



Finance & Audit Committee

CENTRAL VALLEY STATUS REPORT

September 2022 Report (data through July 2022)

Executive Summary

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

- July 2022 Expenditures totaled \$47.8M:
 - Construction Package 1 – Expenditures totaled \$13.3M.
 - Construction Package 2-3 – Expenditures totaled \$27.0M.
 - Construction Package 4 – Expenditures totaled \$7.5M.
- Total CP Cumulative Actual Expenditures (Pages 13, 22, and 31) – \$4,057.4M.
- Total Cumulative Current Contract Amount (Pages 13, 22, and 31) – \$5,937.3M.

Change Orders

- Executed Change Orders this period – Eight for a total of \$9.1M:
 - Construction Package 1 (Page 15) – One for a total of \$5.85M.
 - Construction Package 2-3 (Page 24) – Three for a total of \$2.85M.
 - Construction Package 4 (Page 35) – Four for a total of \$0.43M.

Risk Contingency ([Page 6](#))

- Approved Contingency – \$4,000.7M budgeted contract contingency. Contingency balance is \$1,024.5M as of July 31, 2022.
 - Construction Package 1 (Page 16) – \$1,944.5M budgeted contract contingency. Contingency balance is \$462.3M as of July 31, 2022.
 - Construction Package 2-3 (Page 25) – \$1,638.4M budgeted contract contingency. Contingency balance is \$447.5M as of July 31, 2022.
 - Construction Package 4 (Page 36) – \$417.8M budgeted contract contingency. Contingency balance is \$114.7M as of July 31, 2022.

CP Design (Structures/Guideway)

- CP major design - Ready for Construction (RFC). Milestone of 100% of the required 163 RFC design approvals agreed with the Authority in June 2022 for Construction.
 - Construction Package 1 – 40 of 40 total design packages approved by the Authority for construction.
 - Construction Package 2-3 – 109 of 109 total design packages approved by the Authority for construction.
 - Construction Package 4 – 14 of 14 total design packages approved by the Authority for construction.

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

- July 2022, Average Daily Site Workers (by Week) – 1,113 workers. A decrease of six workers from the previous period (from 1,119):
 - Construction Package 1 (Page 17) – 237 workers. A decrease of 18 workers from the previous month (255).
 - Construction Package 2-3 (Page 26) – 618 workers. An increase of 27 workers from the previous month (591).
 - Construction Package 4 (Page 37) – 258 workers. A decrease of 15 workers from the previous month (273).
- Daily Average Contracted CP Employees Quarantined for COVID-19 in July 2022 – 18. An increase of 12 from the daily average of six in June 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 (72%) total. No change 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 (73%) 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 – 22 miles underway/Construction complete.

Utility Relocations Status (Page 9)

- Relocated: 870 (47%); In Progress: 370 (20%); Approved to Start: 62 (3%); Not Started: 561 (30%); Total: 1,863. Eight relocated in July 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: 367 (37%); In Progress: 344 (35%); Approved to Start: 0 (0%); Not Started: 281 (28%); Total: 992.
 - Construction Package 2-3 – Relocated: 412(58%); In Progress: 21 (3%); Approved to Start: 25 (4%); Not Started: 247 (35%); Total: 705.
 - Construction Package 4 – Relocated: 91 (55%); In Progress: 5 (3%); Approved to Start: 37 (22%); Not Started: 33 (20%); Total: 166.

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

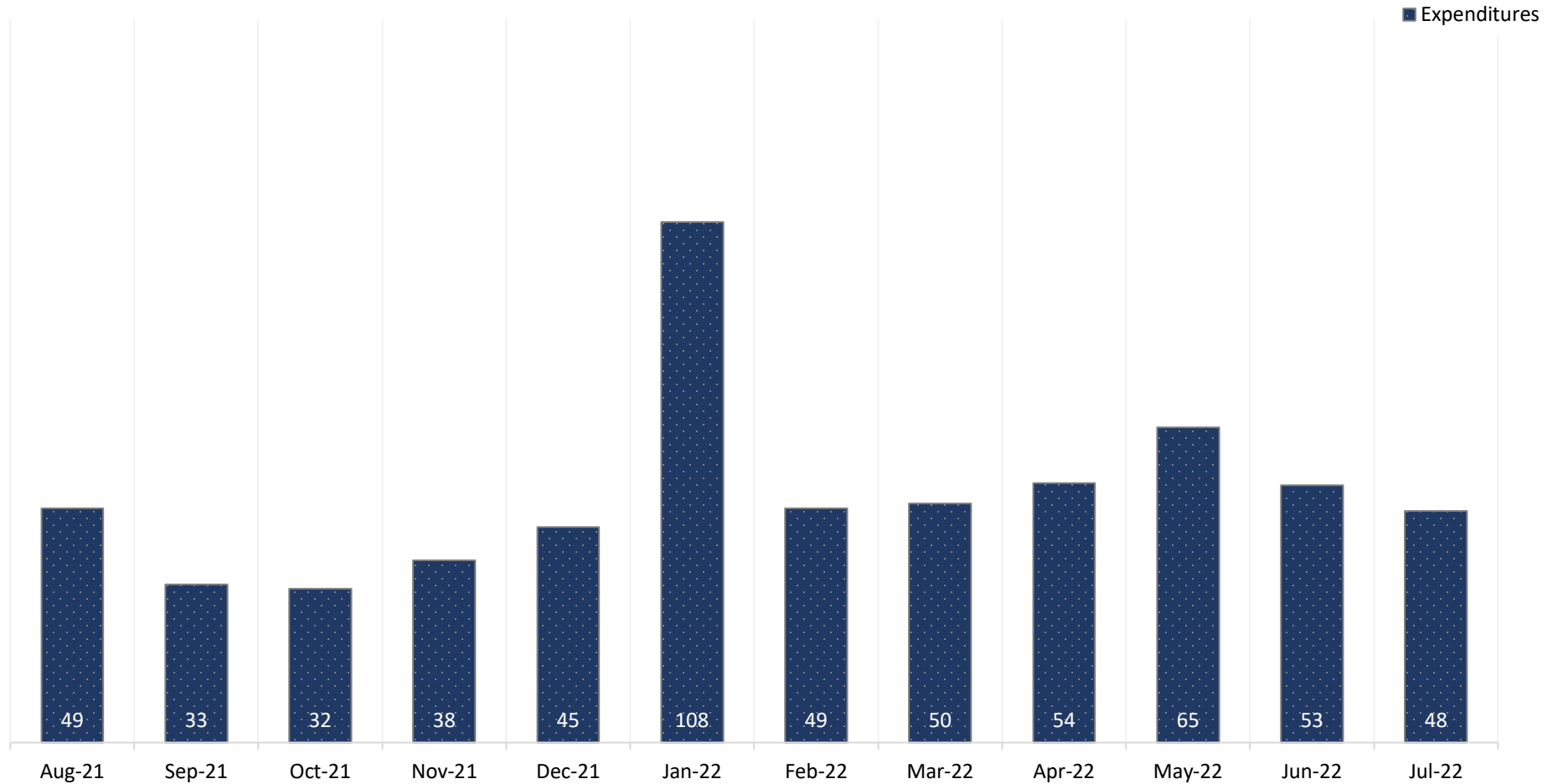
- Total Parcels Delivered to Date – 2,115 parcels compared to an estimated 2,309 parcels needed.
- Parcels Delivered to Design-Builder (DB) – Three parcels in July 2022.
- Construction Packages 1-4 – Zero parcels added. The Authority continues to receive requests for additional parcels primarily related 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 – 13 parcels.
- Total Railroad Parcels Delivered to Date – 136 parcels delivered compared to an estimated 168 total railroad parcels needed.
- Land Right Conveyances (Tier 1, Prior to Construction):
 - Four land right conveyance approved.
 - To date, the Authority received approval on 669 land right conveyances.

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

- San Francisco to San Jose – The NEPA waiting period for the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) ended July 11, 2022. The FRA published the final General Conformity Determination on July 22, 2022 and noticed in the Federal Register on July 28, 2022. Preparing for the presentation of the San Francisco to San Jose (F-J) Final EIR/EIS at the August Board meeting. **Update:** The HSR Authority Board approved the San Francisco to San Jose (FJ) Final EIR/EIS at the 17th-18th August 2022 Board Meeting.
- San Jose to Merced – Final ROD was signed by the Authority’s Chief Executive Officer (CEO) on June 1, 2022. Staff continues to assemble the Administrative Record.
- 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 – Production and noticing activities are underway in advance of the scheduled release date for the Draft EIR/EIS on September 2, 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)

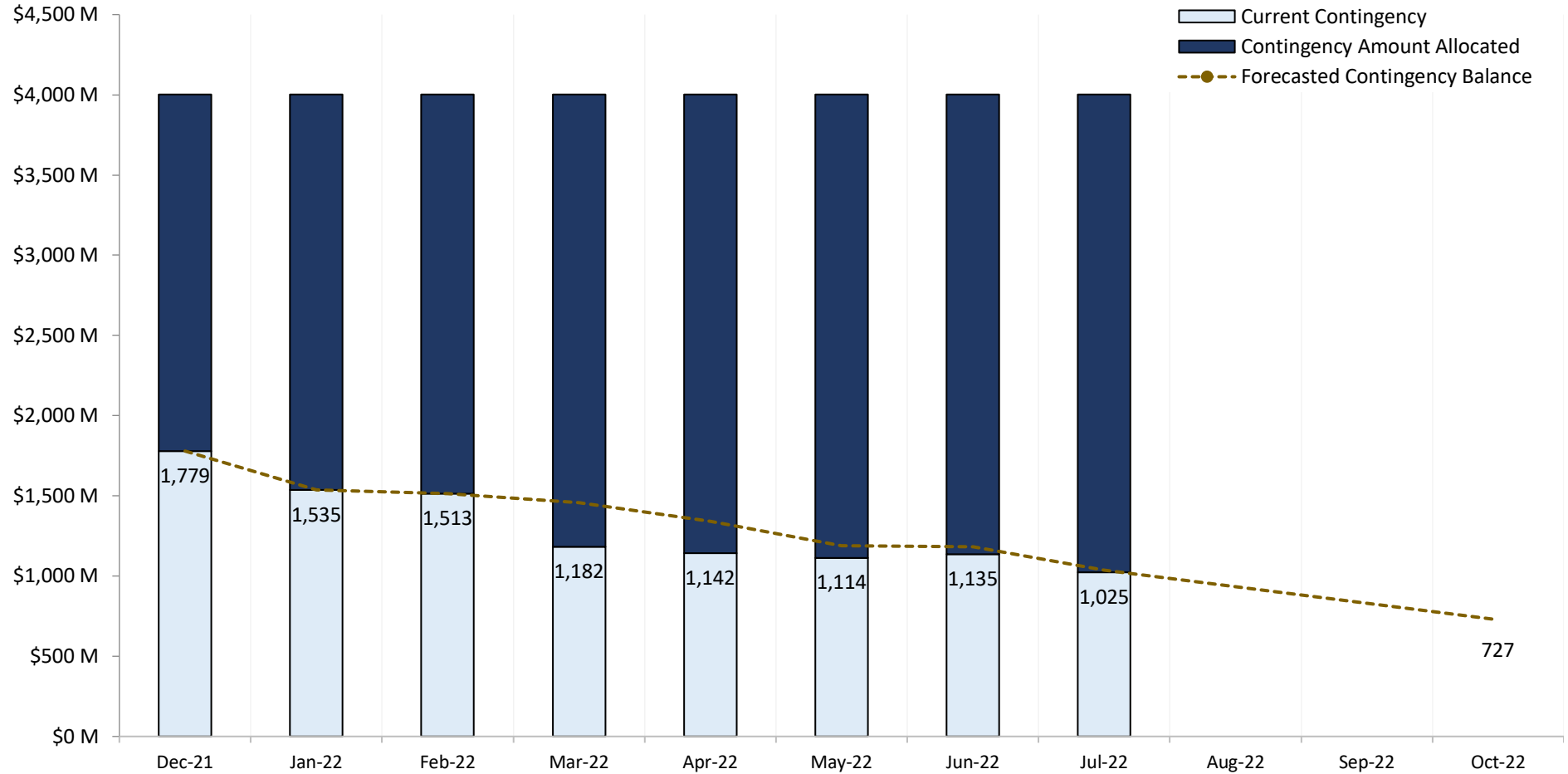


Notes:

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. July 2022 Expenditures totaled \$47.8M:
 - a. Construction Package 1 – Expenditures totaled \$13.3M.
 - b. Construction Package 2-3 – Expenditures totaled \$27.0M.
 - c. Construction Package 4 – Expenditures totaled \$7.5M.

CP 1-4 – Risk Contingency

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

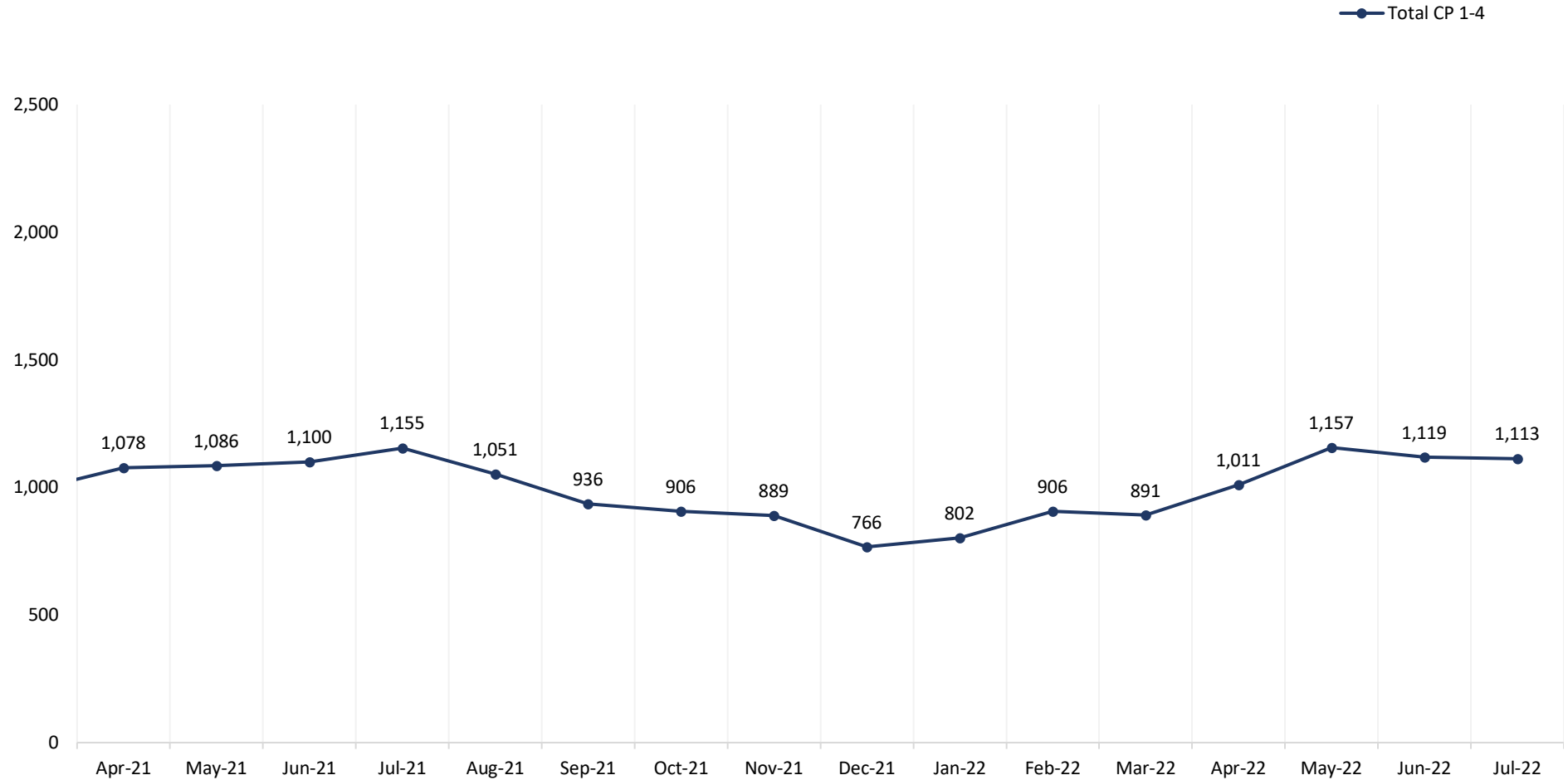


Notes:

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 only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations, and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.

CP 1-4 – Construction Labor

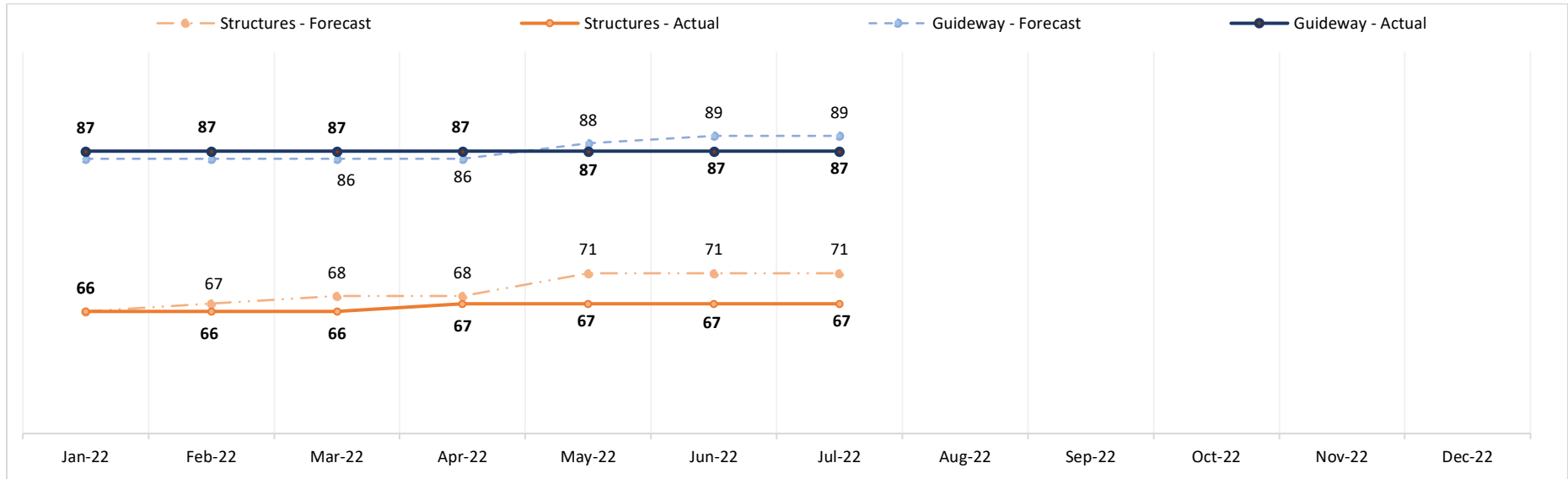
CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- 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. July 2022, Average Daily Site Workers (by week) – 1,113 workers. A decrease of six workers from the previous period (from 1,119):
 - a. Construction Package 1 (Page 17) – 237 workers. A decrease of 18 workers from the previous month (255).
 - b. Construction Package 2-3 (Page 26) – 618 workers. An increase of 27 workers from the previous month (591).
 - c. Construction Package 4 (Page 37) – 258 workers. A decrease of 15 workers from the previous month (273).

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	16	14	8	3	36	31	67
Guideway	15	2	15	33	8.6	13.4	38.6	48.4	87

Notes:

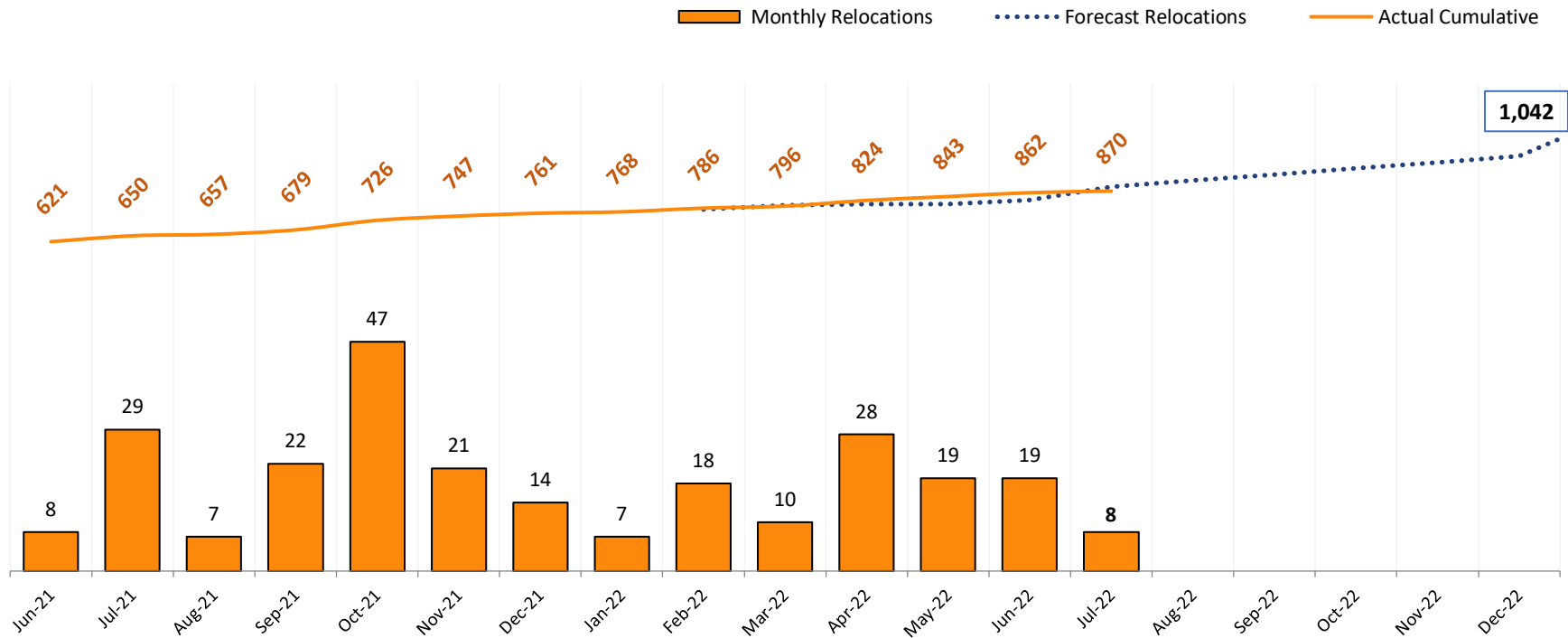
- The chart above incorporates provisional forecast numbers pending submission and approval of Revised Baseline Schedules (RBS) Revision 3.
- Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
- Total Structures: 93
- Structures – 67 underway/Construction complete compared to 93 structures total. (72%) No change from the previous period.
 - CP 1 – 26 structures underway/Construction complete. Structures behind, Central Avenue (PG&E/Malaga Water District), estimated start January 2023 and Avenue 17 (PG&E/County of Madera) estimated start November 2022.
 - CP 2-3 – 30 structures underway/Construction complete. Grangeville delay is due to utility relocation of SCE transmission line, scheduled to start October 2022. Alpaugh Allensworth Atwell Trails (AAAT) awaiting the environmental Incidental Take Permit (ITP) to be issued. **Update:** Incidental Take Permit received and AAAT is scheduled to start work by early October 2022.
 - CP 4 – 11 structures underway/Construction complete.
- Total Guideway: approximately 119 miles
- Guideway – 87 miles underway/Construction complete compared to 119 miles total. (73%) No change from the previous period.
 - CP 1 – 17 miles underway/Construction complete. One mile behind the forecast. Jensen Trench is awaiting multiple utility relocations.
 - CP 2-3 – 48 miles underway/Construction complete. The one mile behind south of Dutch John, designs completed in June 2022, scheduled to start December 2022.
 - CP 4 – 22 miles underway/Construction complete. The actual miles for CP 4 are 21.5 miles but rounded to 22 miles for consistency in reporting.

CP 1-4 – Utility Relocations

CP 1-4 – Utility Relocation Summary

Construction Package	Total Relocations July 31, 2022	Total Utilities Relocated to Date July 31, 2022	Remaining Utility Relocations July 31, 2022
CP 1	992	367	625
CP 2-3	705	412	293
CP 4	166	91	75
Total	1,863	870	993

CP 1-4 – Utility Relocation Status Summary-Monthly



Notes:

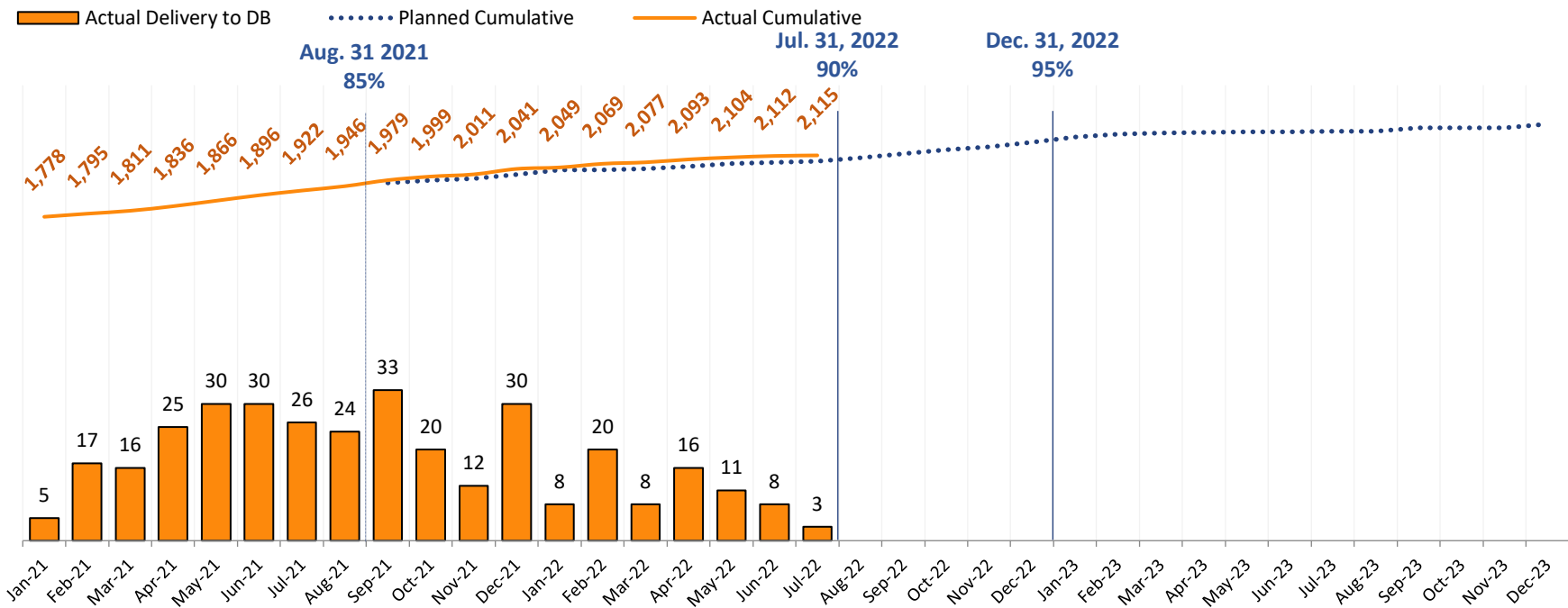
1. In Progress 370 (20%).
2. Approved to start 62 (3%).
3. Not Started 561 (30%).

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

CP 1-4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2022	Total Parcels Delivered to Date July 31, 2022	Remaining Parcels to be Delivered July 31, 2022
CP 1	1,079	1,007	72
CP 2-3	990	908	82
CP 4	240	200	40
Total	2,309	2,115	194

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



Notes:

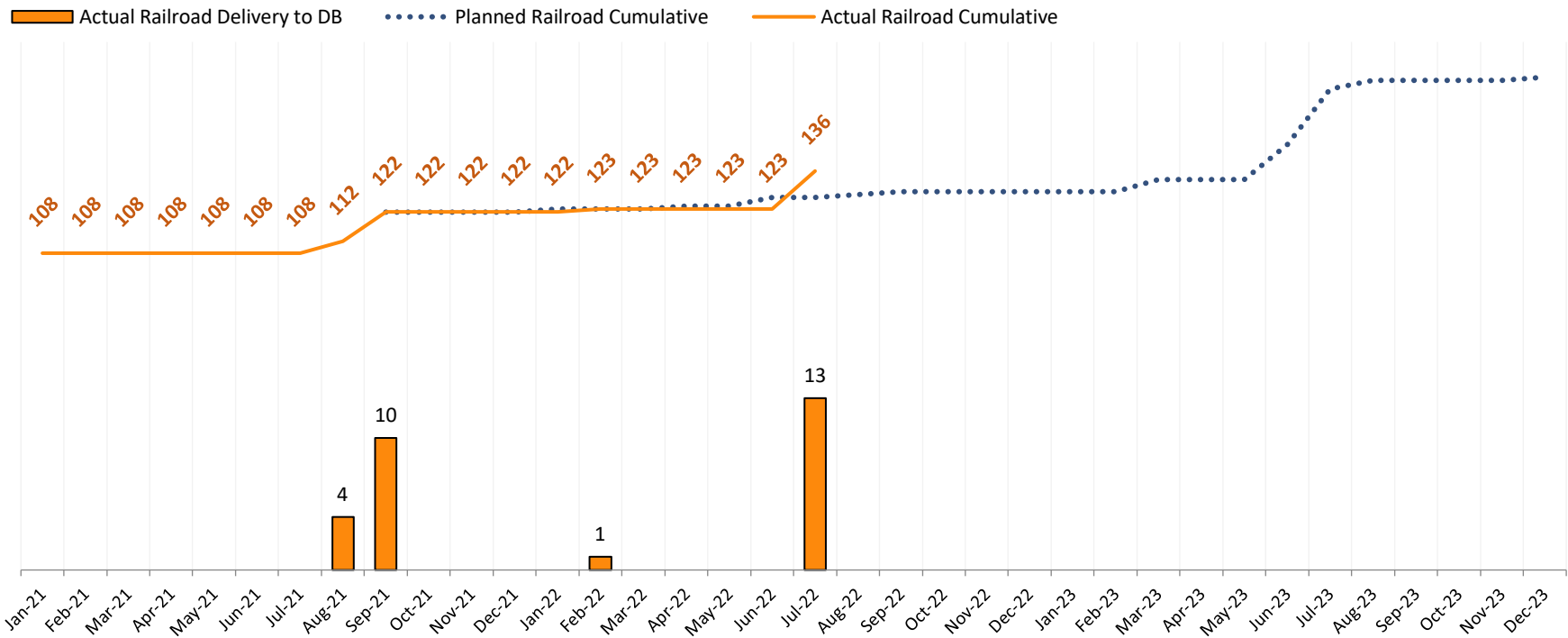
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4. The 90% and 95% milestone completion does not include any additional parcels that may be added.
2. Delivery to Design Builder 90% milestone completion was achieved for CP1-4 in March 2022.

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 July 31, 2022	Total Railroad Parcels Delivered to Date July 31, 2022	Remaining Railroad Parcels to be Delivered July 31, 2022
CP 1	83	57	26
CP 2-3	56	50	6
CP 4	29	29	0
Total	168	136	32

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



Notes:

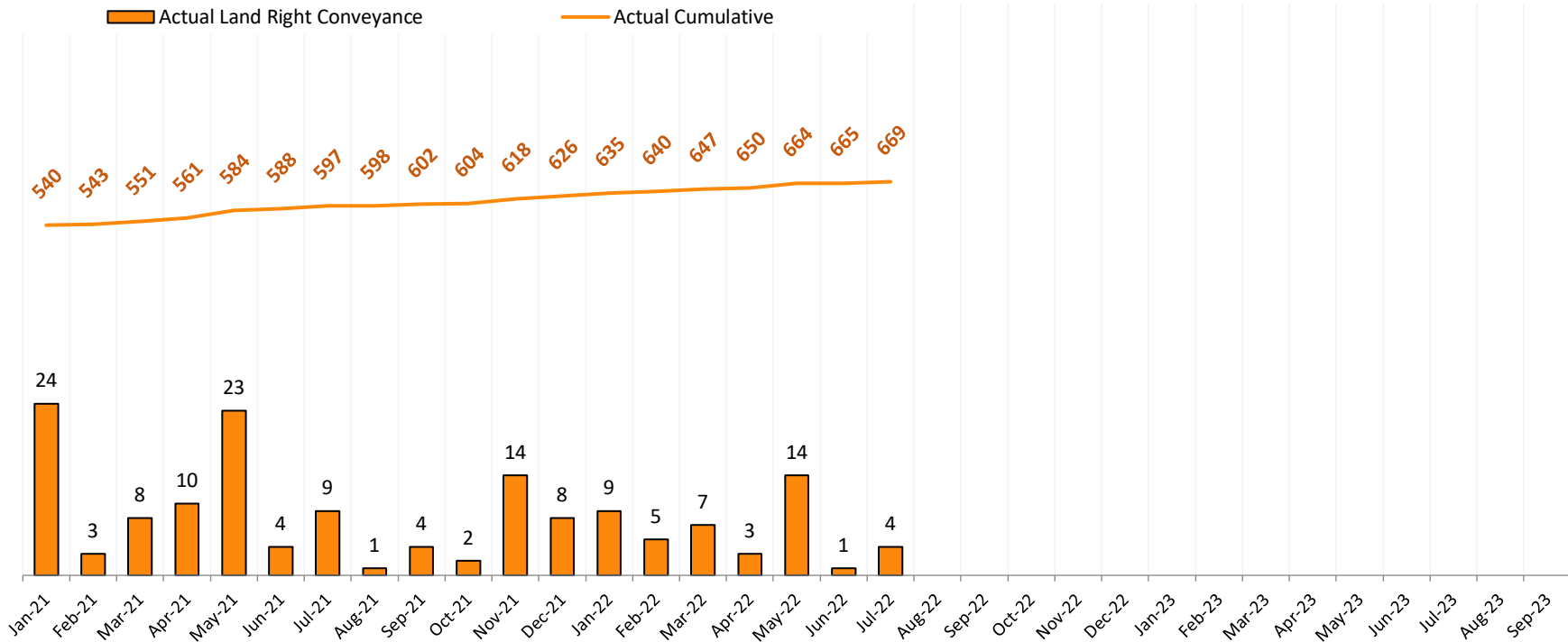
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Two Railroad parcel delivery dates are being reforecast, not impacting the critical path.

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 July 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ July 31, 2022	Remaining Land Right Conveyances to be Approved July 31, 2022
CP 1	393	344	49
CP 2-3	433	278	155
CP 4	88	47	41
Total	914	669	245

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.

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:	\$1,778,261,822.24
Current Contract Amount:	\$2,801,249,822.24
Approved Invoices to Date:	\$1,833,188,440.98
Remaining Contract Balance:	\$968,061,381.26

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 07/31/2022):	3,211

Expended to Date

Description	Percentage
Time:	86.2%
Dollars:	65.4%

Growth Percentage

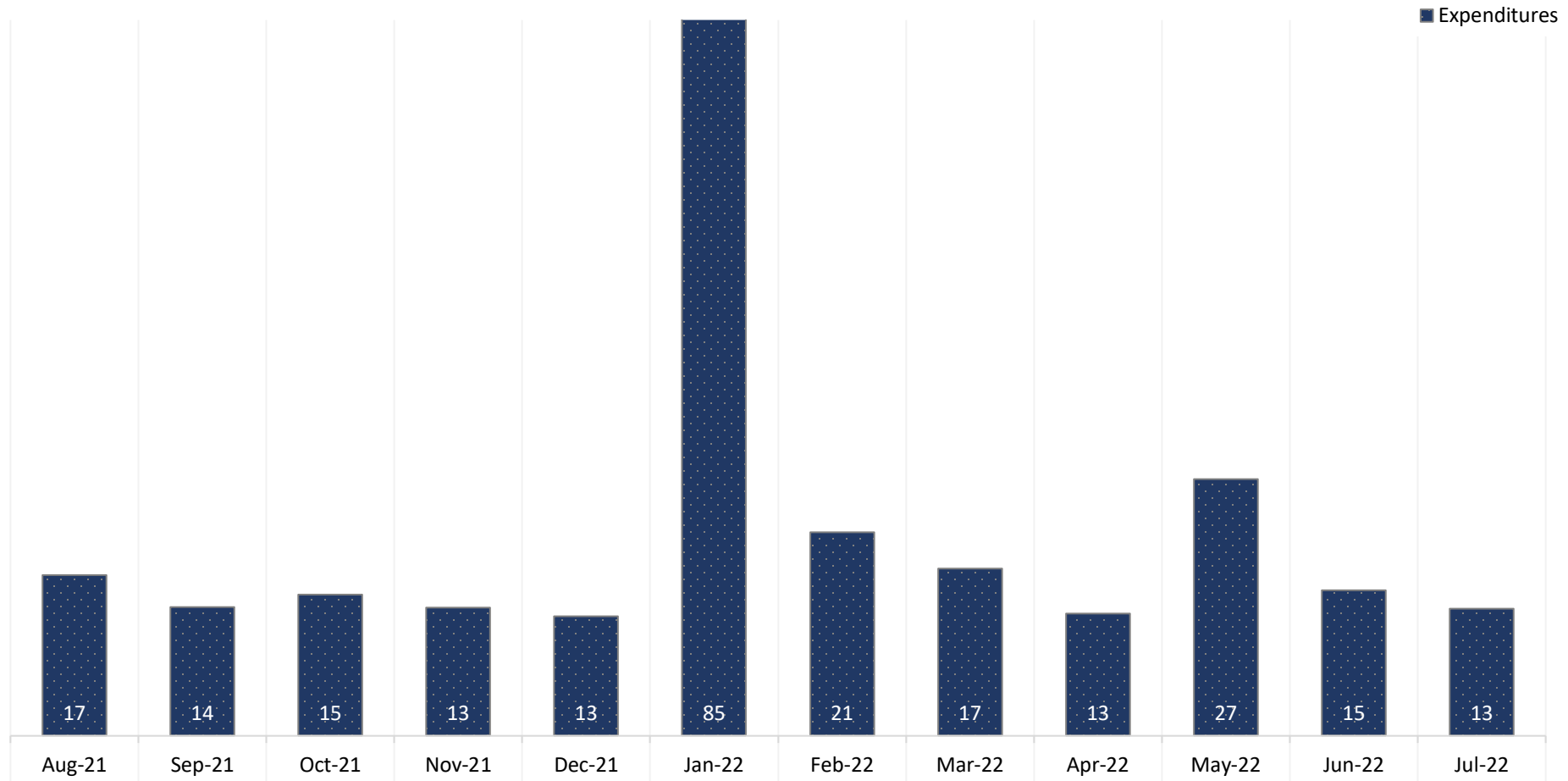
Description	Percentage
Time:	128.9%
Dollars:	173.8%

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 \$13.3M.

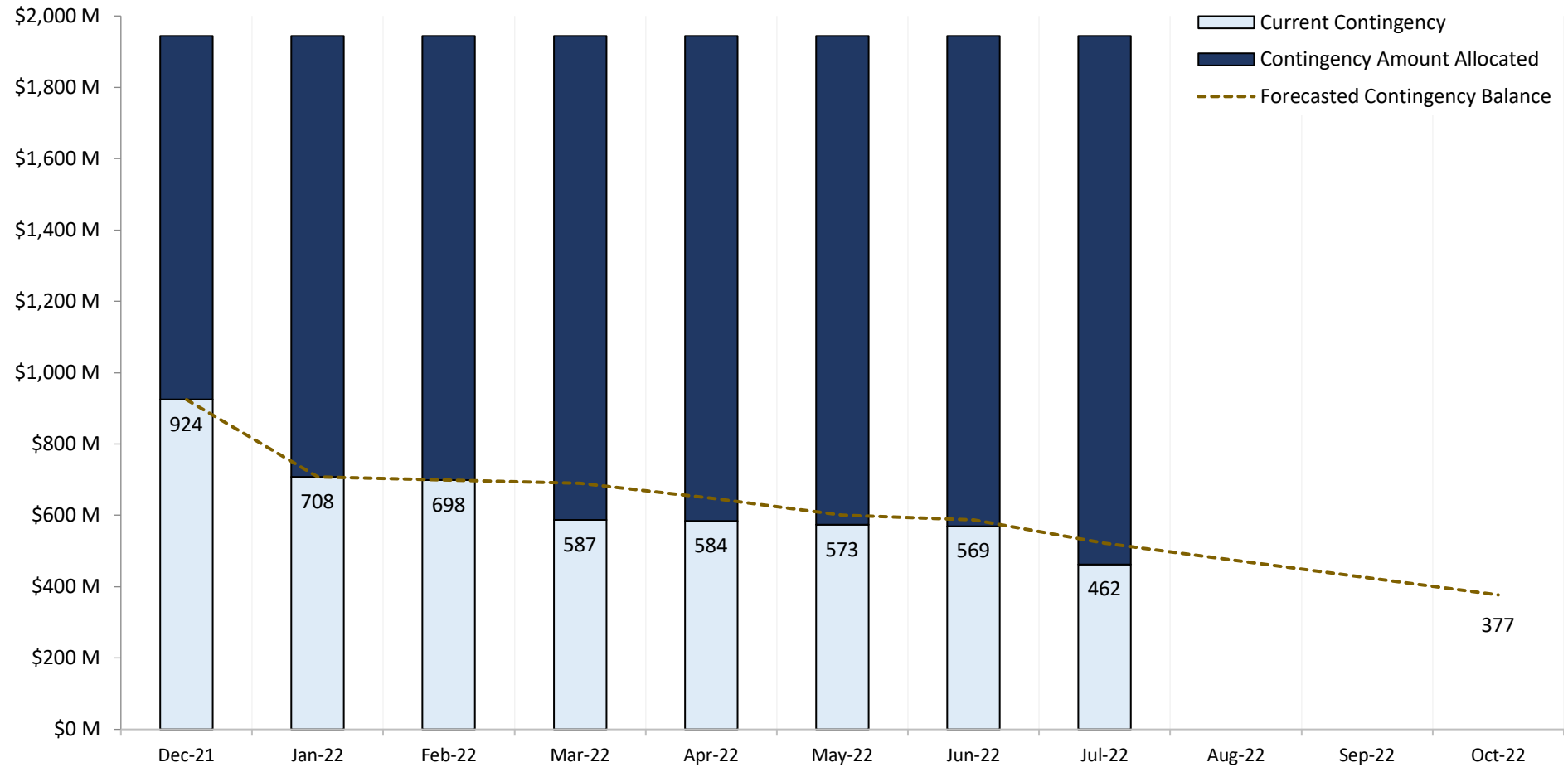
CP 1 – Change Orders (CO)

CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00329.01	Increase the Amount of the Construction Contract Work Provisional Sum	Executed	\$5,850,000.00	07-01-22
TOTAL			\$5,850,000.00	

CP 1 – Risk Contingency

CP 1 – Risk Contingency Status (\$ Millions)

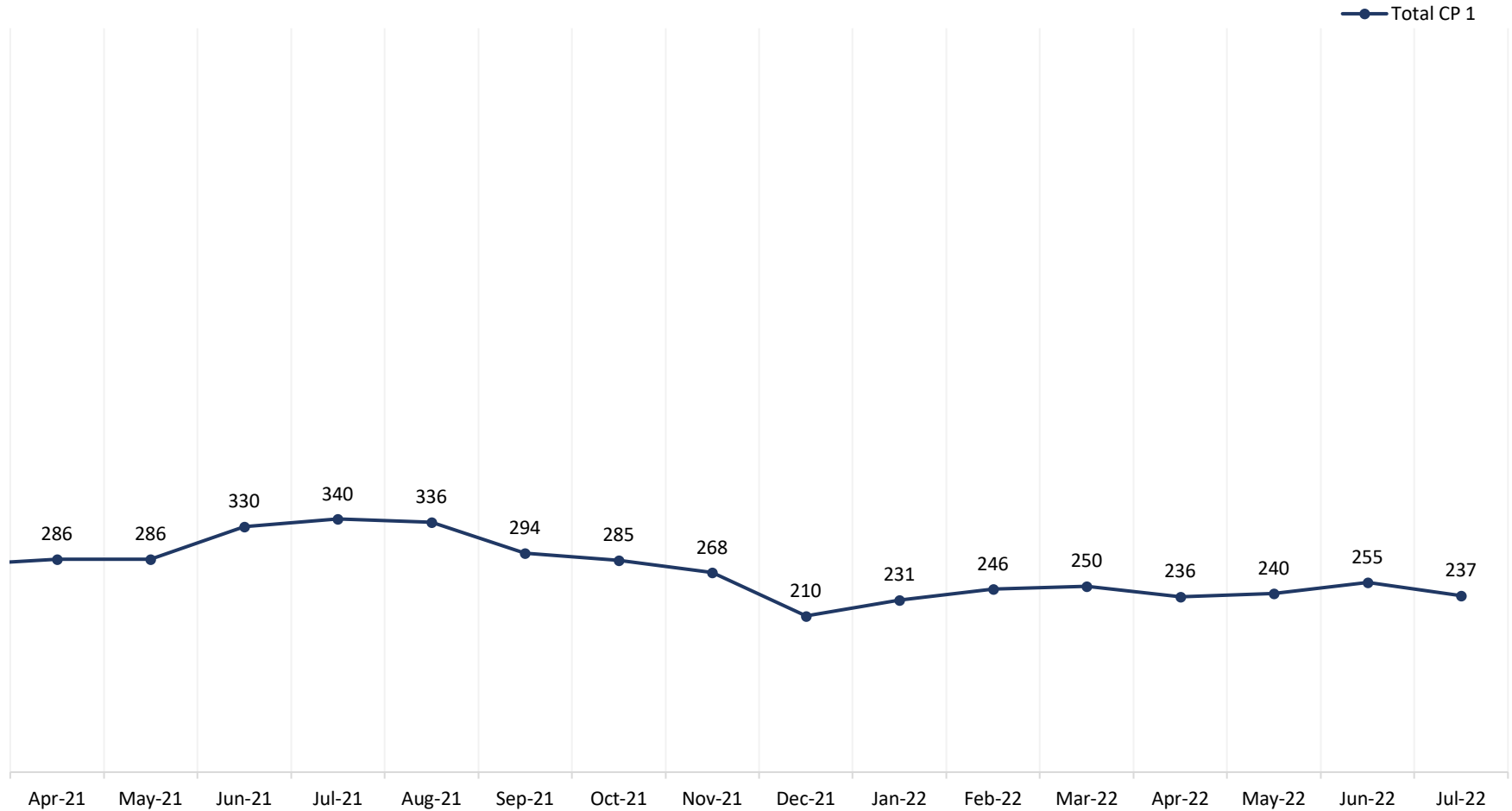


Notes:

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 only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations, and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.

CP 1 – Monthly Construction Labor

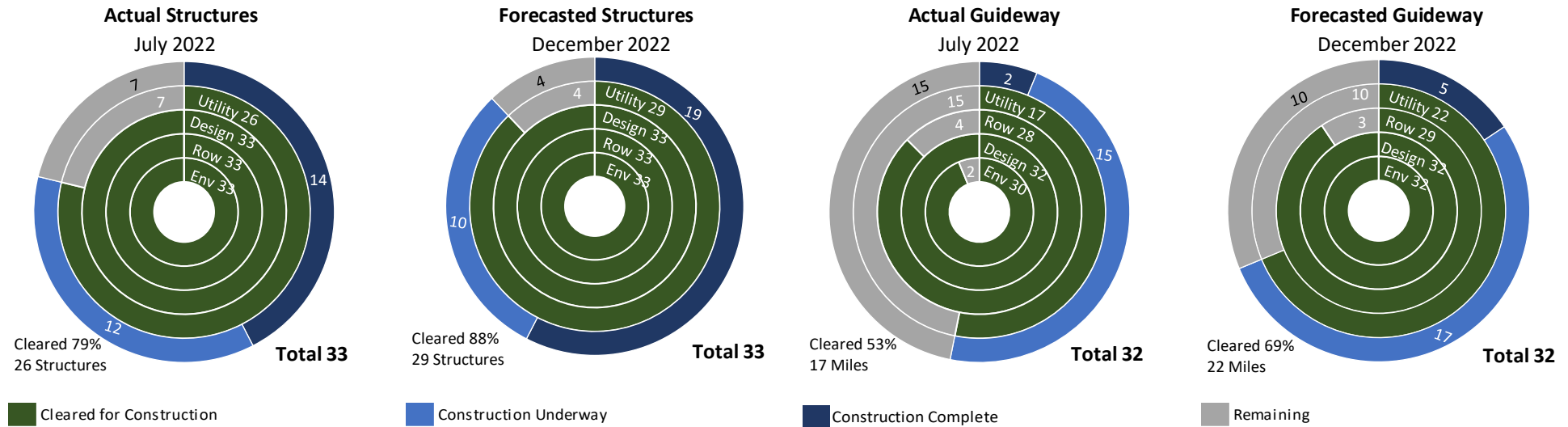
CP 1 – Monthly Construction Workforce Total – Actual (FTE)



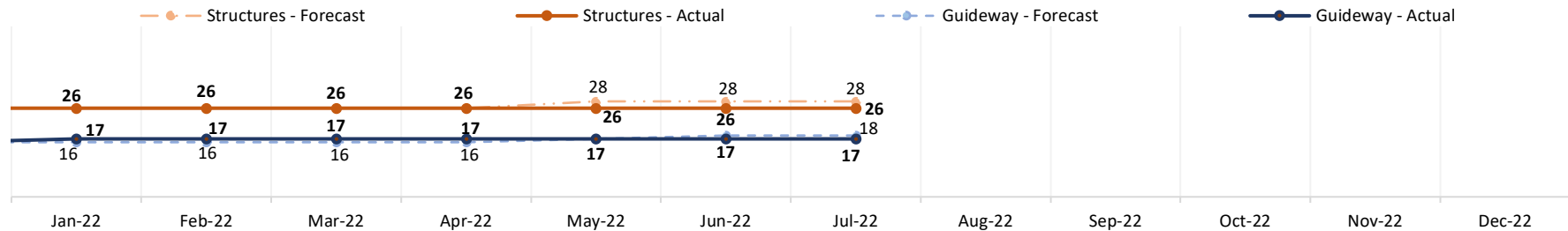
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. A decrease of 18 workers from the previous month (255).

CP 1 – Construction Progress

CP 1 – Construction Progress



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



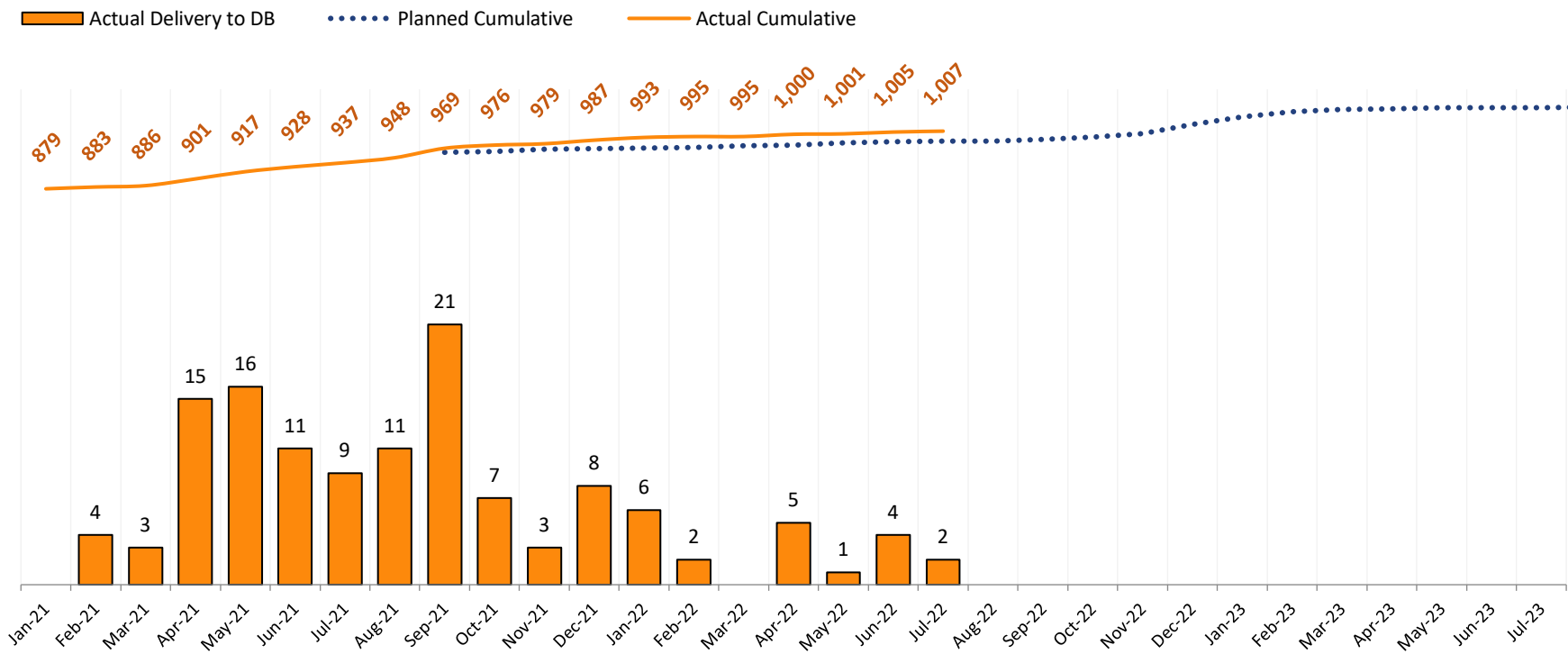
- Notes:**
- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 3 data pending approval.
 - The line chart above incorporates provisional forecast numbers pending submission and approval of RBS Revision 3.
 - Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
 - Total Structures: 33:
 - 26 structures underway/construction complete. Structures behind at Central Avenue (PG&E/Malaga Water District) and Avenue 17 (PG&E/County of Madera). Latest forecasts indicate Central starting January 2023 and Avenue 17 starting November 2022, if we can avoid the railroad moratorium.
 - Total Guideway: 32 miles:
 - 17 miles underway/Construction complete. One mile behind the forecast. Jensen Trench is awaiting multiple utility relocations and that portion of the guideway will not be complete before 2024. Plan is to catch up to projections across other guideway activities.
 - The 40 design submissions included 33 Structure packages, 6 packages covering the 32 miles of guideway and one for Sweeper Package designs for viaducts and trenches at various locations (hence term "Sweeper") to include stairways, walkways, duct trenches and various other advance Track and Systems requirements. 33 Structure packages approved by the Authority, but only 30 approved by third parties. There are 32 miles of guideway approved by the Authority, but 2.5 miles (Caltrans section) has not been approved by Union Pacific Rail Road.

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

CP 1 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2022	Total Parcels Delivered to Date July 31, 2022	Remaining Parcels to be Delivered July 31, 2022
CP 1	1,079	1,007	72

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



Notes:

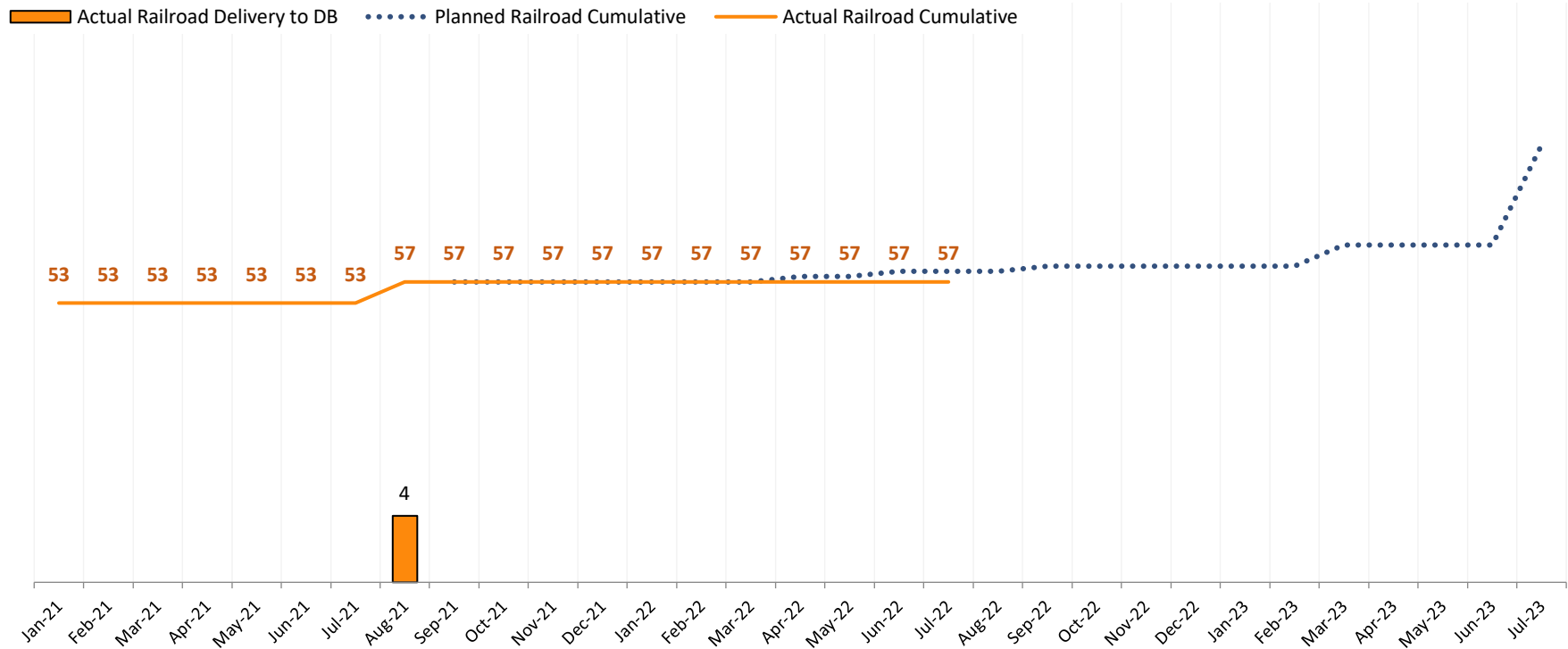
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedules (RBS) Revision 3.

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

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

Construction Package	Total Needed Railroad Parcels July 31, 2022	Total Railroad Parcels Delivered to Date July 31, 2022	Remaining Railroad Parcels to be Delivered July 31, 2022
CP 1	83	57	26

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



Note:

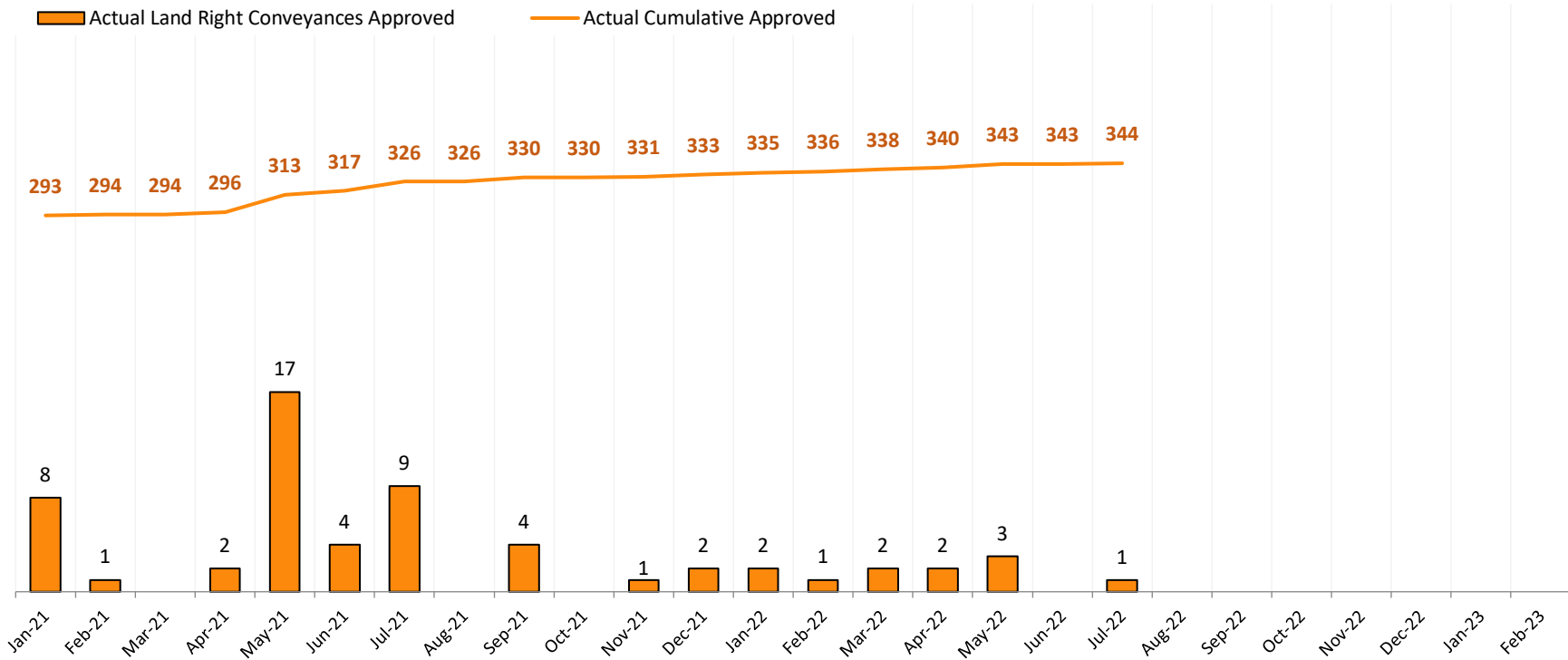
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Two Railroad parcel delivery dates are being reforecast, not impacting the critical path.

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 July 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date July 31, 2022	Remaining Land Right Conveyances to be Approved July 31, 2022
CP 1	393	344	49

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:	\$1,063,483,502.42
Current Contract Amount:	\$2,428,819,392.42
Approved Invoices to Date:	\$1,646,985,967.69
Remaining Contract Balance:	\$781,833,424.73

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 07/31/2022):	2,563

Expended to Date Percentage

Description	Percentage
Time:	83.2%
Dollars:	67.8%

Growth Percentage

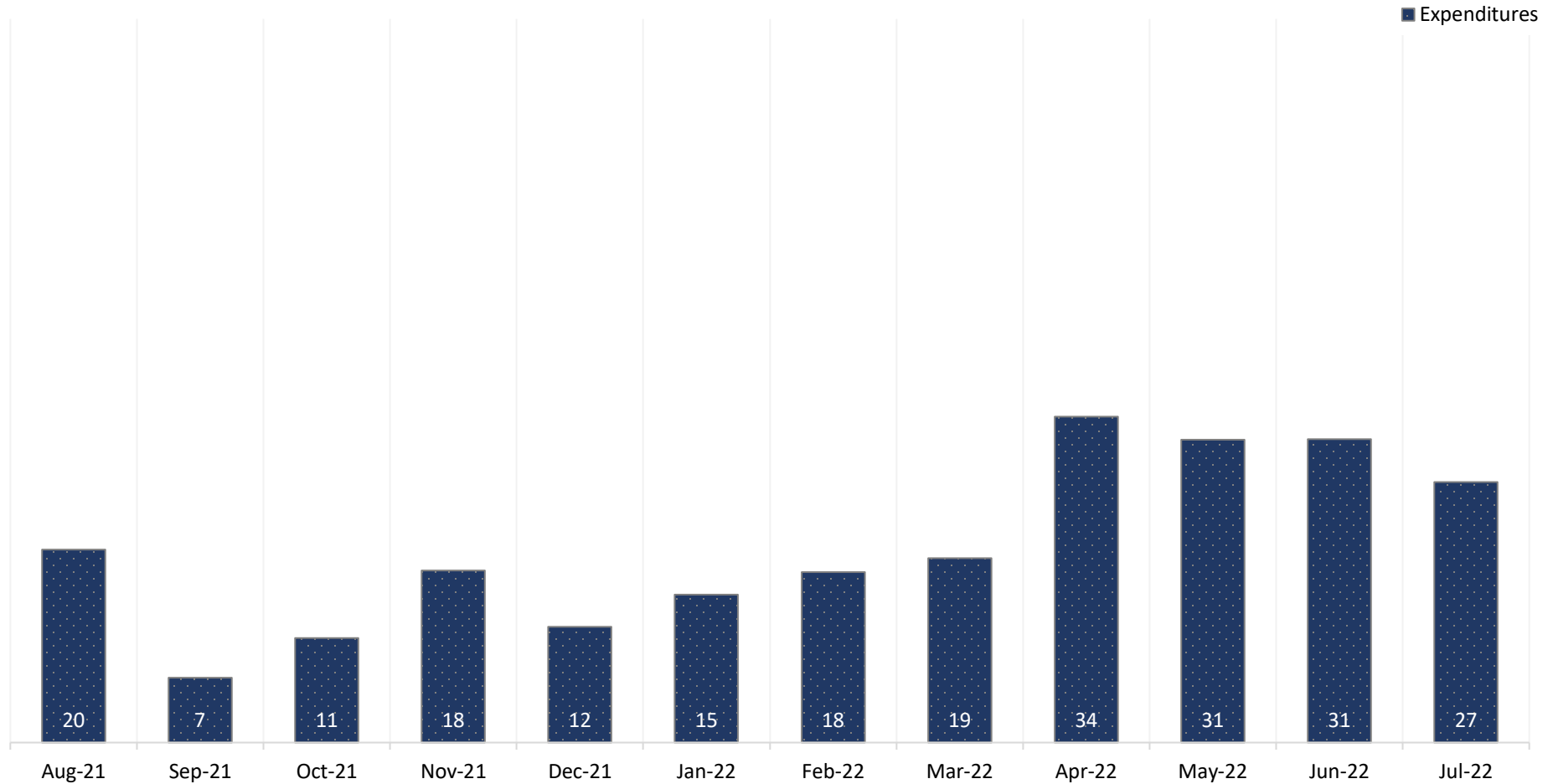
Description	Percentage
Time:	107.3%
Dollars:	77.9%

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 \$27.0M.

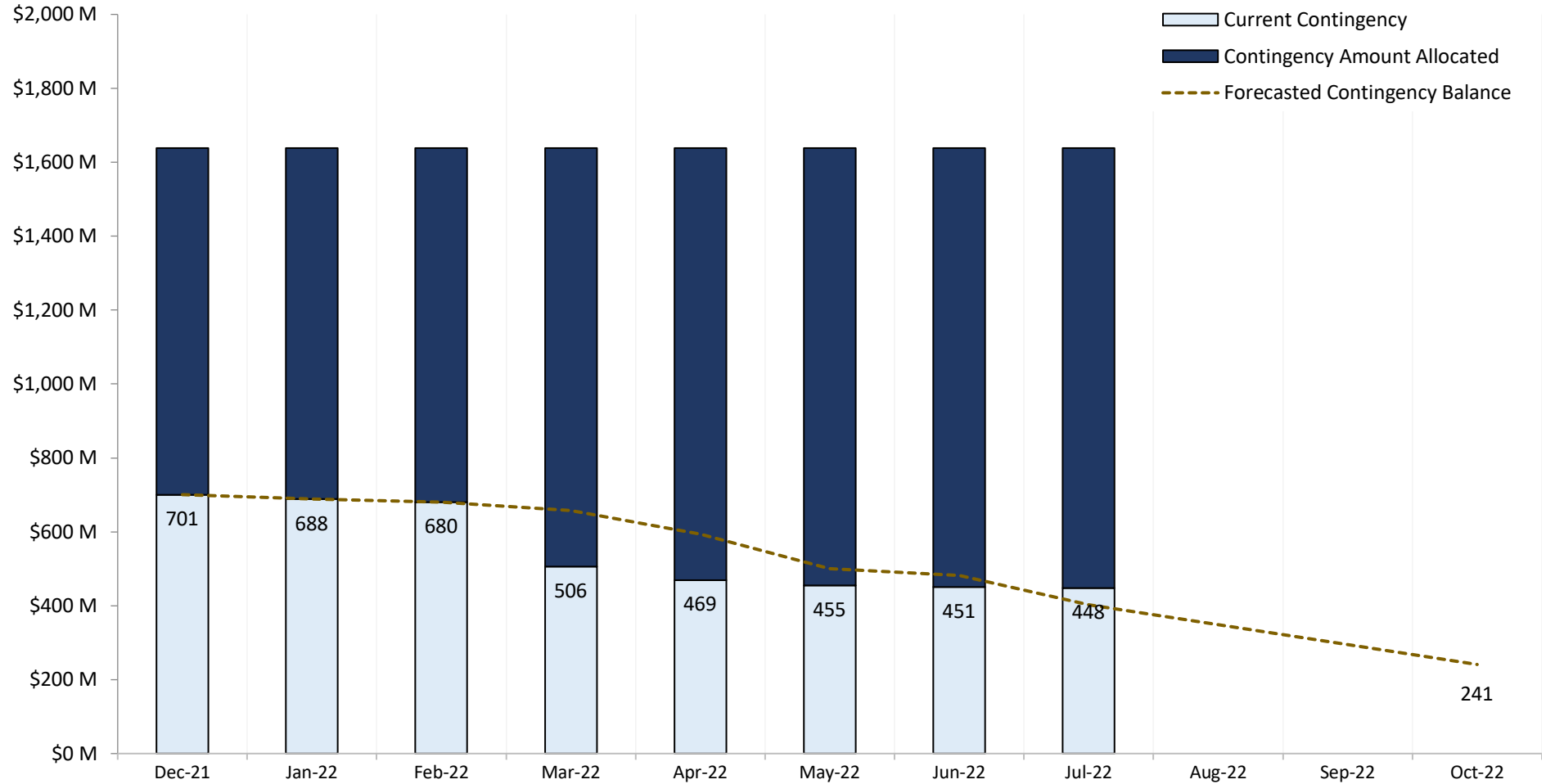
CP 2-3 – Change Orders (CO)

CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00328	Relocate Lumen Fiber Optic – T&M	Executed	\$150,000.00	07-29-22
00316	Directive Letter 155 MOI Facility Culvert Extensions	Executed	\$72,572.00	07-07-22
00045.32	Escalation Costs - April 2022	Executed	\$2,628,809.00	07-07-22
TOTAL			\$2,851,381.00	

CP 2-3 – Risk Contingency

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

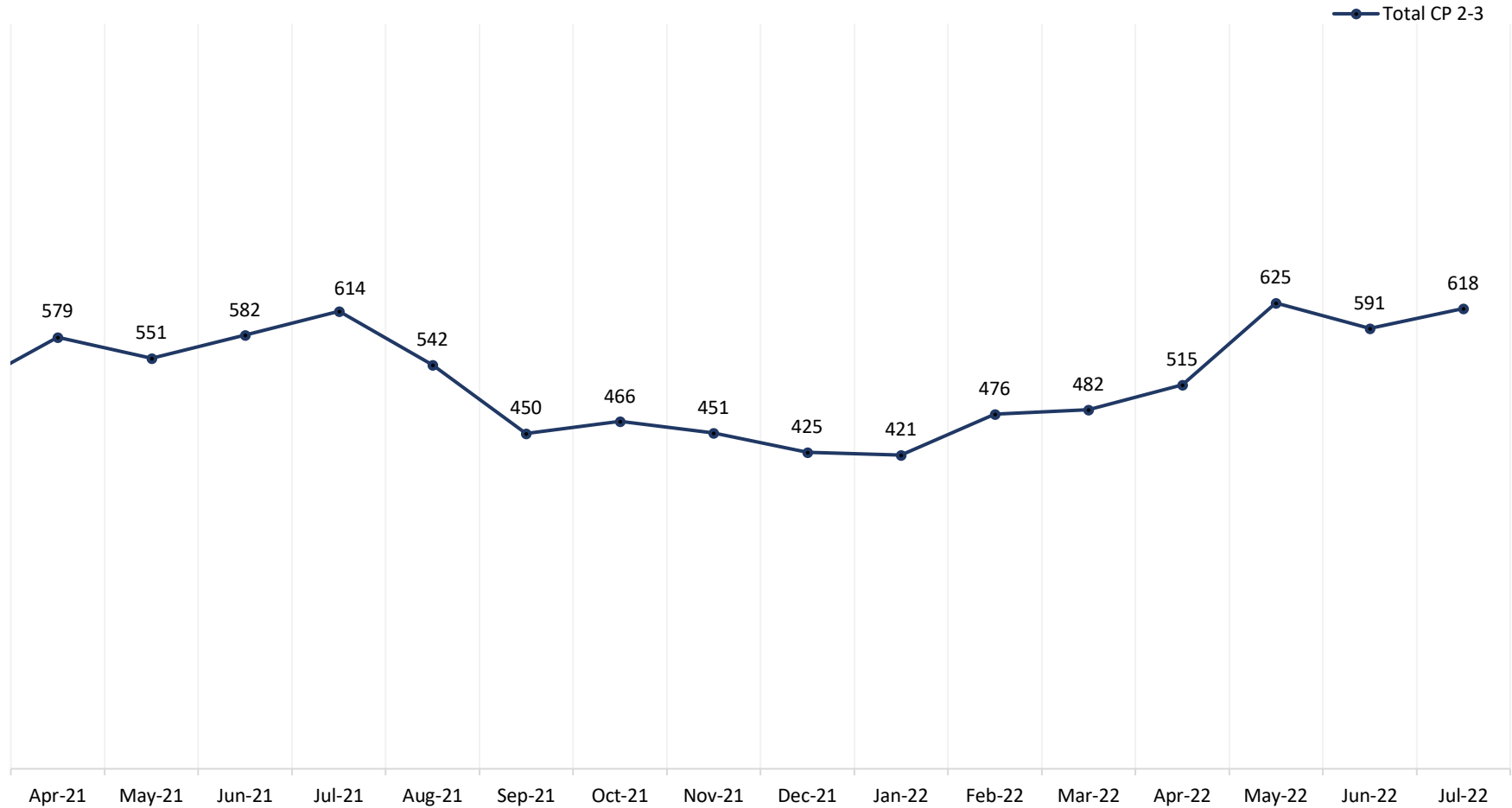


Notes:

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 only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations, and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.

CP 2-3 – Monthly Construction Labor

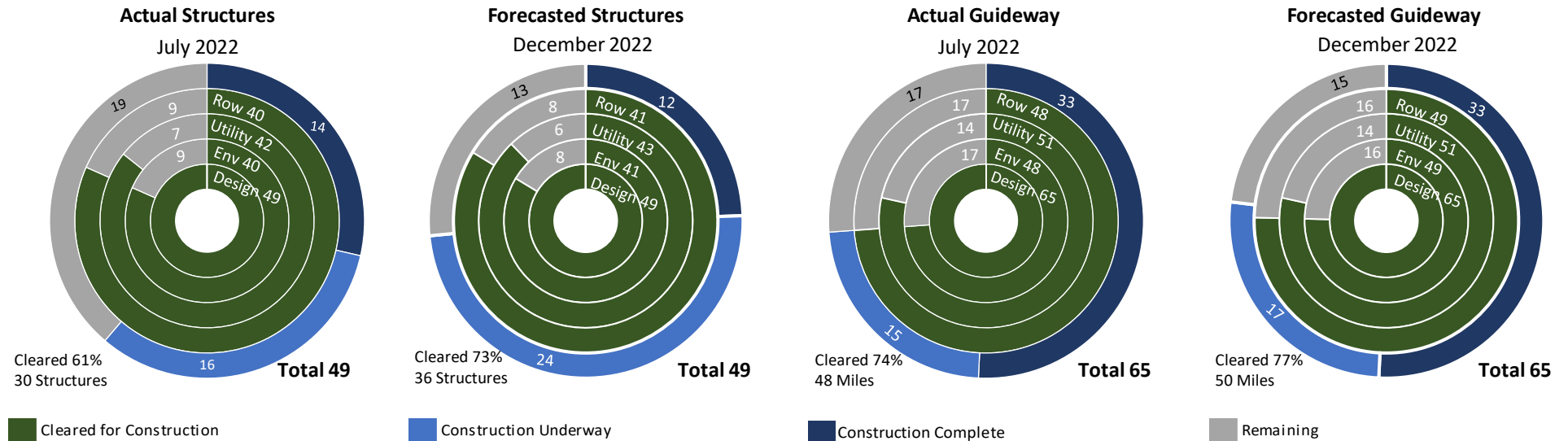
CP 2-3 – Monthly Construction Workforce Total – Actual (FTE)



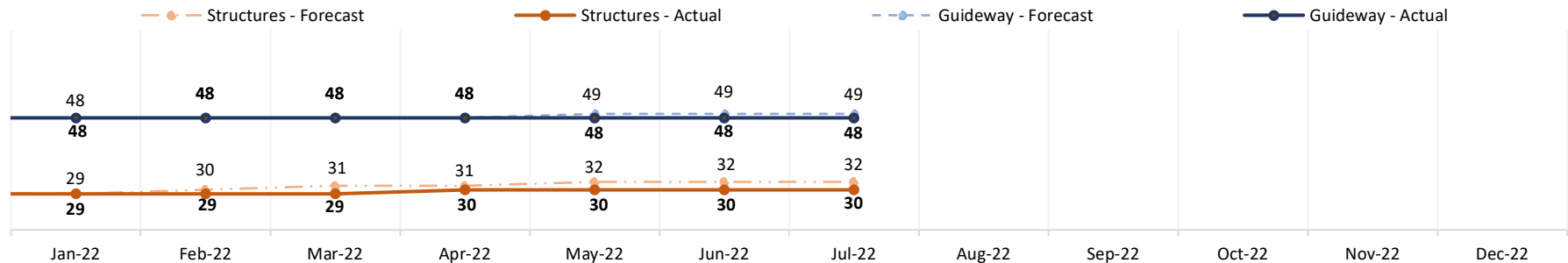
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 27 workers from the previous month (591).

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. Grangeville delay is due to utility relocation of SCE transmission line, scheduled to start October 2022. Alpaugh Allensworth Atwell Trails (AAAT) awaiting environmental Incidental Take Permit (ITP) to be issued. **Update:** Incidental Take Permit received and AAAT is scheduled to start work end of September 2022 or early October 2022.
 - Total Guideway: 65 miles:
 - 48 miles underway/Construction complete. The one mile behind south of Dutch John, designs completed in June 2022. Scheduled to start December 2022 pending Change Order approval of trestle.
 - The 109 design submissions included 50 Structures (split submission at Tulare Viaduct), 6 submissions covering the 65 miles of guideway, 41 for roadways and access roads with the corridor with the remaining 12 for IPB Packages, special foundation designs and Alpaugh Pond.

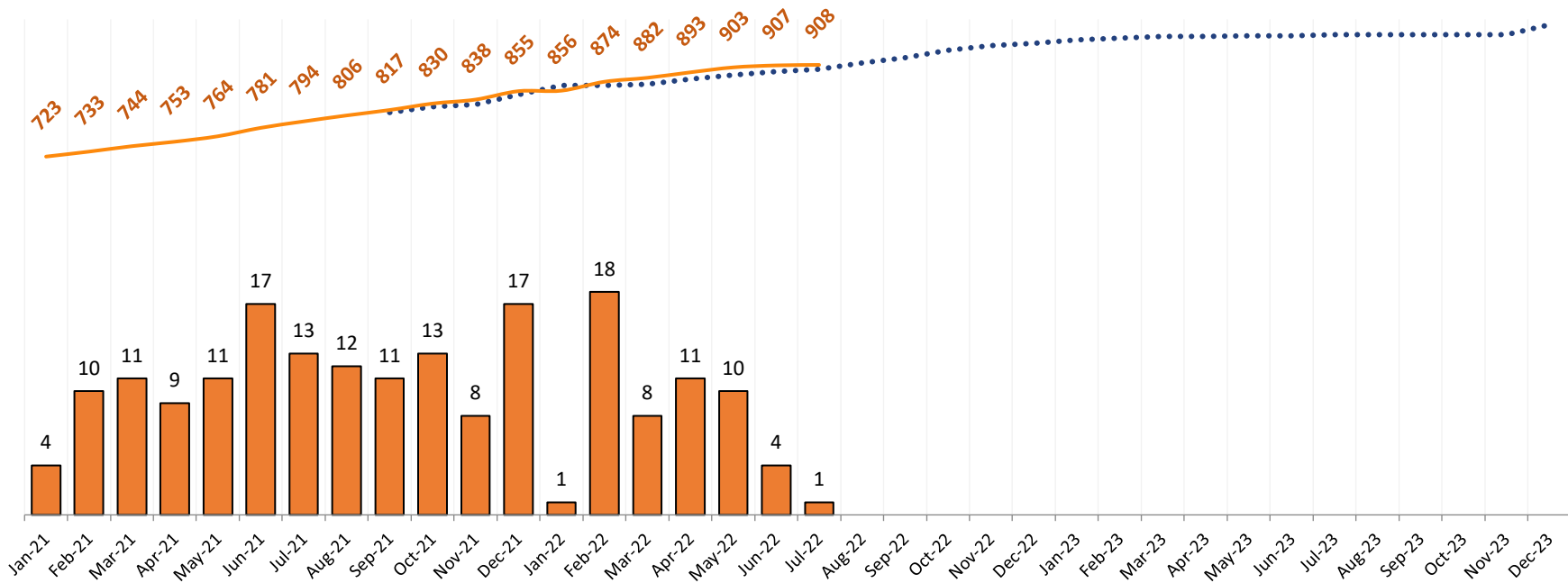
CP 2-3 – Real Property/Right-of-Way (ROW)

CP 2-3 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2022	Total Parcels Delivered to Date July 31, 2022	Remaining Parcels to be Delivered July 31, 2022
CP 2-3	990	908	82

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

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



Notes:

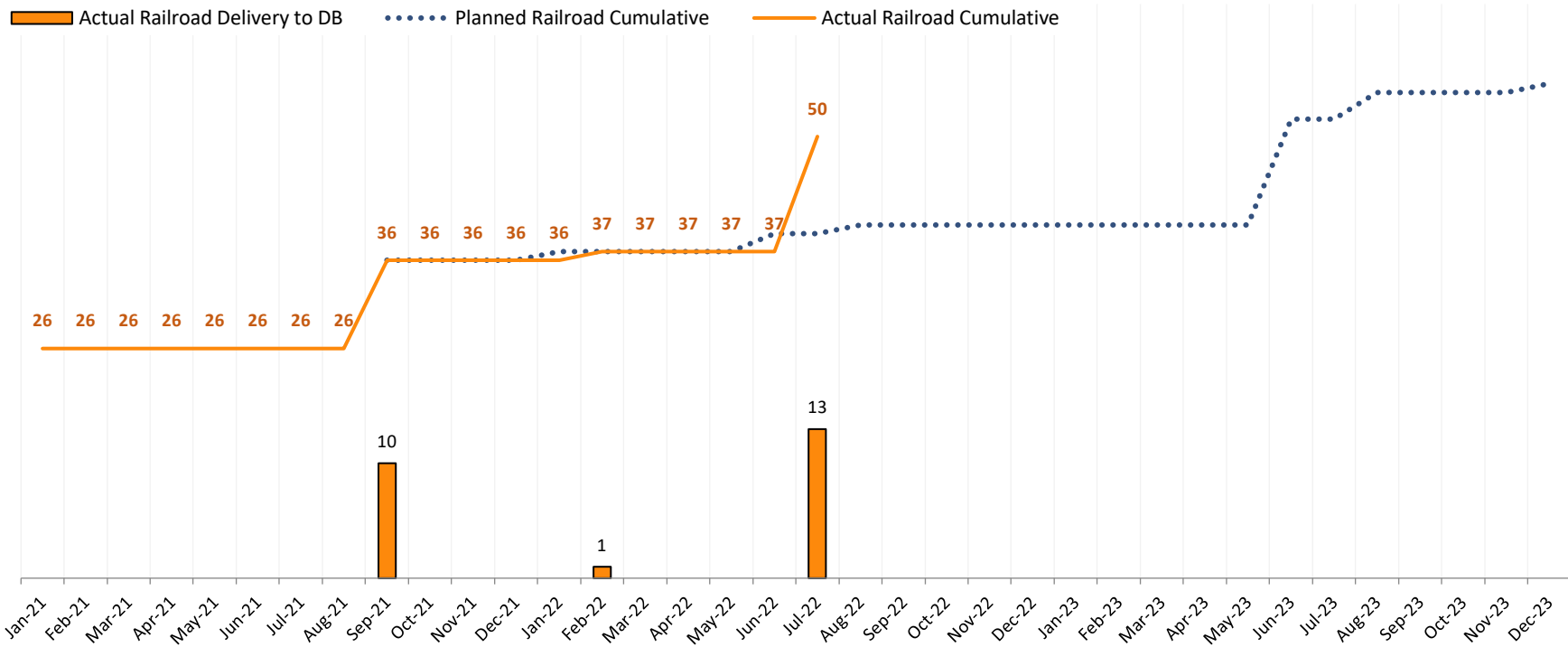
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedule (RBS) Revision 3.

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 July 31, 2022	Total Railroad Parcels Delivered to Date July 31, 2022	Remaining Railroad Parcels to be Delivered July 31, 2022
CP 2-3	56	50	6

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



Notes:

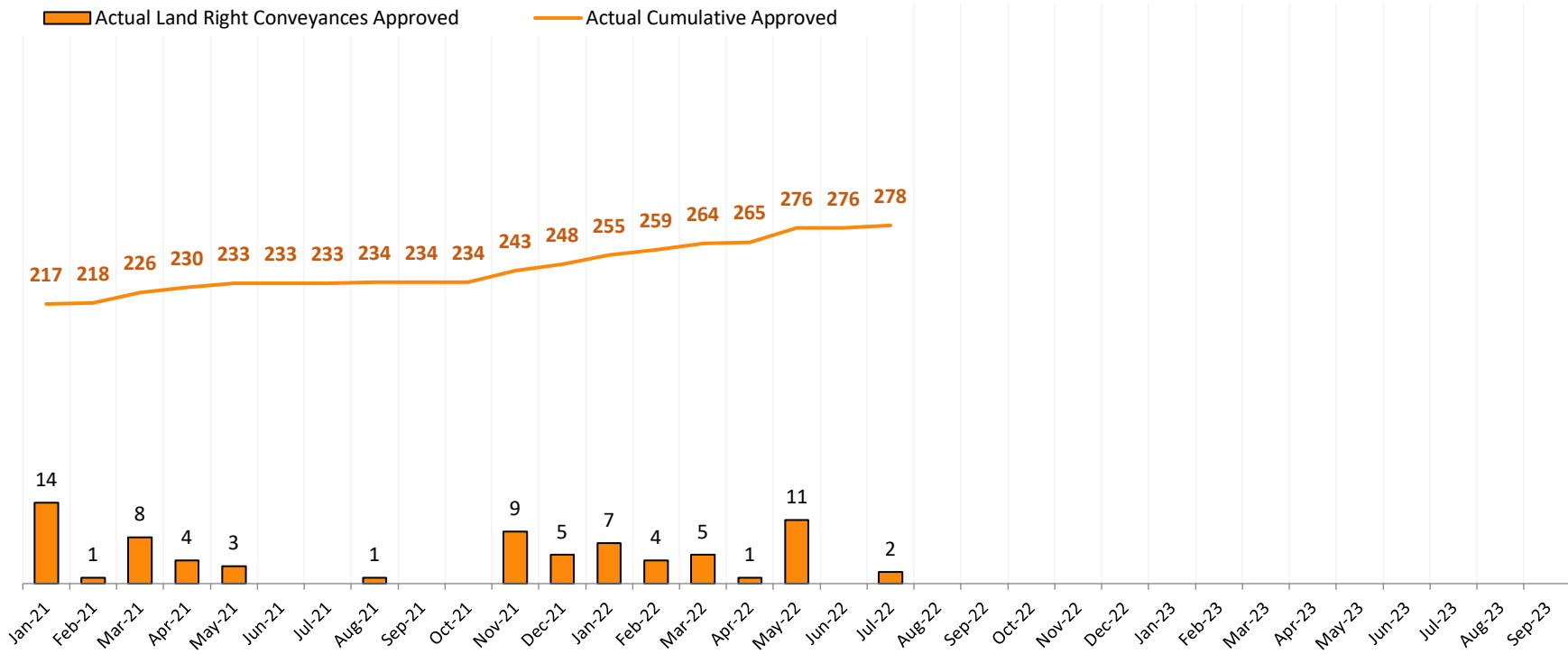
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.

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 July 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date July 31, 2022	Remaining Land Right Conveyances to be Approved July 31, 2022
CP 2-3	433	278	155

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:	\$262,935,615.93
Current Contract Amount:	\$707,182,615.93
Approved Invoices to Date:	\$577,182,338.93
Remaining Contract Balance:	\$130,000,277.00

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 07/31/2022):	2,298

Expended to Date

Description	Percentage
Time:	91.5%
Dollars:	81.6%

Growth Percentage

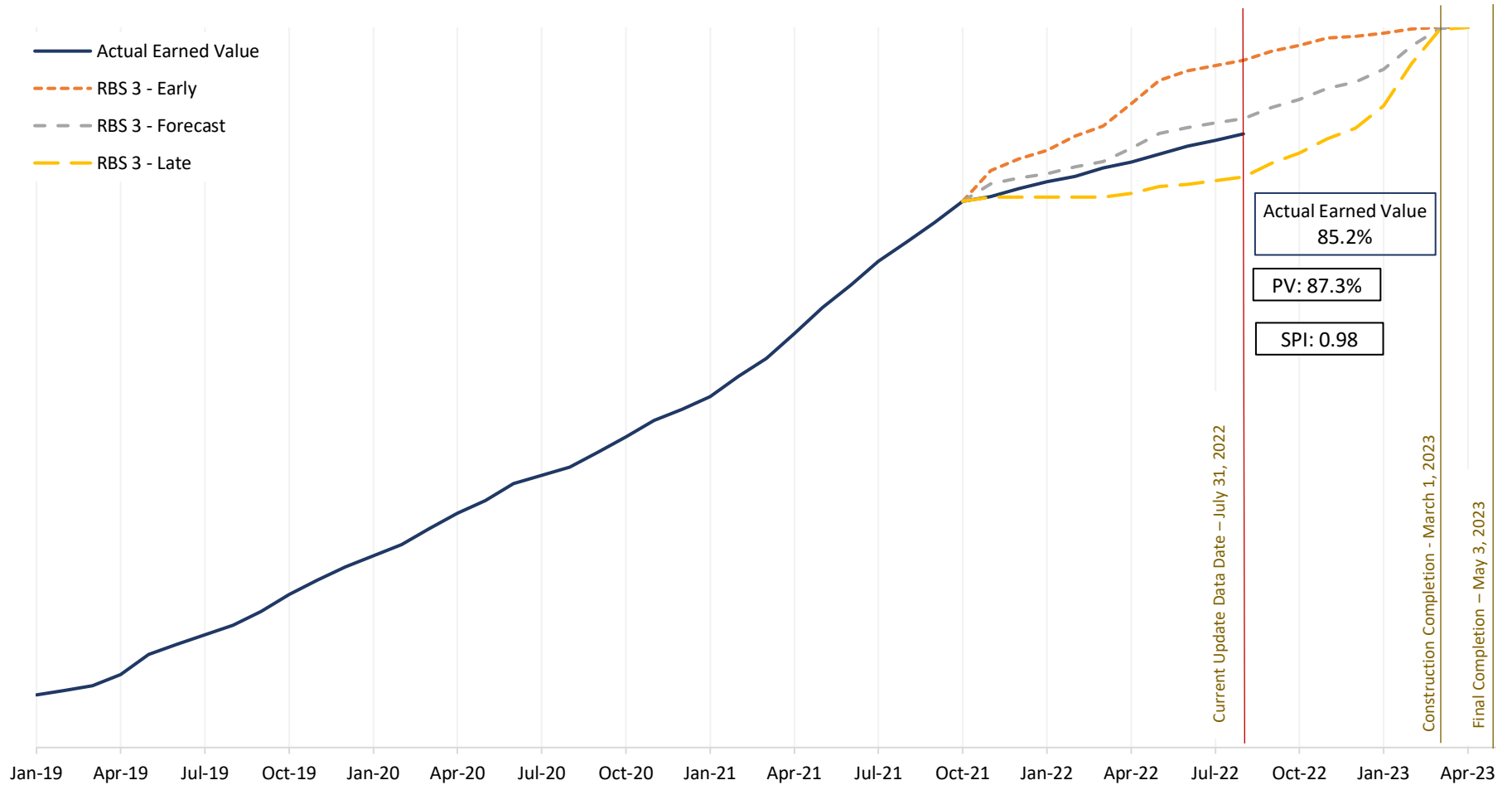
Description	Percentage
Time:	119.5%
Dollars:	59.2%

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) – March 1, 2023.
- 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 – Earned Value

CP 4 – Earned Value Summary (%)

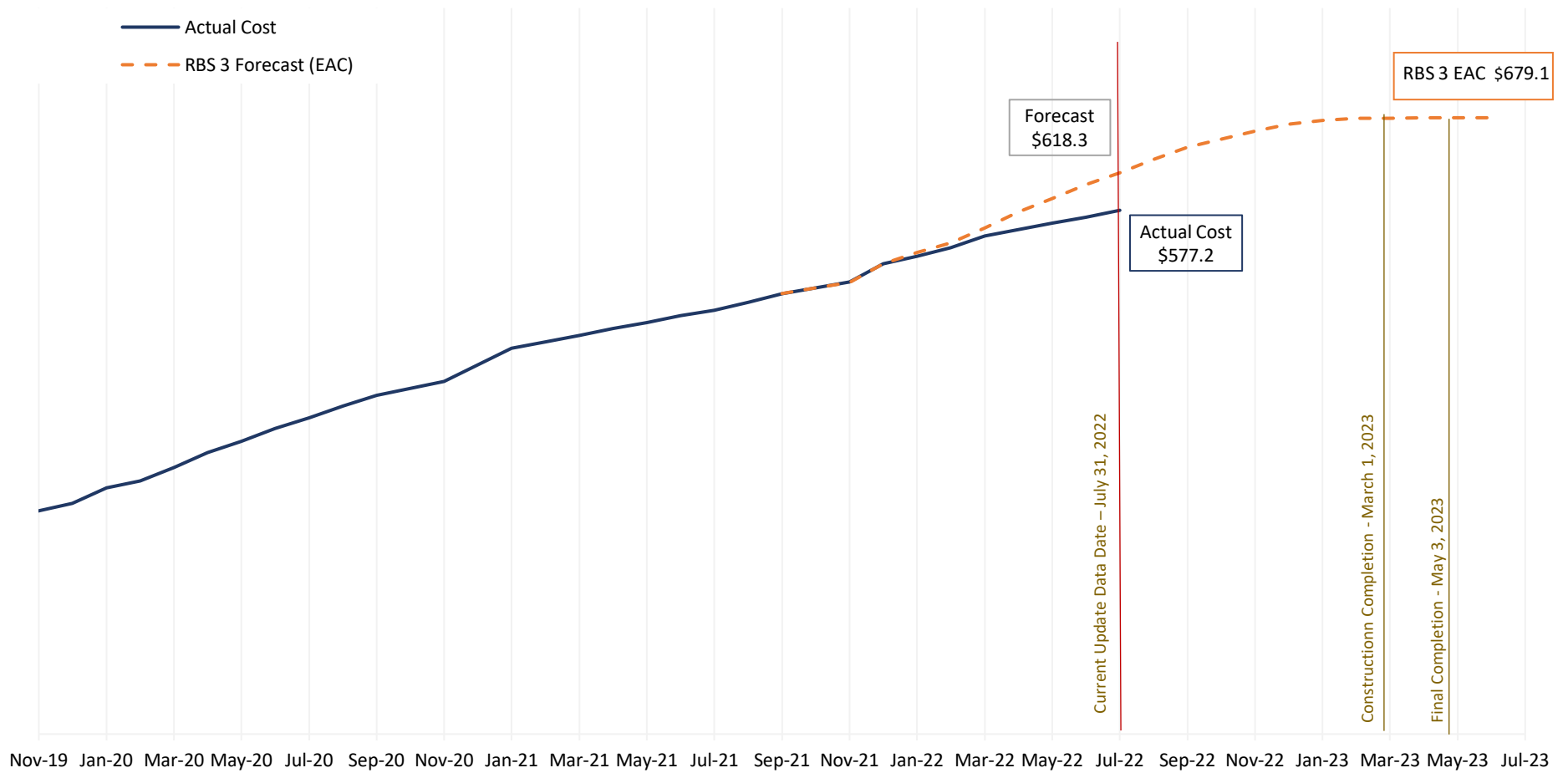


Notes:

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 July 31, 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)

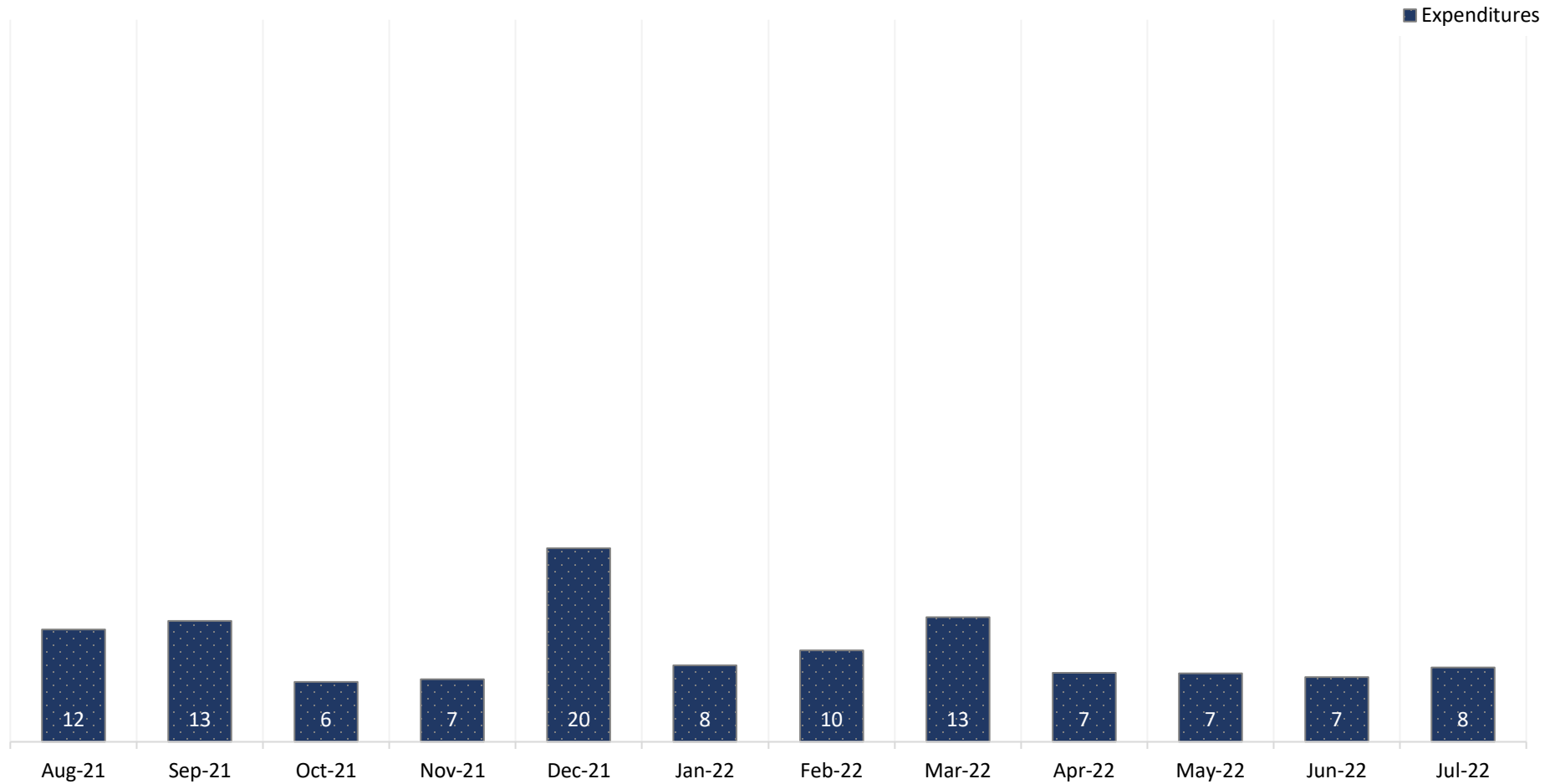


Notes:

1. The graph provides a comparison of the project actual cost performance against the target RBS3 Estimate at Completion (EAC).
2. The target EAC forecast is based on the contract value and the estimated cost of expected change orders.

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 \$7.5M.

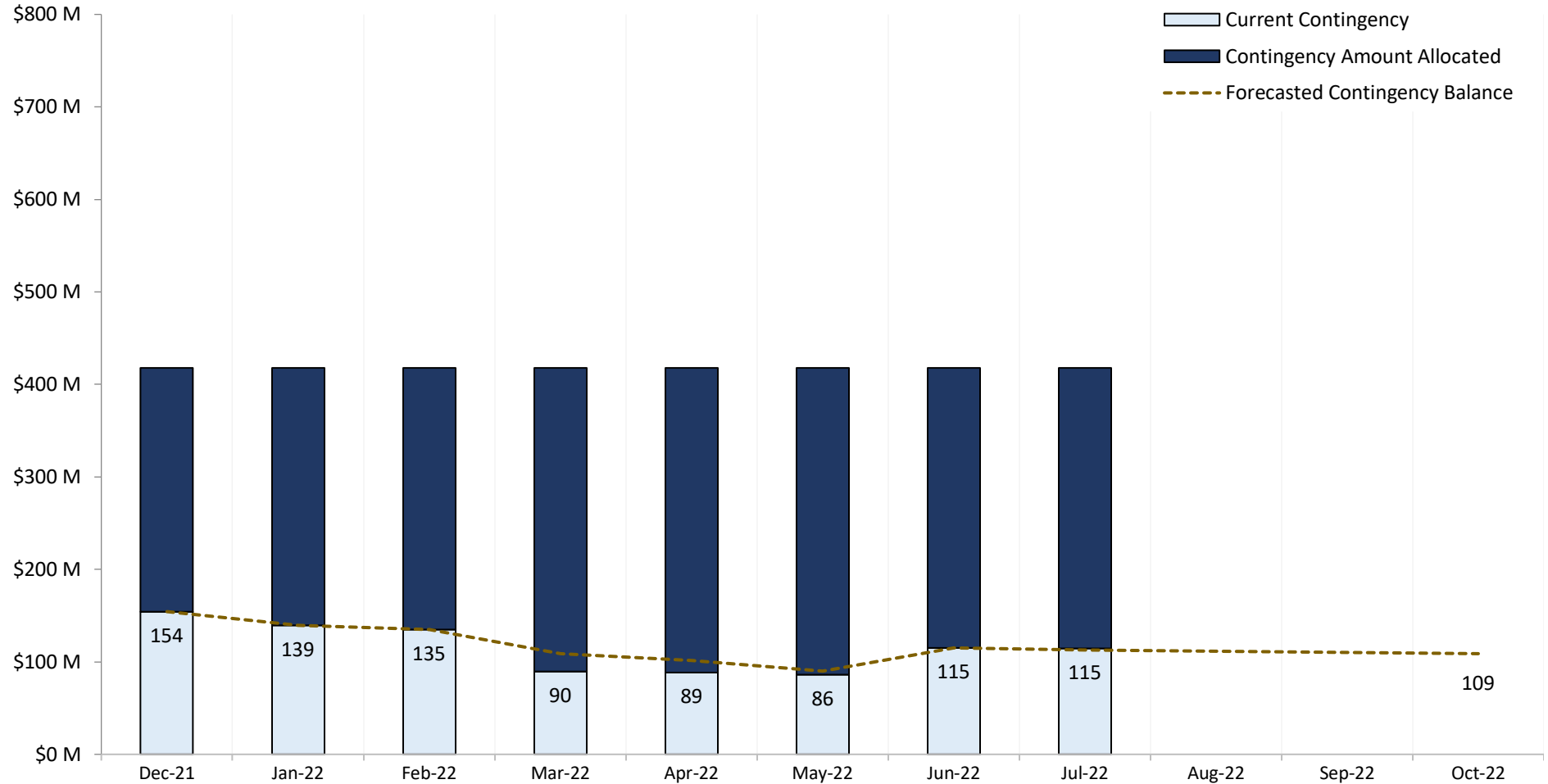
CP 4 – Change Orders (CO)

CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
139	Increase in the depth of the City of Wasco's Well 13	Executed	\$46,857.09	07-27-22
145	Changes in specs for Caltrans concrete bridge decks	Executed	\$120,293.13	07-27-22
146	City of Wasco Conflict 8000 Misidentified Conflict	Executed	\$223,174.20	07-27-22
147	NKWSD Unidentified Conflict Parallel to Conflict #5002	Executed	\$40,402.36	07-27-22
TOTAL			\$430,726.78	

CP 4 – Risk Contingency

CP 4 – Risk Contingency Status (\$ Millions)

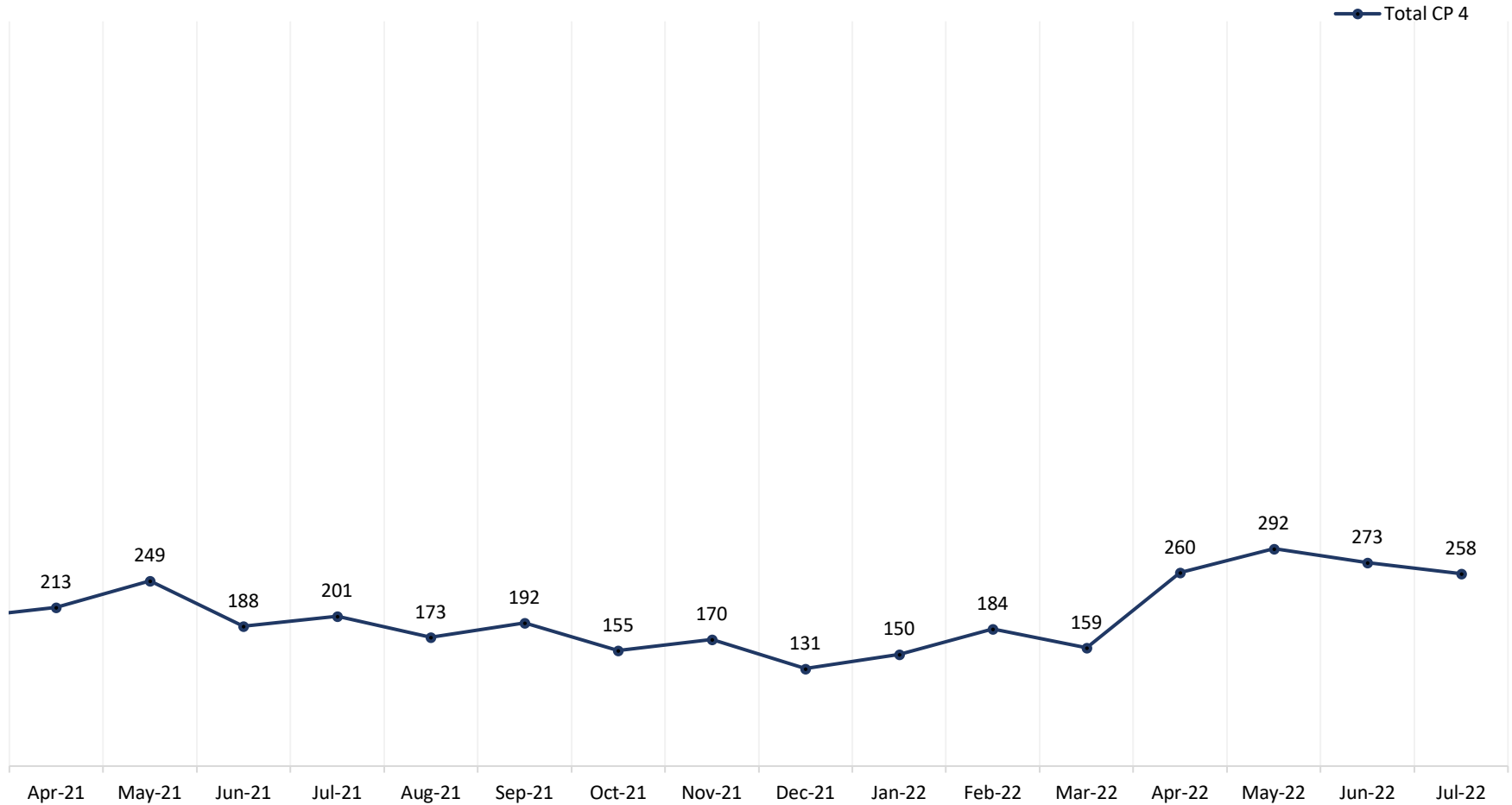


Notes:

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 only on agreed change orders expected to be executed within the three-month window. Due to change order negotiations, and dispute resolution, timing and value of Forecasted Contingency Balance is uncertain.
5. June 2022 increases due to \$31M Business Oversight Committee approved transfer of Utility Provisional Sum from contract to contingency.

CP 4 – Monthly Construction Labor

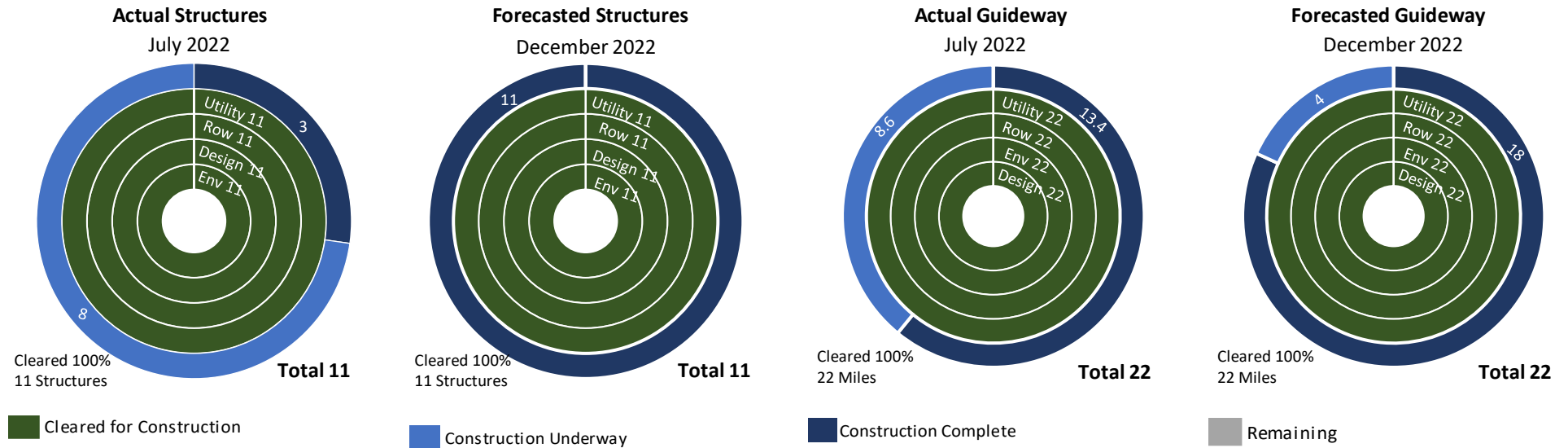
CP 4 – Monthly Construction Workforce Total – Actual (FTE)



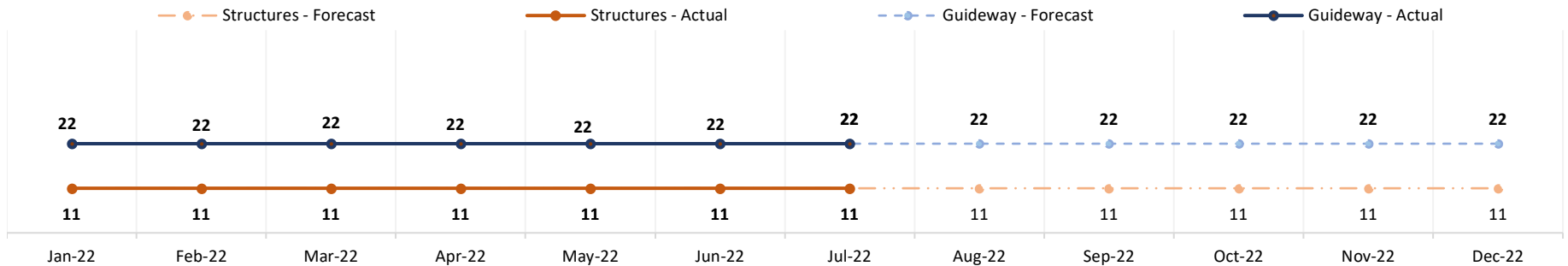
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. A decrease of 15 workers from the previous month (273).

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 (RBS3) approved schedule.
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: 22 miles. The actual miles for CP 4 are 21.5 miles but rounded to 22 miles for consistency in reporting:
 - a. 22 miles underway/Construction complete.

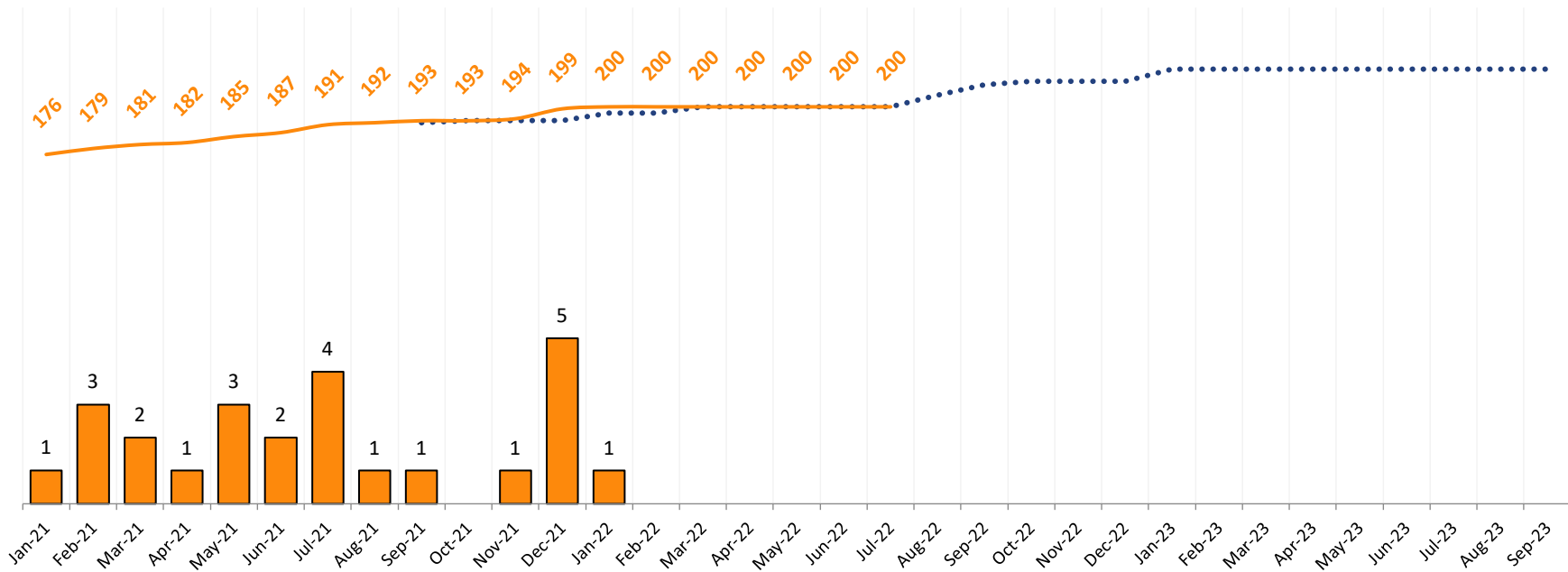
CP 4 – Real Property/Right-of-Way (ROW)

CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels July 31, 2022	Total Parcels Delivered to Date July 31, 2022	Remaining Parcels to be Delivered July 31, 2022
CP 4	240	200	40

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

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



Notes:

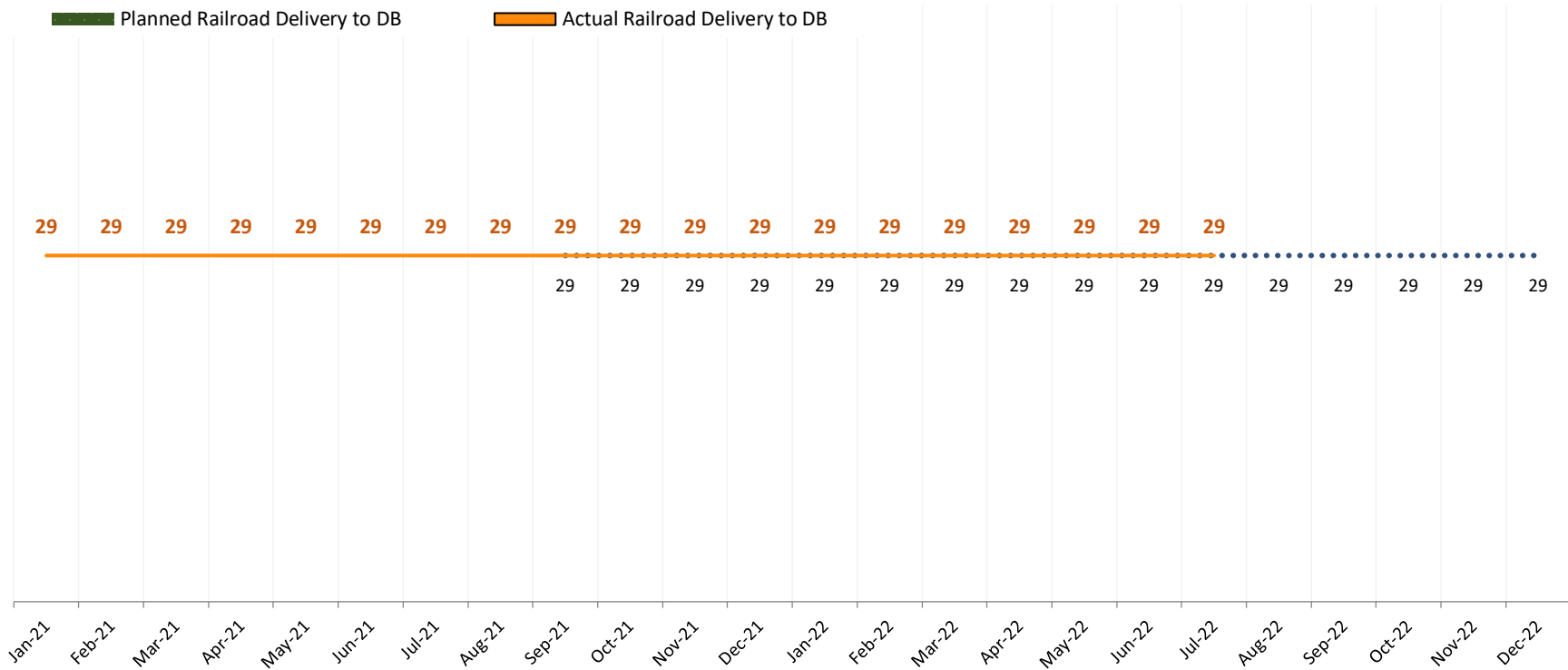
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

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

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

Construction Package	Total Needed Railroad Parcels July 31, 2022	Total Railroad Parcels Delivered to Date July 31, 2022	Remaining Railroad Parcels to be Delivered July 31, 2022
CP 4	29	29	0

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

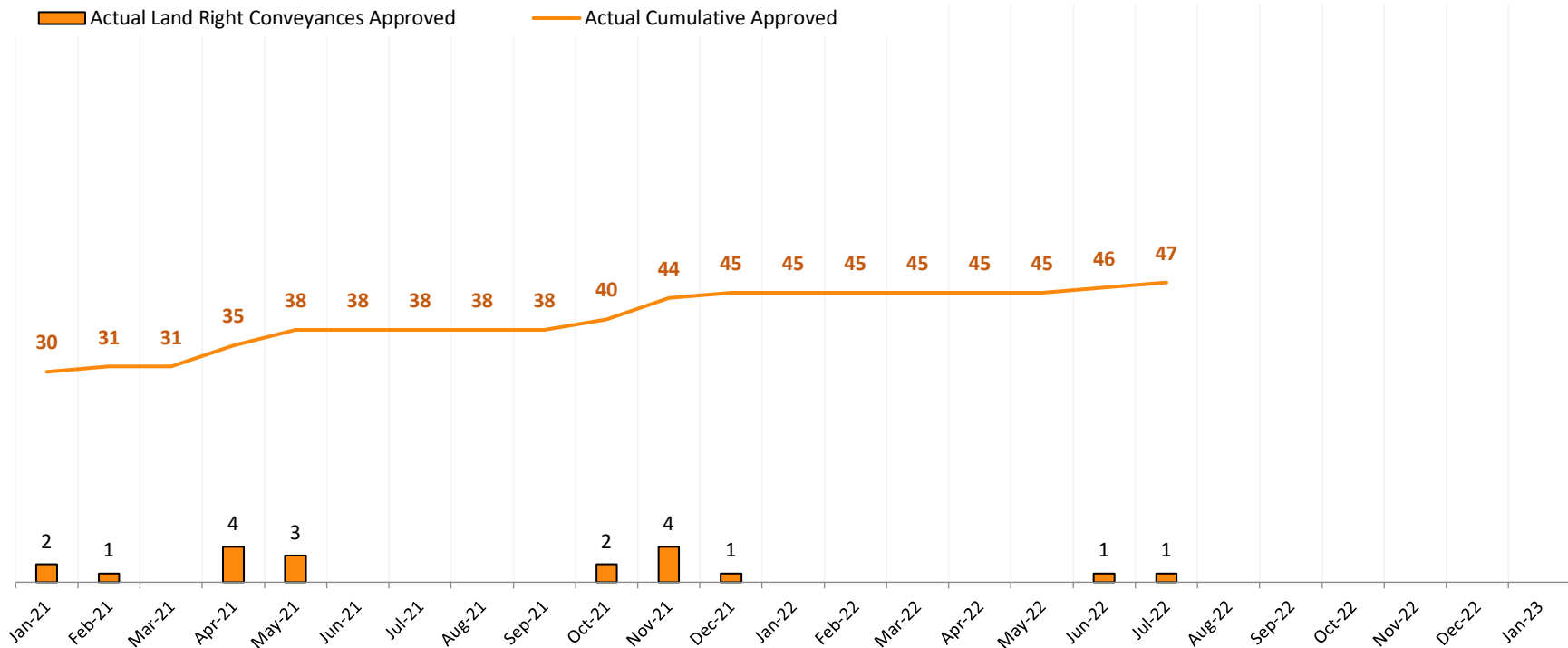


CP 4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

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

Construction Package	Total Needed Land Right Conveyances July 31, 2022	Total Land Right Conveyances Approved ⁽²⁾ to Date July 31, 2022	Remaining Land Right Conveyances to be Approved July 31, 2022
CP 4	88	47	41

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%
Document Complete	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%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%
1	San Francisco to San Jose ³	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 97%	Complete Complete 98%	Complete Complete Aug-22	Complete Complete Aug-22
2	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 82%	May-23 May-23 84%	Jun-24 Jun-24 0%	Jun-24 Jun-24 ¹ 0%	Complete Complete Jun-24	Complete Complete Jun-24
3	Palmdale to Burbank	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Aug-22 Sep-22 99%	Aug-22 Sep-22 ² 99%	Sep-23 Oct-23 0%	Sep-23 Oct-23 0%	Complete Complete Oct-23	Complete Complete Oct-23
4	Heavy Maintenance Facility (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%	Complete Complete TBD	Complete Complete 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 June 2022 the release of the Draft EIR/EIS for Palmdale to Burbank was extended to September 2022 due to additional time needed to prepare the document for release.
3. The Authority Board approved the San Francisco to San Jose Final EIR/EIS at the August 2022 Board Meeting.

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) waiting period ended on July 11, 2022. Comments were received and responses were drafted.</p> <p>Federal Railroad Administration (FRA) published the General Conformity Determination (GCD) on July 22 and noticed in the Federal Register on July 28.</p> <p>NEPA/CEQA Approval Package was finalized for printing and distribution on July 29 in anticipation of the August 17th and 18th Board Meeting. Update: The HSR Authority Board approved the San Francisco to San Jose (FJ) Final EIR/EIS at the 17th and 18th August 2022 Board Meeting.</p>
San Jose to Merced	<p>The Final Record of Decision (ROD) was signed by the Authority CEO on June 1, 2022.</p> <p>Administrative Record being assembled and organized. Second batch submitted of materials on July 25, 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 meetings with City of Chowchilla and 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. The Authority has continued to meet with key stakeholders (e.g., Center for Biological Diversity, City of Palmdale) as necessary.</p>
Palmdale to Burbank	<p>Production and noticing activities are underway in advance of the scheduled release date for the Draft EIR/EIS on September 2, 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>