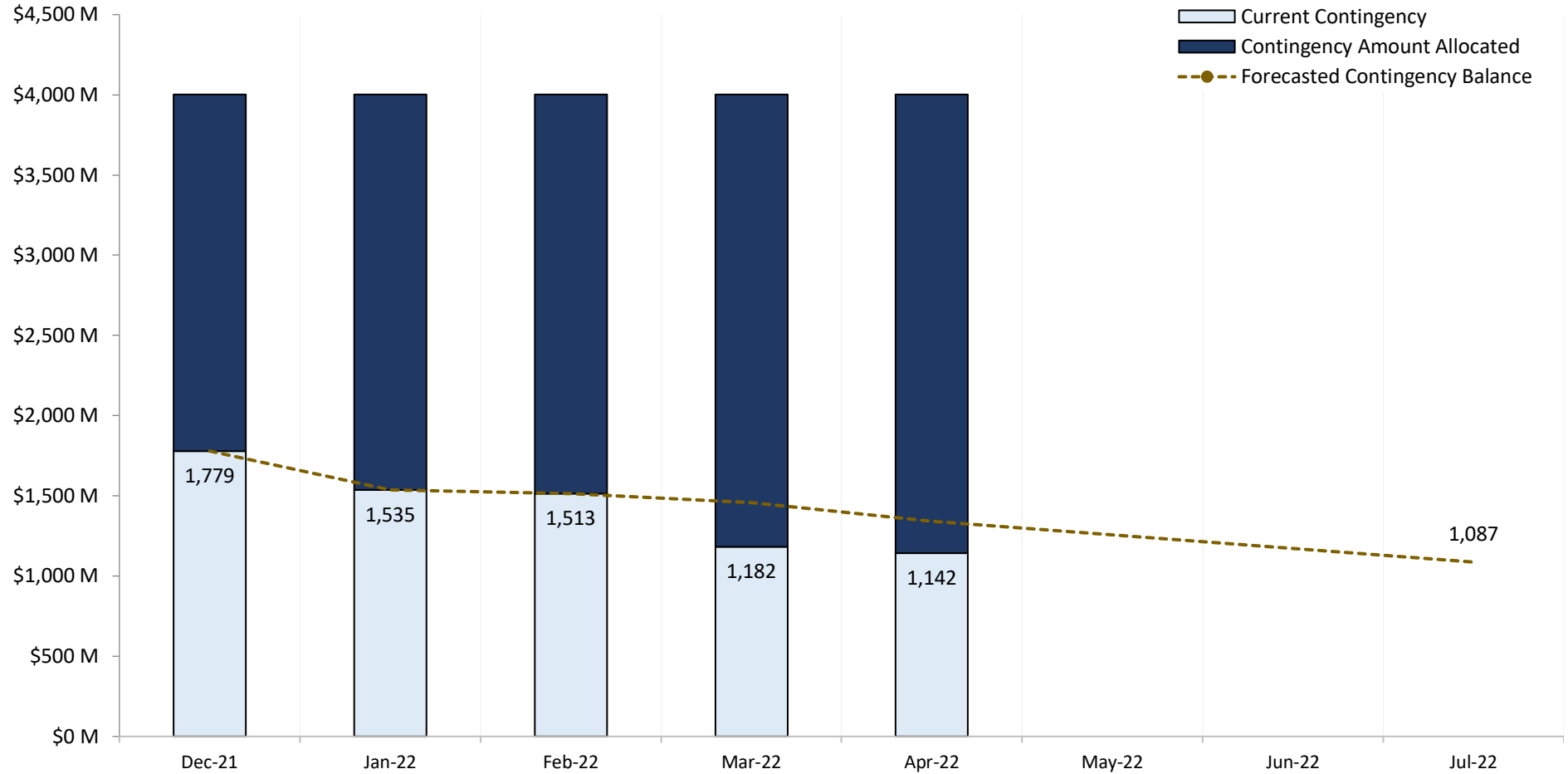


Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. April 2022 Expenditures totaled \$53.8M:
 - a. Construction Package 1 – Expenditures totaled \$12.8M.
 - b. Construction Package 2-3 – Expenditures totaled \$33.8M.
 - c. Construction Package 4 – Expenditures totaled \$7.2M.

CP 1-4 – Risk Contingency

CP 1-4 – Risk Contingency Status (\$ Millions)

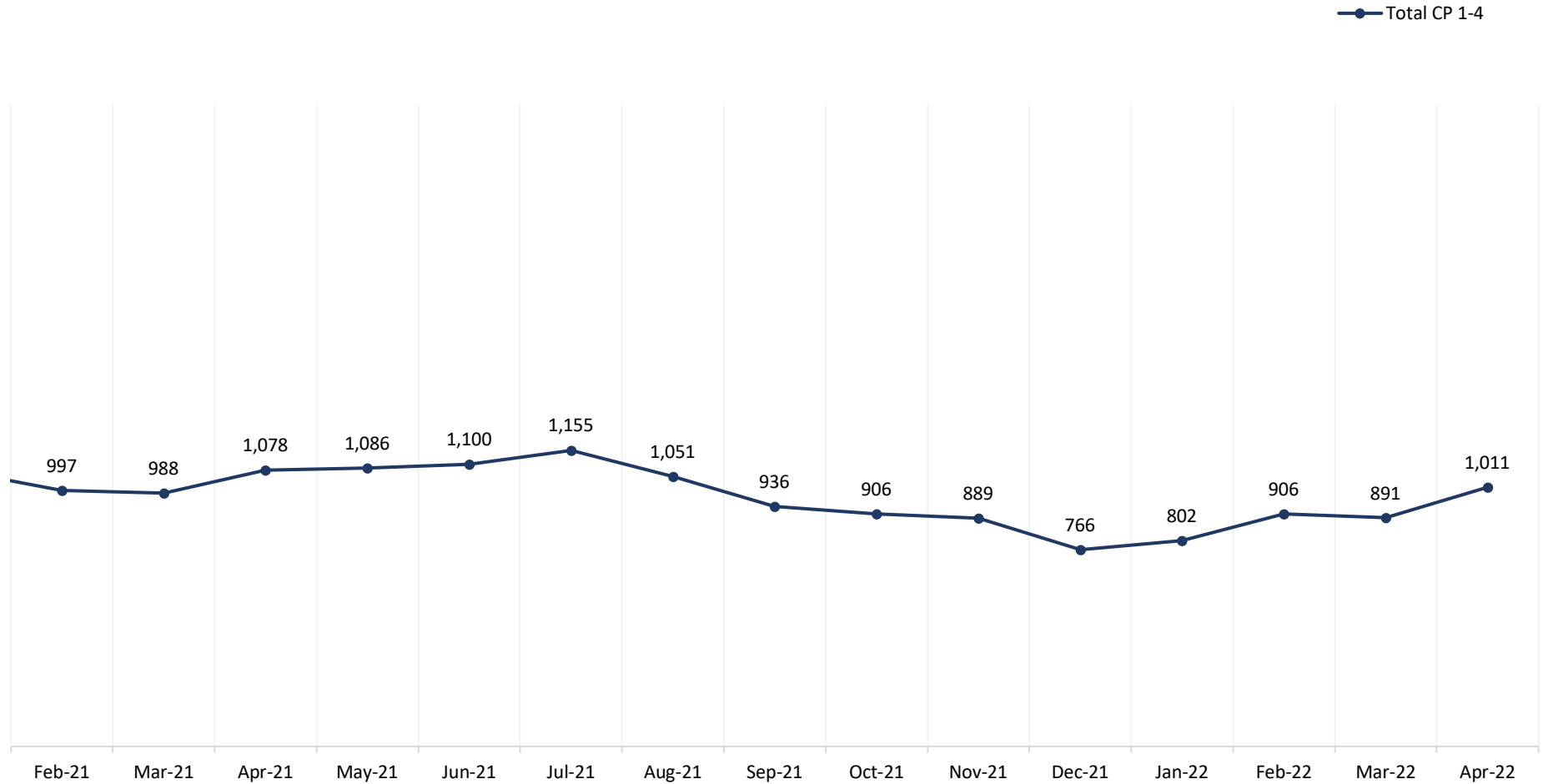


Notes:

1. Program baseline is \$4,000.7M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects all executed change orders and Business Oversight Committee (BOC) approved items for all CPs.
4. The Forecasted Contingency Balance drawdown curve is based on the estimated change orders expected to be executed within the three-month window.

CP 1-4 – Construction Labor

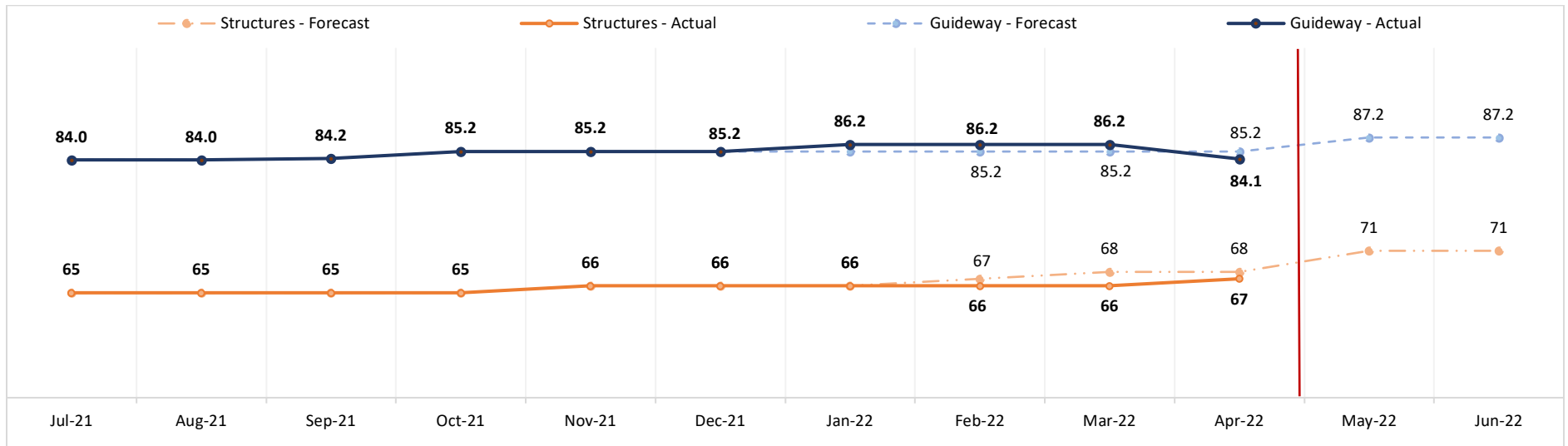
CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. April 2022, Average Daily Site Workers (by week) – 1011 workers. An increase of 120 workers from the previous period (from 891):
 - a. Construction Package 1 (Page 19) – 236 workers. A decrease of 14 workers from the previous month (250).
 - b. Construction Package 2-3 (Page 28) – 515 workers. An increase of 33 workers from the previous month (482).
 - c. Construction Package 4 (Page 37) – 260 workers. An increase of 101 workers from the previous month (159).

CP 1-4 – Construction Progress

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



Monthly Construction Status – In Progress vs. Completed

Construction	CP 1		CP 2-3		CP 4		Overall		Total
	In Progress	Completed	In Progress	Completed	In Progress	Completed	In Progress	Completed	
Structures	12	14	19	11	8	3	39	28	67
Guideway	15	2	15	33	6.6	12.5	36.6	47.5	84.1

Notes:

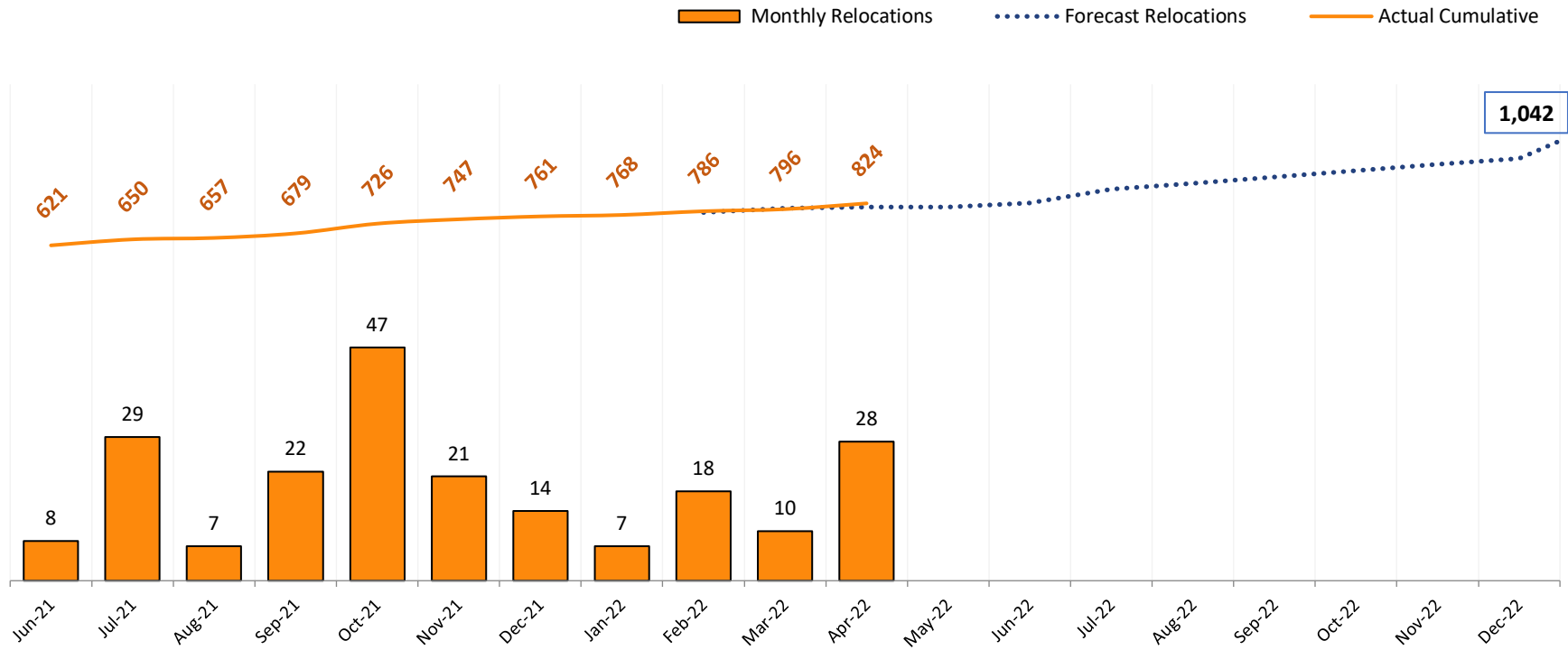
1. The chart above incorporates provisional forecast numbers pending submission and approval of Revised Baseline Schedules (RBS) Revision 3.
2. Construction Complete definition:
 - a. Structure Completion – all concrete work is complete.
 - b. Guideway Completion – earthworks complete with rough grading.
3. Total Structures: 93
4. Structures – 67 underway/Construction complete compared to 93 structures total. An increase of one from the previous period:
 - a. CP 1 – 26 structures underway/Construction complete.
 - b. CP 2-3 – 30 structures underway/Construction complete. Grangeville delay is due to utility relocation of SCE transmission line.
 - c. CP 4 – 11 structures underway/Construction complete.
5. Total Guideway: approximately 119 miles
6. Guideway – 87 miles underway/Construction complete compared to 119 miles total. No change from the previous period.
 - a. CP 1 – 17 miles underway/Construction complete.
 - b. CP 2-3 – 48 miles underway/Construction complete.
 - c. CP 4 – 19.1 miles underway/Construction complete.
7. A discrepancy has been identified for CP4 in the previous months reporting of the guideway progress. This has been corrected for the April 2022 Data report.

CP 1-4 – Utility Relocations

CP 1-4 – Utility Relocation Summary

Construction Package	Total Relocations April 30, 2022	Total Utilities Relocated to Date April 30, 2022	Remaining Utility Relocations April 30, 2022
CP 1	992	361	631
CP 2-3	694	388	306
CP 4	165	75	90
Total	1,851	824	1027

CP 1-4 – Utility Relocation Status Summary-Monthly



Notes:

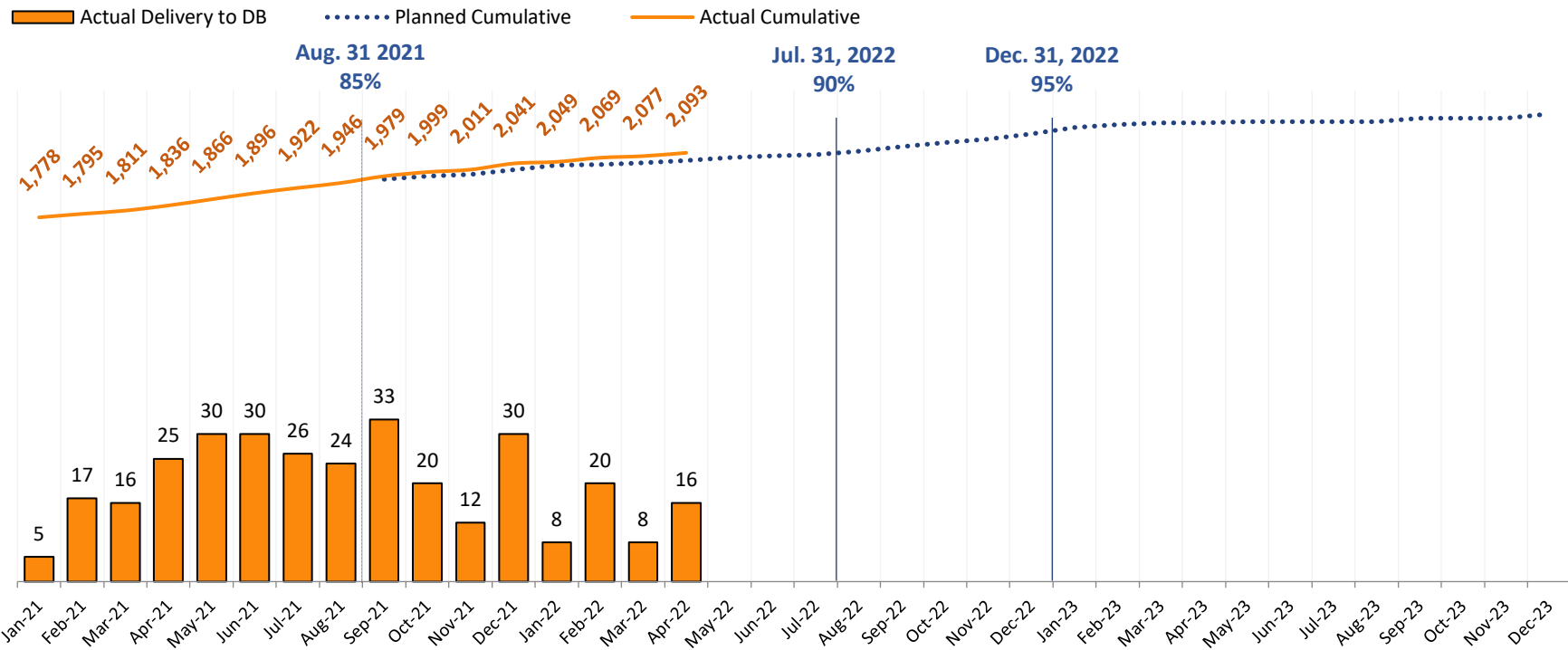
1. In Progress 403 (22%).
2. Approved to start 136 (7%).
3. Not Started 488 (26%).

CP 1-4 – Real Property/Right-of-Way (ROW)

CP 1-4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels April 30, 2022	Total Parcels Delivered to Date April 30, 2022	Remaining Parcels to be Delivered April 30, 2022
CP 1	1,076	1000	76
CP 2-3	990	893	97
CP 4	239	200	39
Total	2,305	2,093	212

CP 1-4 – Parcel Delivery to Design-BUILDER (DB) Summary



Notes:

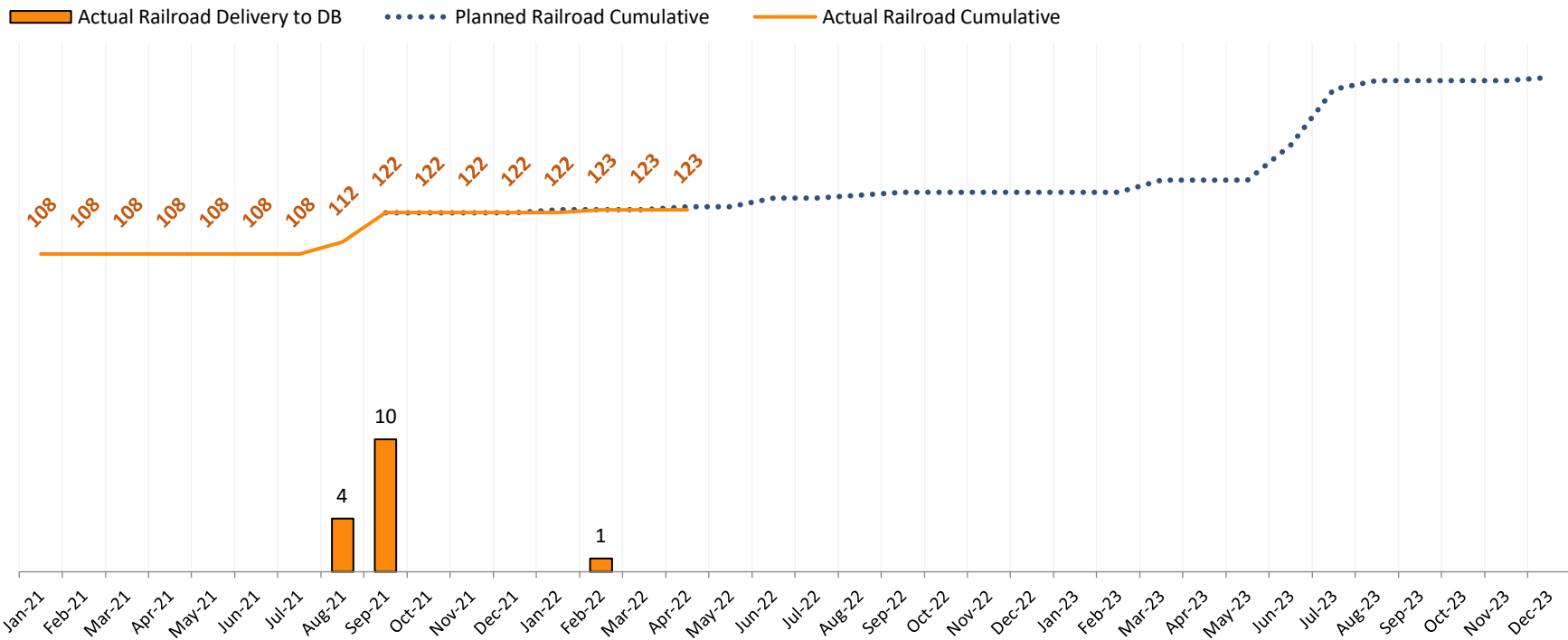
1. This reflects the actual parcels delivered to the Design-BUILDER by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4. The 90% and 95% milestone completion does not include any additional parcels that may be added.
2. Two parcels added to Total Needed Parcels, and one removed due to design refinements and third party requirements.

CP 1-4 – Real Property/Right-of-Way (ROW) Railroad

CP 1-4 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels April 30, 2022	Total Railroad Parcels Delivered to Date April 30, 2022	Remaining Railroad Parcels to be Delivered April 30, 2022
CP 1	83	57	26
CP 2-3	56	37	19
CP 4	29	29	0
Total	168	123	45

CP 1-4 – Railroad Parcel Delivery to Design-Builder (DB) Summary



Notes:

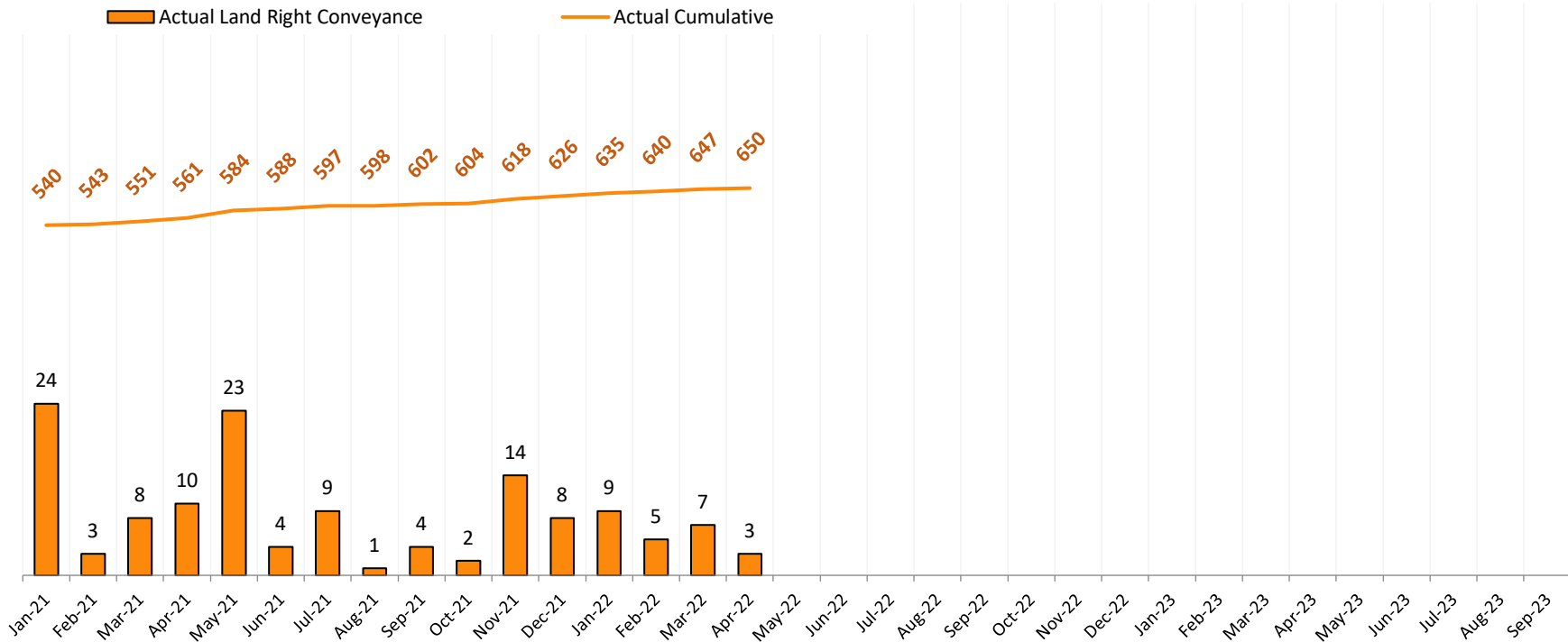
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. One Railroad parcel delivery date is being reforecast, not impacting the critical path.

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

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

Construction Package	Total Needed Land Right Conveyances April 30, 2022	Total Land Right Conveyances Approved ⁽²⁾ April 30, 2022	Remaining Land Right Conveyances to be Approved April 30, 2022
CP 1	393	340	53
CP 2-3	433	265	168
CP 4	88	45	43
Total	914	650	264

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

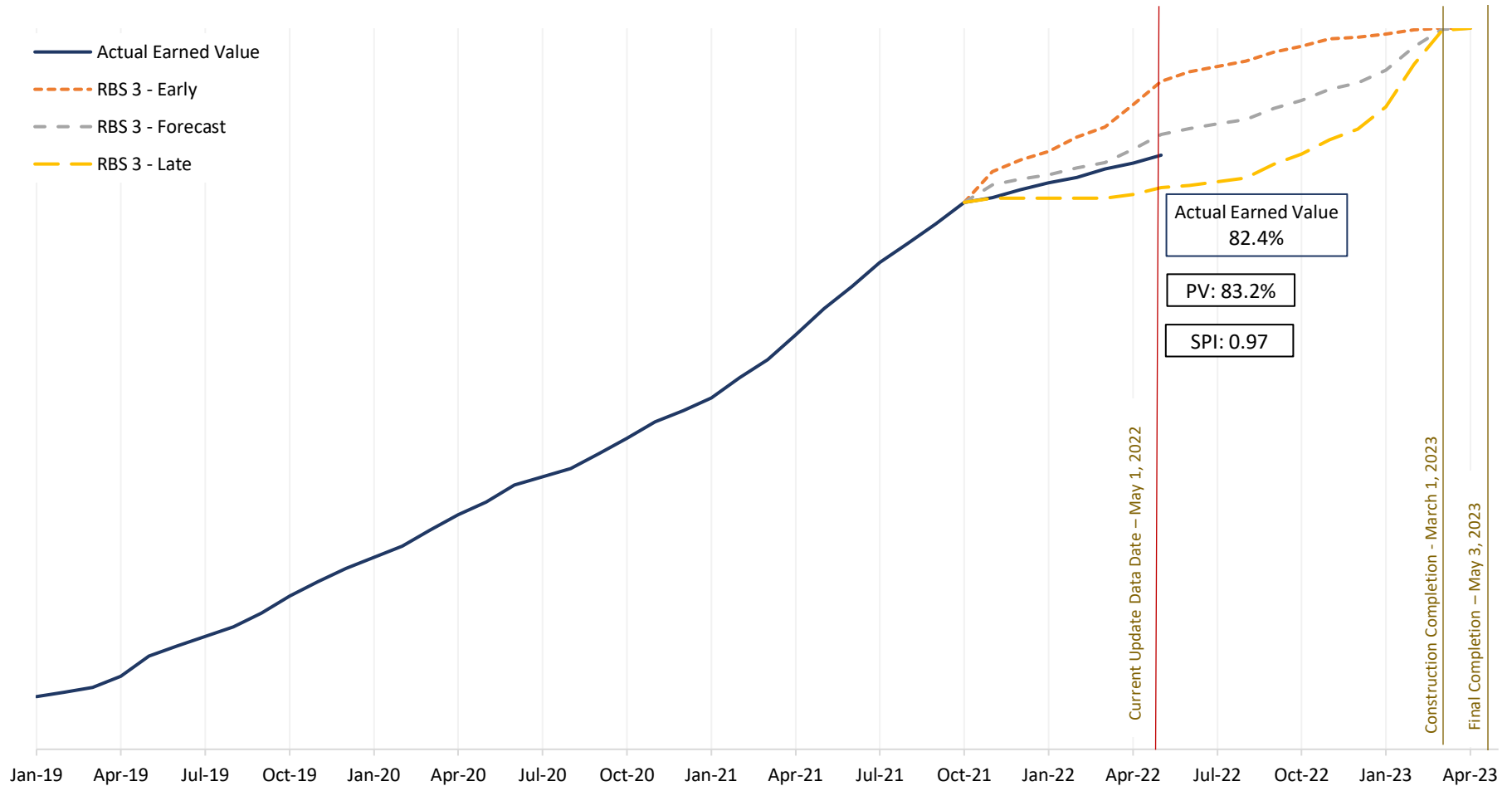


Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) Revision 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

CP 4 – Earned Value

CP 4 – Earned Value Summary (%)

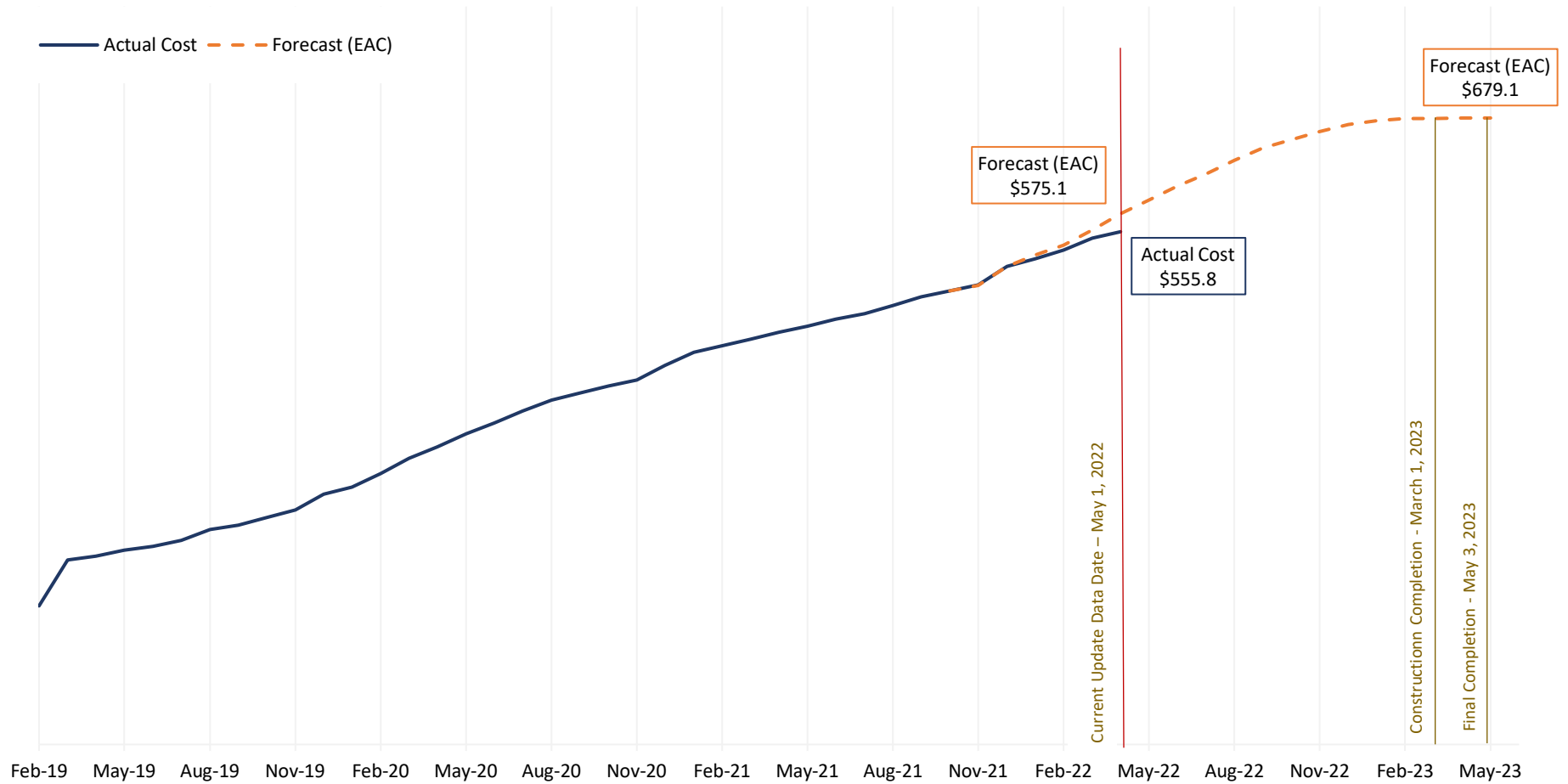


Notes:

1. The plan graphs are based on RBS Revision 3, which has a data date of October 1, 2021 and a construction completion date of March 1, 2023. Actual graph is as of April 30, 2022.
2. Earned Value represents physical progress of site activities, which is based on project team verification of site progress measurements.
3. The early dates graph is optimistic and assumes activities will take place on the schedule early dates.
4. Average graph assumes non-critical path activities are taking place mid-way of early and late dates.
5. The late dates graph assumes activities will take place on the schedule late dates. If actuals fall below late graph, it indicates schedule slippage. To provide contingency, the Schedule Performance Index (SPI) is measured against the average graph.
6. Time contingency is not included in these forecasts. This is Authority owned contingency.

CP 4 – Cost Trend

CP 4 – Cost Trend Summary (\$ Millions)



Notes:

1. The graph provides a comparison of the project actual cost performance against the target Estimate at Completion (EAC).
2. The target EAC forecast is based on the contract value and the estimated cost of expected change orders.

CONSTRUCTION PACKAGE 1 (CP 1) OVERVIEW

CP 1 – Design-Build Contract Summary⁽¹⁾

Milestones

Milestone	Date
Request for Quote (RFQ) Date:	11/15/2011
Statement of Qualification (SOQ) Date:	12/19/2011
Request for Proposal (RFP) Date:	03/22/2012
Proposal:	01/18/2013
Bid Open Date:	04/13/2013
Award Date:	08/16/2013
Notice to Proceed (NTP) 1 Date:	10/15/2013
Notice to Proceed (NTP) 2 Date:	11/22/2013
Notice to Proceed (NTP) 3 Date:	07/11/2014
Original Completion Date:	03/31/2018
Current Forecast Contract Completion Date ⁽²⁾ :	03/04/2024
Current Forecast Construction Completion Date⁽³⁾:	12/29/2023

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:	\$1,679,609,448.31
Current Contract Amount:	\$2,702,597,448.31
Approved Invoices to Date:	\$1,777,716,873.87
Remaining Contract Balance:	\$924,880,574.44

Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded:	2,099
Current Forecast Contract Days:	3,727
Calendar Days Worked (thru 04/30/2022):	3,119

Expended to Date

Description	Percentage
Time:	83.7%
Dollars:	65.8%

Growth Percentage

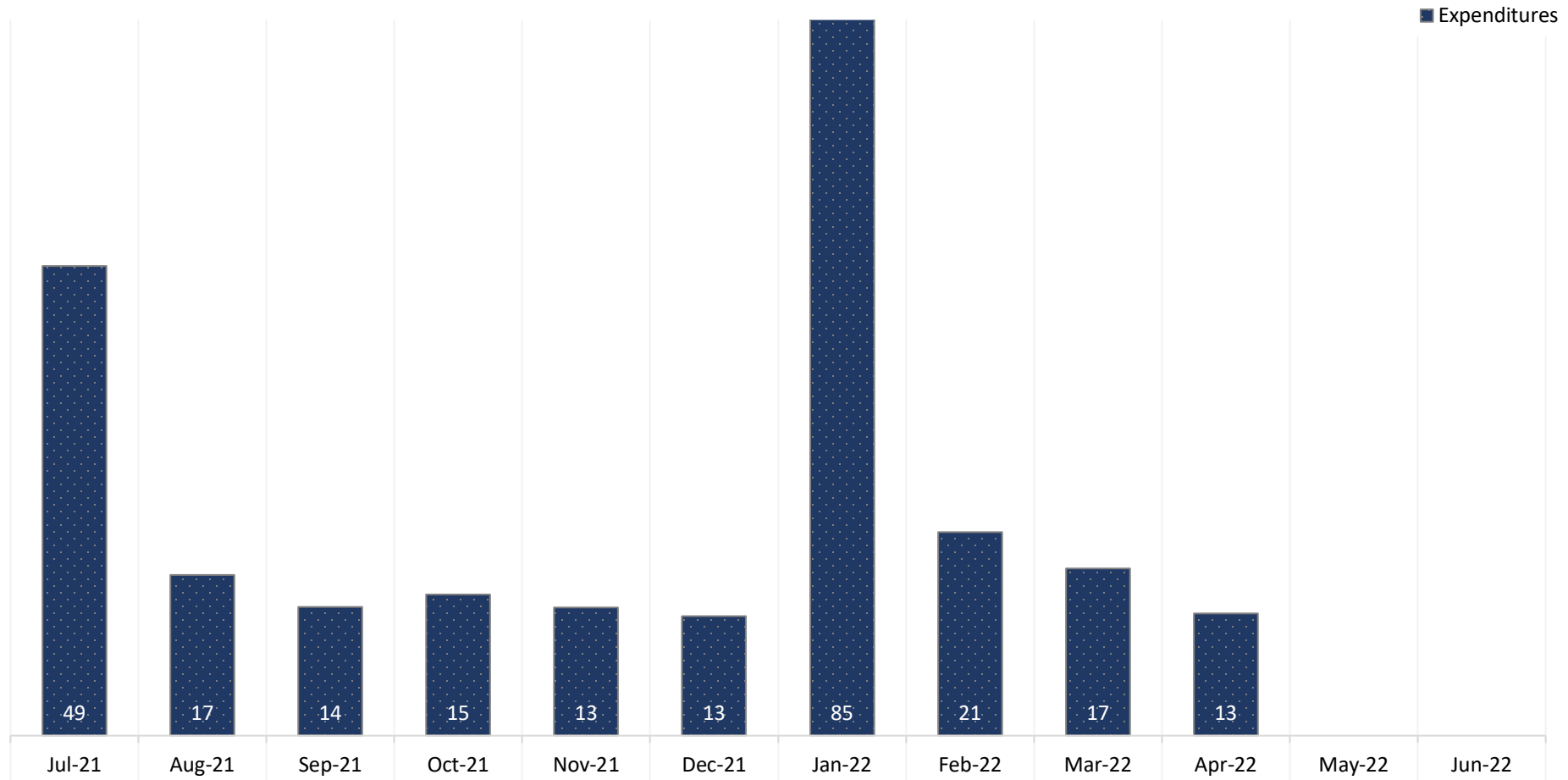
Description	Percentage
Time:	128.9%
Dollars:	164.2%

Notes:

- Information in this section is coming from data provided by the PCM – Monthly Status Report.
- Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization (pending executed change order).
- Expenditure Authorization Current Forecast Construction Completion Date (pending executed change order) – December 29, 2023.
- Subject to finalization of Revised Baseline Schedules (RBS) Revision 3 and execution of contract changes of any time extensions.
- Contract Time Status (Extension of Time Awarded and Current Contract Days), Expended to Date (Time), and Growth Percentage (Time) calculation is based on the Current Construction Completion Date.

CP 1 – Design-Build Expenditures

CP 1 – Monthly Expenditures (\$ Millions)



Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. Expenditures totaled \$12.8M.

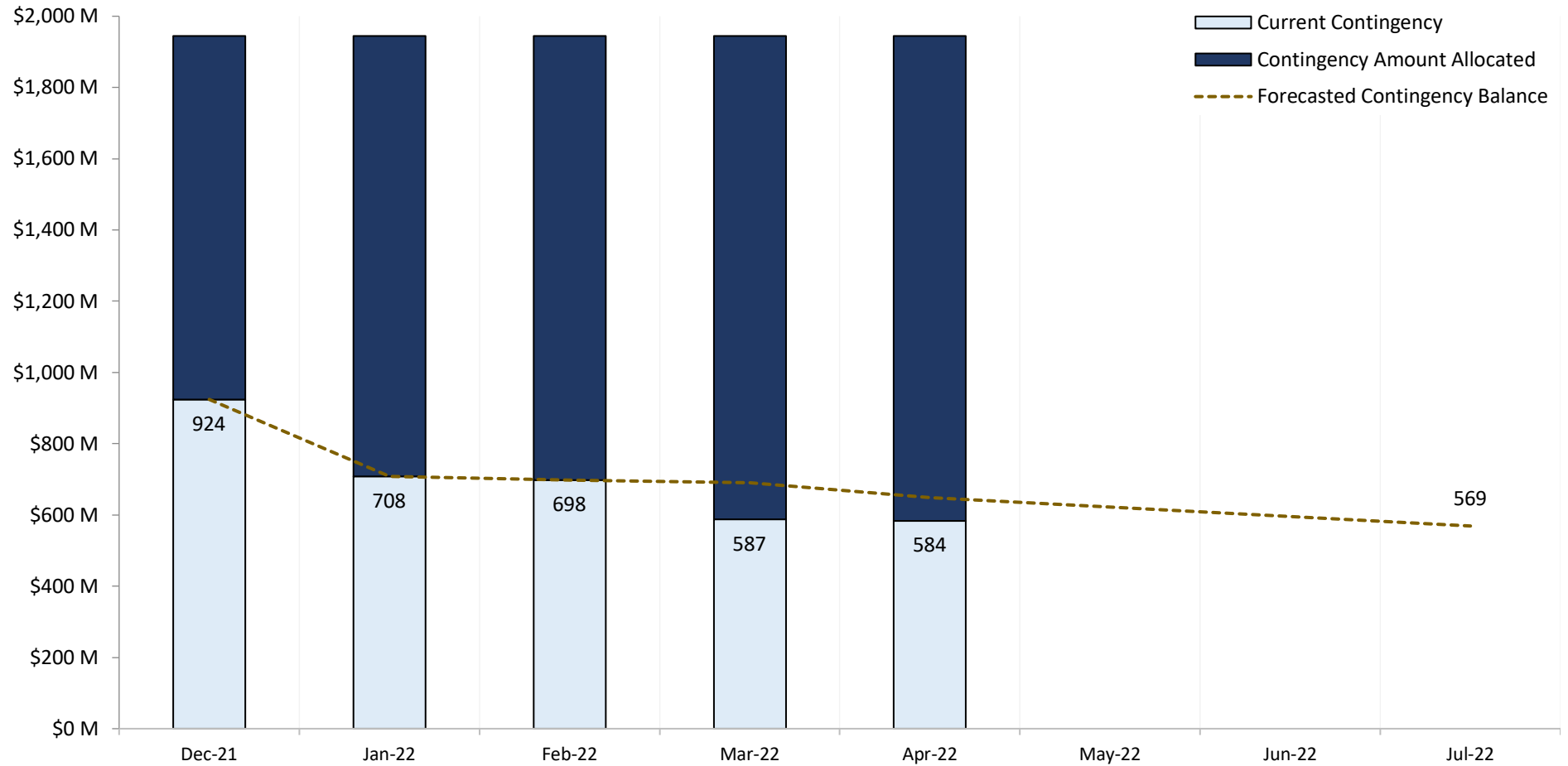
CP 1 – Change Orders (CO)

CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00427	PCO 0372 R2 - Belmont RS-99 Interchange Improvement COF Deal Points	Executed	(\$68,878.00)	04-04-22
00431	PCO # 0989 R2: SJRV Site, In-Stream Woody Refugia Design Project - Design	Executed	\$87,971.00	04-02-22
00286.01	PCO 0857.01 R3 - Authority Bizhub C558 Copiers - 27 Months Lease Extension	Executed	\$61,764.00	04-08-22
00328.02	Increase the Amount of the Utility Provisional Sum	Executed	\$31,000,000.00	04-15-22
00430	Railroad Avenue Drainage due to City of Fresno Deal Points - Construction	Executed	\$3,249,201.00	04-21-22
TOTAL			\$34,330,058.00	

CP 1 – Risk Contingency

CP 1 – Risk Contingency Status (\$ Millions)

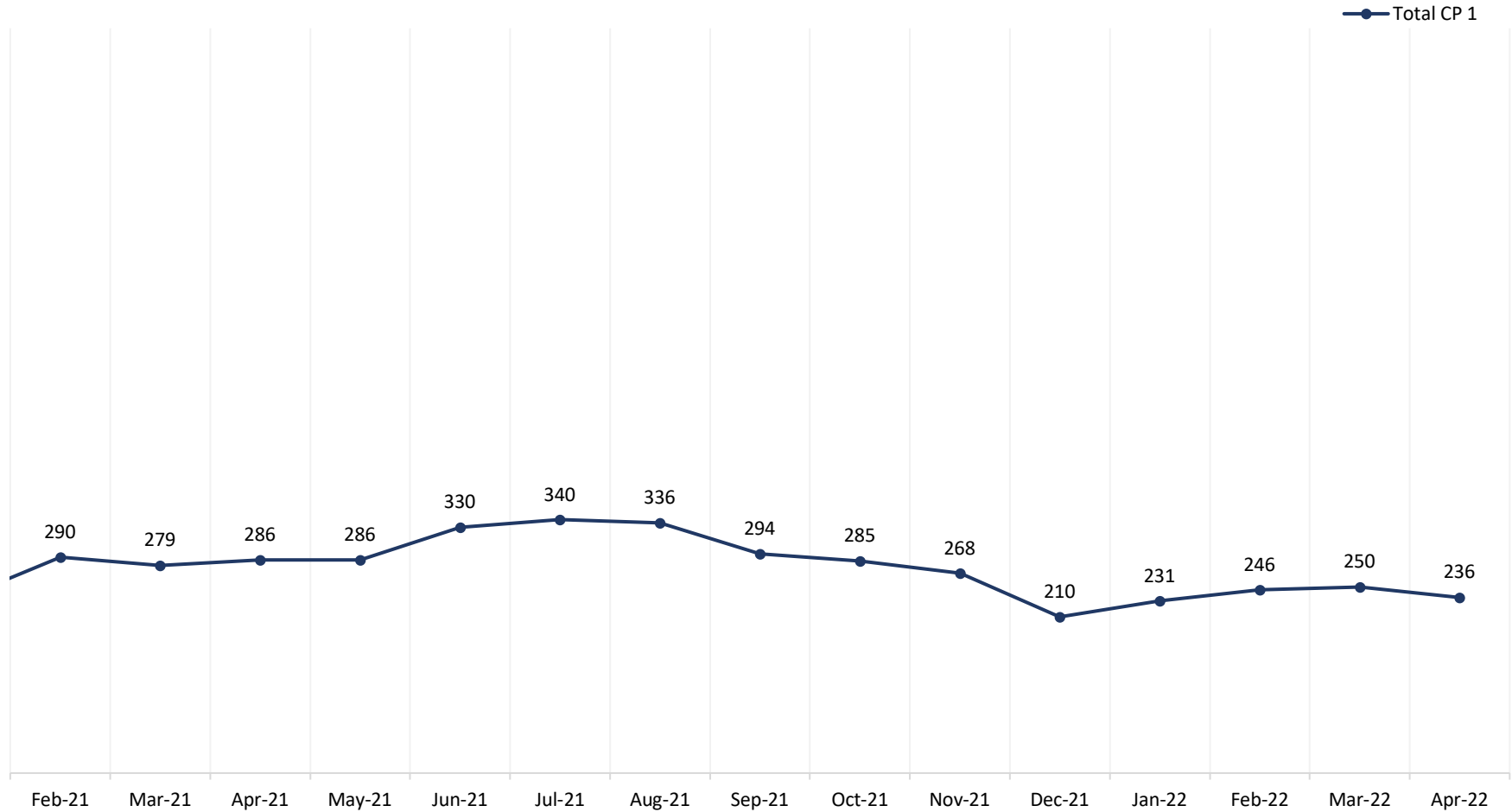


Notes:

1. Program baseline is \$1,945M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects executed change orders and Business Oversight Committee (BOC) approved items.
4. The Forecasted Contingency Balance drawdown curve is based on the estimated change orders expected to be executed within the three-month window.

CP 1 – Monthly Construction Labor

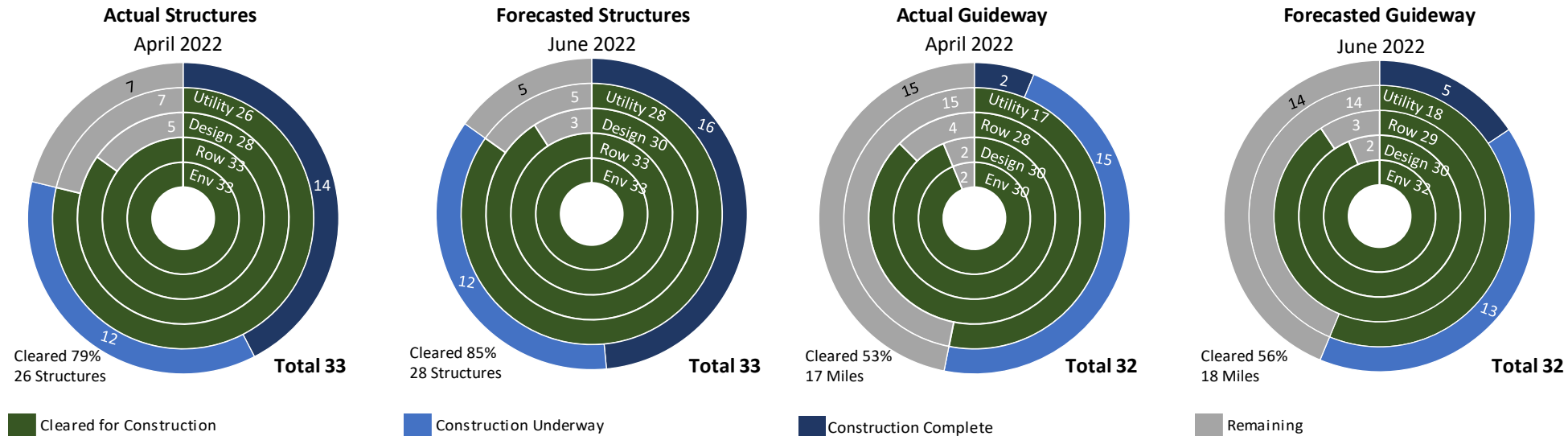
CP 1 – Monthly Construction Workforce Total – Actual (FTE)



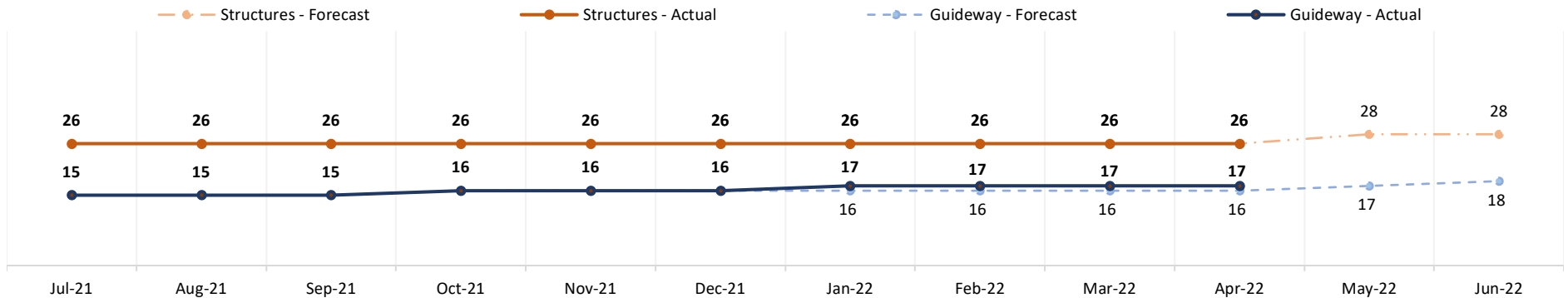
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. A decrease of 14 workers from the previous month (250).

CP 1 – Construction Progress

CP 1 – Construction Progress



CP 1 – Structures and Guideway Progress – Forecast vs. Actual



Notes:

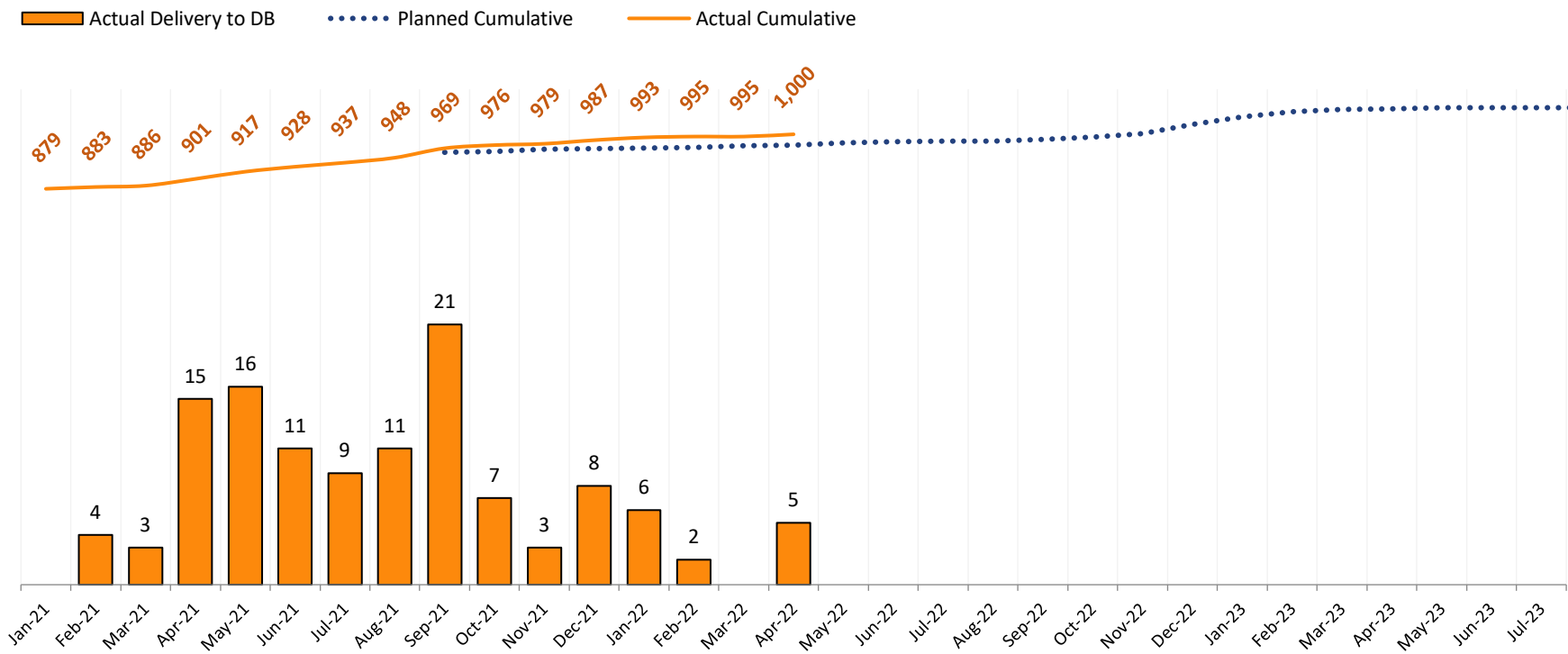
1. The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 3 data pending approval.
2. The line chart above incorporates provisional forecast numbers pending submission and approval of RBS Revision 3.
3. Construction Complete definition:
 - a. Structure Completion – all concrete work is complete.
 - b. Guideway Completion – earthworks complete with rough grading.
4. Total Structures: 33:
 - a. 26 structures underway/Construction complete.
5. Total Guideway: 32 miles:
 - a. 17 miles underway/Construction complete.

CP 1– Real Property/Right-of-Way (ROW)

CP 1 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels April 30, 2022	Total Parcels Delivered to Date April 30, 2022	Remaining Parcels to be Delivered April 30, 2022
CP 1	1,076	1000	76

CP 1 – Parcel Delivery to Design-Builder (DB) Summary



Notes:

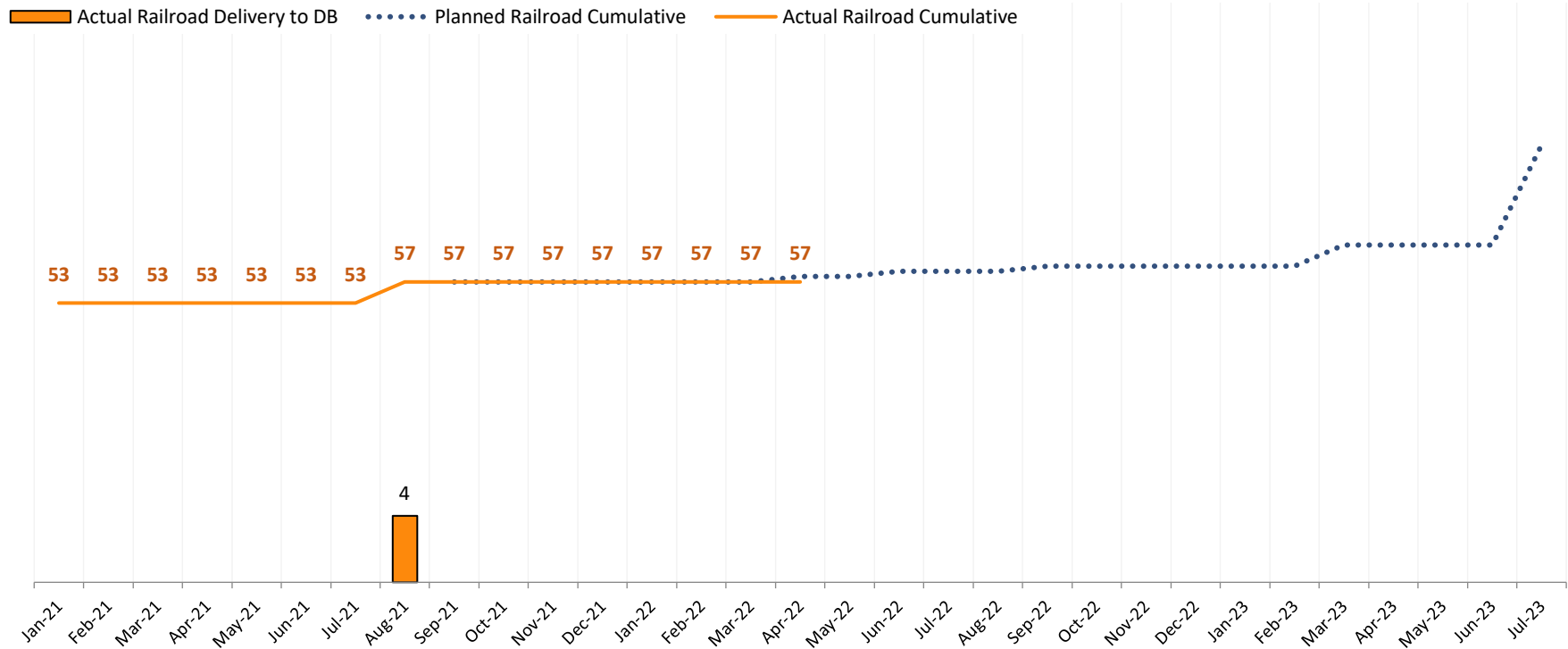
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedules (RBS) Revision 3.
2. Two parcels added and one removed from Total Needed Parcels.

CP 1 – Real Property/Right-of-Way (ROW) Railroad

CP 1 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels April 30, 2022	Total Railroad Parcels Delivered to Date April 30, 2022	Remaining Railroad Parcels to be Delivered April 30, 2022
CP 1	83	57	26

CP 1 – Railroad Parcel Delivery to Design-Builder (DB) Summary



Note:

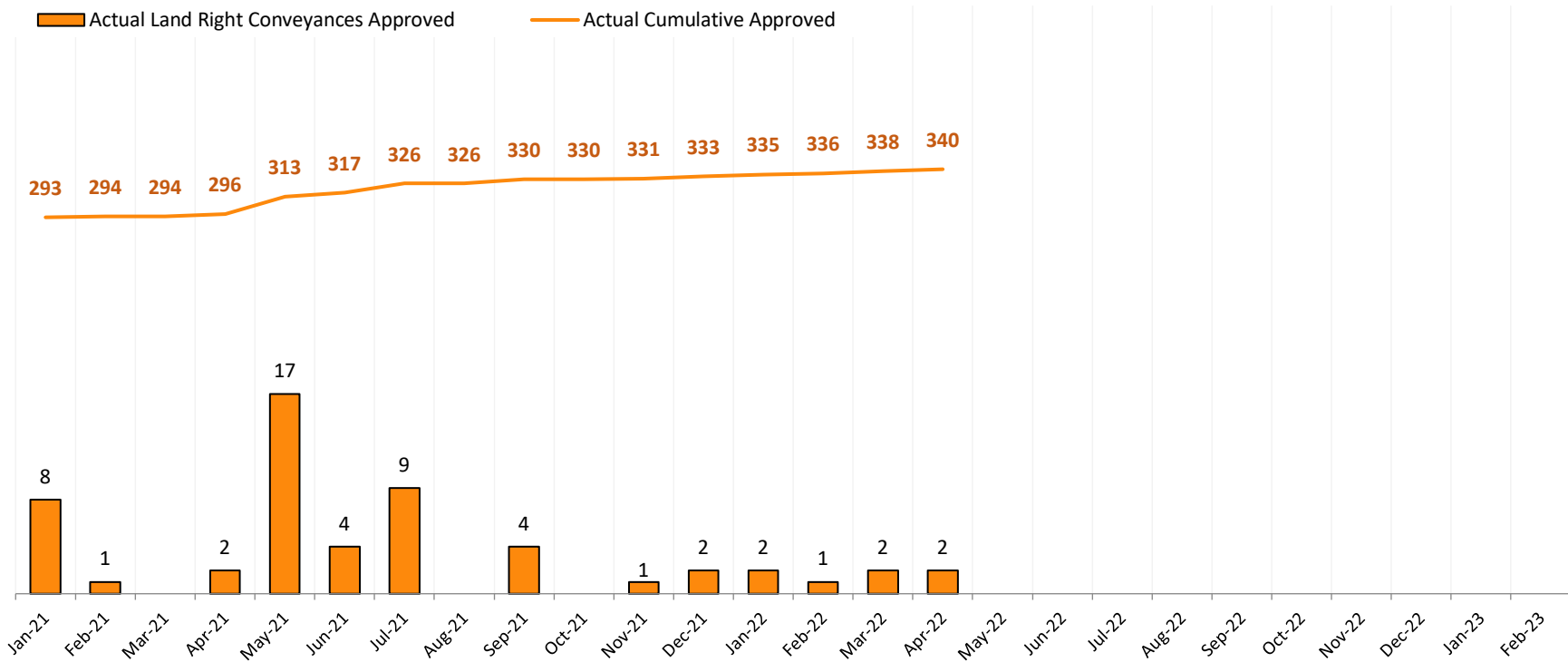
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. One Railroad parcel delivery date being reforecast, not impacting the critical path.

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

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

Construction Package	Total Needed Land Right Conveyances April 30, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date April 30, 2022	Remaining Land Right Conveyances to be Approved April 30, 2022
CP 1	393	340	53

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



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

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

CP 2-3 – Design-Build Contract Summary⁽¹⁾

Milestones

Milestone	Date
Request for Quote (RFQ) Date:	10/09/2013
Statement of Qualification (SOQ) Date:	12/13/2013
Request for Proposal (RFP) Date:	04/03/2014
Proposal:	10/30/2014
Bid Open Date:	12/11/2014
Award Date:	06/10/2015
Late Notice to Proceed (LNTP) Date:	06/12/2015
Notice to Proceed (NTP) Date:	07/25/2015
Original Completion Date:	08/19/2019
Current Forecast Contract Completion Date ⁽²⁾ :	03/06/2024
Current Forecast Construction Completion Date⁽³⁾:	12/31/2023

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:	\$1,041,889,597.42
Current Contract Amount:	\$2,407,225,487.42
Approved Invoices to Date:	\$1,557,404,456.72
Remaining Contract Balance:	\$849,821,030.70

Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded:	1,595
Current Forecast Contract Days:	3,081
Calendar Days Worked (thru 04/30/2022):	2,471

Expended to Date Percentage

Description	Percentage
Time:	80.2%
Dollars:	64.7%

Growth Percentage

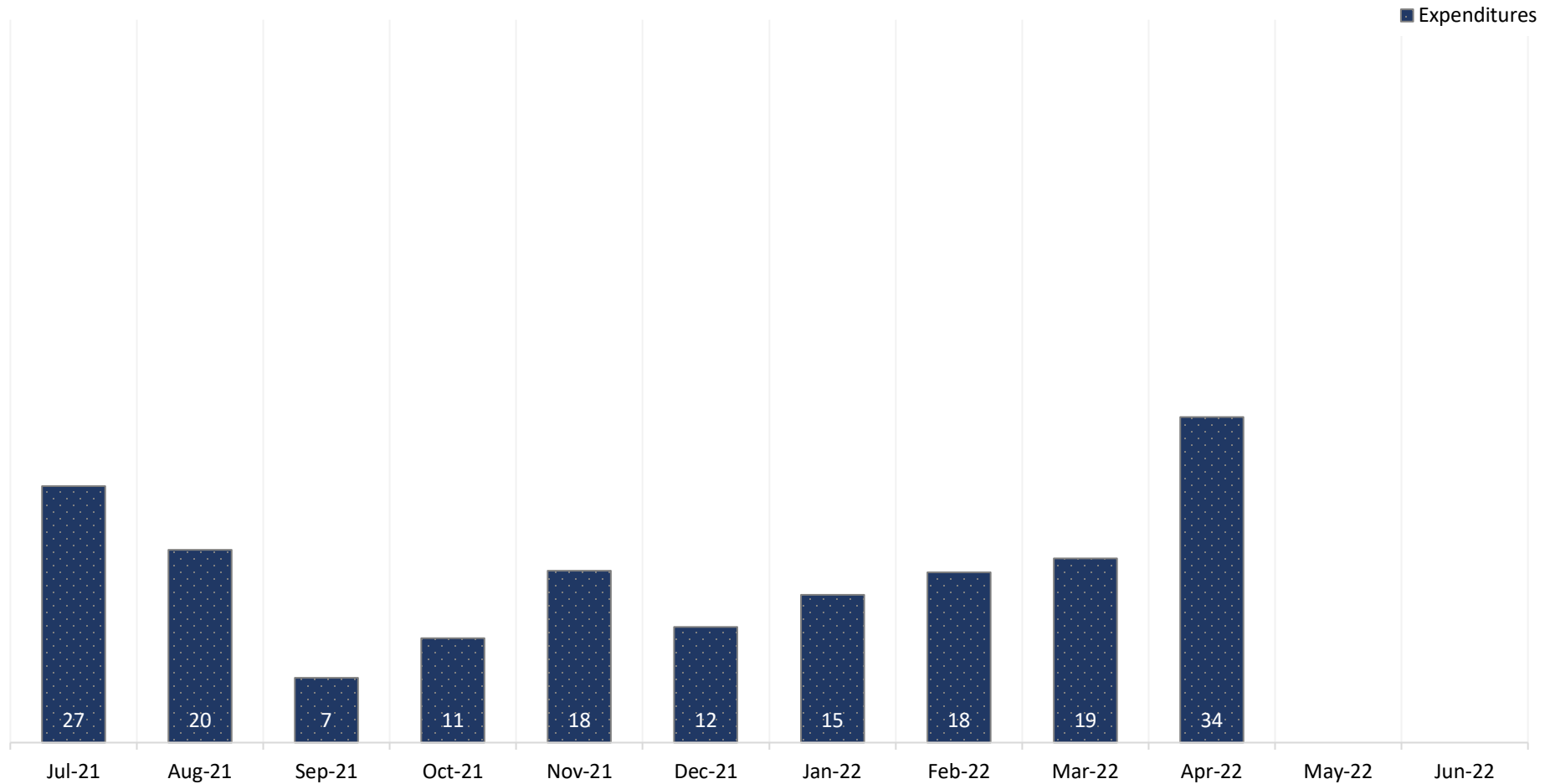
Description	Percentage
Time:	107.3%
Dollars:	76.3%

Notes:

- Information in this section is coming from data provided by the PCM – Monthly Status Report.
- Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization (pending executed change order).
- Expenditure Authorization Current Forecast Construction Completion Date (pending executed change order) – December 31, 2023.
- Subject to finalization of Revised Baseline Schedules (RBS) Revision 3 and execution of contract changes of any time extensions.
- Contract Time Status (Extension of Time Awarded and Current Contract Days) Expended to Date (Time), and Growth Percentage (Time) calculation is based on the Current Construction Completion Date.

CP 2-3 – Design-Build Expenditures

CP 2-3 – Monthly Expenditures (\$ Millions)



Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. Expenditures totaled \$33.8M.

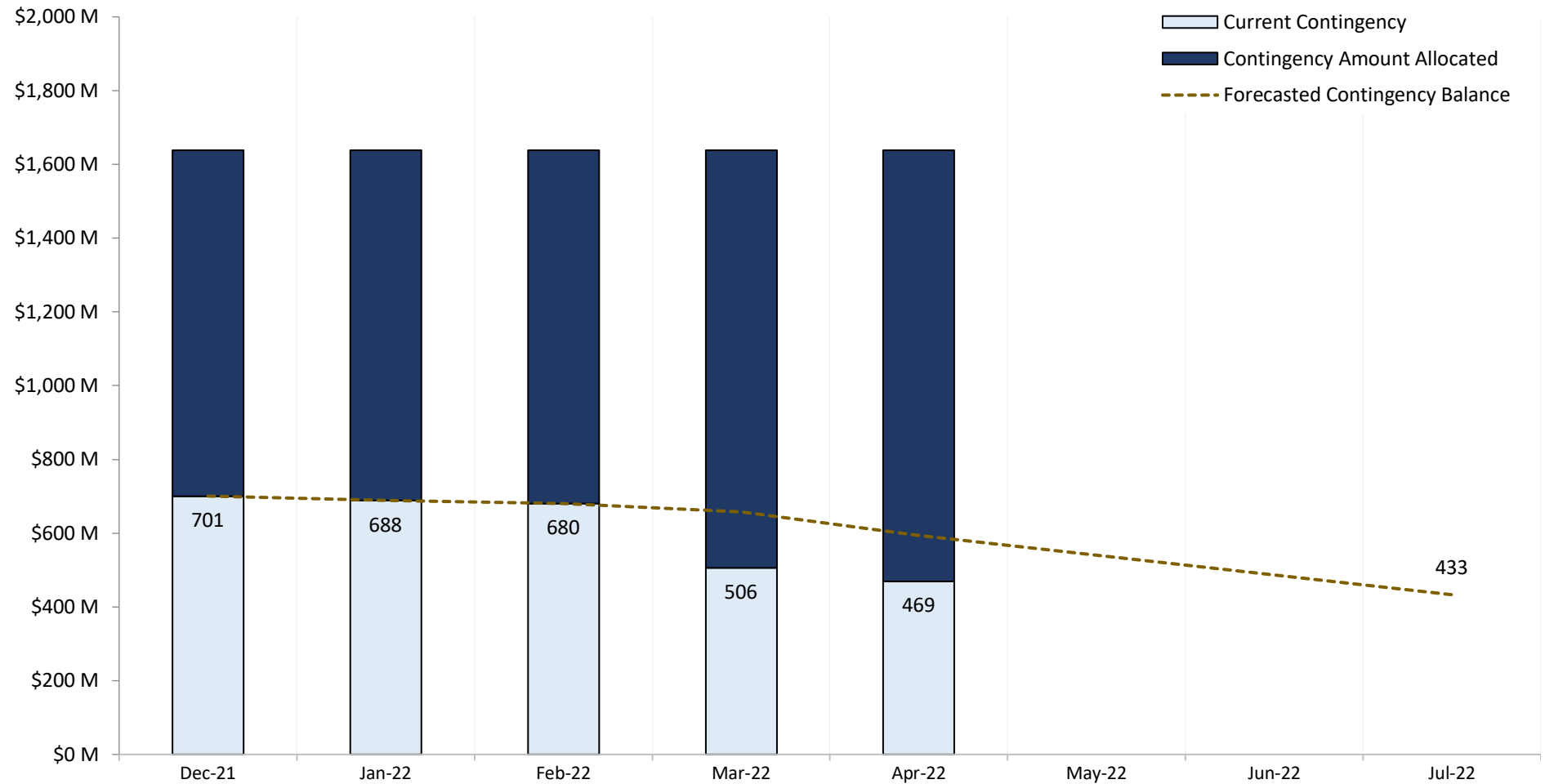
CP 2-3 – Change Orders (CO)

CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00295	Caltrans CalME Pavement Calculations	Executed	\$11,890.00	04-28-22
00293	UPRR Temporary Fence Hanford Viaduct (DL 168)	Executed	\$37,721.00	04-28-22
00267.1	SR-137-Whitley Ave Cal Trans UTC	Executed	\$4,876,709.00	04-22-22
00010.12	Avenue 24 - Cast in Place Boxed Undercrossing	Executed	\$13,076,256.00	04-22-22
169.1	Southern California Gas (Sempra) Additional Cost	Executed	\$15,000,000.00	04-22-22
00297	V&V Construction Costs from November 2020 to September 2021 DL-116.1	Executed	\$514,640.00	04-22-22
00285	Opaque Barriers at South Avenue	Executed	\$608,004.00	04-22-22
00287	Keller North America Standby and Delay Costs	Executed	\$332,091.00	04-22-22
00296	Agreement for Settlement, Release, and Waiver for Intrusion Protection Barrier Work	Executed	\$144,949,345.00	04-15-22
00291	Demolish Building – City of Corcoran	Executed	\$97,638.00	04-13-22
00045.30	Escalation Costs - February 2022	Executed	\$1,619,540.00	04-13-22
TOTAL			\$181,123,834.00	

CP 2-3 – Risk Contingency

CP 2-3 – Risk Contingency Status (\$ Millions)

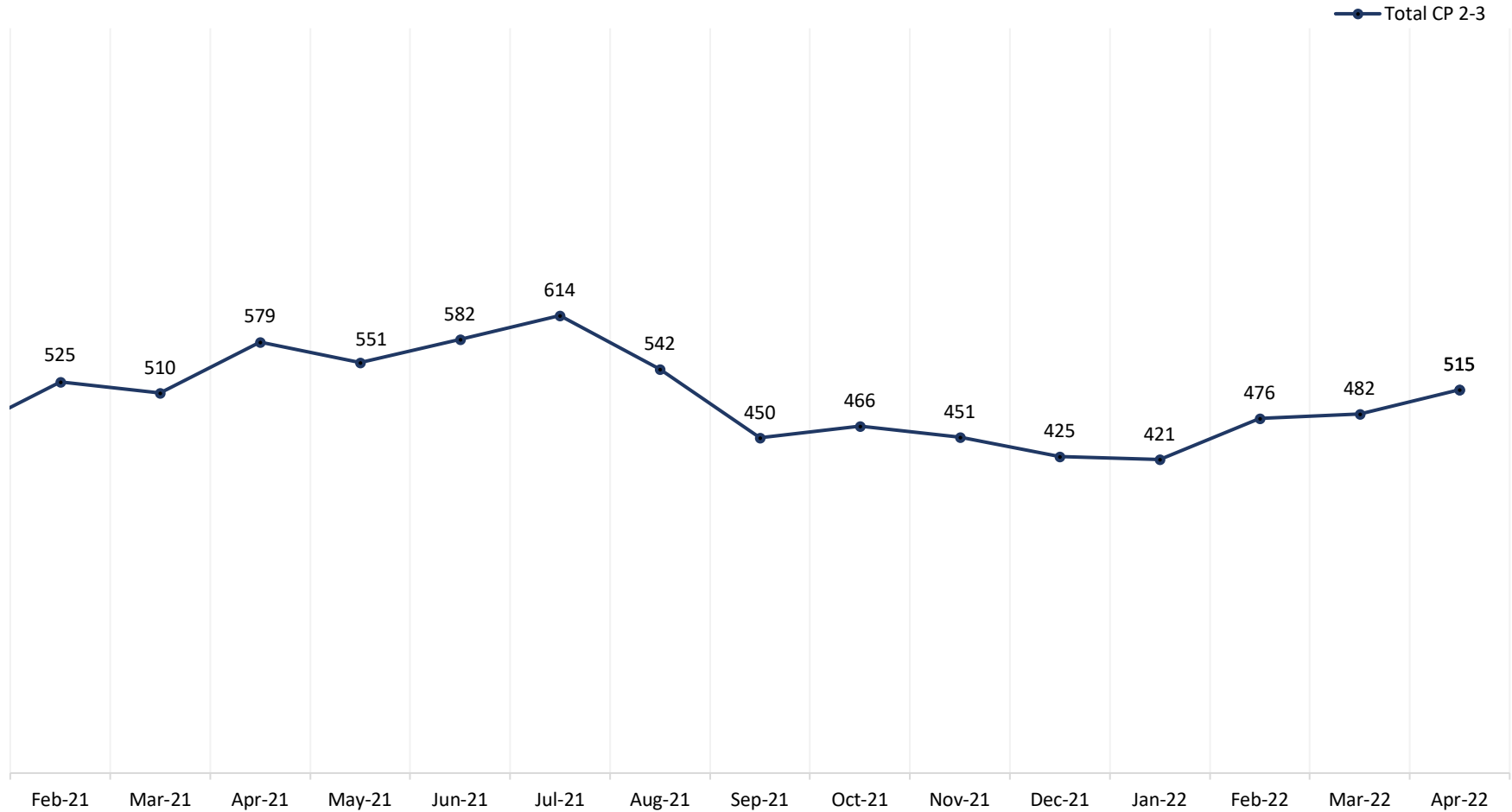


Notes:

1. Program baseline is \$1,638M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR21-11 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects executed change orders and Business Oversight Committee (BOC) approved items.
4. The Forecasted Contingency Balance drawdown curve is based on the estimated change orders expected to be executed within the three-month window.

CP 2-3 – Monthly Construction Labor

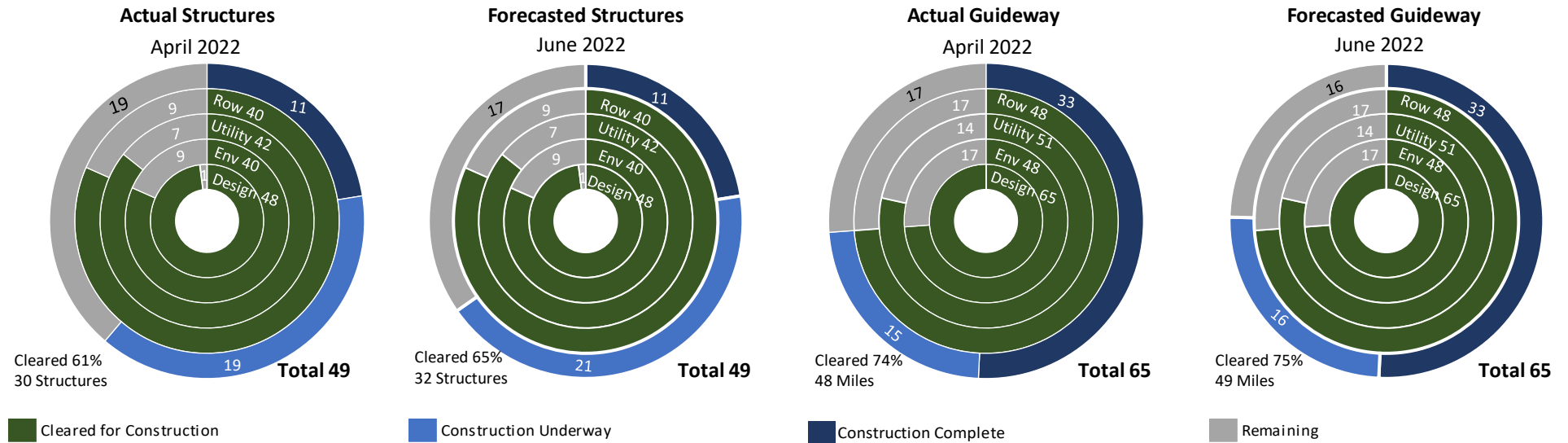
CP 2-3 – Monthly Construction Workforce Total – Actual (FTE)



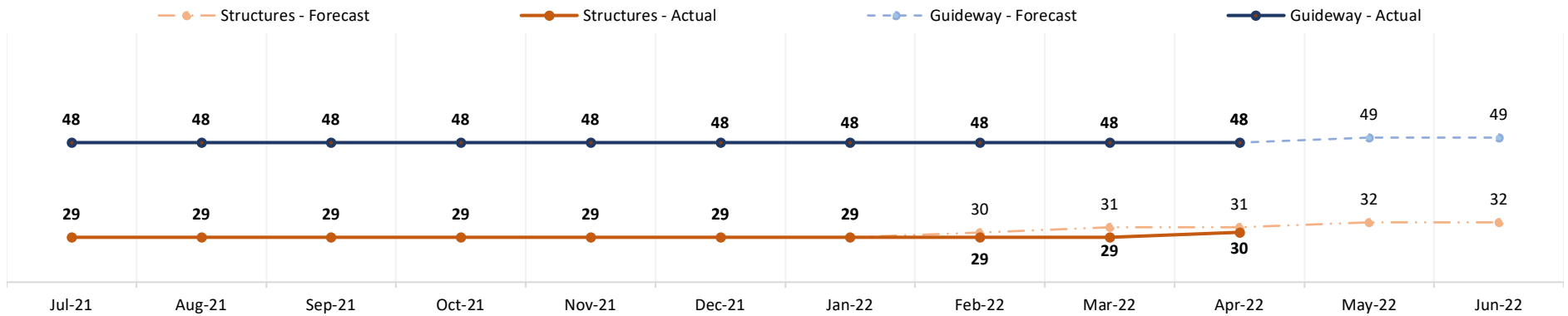
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 33 workers from the previous month (482).

CP 2-3 – Construction Progress

CP 2-3 – Construction Progress



CP 2-3 – Structures and Guideway Progress – Forecast vs. Actual



Notes:

- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 3 data pending approval.
- The line chart above incorporates provisional forecast numbers pending submission and approval of RBS Revision 3.
- Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
- Total Structures: 49:
 - 30 structures underway/Construction complete. CP2-3 delay at Grangeville due to utility relocation of SCE transmission line.
- Total Guideway: 65 miles:
 - 48 miles underway/Construction complete.

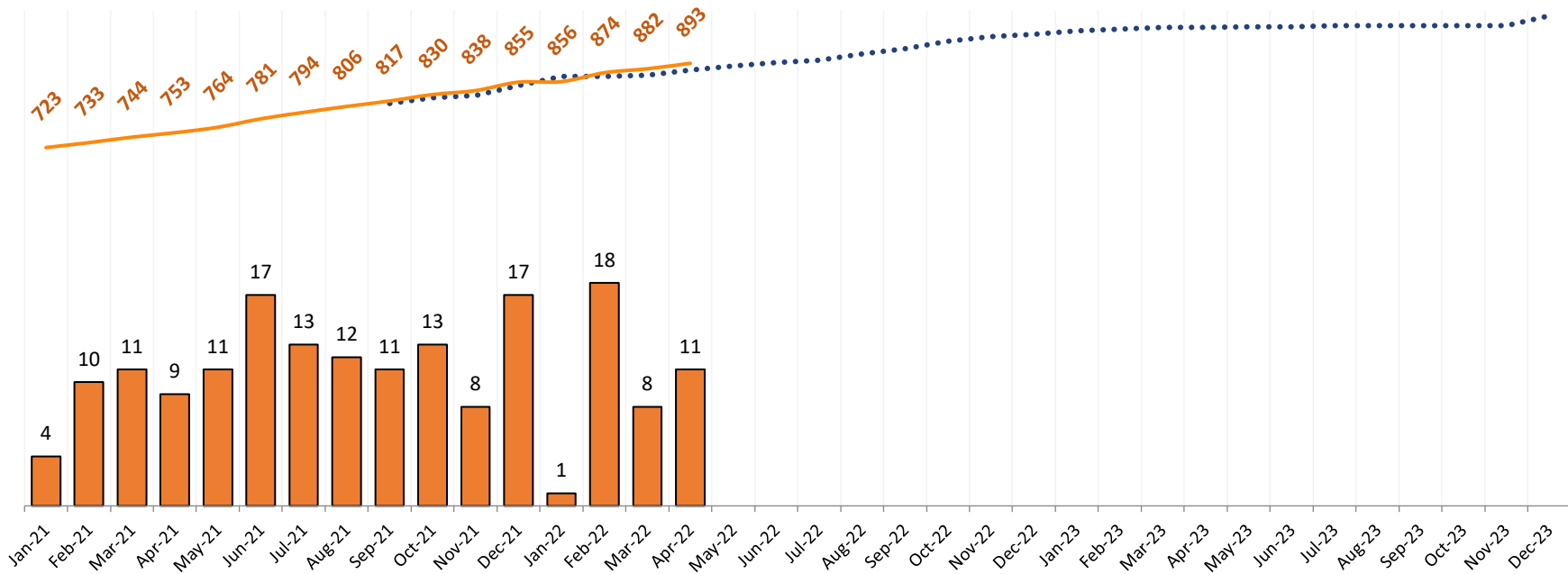
CP 2-3 – Real Property/Right-of-Way (ROW)

CP 2-3 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels April 30, 2022	Total Parcels Delivered to Date April 30, 2022	Remaining Parcels to be Delivered April 30, 2022
CP 2-3	990	893	97

CP 2-3 – Parcel Delivery to Design-Builder (DB) Summary

■ Actual Delivery to DB
 ●●●●● Planned Cumulative
 — Actual Cumulative



Notes:

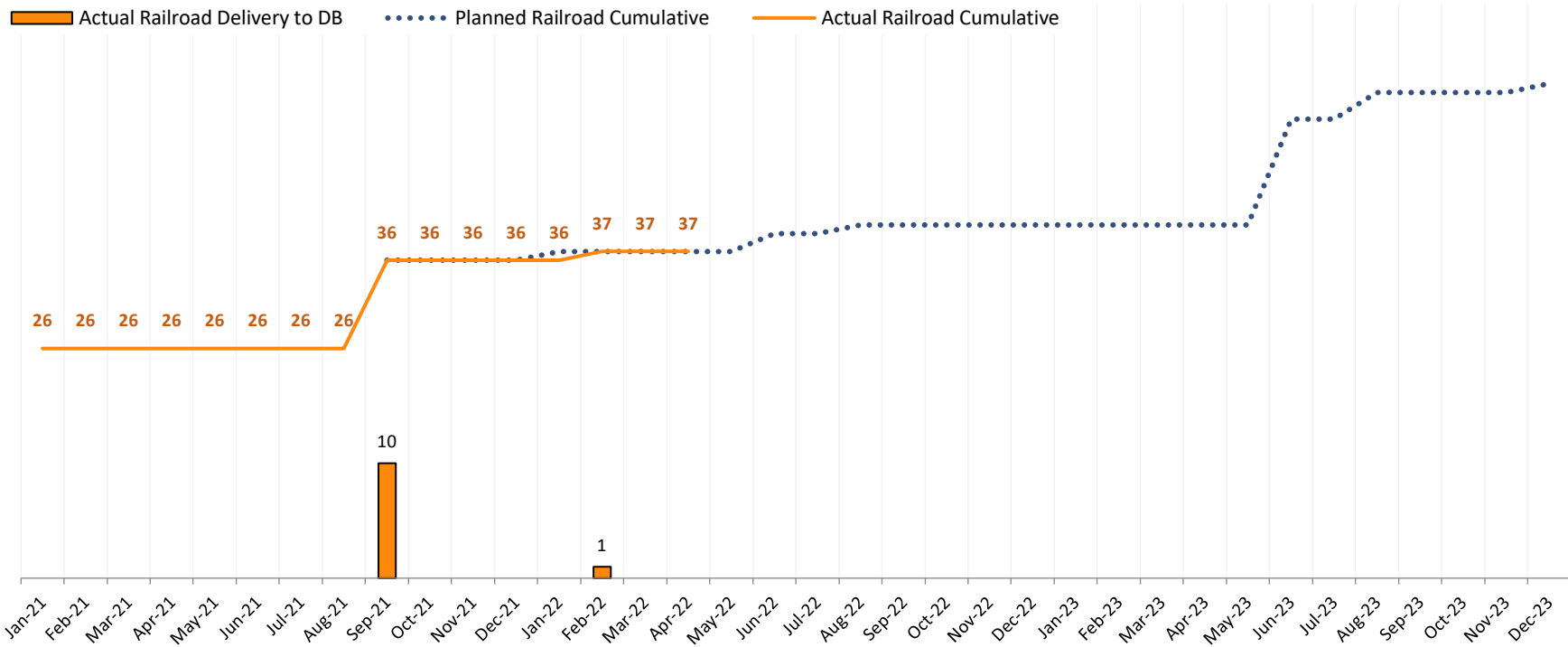
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedule (RBS) Revision 3.

CP 2-3 – Real Property/Right-of-Way (ROW) Railroad

CP 2-3 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels April 30, 2022	Total Railroad Parcels Delivered to Date April 30, 2022	Remaining Railroad Parcels to be Delivered April 30, 2022
CP 2-3	56	37	19

CP 2-3 – Railroad Parcel Delivery to Design-Builder (DB) Summary



Note:

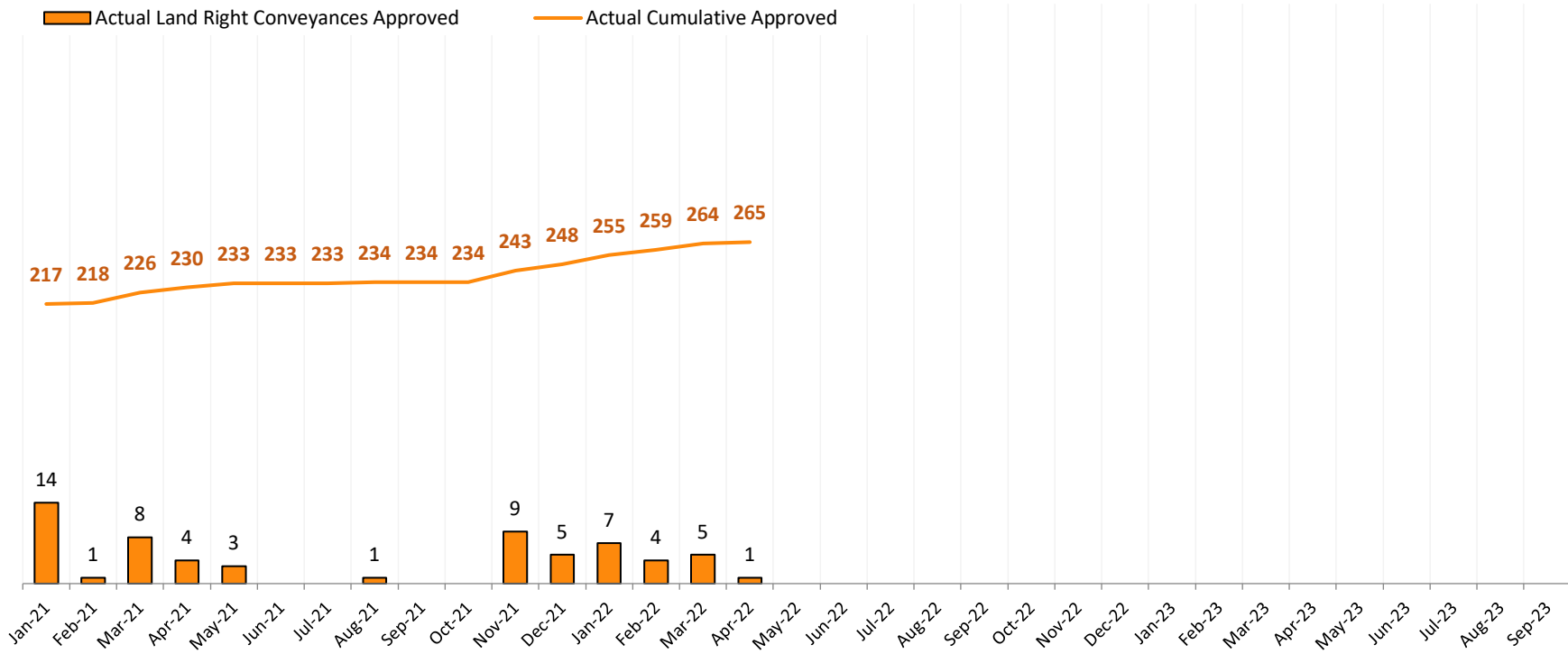
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.

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

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

Construction Package	Total Needed Land Right Conveyances April 30, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date April 30, 2022	Remaining Land Right Conveyances to be Approved April 30, 2022
CP 2-3	433	265	168

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



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) Revision 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

CONSTRUCTION PACKAGE 4 (CP 4) OVERVIEW

CP 4 – Design-Build Contract Summary⁽¹⁾

Milestones

Milestone	Date
Request for Quote (RFQ) Date:	11/20/2014
Statement of Qualification (SOQ) Date:	01/30/2015
Request for Proposal (RFP) Date:	05/27/2015
Proposal:	11/25/2015
Bid Open Date:	01/05/2016
Award Date:	02/29/2016
Late Notice to Proceed (LNTP) Date:	03/01/2016
Notice to Proceed (NTP) Date:	04/15/2016
Original Completion Date:	06/03/2019
Current Forecast Contract Completion Date ⁽²⁾ :	05/03/2023
Current Forecast Construction Completion Date⁽³⁾:	03/01/2023

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:	\$258,114,884.71
Current Contract Amount:	\$702,361,884.71
Approved Invoices to Date:	\$555,830,872.35
Remaining Contract Balance:	\$146,531,012.36

Current Time Status

Description	Duration
Original Contract Days:	1,144
Extension of Time Awarded:	1,367
Current Forecast Contract Days:	2,511
Calendar Days Worked (thru 04/30/2022):	2,206

Expended to Date

Description	Percentage
Time:	87.9%
Dollars:	79.1%

Growth Percentage

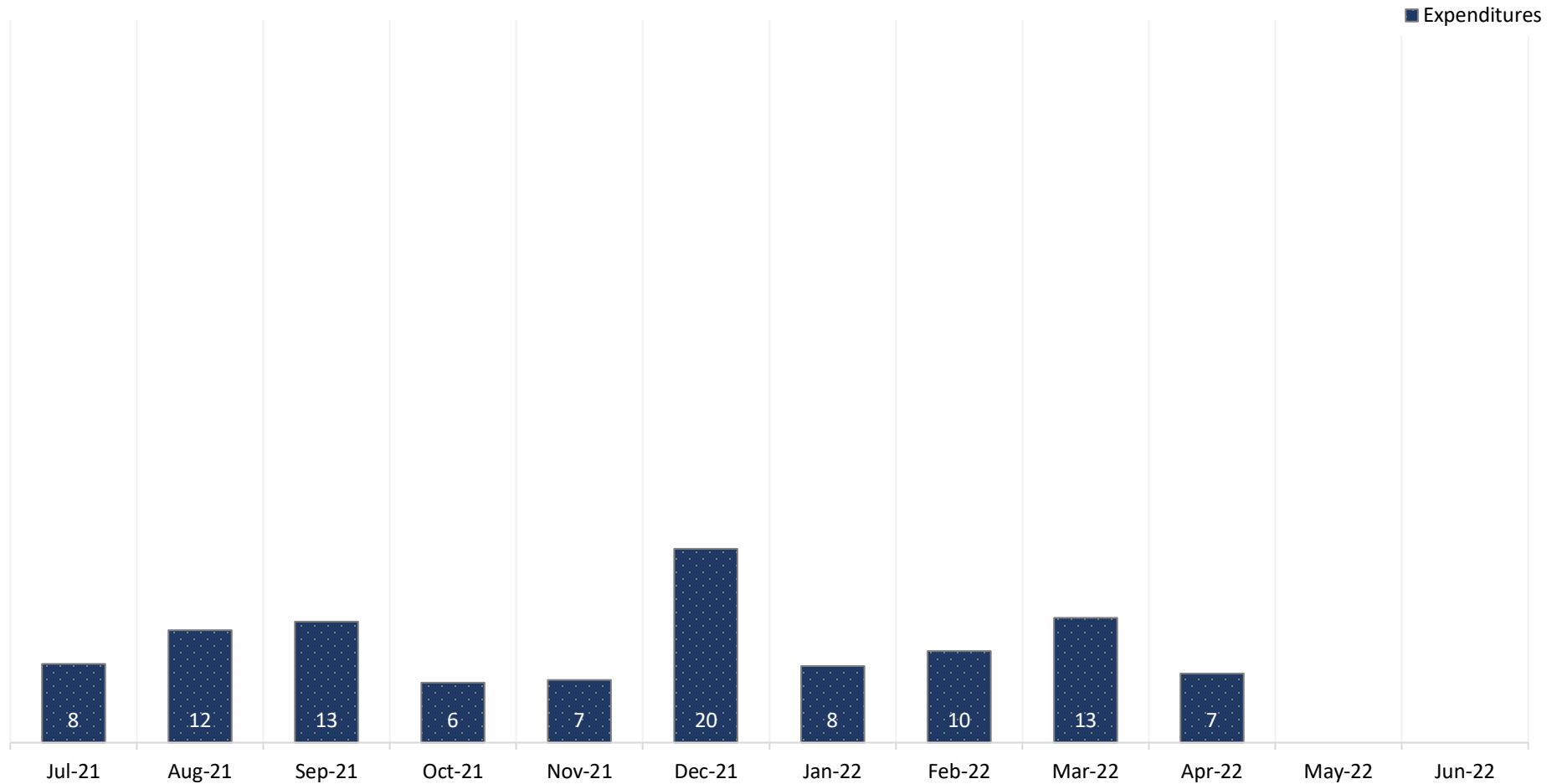
Description	Percentage
Time:	119.5%
Dollars:	58.1%

Notes:

- Information in this section is coming from data provided by the PCM – Monthly Status Report.
- Updated to align with Current Forecast Contract Completion Date based on Expenditure Authorization (pending executed change order).
- Expenditure Authorization Current Forecast Construction Completion Date (pending executed change order) – March 1, 2023.
- Subject to finalization of Revised Baseline Schedules (RBS) Revision 3 and execution of contract changes of any time extensions.
- Contract Time Status (Extension of Time Awarded and Current Forecast Contract Days) Expended to Date (Time), and Growth Percentage (Time) calculation is based on the Current Construction Completion Date.

CP 4 – Design-Build Expenditures

CP 4 – Monthly Expenditures (\$ Millions)



Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. Expenditures totaled \$7.2M.

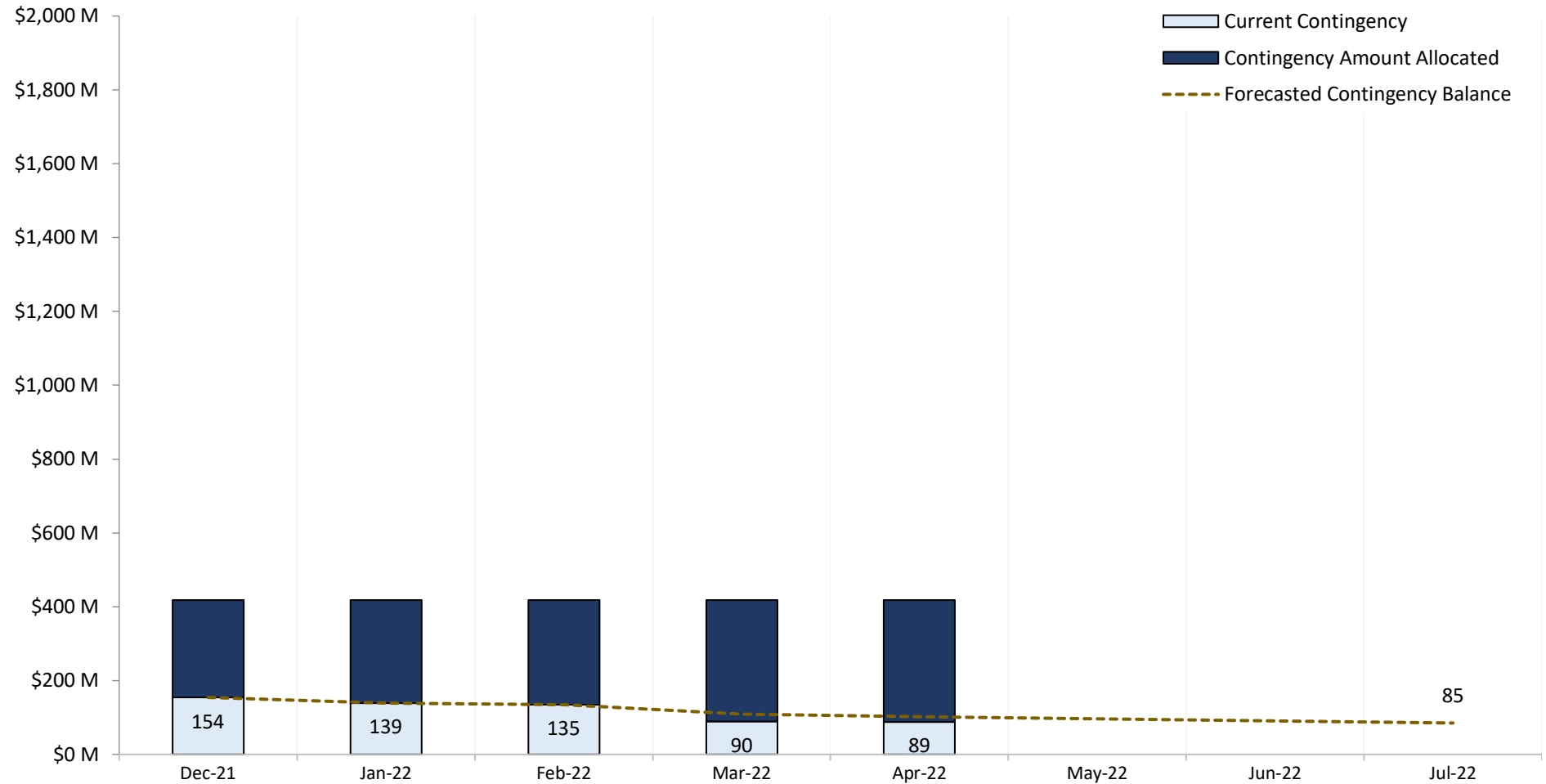
CP 4 – Change Orders (CO)

CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
32r2	Adjustment to Completion Deadlines and Contract Price due to Delays (TIA13)	Executed	\$21,005,179.65	04-15-22
57.1	Electrostatic Disinfection Services	Executed	\$7,715.47	04-26-22
84.1	Quality Milestone Data Pack Structure and Content	Executed	\$980,000.00	04-26-22
134	SR 46 BNSF Temporary Shoofly Access Road Redesign	Executed	\$43,412.00	04-25-22
TOTAL			\$22,036,307.12	

CP 4 – Risk Contingency

CP 4 – Risk Contingency Status (\$ Millions)

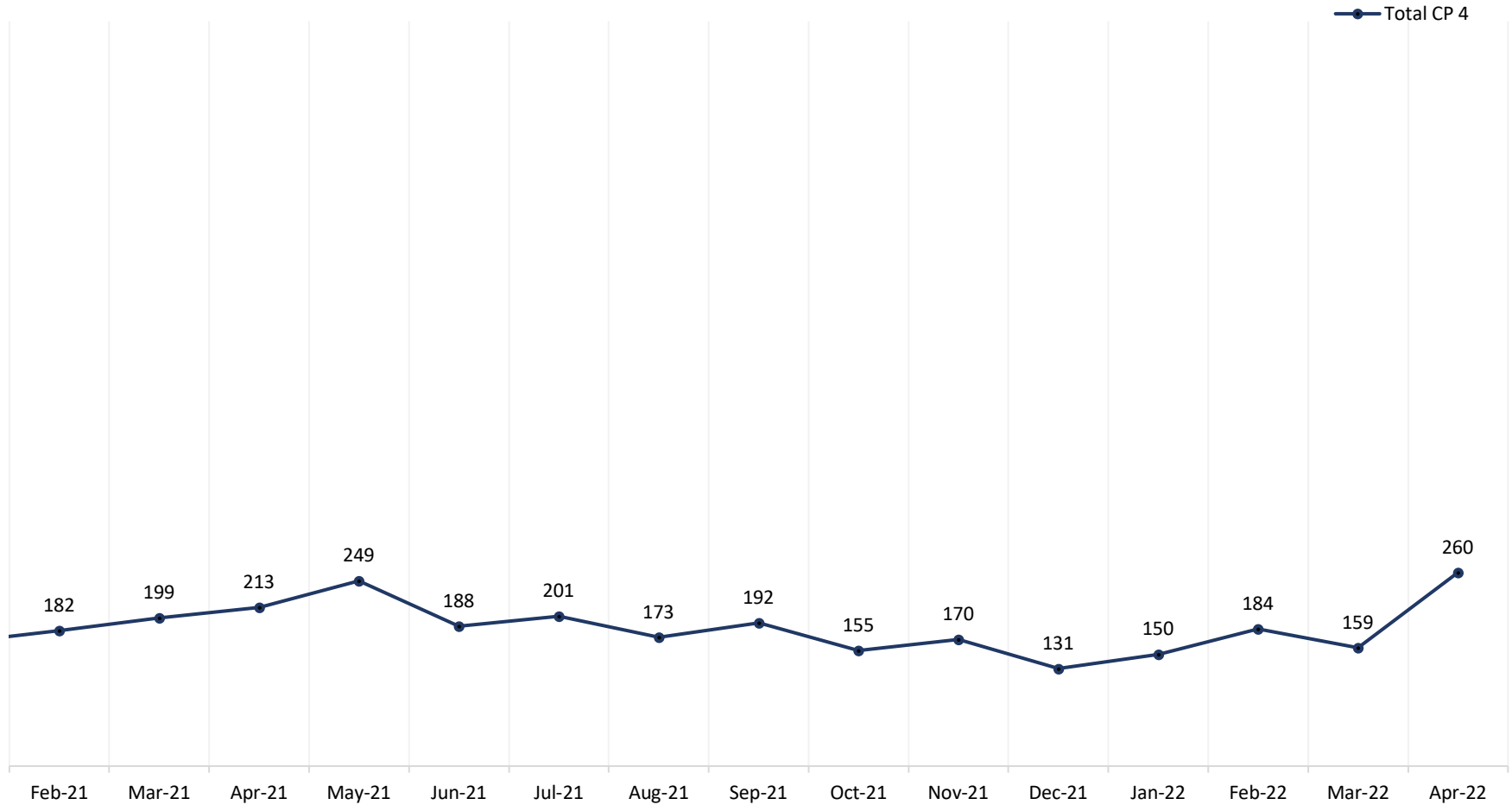


Notes:

1. Program baseline is \$418M.
2. Contingency balance updated to reflect the Board's adoption of Resolution #HSR21-11 (Expenditure Authorization Increase).
3. Contingency Amount Allocated reflects executed change orders and Business Oversight Committee (BOC) approved items.
4. The Forecasted Contingency Balance drawdown curve is based on the estimated change orders expected to be executed within the three-month window.

CP 4 – Monthly Construction Labor

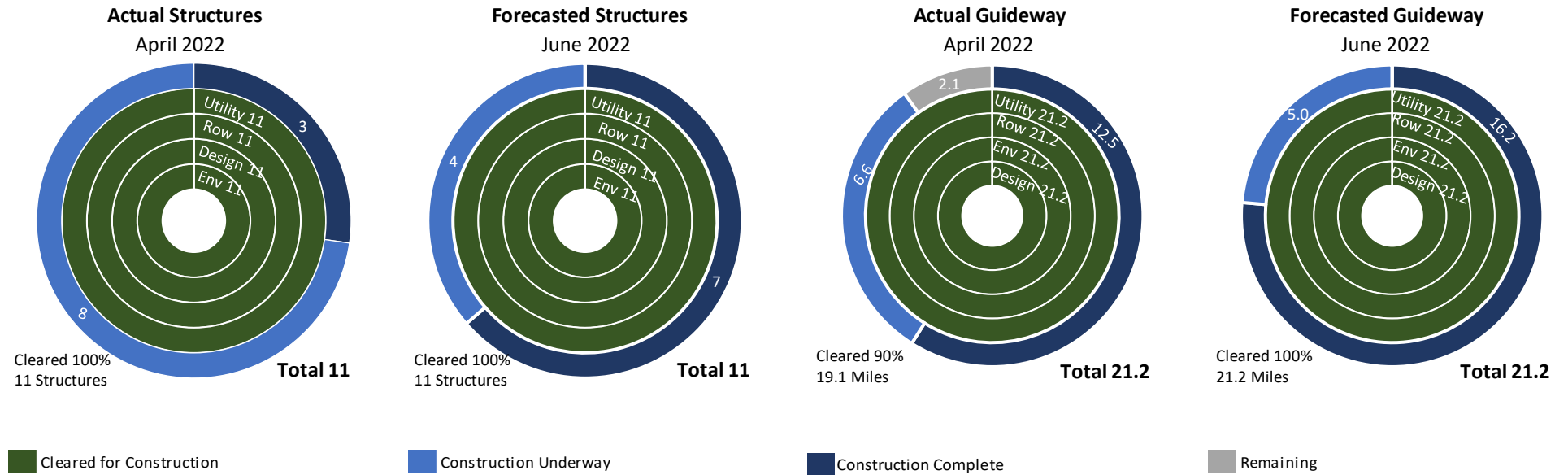
CP 4 – Monthly Construction Workforce Total – Actual (FTE)



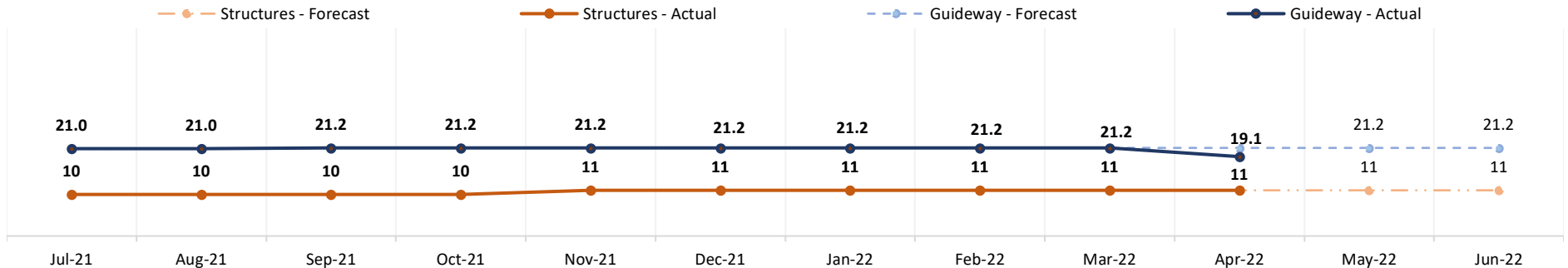
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 101 workers from the previous month (159).

CP 4 – Construction Progress

CP 4 – Construction Progress



CP 4 – Structures and Guideway Progress – Forecast vs. Actual



Notes:

1. The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 2 data pending RBS Revision 3 updates.
2. Construction Complete definition:
 - a. Structure Completion – all concrete work is complete.
 - b. Guideway Completion – earthworks complete with rough grading.
3. Total Structures: 11:
 - a. 11 structures underway/Construction complete.
4. Total Guideway: 21.2 miles.
 - a. 19.1 miles underway/Construction complete.
5. A discrepancy has been identified in the previous months reporting of the guideway progress. This has been corrected for the April 2022 Data report.

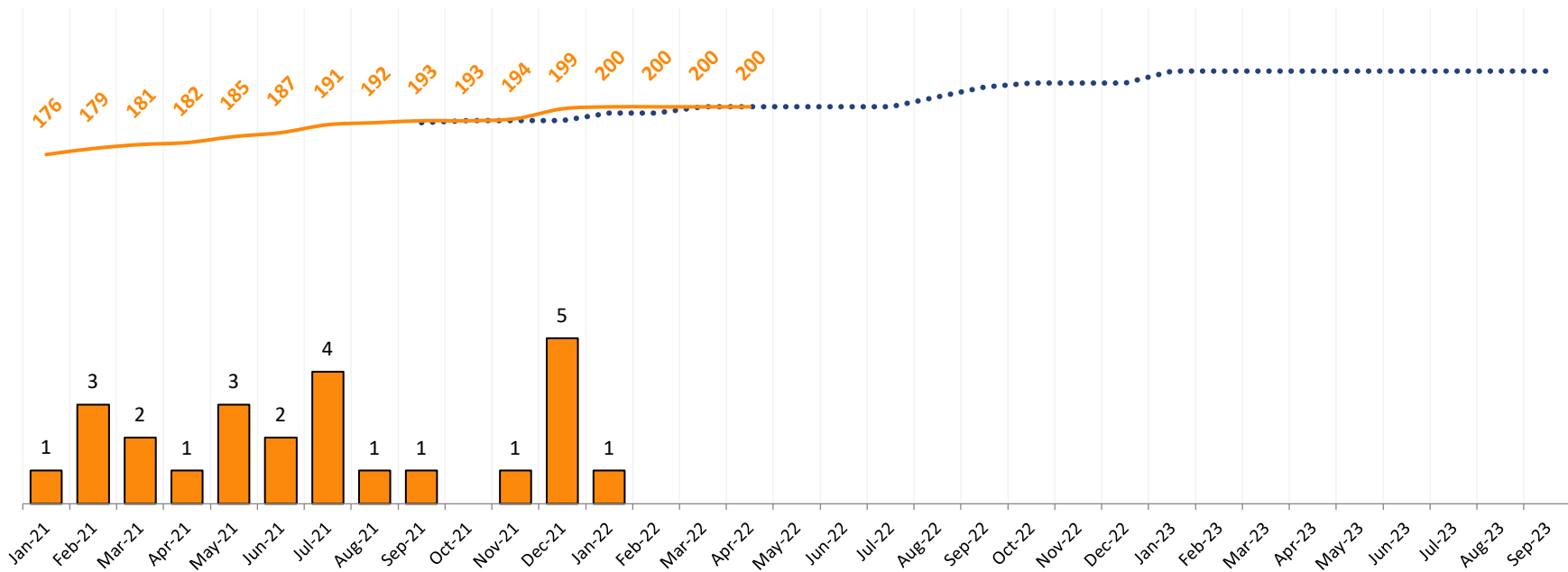
CP 4 – Real Property/Right-of-Way (ROW)

CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels April 30, 2022	Total Parcels Delivered to Date April 30, 2022	Remaining Parcels to be Delivered April 30, 2022
CP 4	239	200	39

CP 4 – Parcel Delivery to Design-Builder (DB) Summary

█ Actual Delivery to DB
 ●●●● Planned Cumulative
 — Actual Cumulative



Notes:

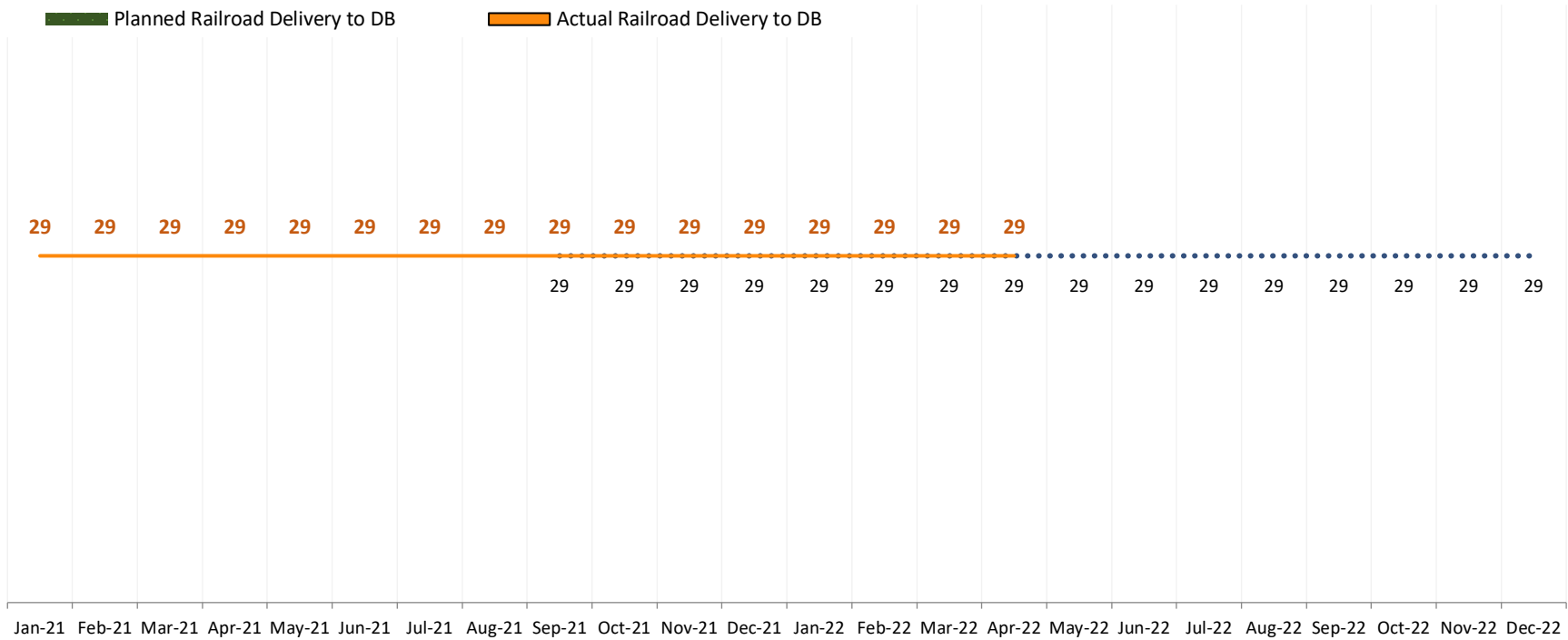
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

CP 4 – Real Property/Right-of-Way (ROW) Railroad

CP 4 – Right-of-Way (ROW) Railroad Summary

Construction Package	Total Needed Railroad Parcels April 30, 2022	Total Railroad Parcels Delivered to Date April 30, 2022	Remaining Railroad Parcels to be Delivered April 30, 2022
CP 4	29	29	0

CP 4 – Railroad Parcel Delivery to Design-Builder (DB) Summary

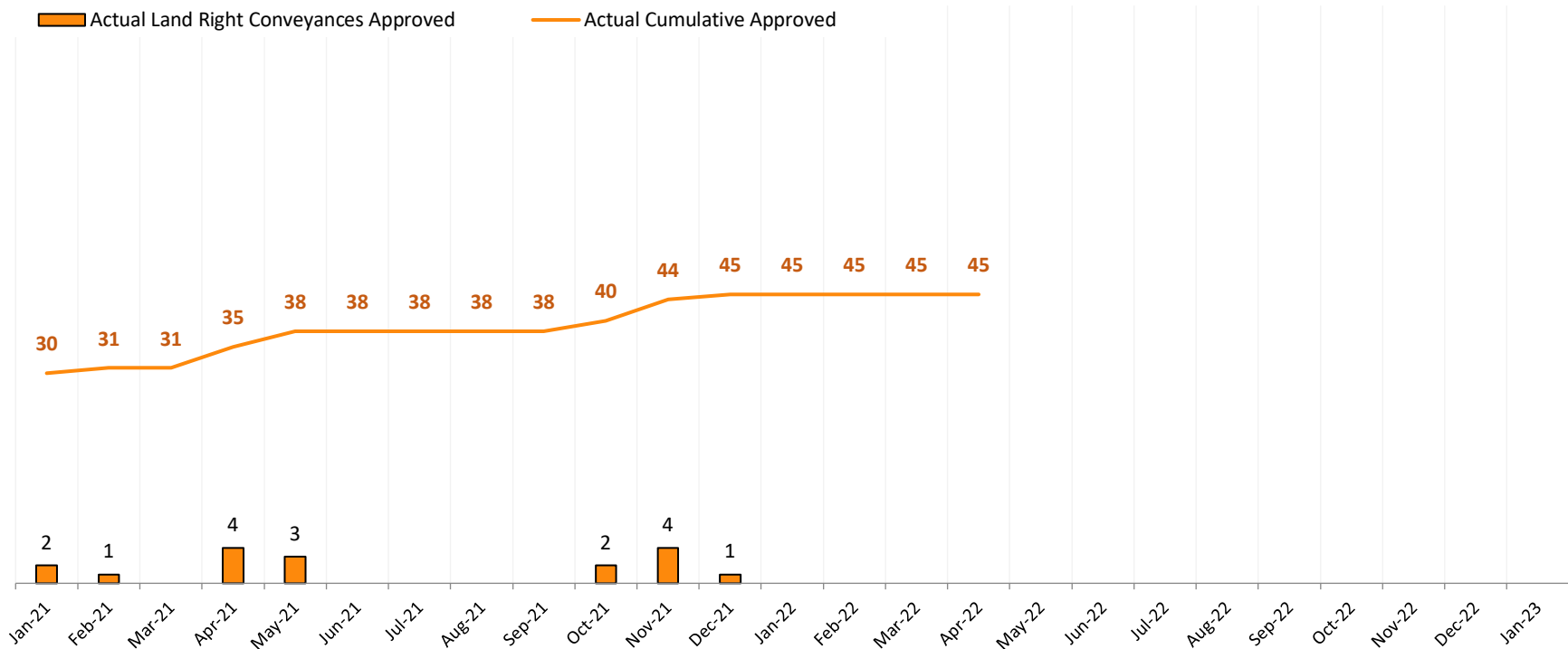


CP 4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

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

Construction Package	Total Needed Land Right Conveyances April 30, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date April 30, 2022	Remaining Land Right Conveyances to be Approved April 30, 2022
CP 4	88	45	43

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



Notes:

1. The Planned Cumulative line for Land Right Conveyances is being adjusted to reflect Revised Baseline Schedule (RBS) Revision 3 and will be reflected in a subsequent report.
2. The term "Approved" is defined as land right conveyances with Director of Real Property for signature, PG&E for signature, or recorded.

Project Development Schedule (Environmental Clearance) – Record of Decision (ROD)

Project Development Schedule (to ROD)

Number	Segment	Progress	Complete Purpose and Need Statement		Complete Alternatives Analysis		Board Concurrence of Preliminary Preferred Alt. Draft EIR/EIS		Publish Draft EIR/EIS		Publish Final EIS and 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
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%
Document Complete	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%
Document Complete	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%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
Document Complete	Bakersfield to Palmdale	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	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%	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%	Complete Complete 100%	Complete Complete 100%	Jul-22 Aug-22 85%	Jul-22 Aug-22 90%	Aug-22	Aug-22
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%	Complete Complete 100%	Complete Complete 100%	Jun-22 Apr-22 ³ 93%	Jun-22 Apr-22 ³ 99%	Apr-22 ³	Apr-22 ³
3	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%	May-23 May 23 76%	May-23 May-23 78%	Jun-24 Jun-24 0%	Jun-24 Jun-24 ¹ 0%	Jun-24	Jun-24
4	Palmdale to Burbank	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Mar-22 May-22 98%	May-22 Jun-22 99%	Jun-23 Jun-23 0%	Jun-23 Jul-23 ² 0%	Jul-23	Aug-23
5	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:

1. The Los Angeles to Anaheim project segment completion dates were extended in February 2022 due to additional discussions with various stakeholders such as BNSF, the City of Colton, and the Lenwood community.
2. In February 2022 the release of the Draft EIR/EIS for Palmdale to Burbank was extended to May 2022 due to additional time needed to prepare the document for release.
3. The High-Speed Rail Authority Board of Directors approved the San Jose to Merced Final EIR/EIS on April 28, 2022.

Project Development – Key Actions

Project Development – Key Actions Summary

Project Section	Key Actions
San Francisco to San Jose	<p>Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) Page Turn review completed on April 19 and the document was frozen on April 20, 2022. Planning for publication on June 10, 2022.</p> <p>Draft General Conformity Determination (GCD) was remediated and submitted to Federal Railroad Administration (FRA) for on April 19, 2022.</p> <p>Section 106 Memorandum of Agreement and associated treatment plans were sent for 30-day review by consulting parties on April 4, 2022.</p> <p>US Fish and Wildlife Service Biological Opinion received on April 22, 2022.</p>
San Jose to Merced	<p>California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) approval documents completed final reviews on April 12, 2022 and were presented at the Authority April Board meeting on April 27 and 28, 2022.</p> <p>The High-Speed Rail Authority Board of Directors certified the San Jose to Merced Final EIR/EIS and directed the CEO to sign the Record of Decision at the Board meeting on April 28, 2022.</p>
Central Valley Wye	<p>Permitting for the Central Valley Wye will progress following Board action on the Merced and Bakersfield extensions.</p> <p>Conducted monthly progress meeting with County of Madera on Fairmead mitigation projects.</p>
Locally Generated Alternative	<p>Permitting for the Locally Generated Alternative will progress following Board action on the Merced and Bakersfield extensions.</p>
Bakersfield to Palmdale	<p>Work through Notice of Determination/Record of Decision (NOD/ROD) has been completed. However, the Authority, Rail Delivery Partner (RDP), and Regional Consultants (RC) have continued to meet with key stakeholders (e.g., Center for Biological Diversity), as necessary.</p>
Palmdale to Burbank	<p>Continued to work through Step 7 Required Approval Sequence. However, a schedule delay was incurred in February 2022 due to Authority decision to review the EIR/EIS cost estimates before release of the Draft EIR/EIS. The Draft EIR/EIS is scheduled to be released in May 2022.</p> <p>Options for changing the release date based on the ongoing cost estimate review will be discussed with Executive Management in May 2022.</p>
Burbank to Los Angeles	<p>The Authority's Chief Executive Officer (CEO) signed the Record of Decision on March 7, 2022. Work through NOD/ROD has been completed.</p>
Los Angeles to Anaheim	<p>Continued integrating additional revised environmental deliverables from Burlington Northern Santa Fe Corporation (BNSF) pertaining to the Colton and Lenwood project components into the assembled Administrative Draft EIR/EIS.</p> <p>Continued draft Preliminary Engineering for Project Definition (PEPD) reviews with external stakeholders.</p>