



Finance & Audit Committee

# **CENTRAL VALLEY STATUS REPORT**

August 2022 Report (data through June 2022)

## Executive Summary

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

- June 2022 Expenditures totaled \$53.4M:
  - Construction Package 1 – Expenditures totaled \$15.2M.
  - Construction Package 2-3 – Expenditures totaled \$31.4M.
  - Construction Package 4 – Expenditures totaled \$6.7M.
- Total CP Cumulative Actual Expenditures (Pages 13, 22, and 31) – \$4,009.7M.
- Total Cumulative Current Contract Amount (Pages 13, 22, and 31) – \$5,928.1M.

### Change Orders

- Executed Change Orders this period – 31 for a total of \$9.8M:
  - Construction Package 1 (Page 15) – 15 for a total of \$4.0M (Page 15).
  - Construction Package 2-3 (Page 24) – 10 for a total of \$4.0M (Page 24).
  - Construction Package 4 (Page 35) – Six for a total of \$1.9M (Page 35).

### Risk Contingency ([Page 6](#))

- Original Contract Contingency – \$4,000.7M budgeted contract contingency. Contingency balance is \$1,135.3M as of June 30, 2022.
  - Construction Package 1 (Page 16) – \$1,944.5M budgeted contract contingency. Contingency balance is \$569.5M as of June 30, 2022.
  - Construction Package 2-3 (Page 25) – \$1,638.4M budgeted contract contingency. Contingency balance is \$450.7M as of June 30, 2022.
  - Construction Package 4 (Page 36) – \$417.8M budgeted contract contingency. Contingency balance is \$115.1M as of June 30, 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](#))

- June 2022, Average Daily Site Workers (by Week) – 1,119 workers. A decrease of 38 workers from the previous period (from 1,157):
  - Construction Package 1 (Page 17) – 255 workers. An increase of 15 workers from the previous month (240).
  - Construction Package 2-3 (Page 26) – 591 workers. A decrease of 34 workers from the previous month (625).
  - Construction Package 4 (Page 37) – 273 workers. A decrease of 19 workers from the previous month (292).
- Daily Average Contracted CP Employees Quarantined for COVID-19 in June 2022 – Six. An increase of four from the daily average of two in May 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: 862 (46%); In Progress: 370 (20%); Approved to Start: 81 (4%); Not Started: 549 (30%); Total: 1,862. Nineteen relocated in June 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: 366 (37%); In Progress: 341 (34%); Approved to Start: 0 (0%); Not Started: 285 (29%); Total: 992.
  - Construction Package 2-3 – Relocated: 408 (58%); In Progress: 21 (3%); Approved to Start: 44 (6%); Not Started: 232 (33%); Total: 705.
  - Construction Package 4 – Relocated: 88 (53%); In Progress: 8 (5%); Approved to Start: 37 (23%); Not Started: 32 (19%); Total: 165.

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

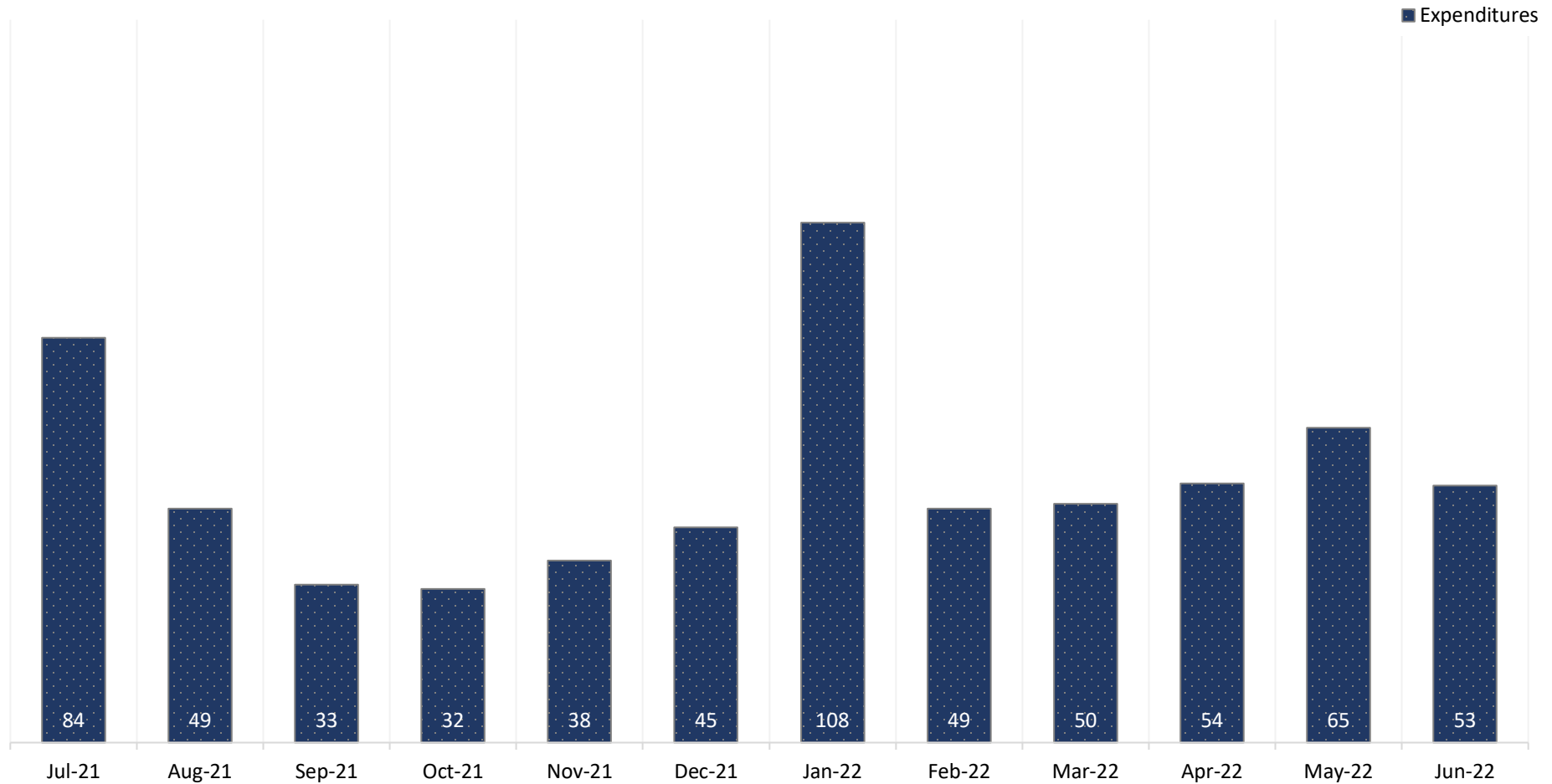
- Total Parcels Delivered to Date – 2,112 parcels compared to an estimated 2,309 parcels needed.
- Parcels Delivered to Design-Builder (DB) – Eight parcels in June 2022.
- Construction Packages 1-4 – Zero parcels added. The Authority continues to receive requests for additional parcels primarily related 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 – 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):
  - One land right conveyance approved.
  - To date, the Authority received approval on 665 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) was published on June 10, 2022. The State Historic Preservation Officer signed the Section 106 Memorandum of Agreement on June 22, 2022. Preparing for the presentation of the San Francisco to San Jose ( F-J) Final EIR/EIS at the August 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 – Validation of updated capital costs for all six project alternatives is ongoing. On June 13, 2022, executive management selected a scheduled release date for the Draft EIR/EIS of 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)

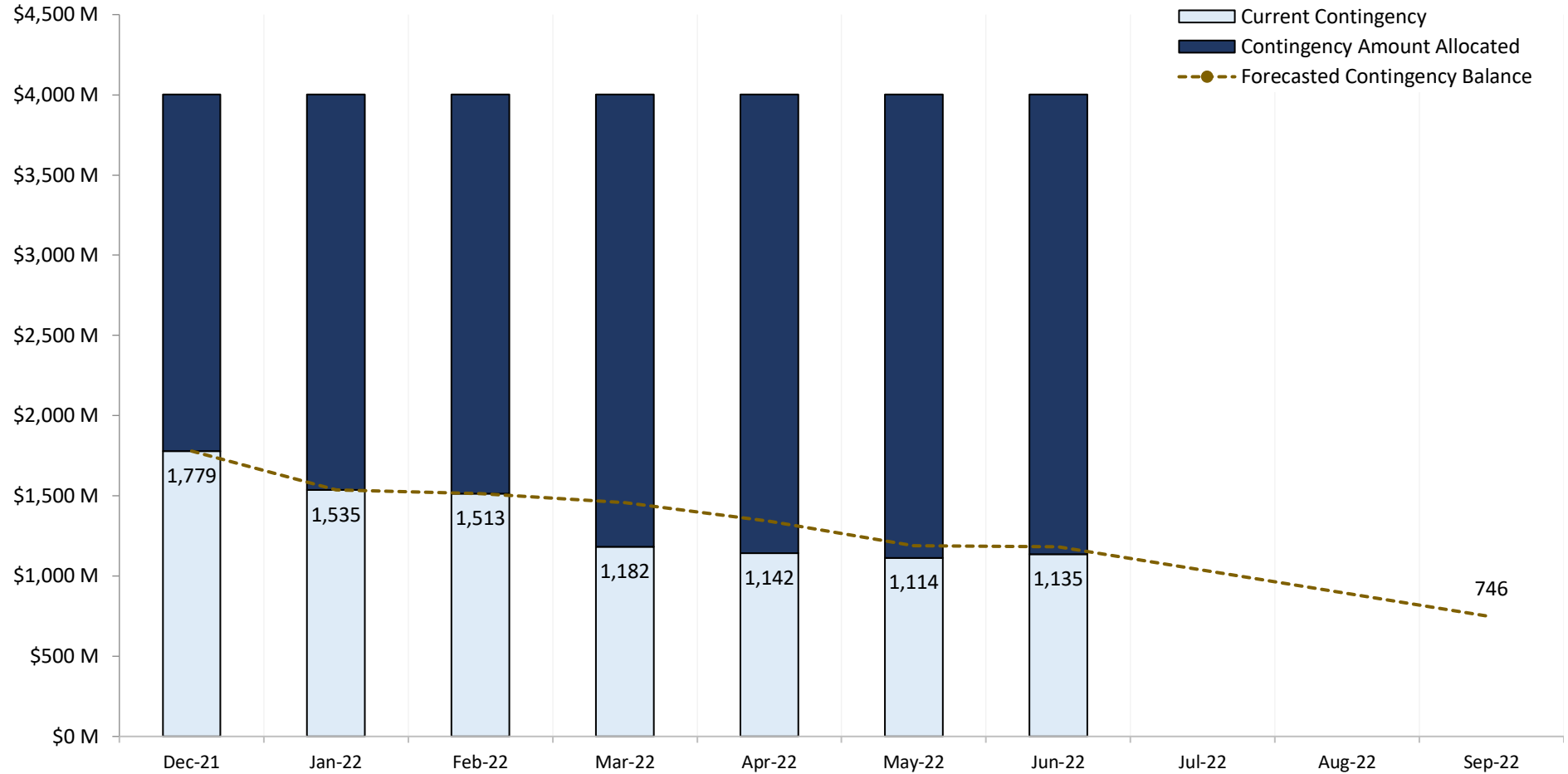


**Notes:**

1. Expenditures in the chart above are specific to the Design-Builder production and based on the Capital Outlay and Expenditure Report.
2. June 2022 Expenditures totaled \$53.4M:
  - a. Construction Package 1 – Expenditures totaled \$15.2M.
  - b. Construction Package 2-3 – Expenditures totaled \$31.4M.
  - c. Construction Package 4 – Expenditures totaled \$6.7M.

## CP 1-4 – Risk Contingency

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

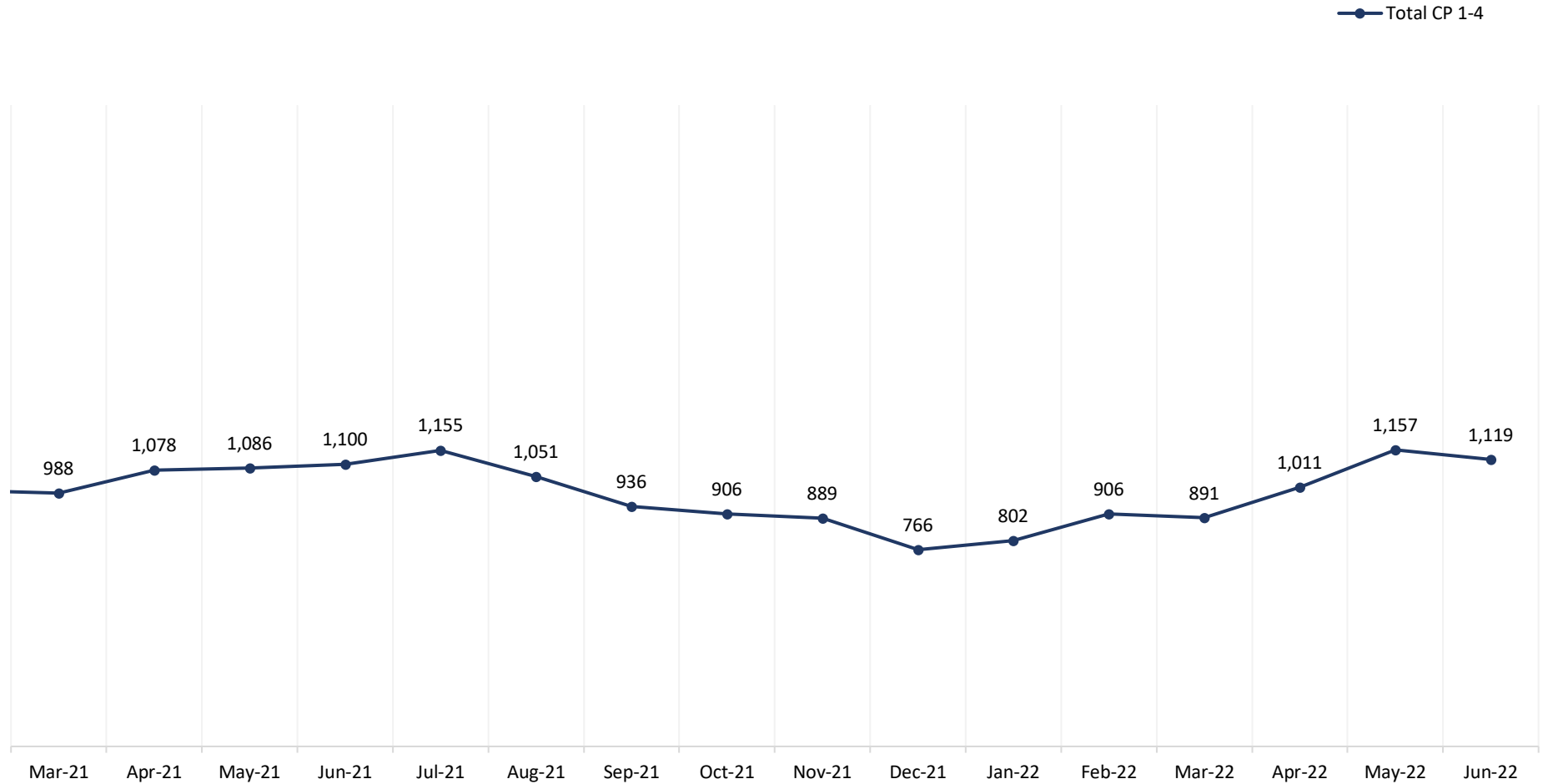


**Notes:**

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)

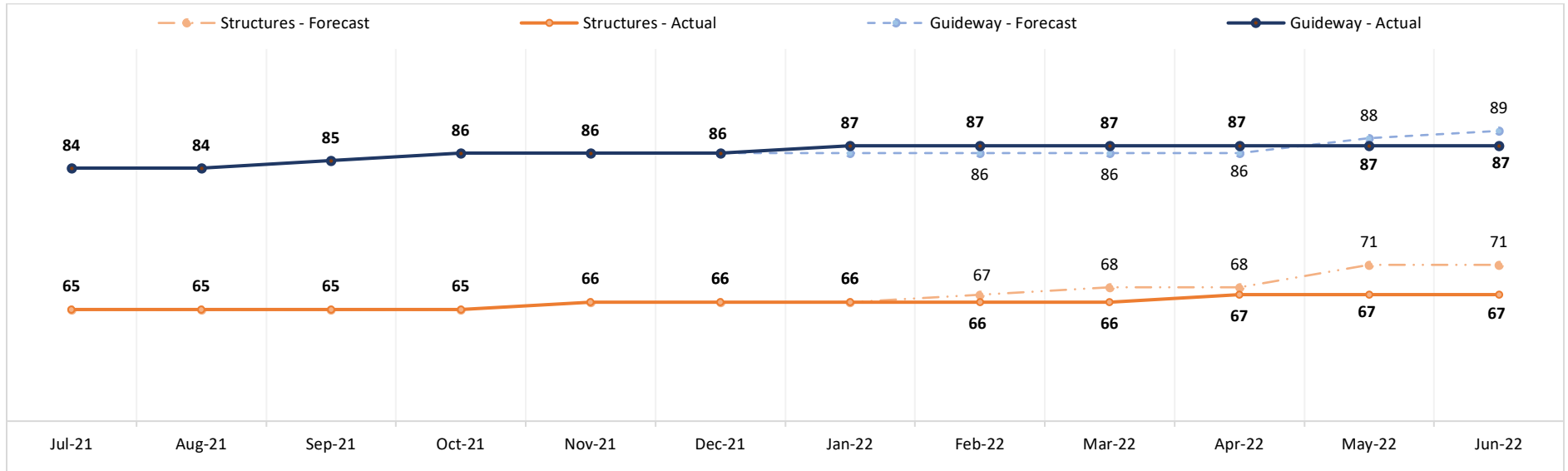


**Notes:**

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. June 2022, Average Daily Site Workers (by week) – 1,119 workers. A decrease of 38 workers from the previous period (from 1,157):
  - a. Construction Package 1 (Page 19) – 255 workers. An increase of 15 workers from the previous month (240).
  - b. Construction Package 2-3 (Page 28) – 591 workers. A decrease of 34 workers from the previous month (625).
  - c. Construction Package 4 (Page 37) – 273 workers. A decrease of 19 workers from the previous month (292).

# 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	
<b>Structures</b>	12	14	16	14	8	3	36	31	<b>67</b>
<b>Guideway</b>	15	2	15	33	8.6	13.4	38.6	48.4	<b>87</b>

- 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 at Central Avenue (PG&E) and Avenue 17 (PG&E).
    - CP 2-3 – 30 structures underway/Construction complete. Grangeville delay is due to utility relocation of SCE transmission line and Alpaugh Allensworth Atwell Trails (AAAT) awaiting environmental incidental take permit (ITP) to be issued.
    - 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 is south of Dutch John, designs completed in June 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.

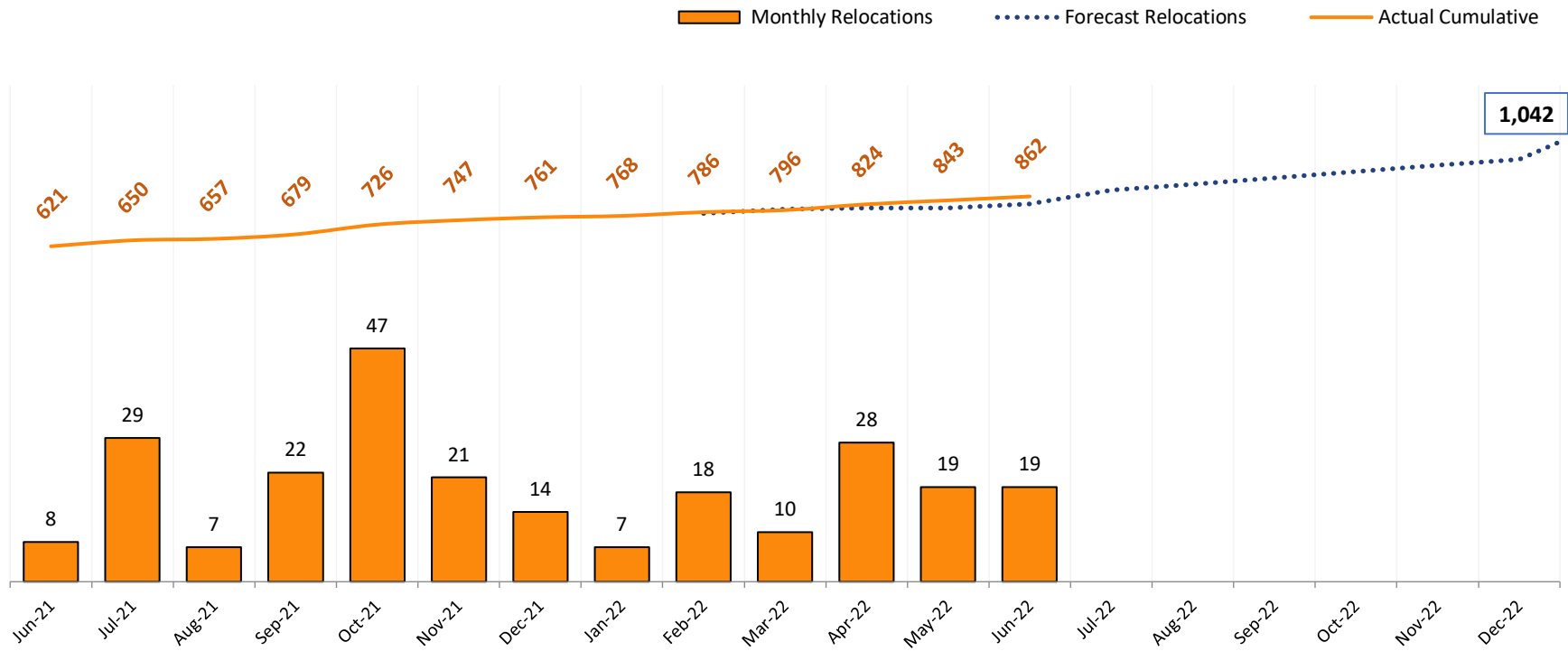


# CP 1-4 – Utility Relocations

## CP 1-4 – Utility Relocation Summary

Construction Package	Total Relocations June 30, 2022	Total Utilities Relocated to Date June 30, 2022	Remaining Utility Relocations June 30, 2022
CP 1	992	366	626
CP 2-3	705	408	297
CP 4	165	88	77
<b>Total</b>	<b>1,862</b>	<b>862</b>	<b>1,000</b>

## CP 1-4 – Utility Relocation Status Summary-Monthly



**Notes:**

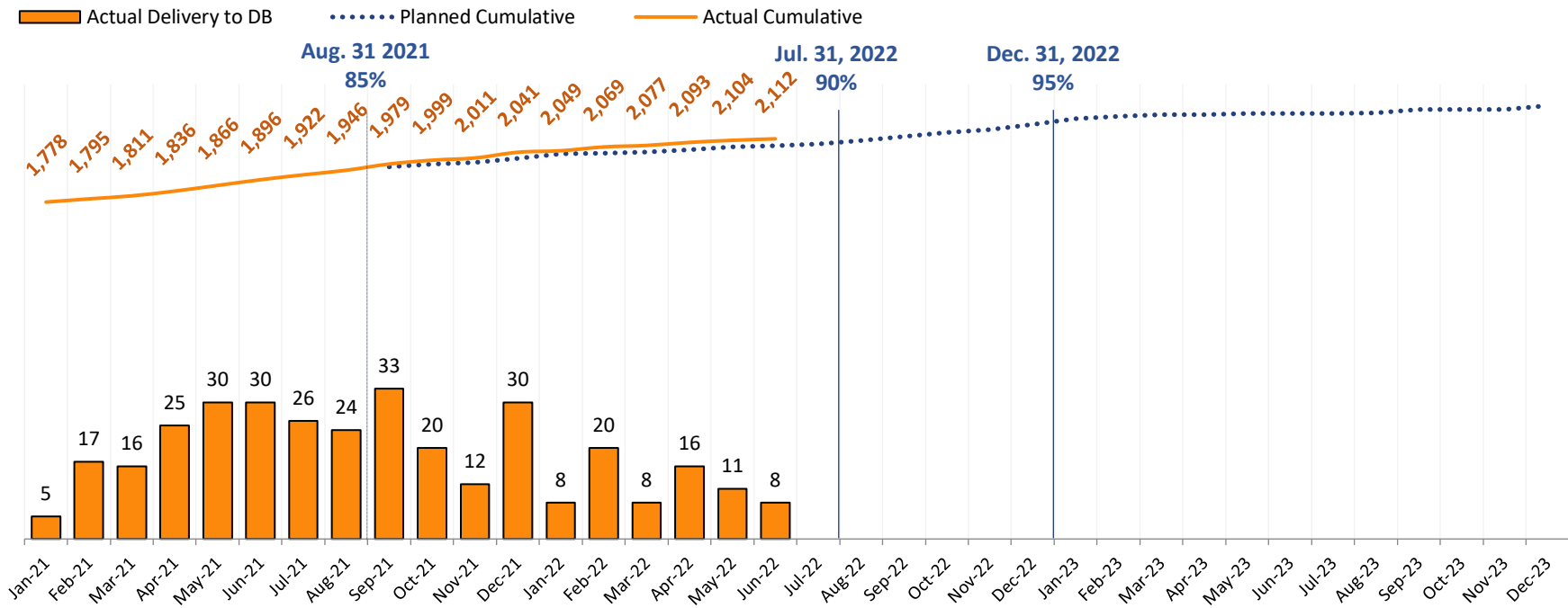
1. In Progress 370 (20%).
2. Approved to start 81 (4%).
3. Not Started 549 (30%).

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

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

Construction Package	Total Needed Parcels June 30, 2022	Total Parcels Delivered to Date June 30, 2022	Remaining Parcels to be Delivered June 30, 2022
CP 1	1,079	1,005	74
CP 2-3	990	907	83
CP 4	240	200	40
<b>Total</b>	<b>2,309</b>	<b>2,112</b>	<b>197</b>

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



**Notes:**

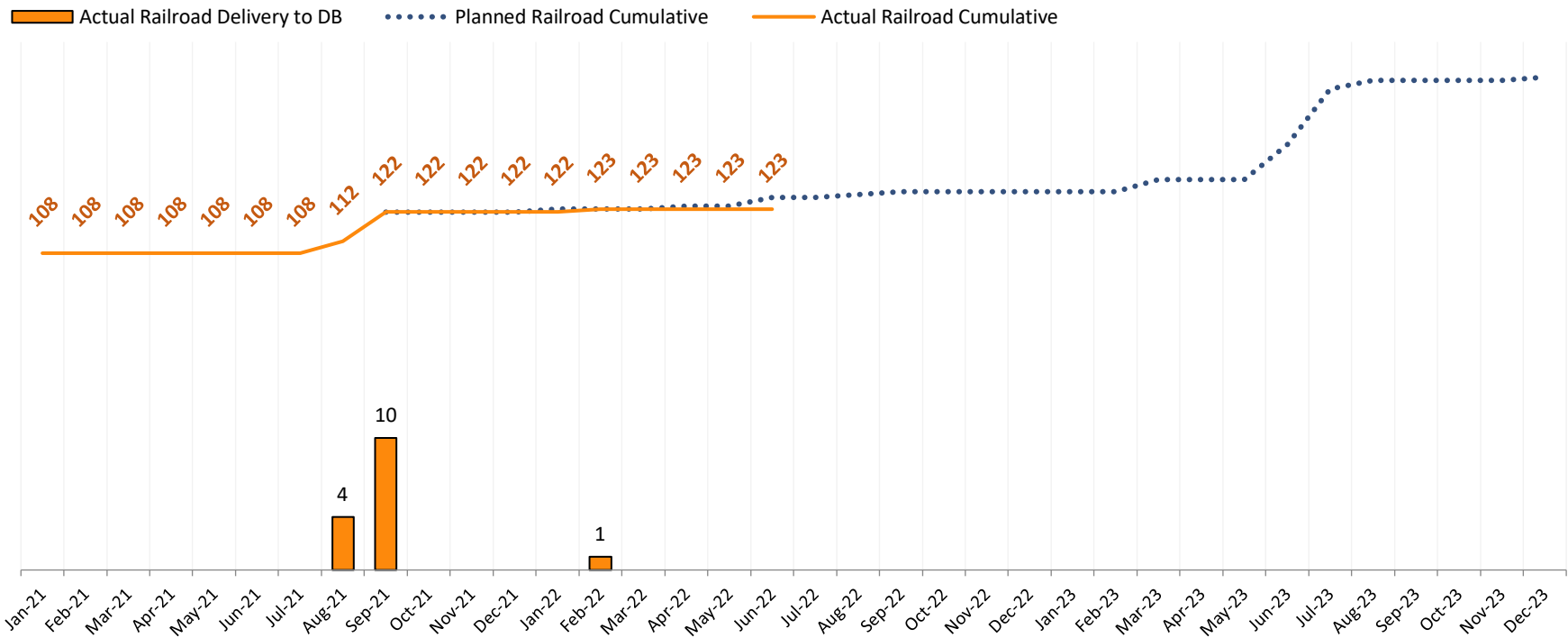
1. This reflects the actual parcels delivered to the Design-Builders by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4. The 90% and 95% milestone completion does not include any additional parcels that may be added.
2. Delivery to Design Builder 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 June 30, 2022	Total Railroad Parcels Delivered to Date June 30, 2022	Remaining Railroad Parcels to be Delivered June 30, 2022
CP 1	83	57	26
CP 2-3	56	37	19
CP 4	29	29	0
<b>Total</b>	<b>168</b>	<b>123</b>	<b>45</b>

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



**Notes:**

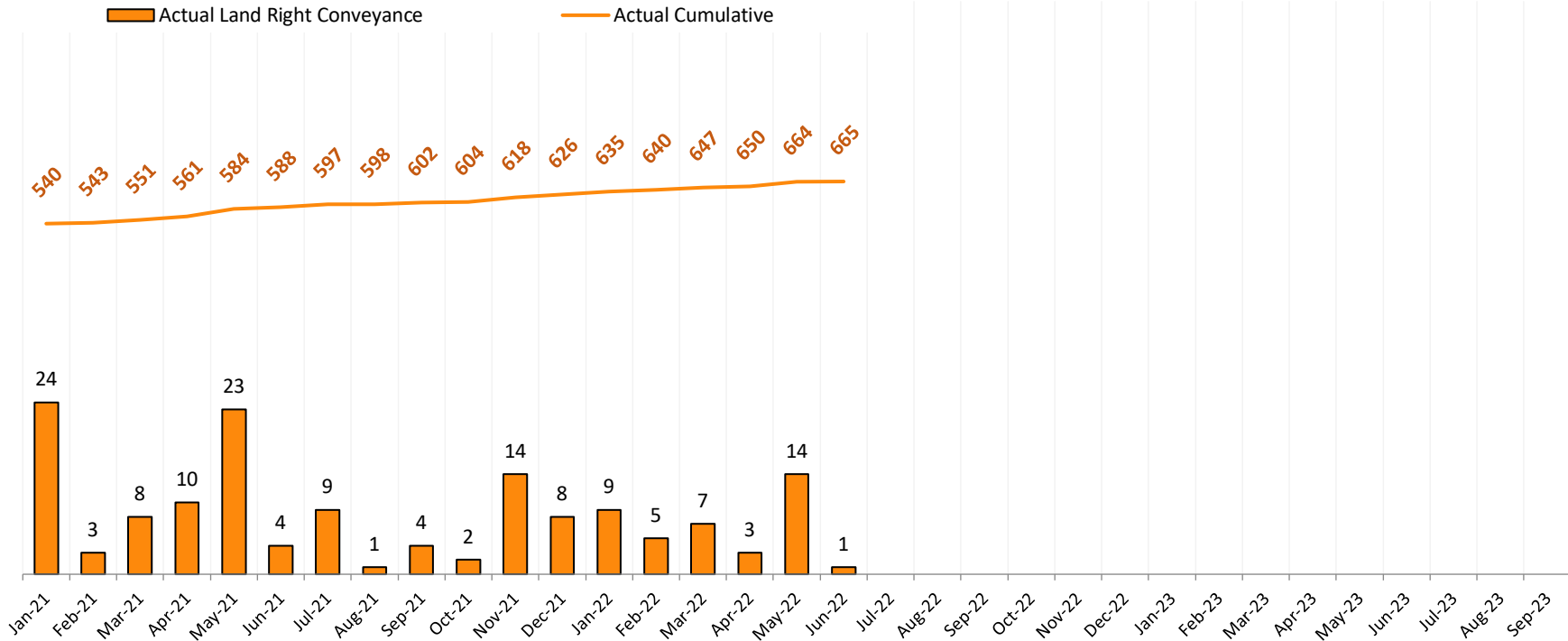
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Four Railroad parcel delivery dates are being reforecast, not impacting the critical path.

## 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 June 30, 2022	Total Land Right Conveyances Approved <sup>(2)</sup> June 30, 2022	Remaining Land Right Conveyances to be Approved June 30, 2022
CP 1	393	343	50
CP 2-3	433	276	157
CP 4	88	46	42
<b>Total</b>	<b>914</b>	<b>665</b>	<b>249</b>

### 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<sup>(1)</sup>

### 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 <sup>(2)</sup> :	03/04/2024
<b>Current Forecast Construction Completion Date<sup>(3)</sup>:</b>	<b>12/29/2023</b>

### Contract Value

Description	Amount
Fixed Bid Price:	\$969,988,000.00
Provisional Sums:	\$53,000,000.00
Original Contract Price:	\$1,022,988,000.00
Executed Change Orders:	\$1,772,411,822.24
Current Contract Amount:	\$2,795,399,822.24
Approved Invoices to Date:	\$1,819,852,312.46
<b>Remaining Contract Balance:</b>	<b>\$975,547,509.78</b>

### 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 06/30/2022):	3,180

### Expended to Date

Description	Percentage
Time:	85.3%
Dollars:	65.1%

### Growth Percentage

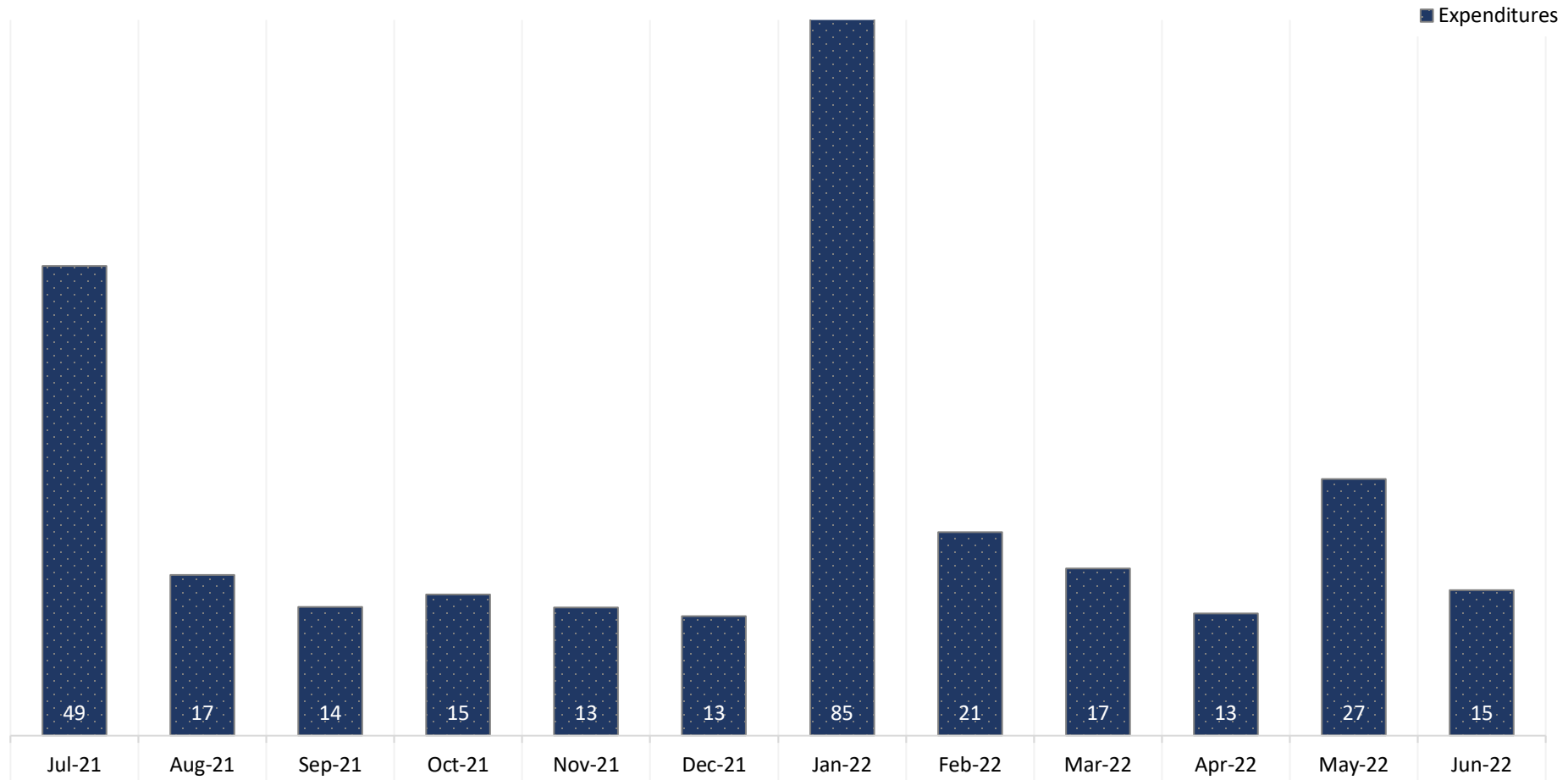
Description	Percentage
Time:	128.9%
Dollars:	173.3%

### 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 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 \$15.2M.

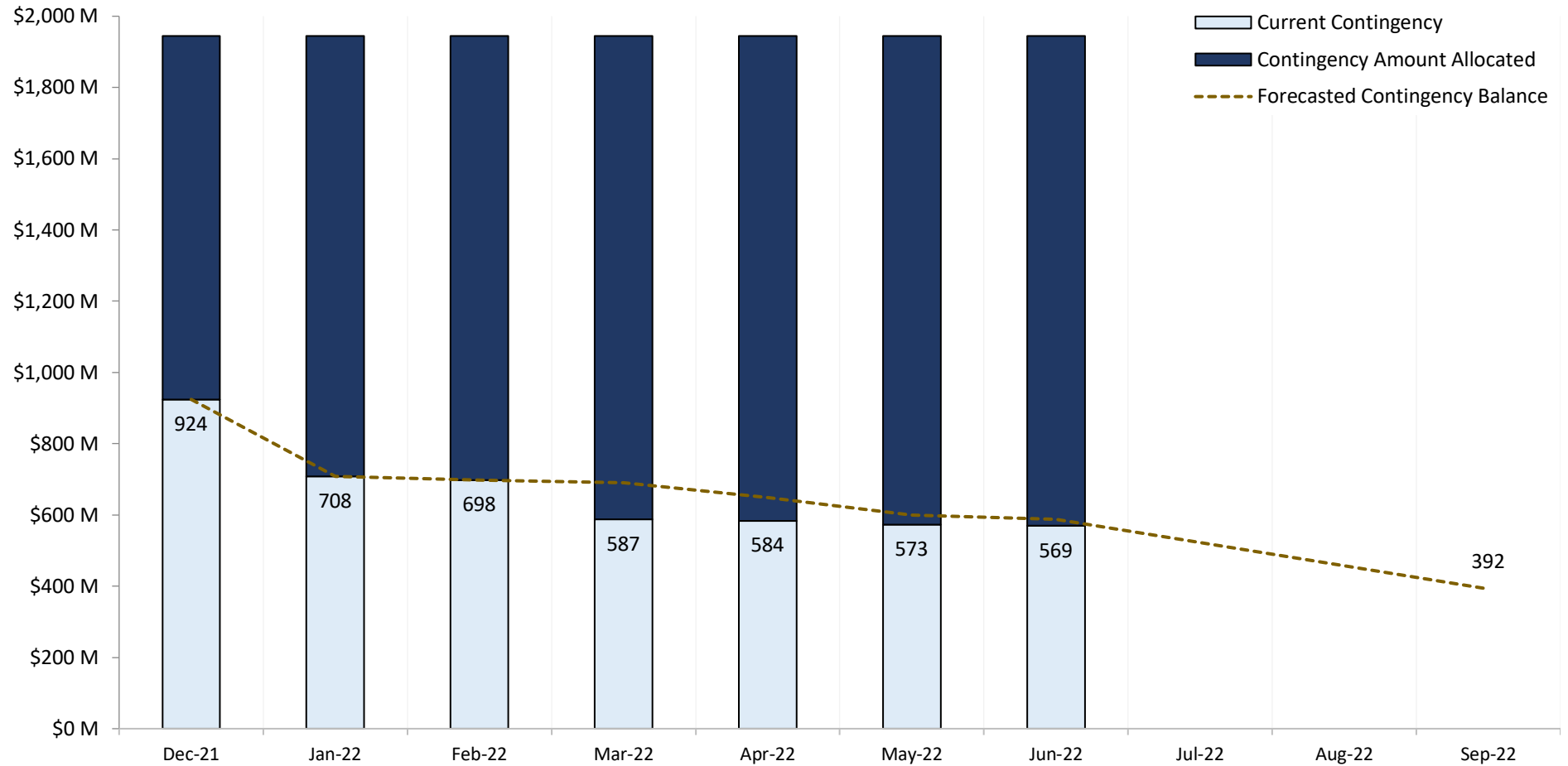
## CP 1 – Change Orders (CO)

### CP 1 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00168.01	PCO 0783 Rev 2 DL-00130 Rev 2, 3 & 4 AR Fence Requirements - Design	Executed	\$169,592.00	06-28-22
00417	DL-184 Service Road to Authority Facility on G Street - Design	Executed	\$418,581.00	06-21-22
00437	Changes to Executed City of Fresno Utility Relocation Agreement from Draft Agreement - Church Sewer - 42" OD Casing and Jack & Bore	Executed	\$1,400,613.00	06-30-22
00438	Changes to Executed City of Fresno Utility Relocation Agreement from Draft Agreement - Church Sewer - 30" OD Casing and Jack & Bore	Executed	\$1,520,505.00	06-30-22
00441	Van Ness Ave Sign Relocation	Executed	\$110,362.00	06-21-22
00442	Additional Design Impacts for Sprint (T5-1) at Tulare Street and Ventura Street - Design	Executed	\$37,435.00	06-30-22
00443	Additional Design Impacts for Sprint (T5-2) at Herndon Avenue - Design	Executed	\$85,623.00	06-30-22
00444	Additional Design Impacts for Sprint (T5-1) at Fresno Street - Design	Executed	\$30,530.00	06-30-22
00445	Additional Design Impacts for Level 3 (T3-20) at Belmont Avenue - Design	Executed	\$13,587.00	06-30-22
00446	Additional Design Impacts for Level 3 (T3-10) at McKinley Avenue and West Avenue - Design	Executed	\$27,950.00	06-30-22
00447	Additional Design Impacts for Level 3 (T3-5) at Fresno Street - Design	Executed	\$32,096.00	06-30-22
00448	Additional Design Impacts for Qwest (T4-4) at Herndon Avenue - Design	Executed	\$69,426.00	06-30-22
00449	Design Refinement of GSB Roadway Width and Water at McKinley Ave - Design	Executed	\$27,571.00	06-29-22
00450	PCO 1014 - Sprint Qwest at Herndon Conflict due to Trucker's Air Material - Design	Executed	\$16,409.00	06-30-22
00451	CPUC Conflict T17-005 at Road 33 - Design	Executed	\$14,616.00	06-30-22
<b>TOTAL</b>			<b>\$3,974,896.00</b>	

## CP 1 – Risk Contingency

### CP 1 – Risk Contingency Status (\$ Millions)



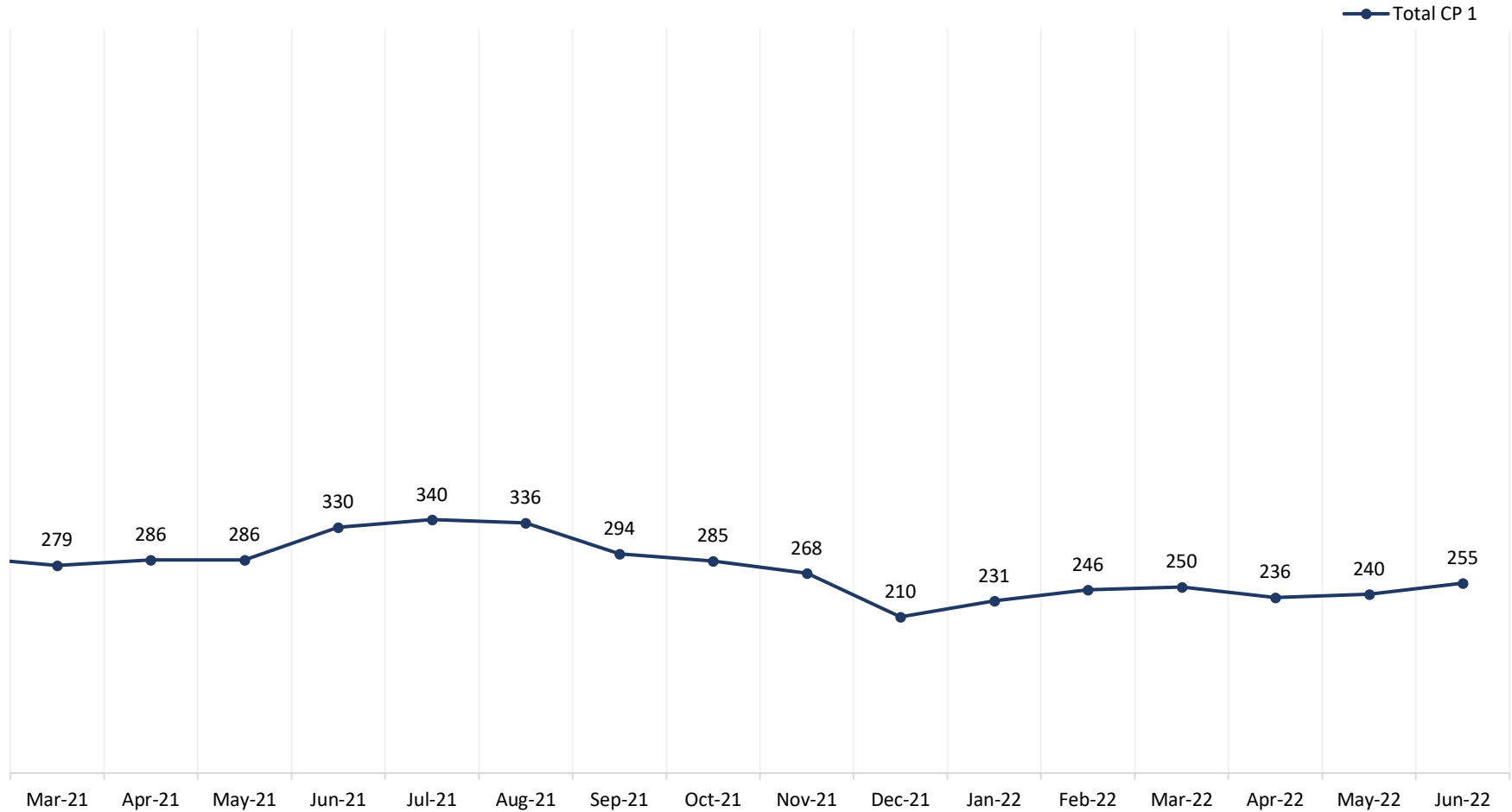
**Notes:**

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)

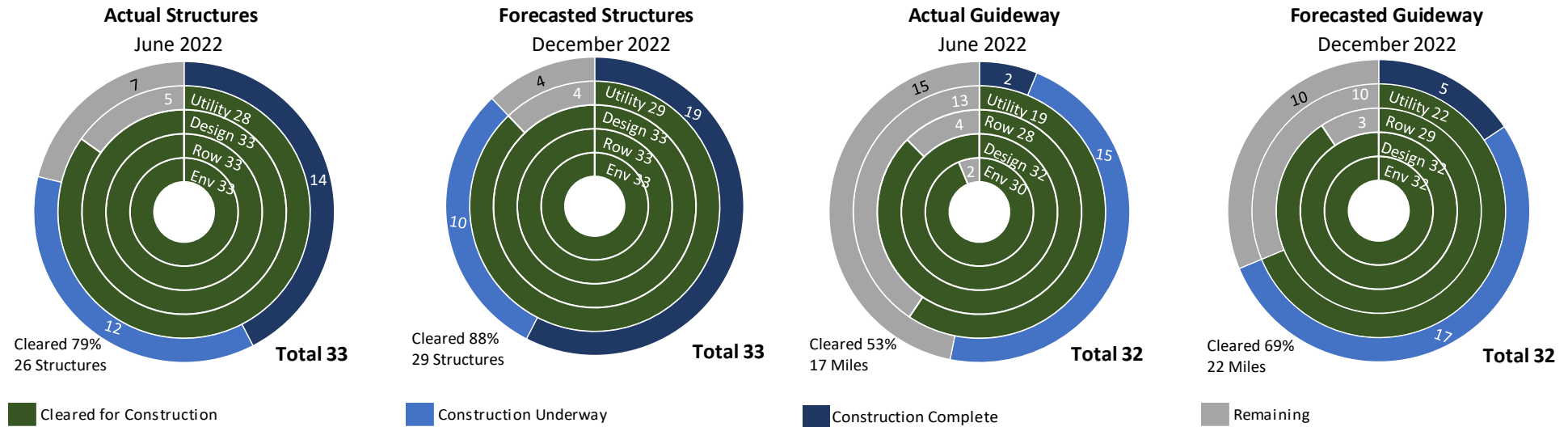


**Notes:**

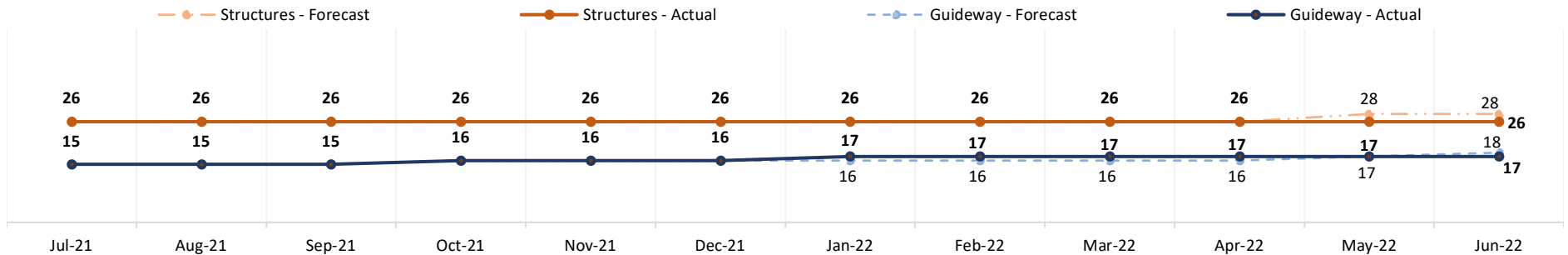
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. An increase of 15 workers from the previous month (240).

# CP 1 – Construction Progress

## CP 1 – Construction Progress



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



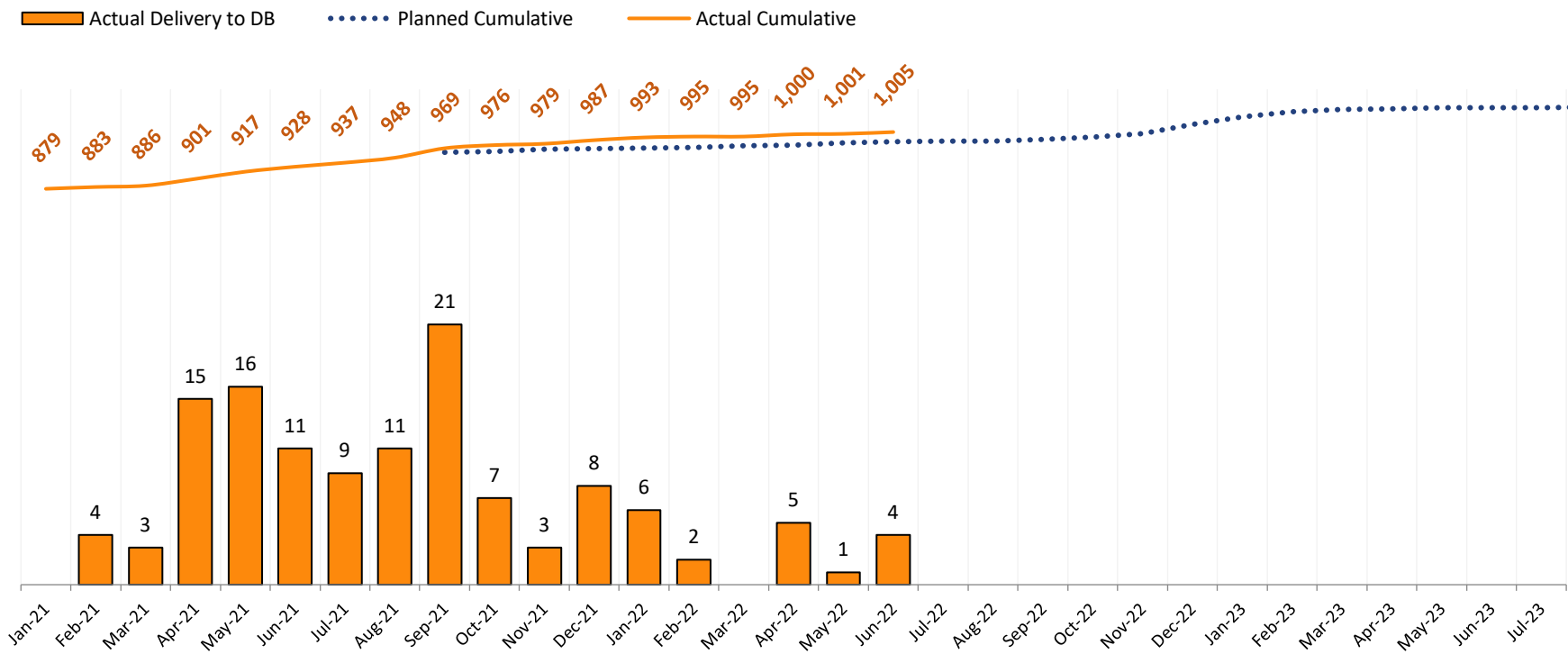
- Notes:**
- The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 3 data pending approval.
  - The line chart above incorporates provisional forecast numbers pending submission and approval of RBS Revision 3.
  - Construction Complete definition:
    - Structure Completion – 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) and Avenue 17 (PG&E).
  - Total Guideway: 32 miles:
    - 17 miles underway/Construction complete. One mile behind the forecast. Jensen Trench is awaiting multiple utility relocations.
  - 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 June 30, 2022	Total Parcels Delivered to Date June 30, 2022	Remaining Parcels to be Delivered June 30, 2022
CP 1	1,079	1,005	74

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



**Notes:**

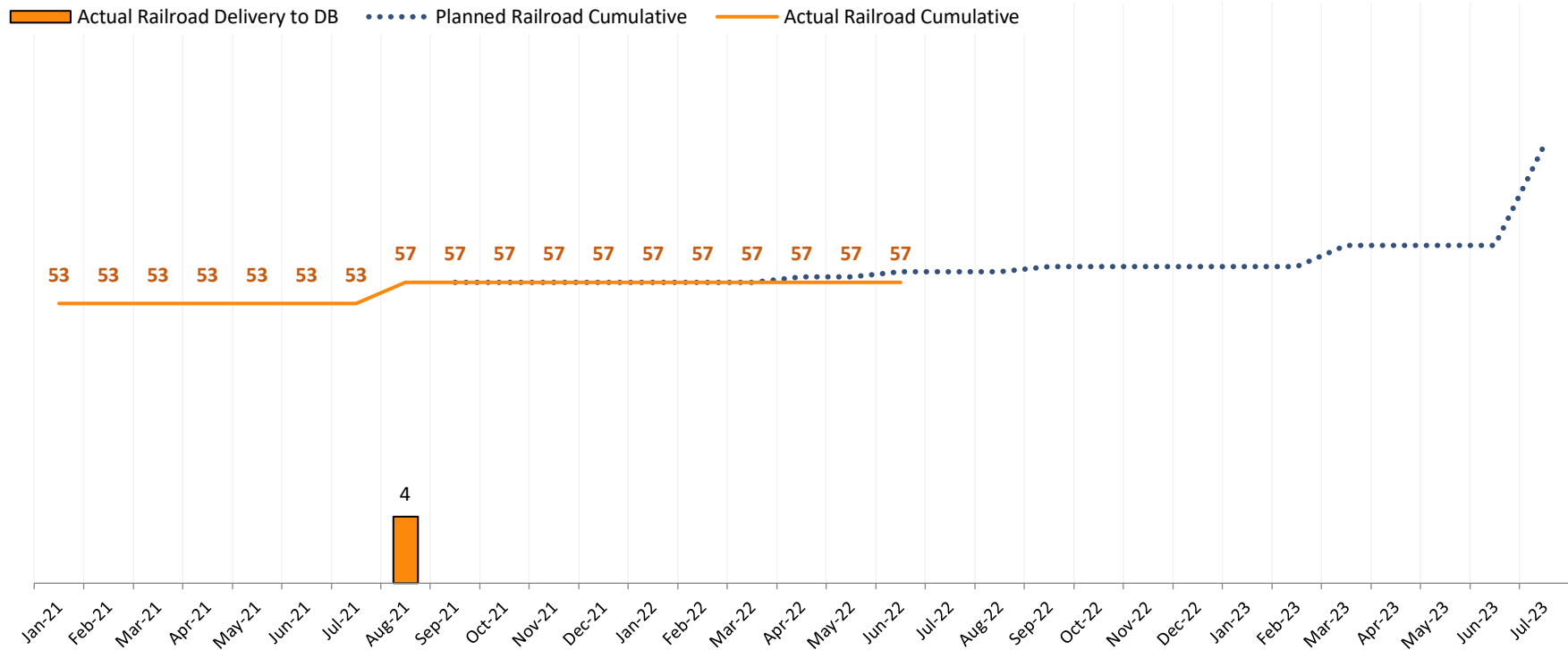
1. This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedules (RBS) Revision 3.

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

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

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

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



**Note:**

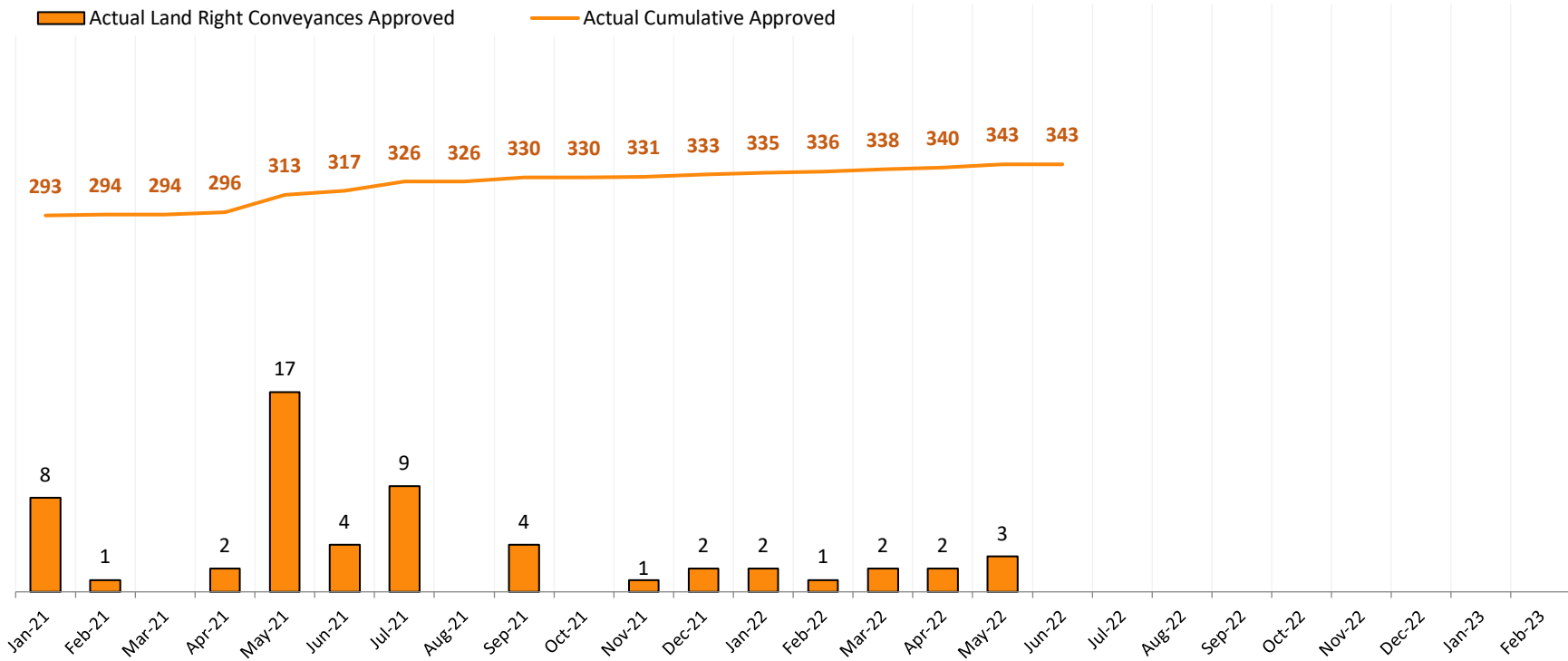
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Two Railroad parcel delivery dates are being reforecast, not impacting the critical path.

## 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 June 30, 2022	Total Land Right Conveyances Approved <sup>(2)</sup> to Date June 30, 2022	Remaining Land Right Conveyances to be Approved June 30, 2022
CP 1	393	343	50

### 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<sup>(1)</sup>

### 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 <sup>(2)</sup> :	03/06/2024
<b>Current Forecast Construction Completion Date<sup>(3)</sup>:</b>	<b>12/31/2023</b>

### Contract Value

Description	Amount
Fixed Bid Price:	\$1,205,335,890.00
Provisional Sums:	\$160,000,000.00
Original Contract Price:	\$1,365,335,890.00
Executed Change Orders:	\$1,060,632,121.42
Current Contract Amount:	\$2,425,968,011.42
Approved Invoices to Date:	\$1,620,204,906.14
<b>Remaining Contract Balance:</b>	<b>\$805,763,105.28</b>

### 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 06/30/2022):	2,532

### Expended to Date Percentage

Description	Percentage
Time:	82.2%
Dollars:	66.8%

### Growth Percentage

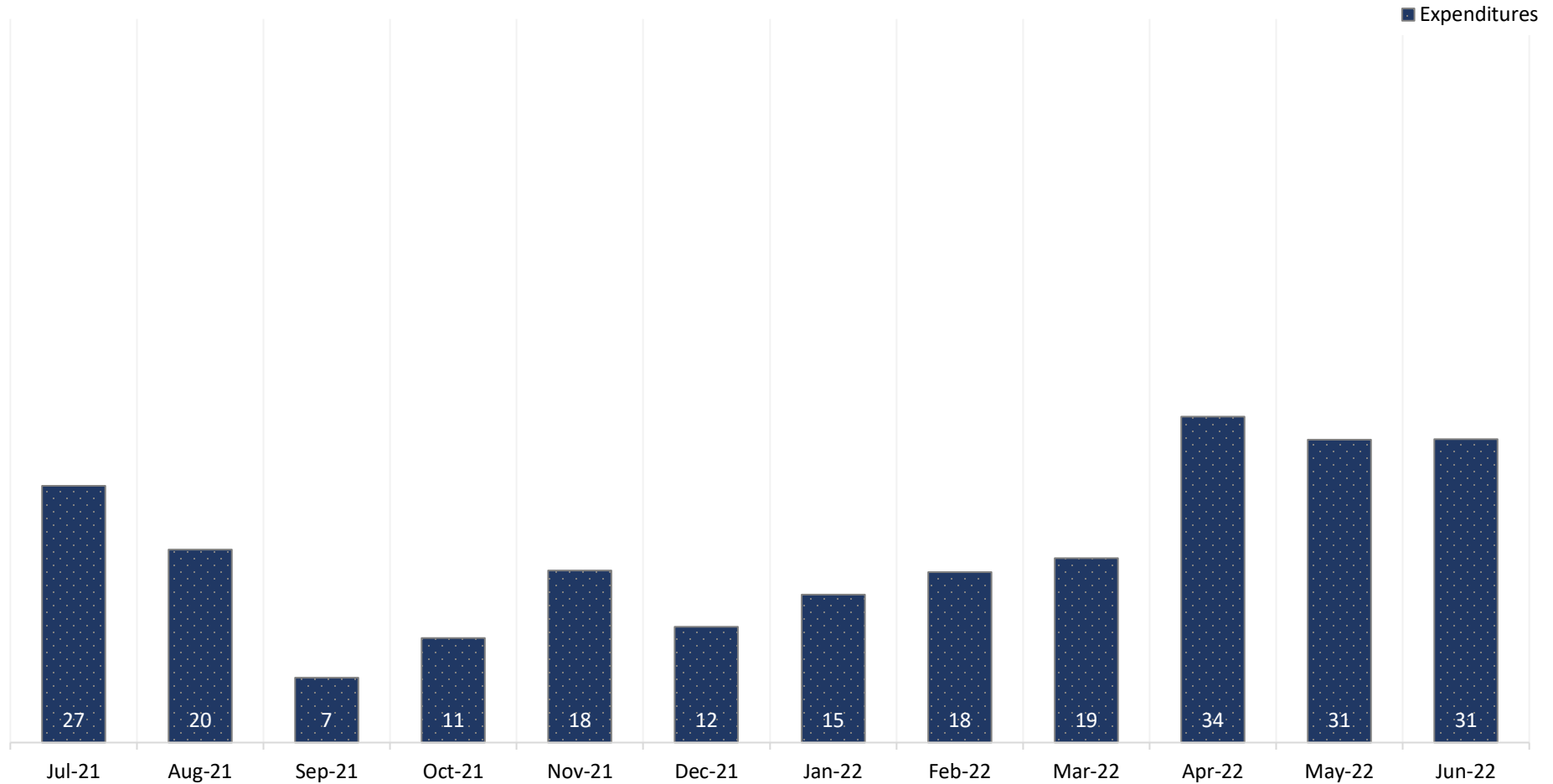
Description	Percentage
Time:	107.3%
Dollars:	77.7%

### 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 \$31.4M.

## CP 2-3 – Change Orders (CO)

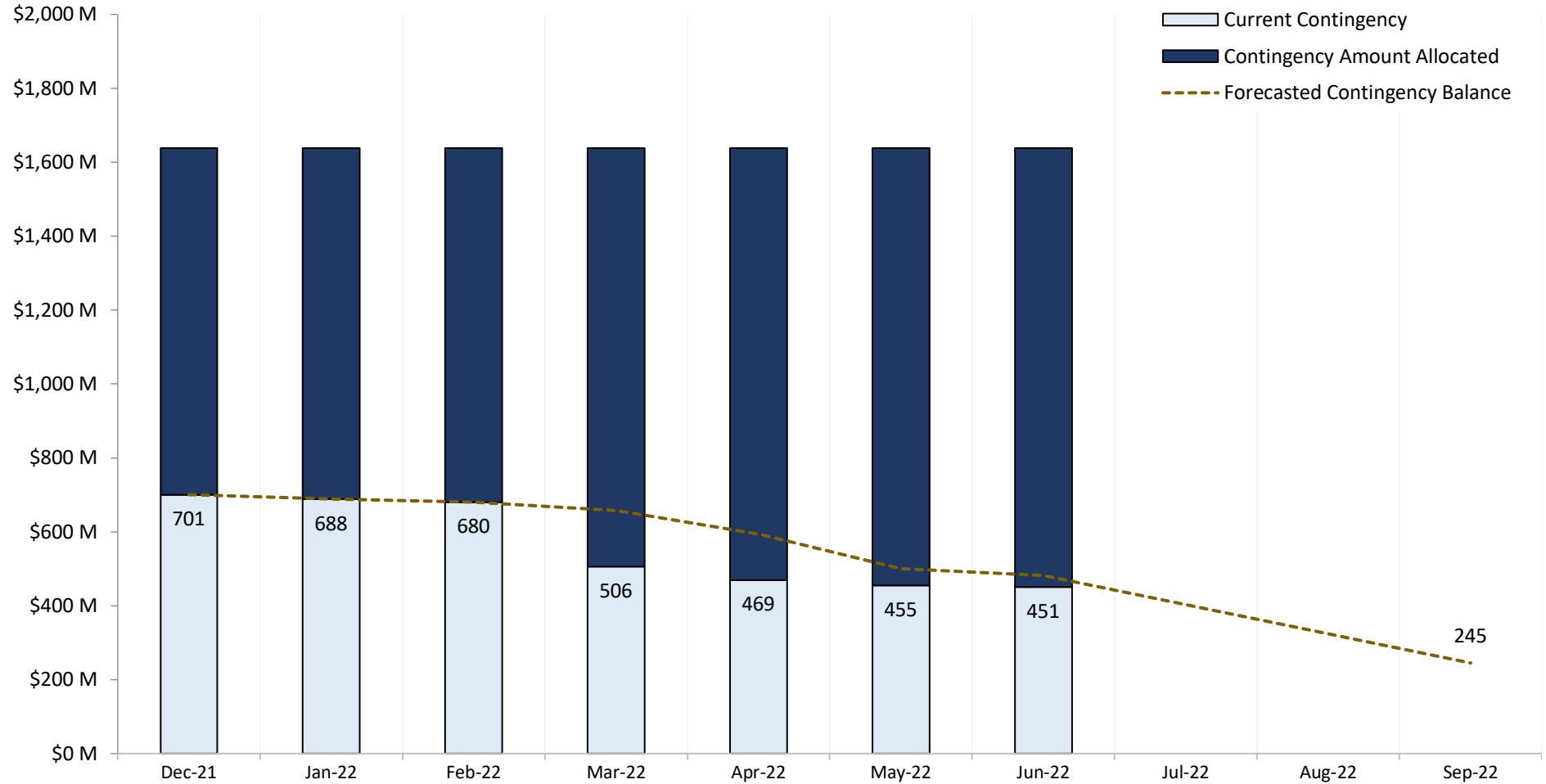
### CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
00302	Hanford Viaduct Over SJVR Design Resubmittals - Design Only	Executed	\$113,983.00	06-22-22
00319	Additional Fresno County Concurrent Roadway Closure Fee at Adams/South	Executed	\$743,700.00	06-17-22
00298	CalTrans 2018 Specifications - DESIGN ONLY	Executed	\$20,091.00	06-09-22
00301	BNSF Conejo Siding Revisions - DESIGN ONLY	Executed	\$668,750.00	06-09-22
00320	Additional Material Hauling-Whitley Ave. to Curved Bridge	Executed	\$200,000.00	06-09-22
00268.2	Jacobs Delay Impacts – Category 1 – Group Delta Consultants	Executed	\$296,754.00	06-09-22
00307	Harlan Stevens Winery, Wristen Ditch Jack and Bore Design, and South Avenue	Executed	\$218,137.00	06-09-22
00045.31	Escalation Costs - March 2022	Executed	\$699,989.00	06-09-22
00259	Coopers Ditch Redesign - DESIGN ONLY	Executed	\$102,348.00	06-09-22
00314	Design and Relocate Lumen Fiber Optic Utility Near FID	Executed	\$916,218.00	06-09-22
<b>TOTAL</b>			<b>\$3,979,970.00</b>	



## CP 2-3 – Risk Contingency

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

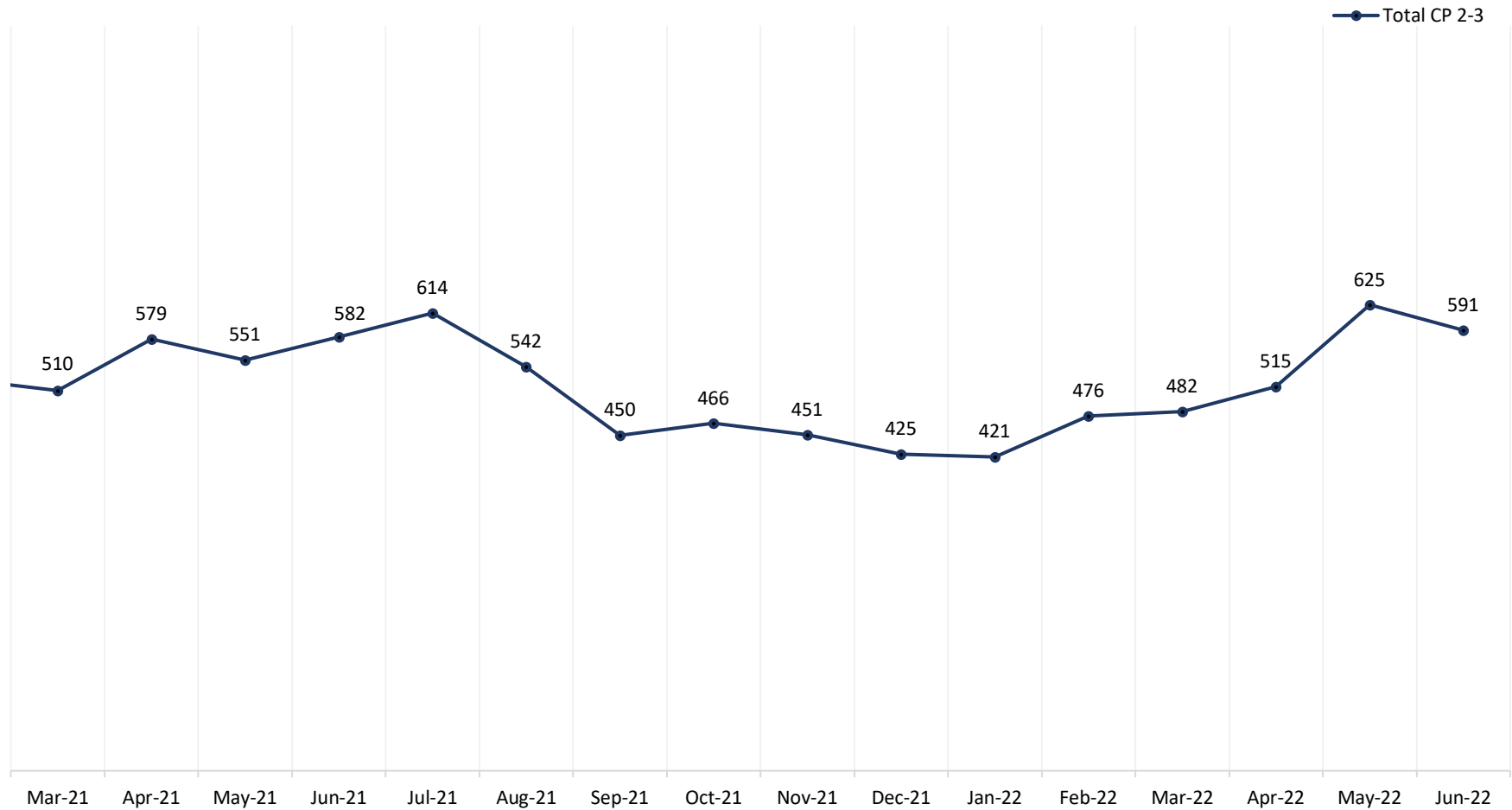


**Notes:**

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)

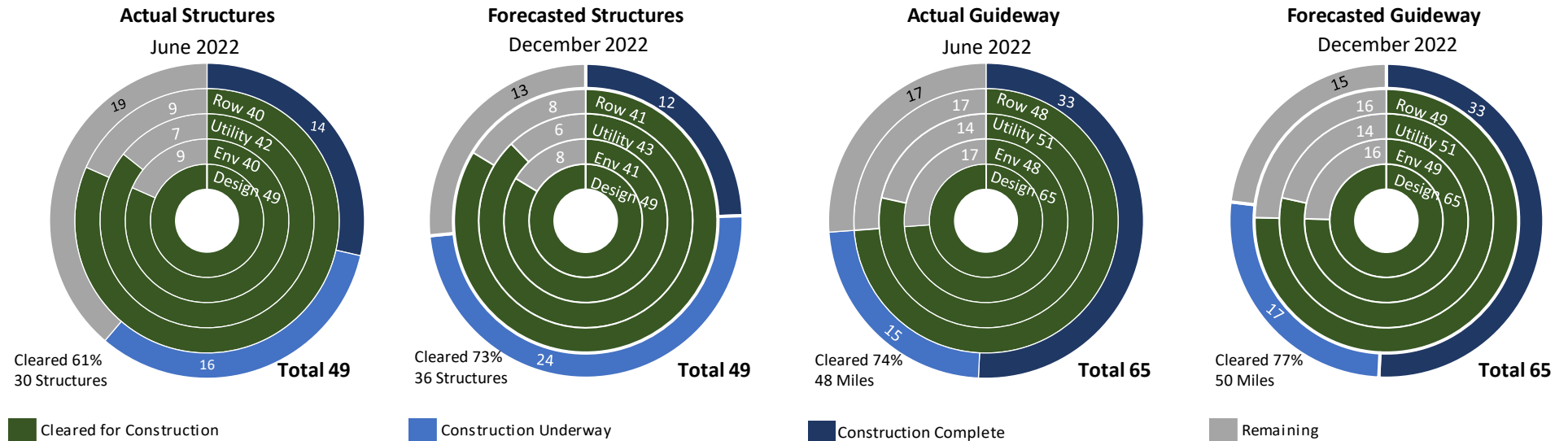


**Notes:**

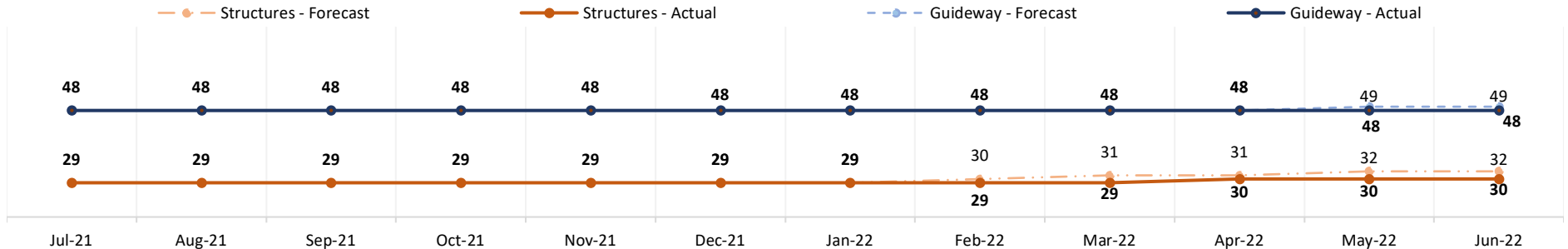
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. A decrease of 34 workers from the previous month (625).

# 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 and Alpaugh Allensworth Atwell Trails (AAAT) awaiting environmental incidental take permit (ITP) to be issued.
  - Total Guideway: 65 miles:
    - 48 miles underway/Construction complete. The one mile behind is south of Dutch John, designs completed in June 2022.
  - 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.

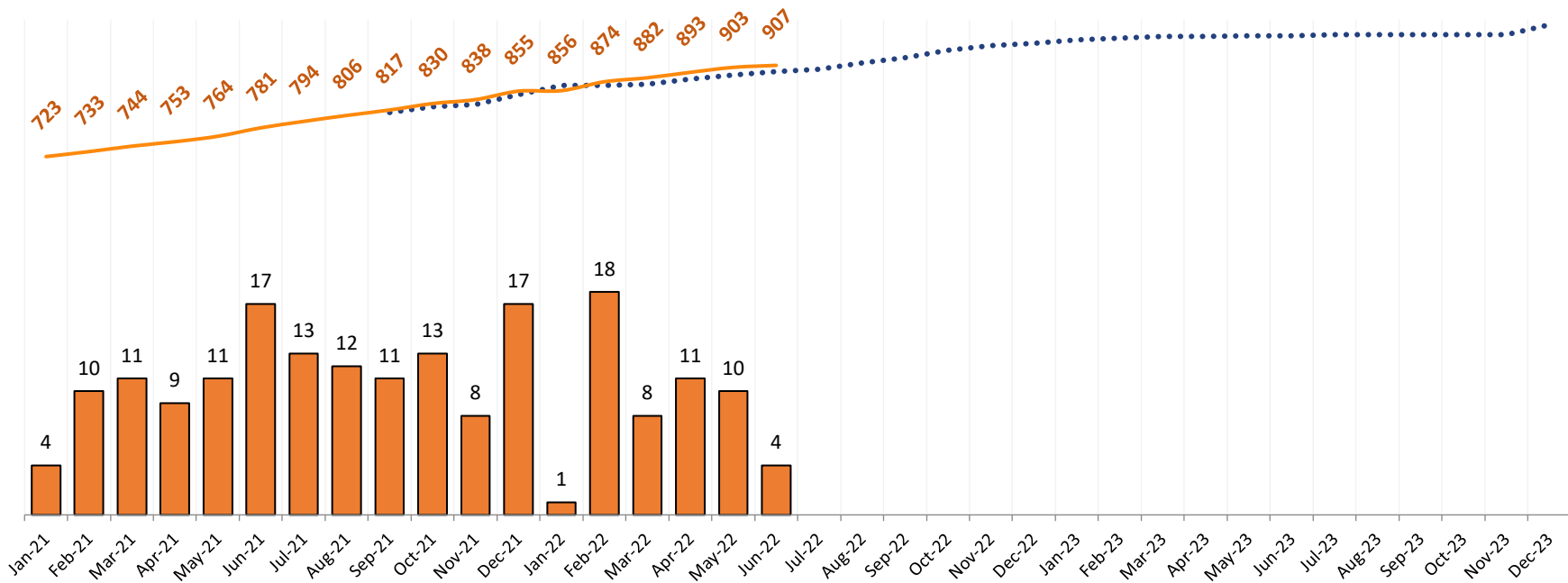
## CP 2-3 – Real Property/Right-of-Way (ROW)

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

Construction Package	Total Needed Parcels June 30, 2022	Total Parcels Delivered to Date June 30, 2022	Remaining Parcels to be Delivered June 30, 2022
CP 2-3	990	907	83

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

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



**Notes:**

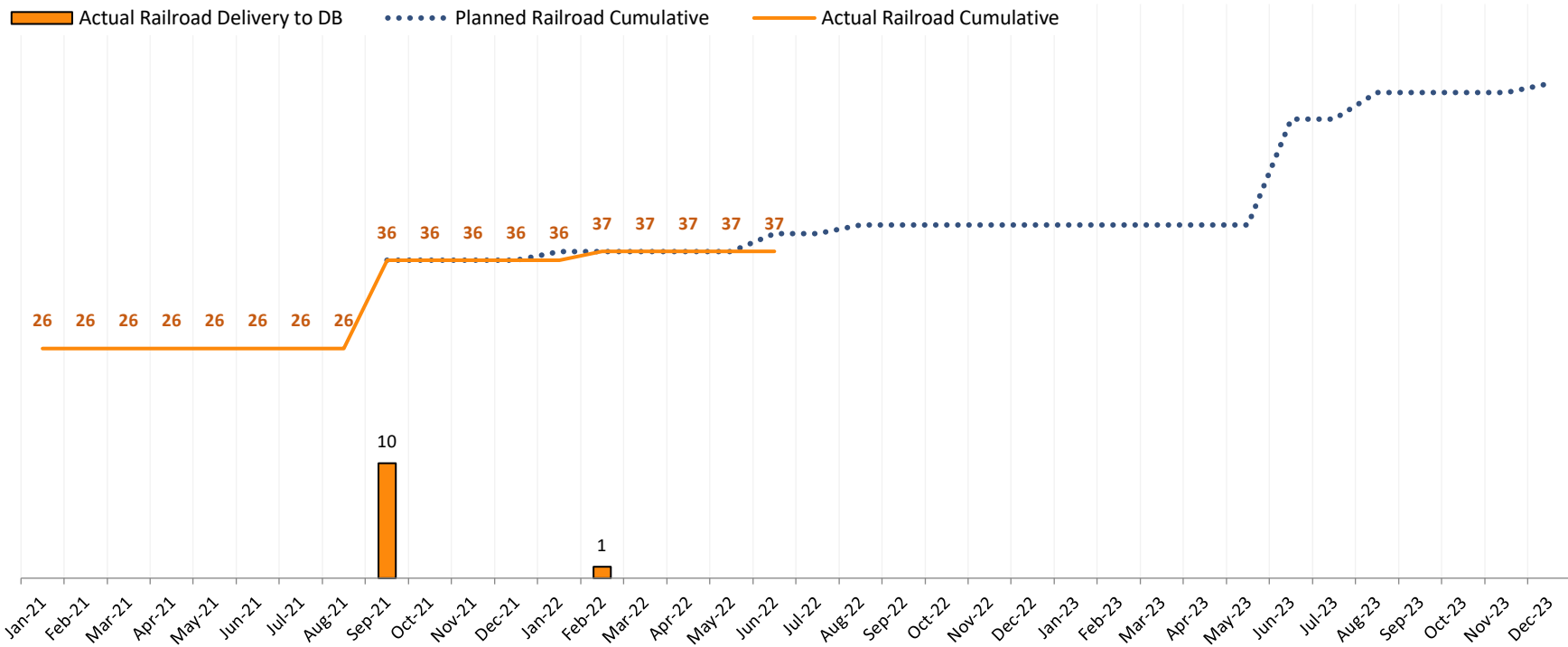
- This reflects the actual parcels delivered to the Design-Builder by month and projection based on the Revised Baseline Schedule (RBS) Revision 3.

## 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 June 30, 2022	Total Railroad Parcels Delivered to Date June 30, 2022	Remaining Railroad Parcels to be Delivered June 30, 2022
CP 2-3	56	37	19

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



**Notes:**

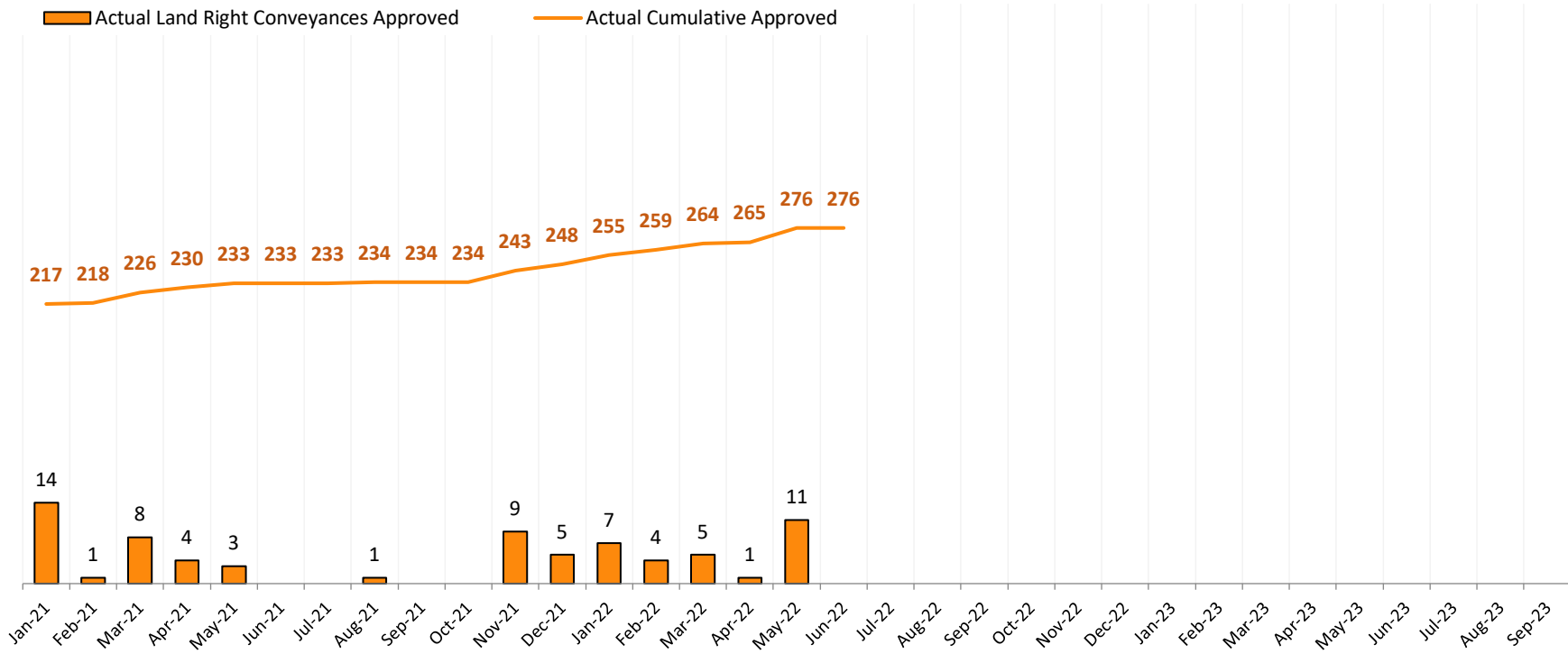
1. The Planned Cumulative line for Railroad Parcel Delivery reflects Revised Baseline Schedule (RBS) Revision 3.
2. Two Railroad parcel delivery dates are being reforecast, not impacting the critical path.

## 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 June 30, 2022	Total Land Right Conveyances Approved <sup>(2)</sup> to Date June 30, 2022	Remaining Land Right Conveyances to be Approved June 30, 2022
CP 2-3	433	276	157

### 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<sup>(1)</sup>

### 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 <sup>(2)</sup> :	05/03/2023
<b>Current Forecast Construction Completion Date<sup>(3)</sup>:</b>	<b>03/01/2023</b>

### Contract Value

Description	Amount
Fixed Bid Price:	\$337,247,000.00
Provisional Sums:	\$107,000,000.00
Original Contract Price:	\$444,247,000.00
Executed Change Orders:	\$262,504,889.15
Current Contract Amount:	\$706,751,889.15
Approved Invoices to Date:	\$569,672,485.10
<b>Remaining Contract Balance:</b>	<b>\$137,079,404.05</b>

### 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 06/30/2022):	2,267

### Expended to Date

Description	Percentage
Time:	90.3%
Dollars:	80.6%

### Growth Percentage

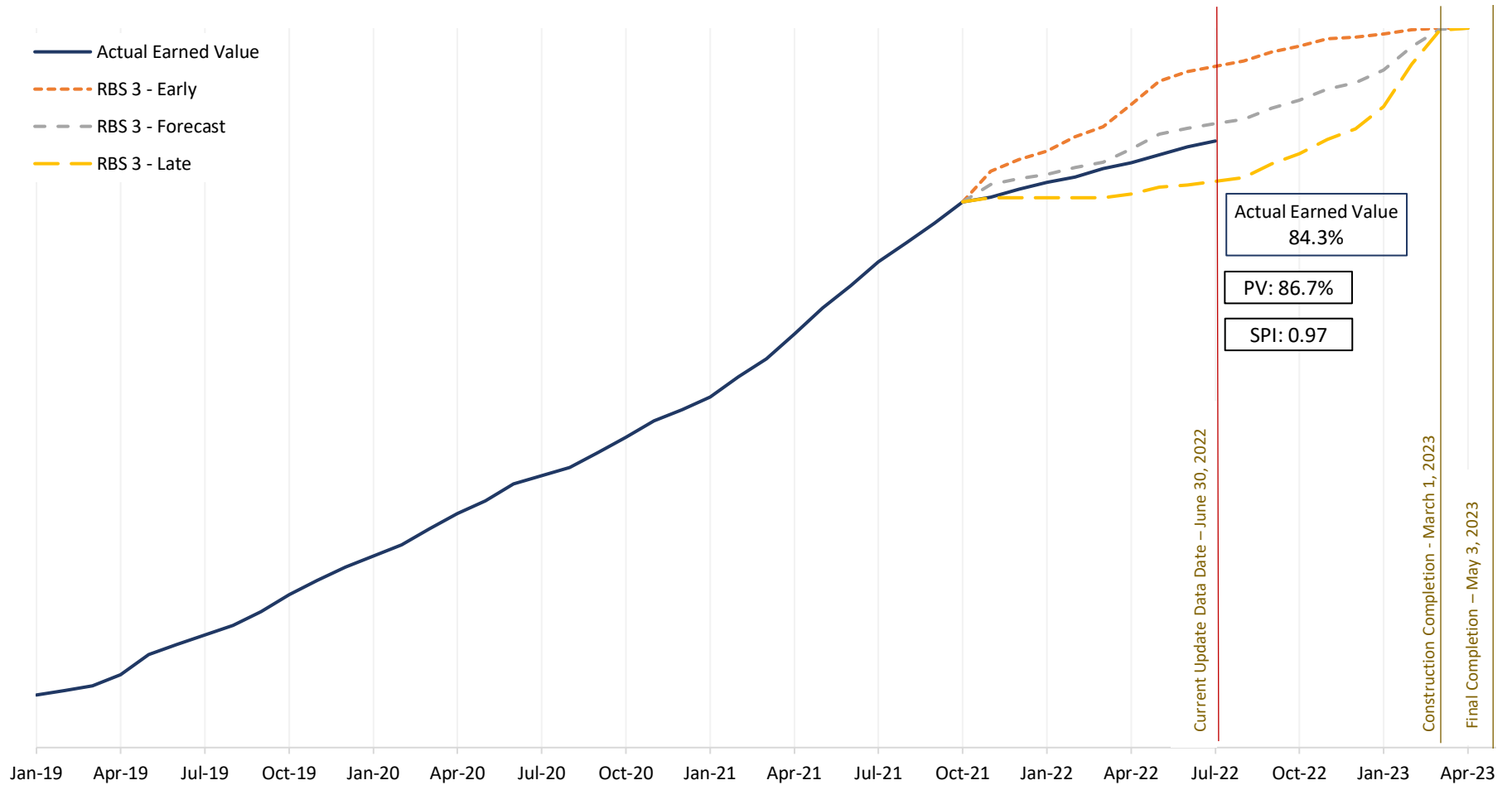
Description	Percentage
Time:	119.5%
Dollars:	59.1%

### 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.
- 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 (%)



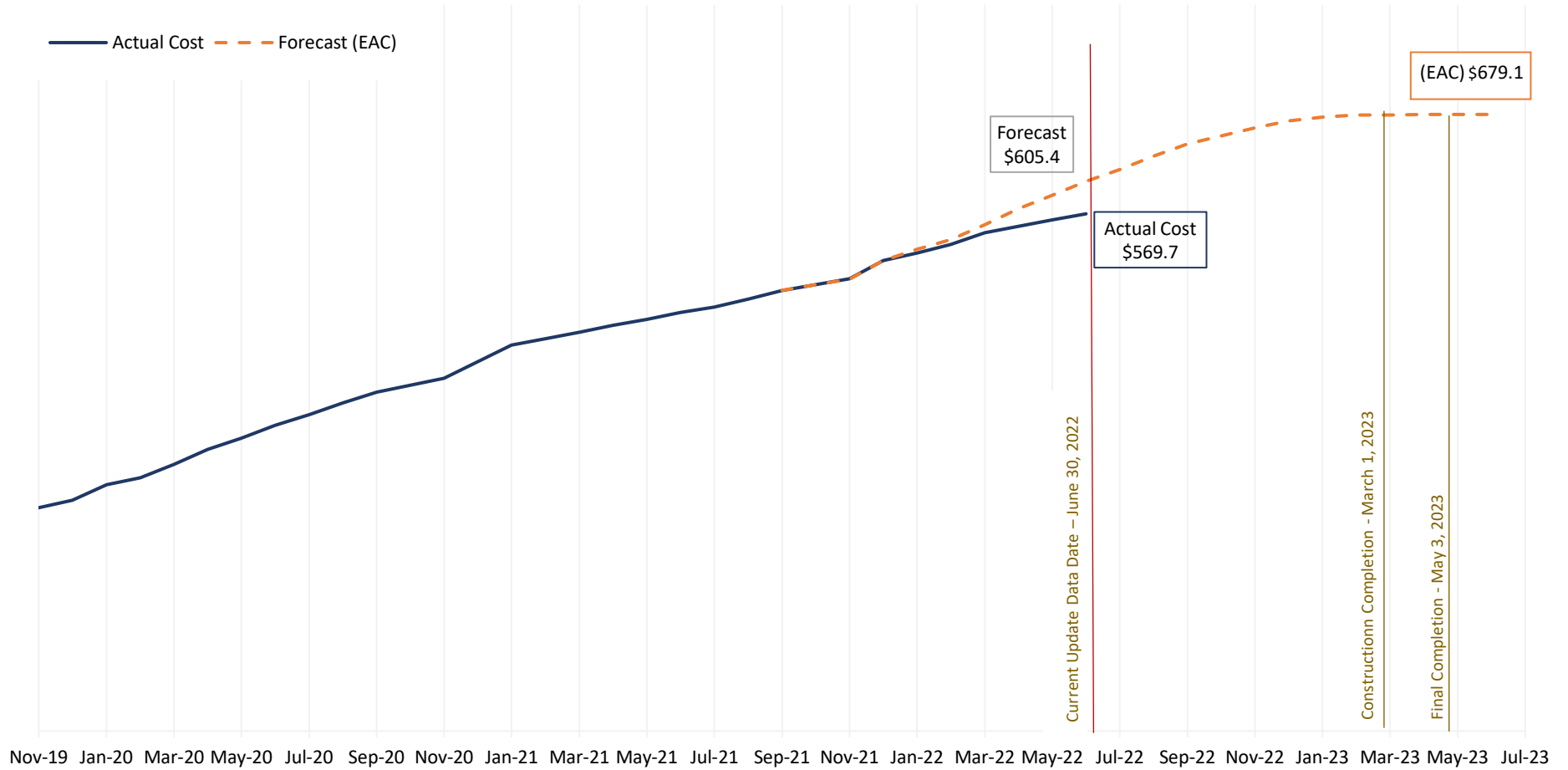
**Notes:**

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 June 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)

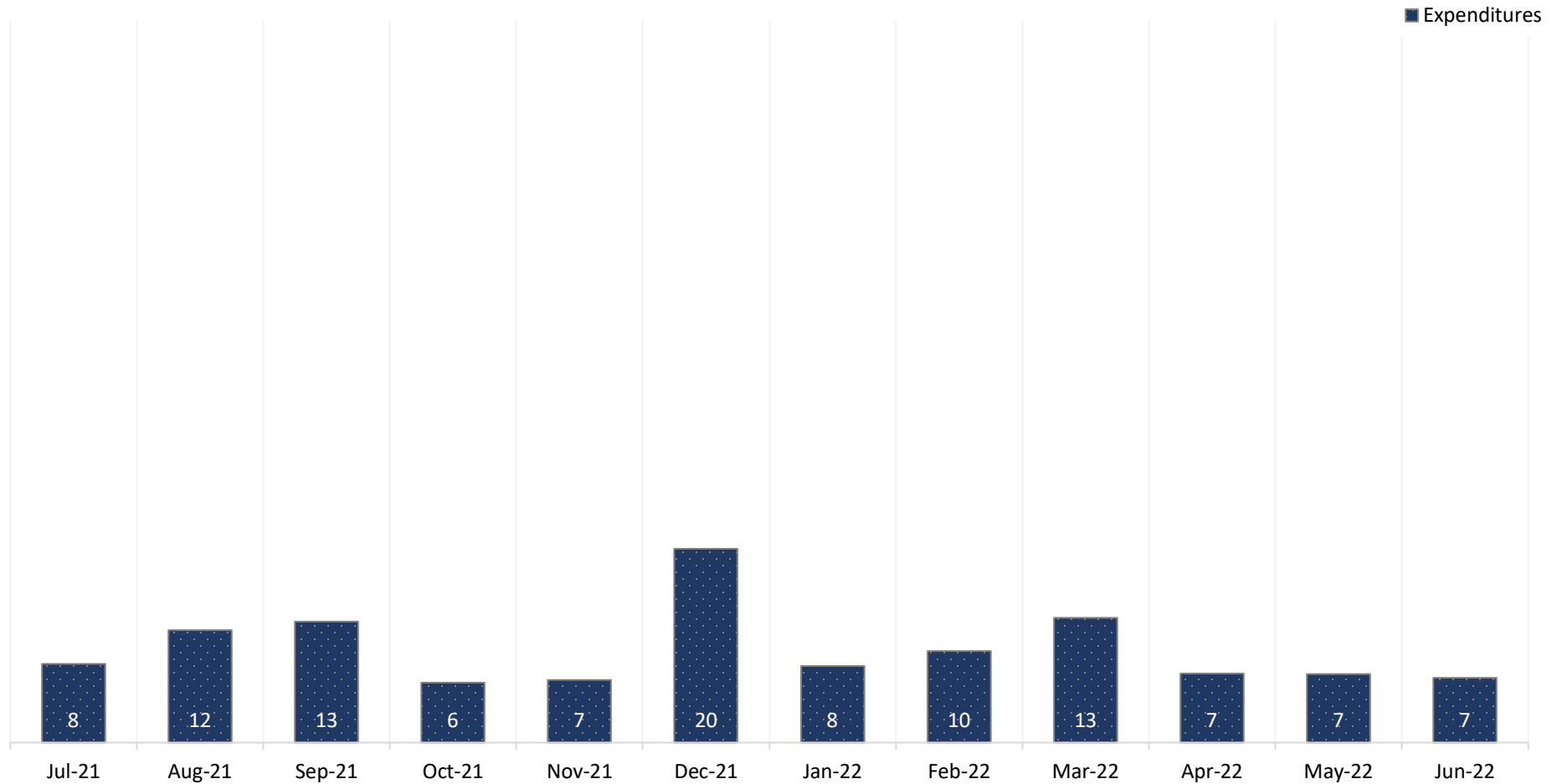


**Notes:**

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.

## 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 \$6.7M.

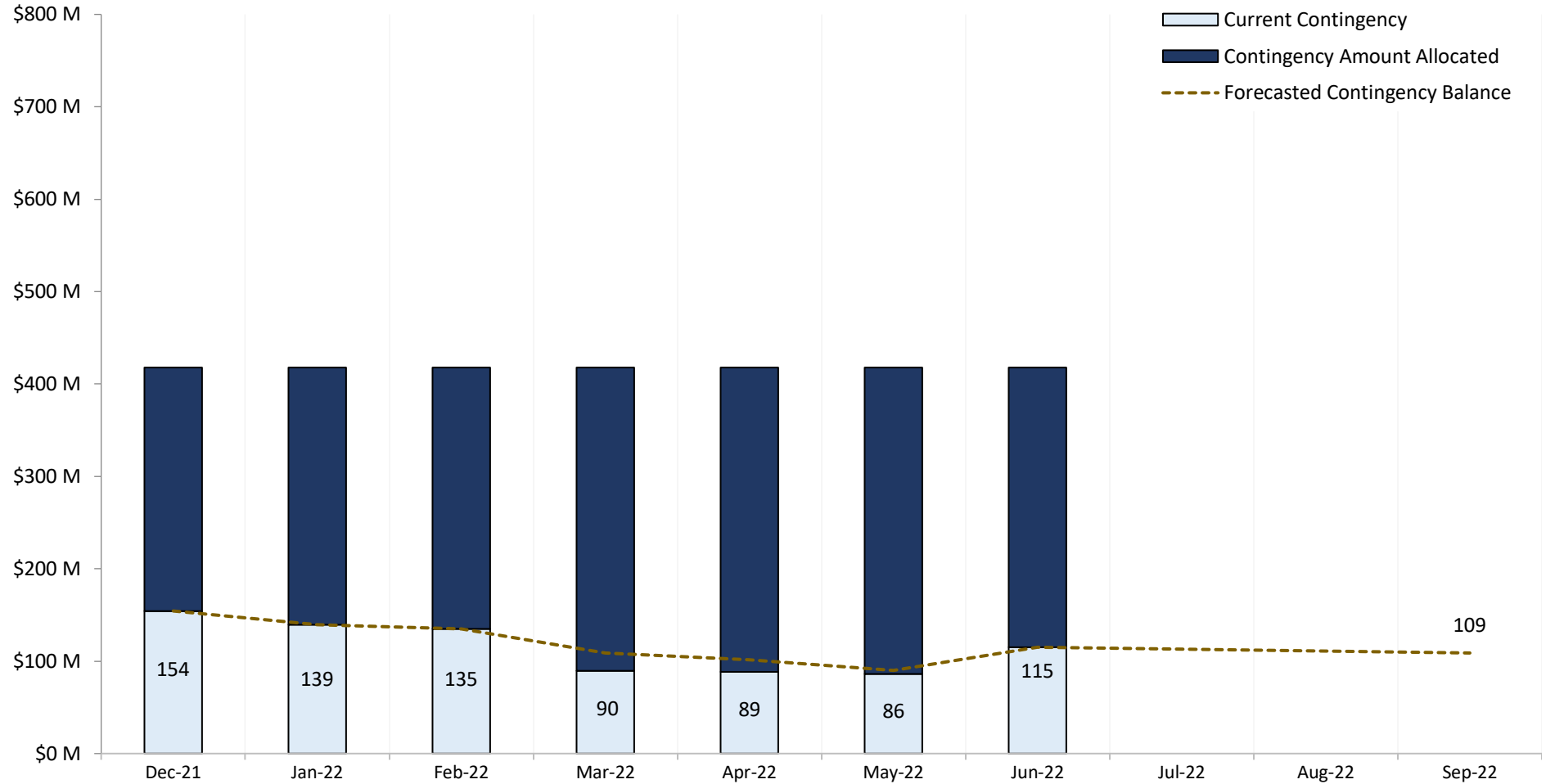
## CP 4 – Change Orders (CO)

### CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
67.1	Extension of Daily Sanitizing Porter Services	Executed	\$57,780.00	06-30-22
136	NKWSD Canal 9-22 Design Costs	Executed	\$115,029.26	06-10-22
137	OCS Structural Connection to Type 1 Aerial Structures	Executed	\$665,890.30	06-30-22
140	Semitropic Facilities' Design Costs	Executed	\$765,534.16	06-20-22
143	Drilling Crew Standby Costs at Poso Ave	Executed	\$216,744.70	06-30-22
148	CN-00093 City of Wasco Unidentified Conflict	Executed	\$57,175.70	06-30-22
<b>TOTAL</b>			<b>\$1,878,154.12</b>	

## CP 4 – Risk Contingency

### CP 4 – Risk Contingency Status (\$ Millions)

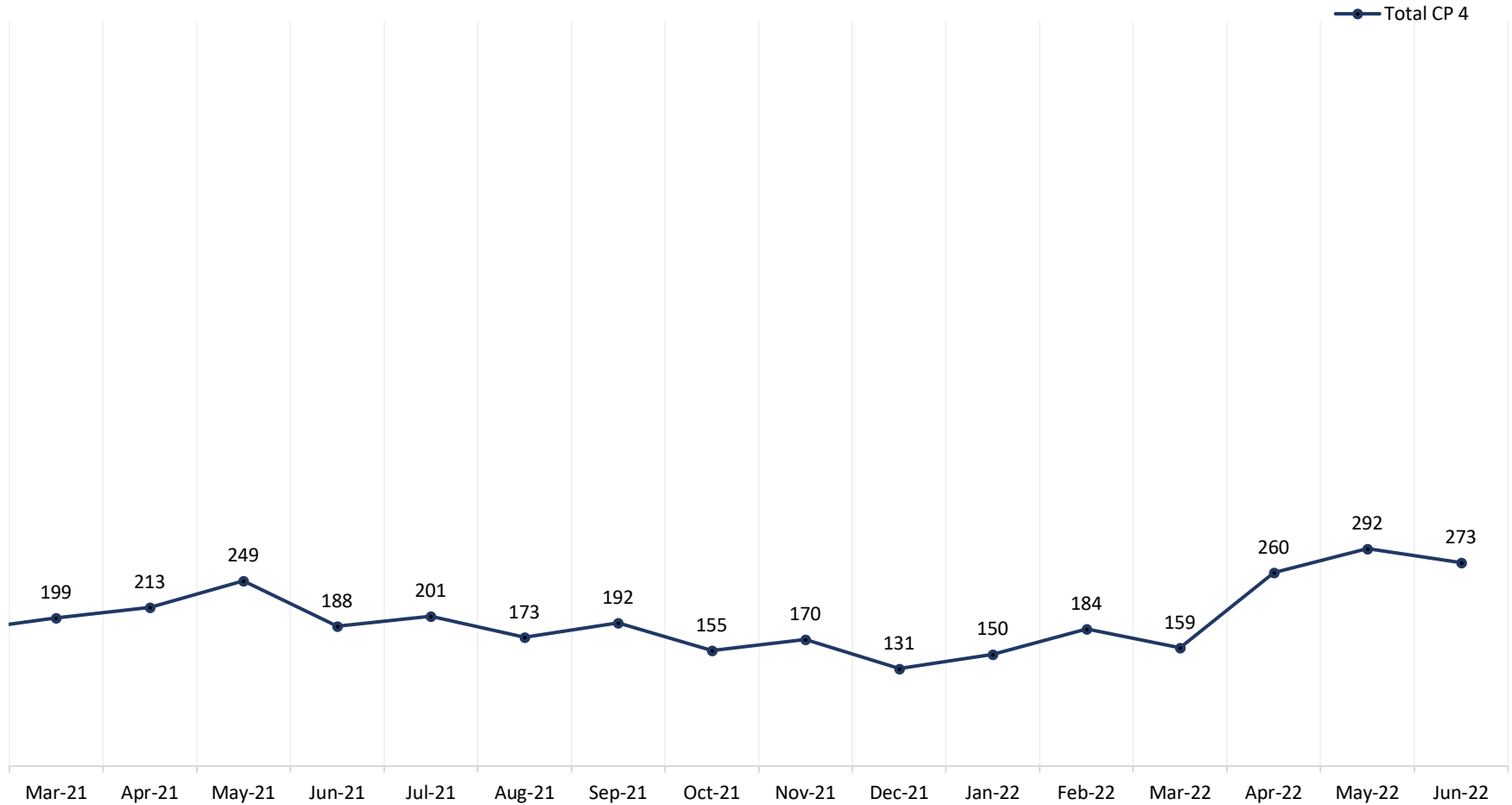


**Notes:**

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

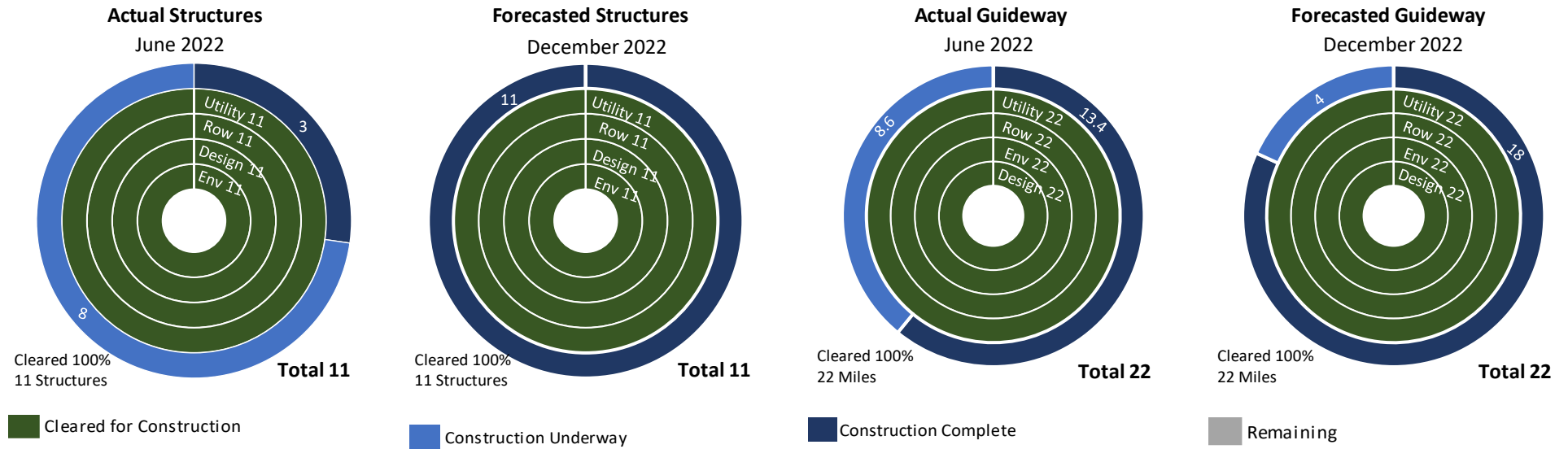
### CP 4 – Monthly Construction Workforce Total – Actual (FTE)



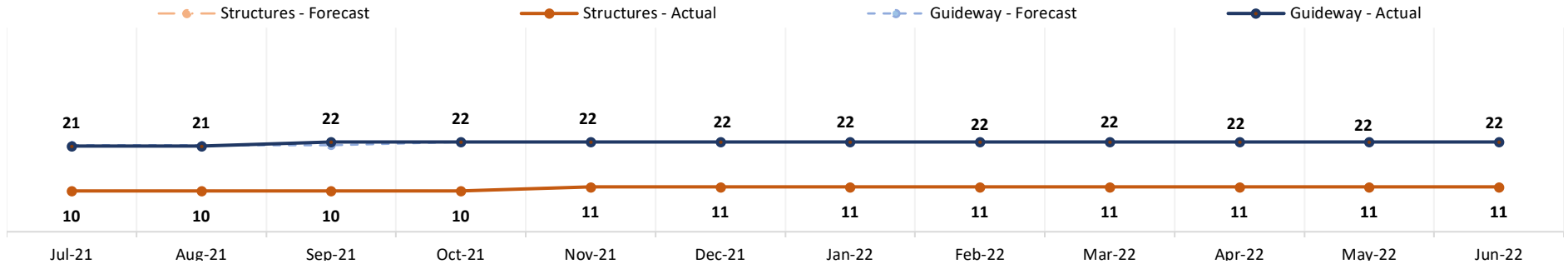
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
  2. A decrease of 19 workers from the previous month (292).

# 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.

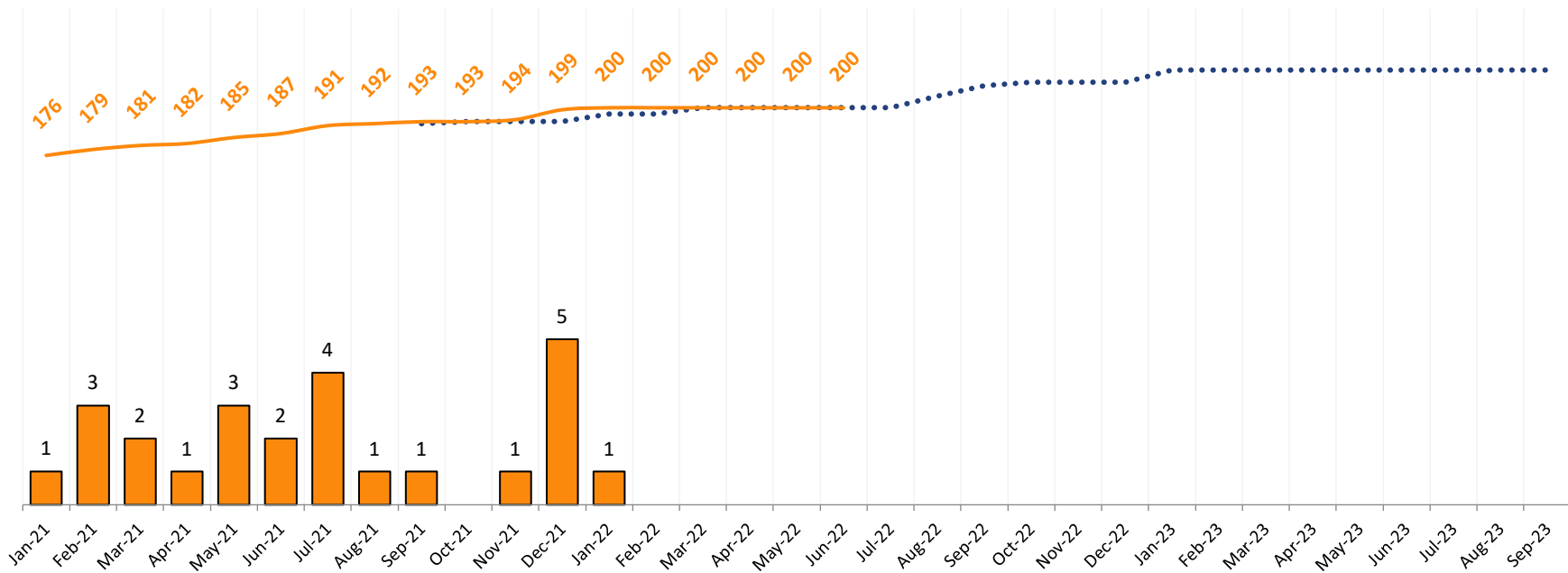
## CP 4 – Real Property/Right-of-Way (ROW)

### CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels June 30, 2022	Total Parcels Delivered to Date June 30, 2022	Remaining Parcels to be Delivered June 30, 2022
CP 4	240	200	40

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

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



**Notes:**

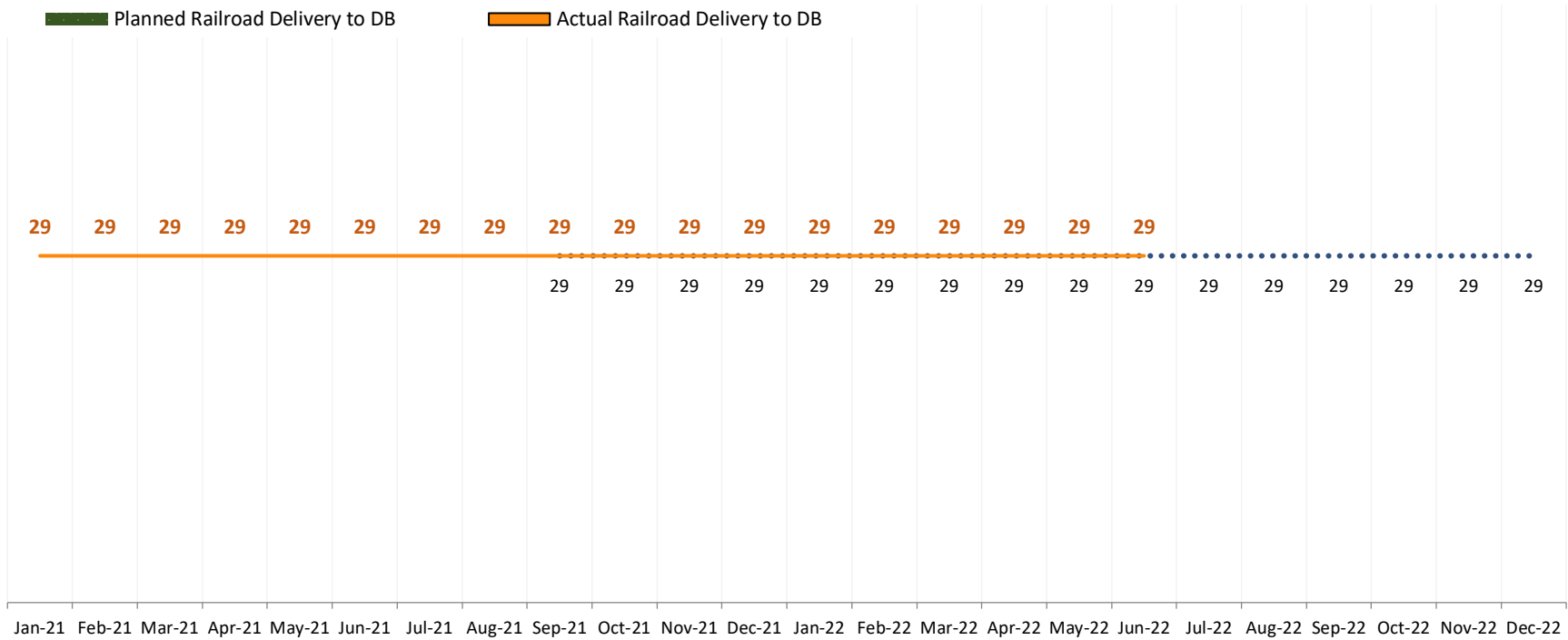
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

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

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

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

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



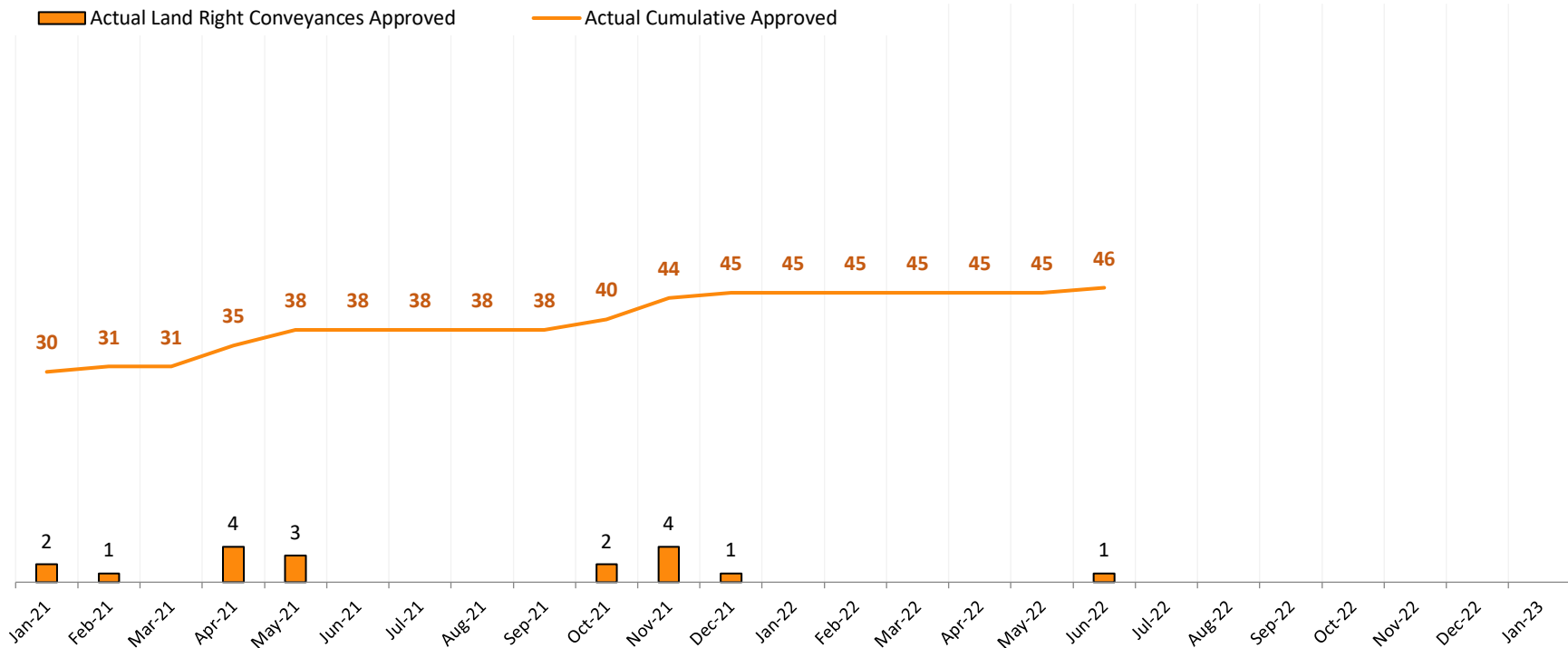


## CP 4 – Tier 1 Land Right Conveyances Required Prior to Construction (PG&E, SCE, FID, FMFCD)

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

Construction Package	Total Needed Land Right Conveyances June 30, 2022	Total Land Right Conveyances Approved <sup>(2)</sup> to Date June 30, 2022	Remaining Land Right Conveyances to be Approved June 30, 2022
CP 4	88	46	42

### 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	
<b>Document Complete</b>	Merced to Fresno	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	Fresno to Bakersfield	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	CV Electrical Interconnections	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	Locally Generated Alternative (F-B)	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	Central Valley Wye (M-F)	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	Bakersfield to Palmdale	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	Burbank to Los Angeles	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	
<b>Document Complete</b>	San Jose to Merced <sup>4</sup>	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 <sup>4</sup> 100%	Complete Complete 100%	Complete Complete 100%	
<b>1</b>	San Francisco to San Jose <sup>3</sup>	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%	Aug-22 Aug-22 95%	Aug-22 Aug-22 <sup>3</sup> 97%	Aug-22	Aug-22
<b>2</b>	Los Angeles to Anaheim	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	May-23 May 23 80%	May-23 May-23 82%	Jun-24 Jun-24 0%	Jun-24 Jun-24 <sup>1</sup> 0%	Jun-24	Jun-24	
<b>3</b>	Palmdale to Burbank	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Aug-22 Aug-22 99%	Aug-22 Sep-22 <sup>2</sup> 99%	Sep-23 Sep-23 0%	Sep-23 Oct-23 0%	Sep-23	Oct-23	
<b>4</b>	HMF	Plan Forecast % Complete	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Complete Complete 100%	Apr-16 TBD 0%	Apr-16 TBD 0%	Sep-16 TBD 0%	Sep-16 TBD 0%	Feb-21 TBD 0%	Feb-21 TBD 0%	TBD	TBD	

- Notes:**
- 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.
  - 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.
  - San Francisco to San Jose Final EIR/EIS published on June 10, 2022.
  - The High-Speed Rail Authority Board of Directors approved the San Jose to Merced Final EIR/EIS on April 28, 2022. Final ROD signed by CEO on 1 June, 2022 following California Environmental Quality Act (CEQA) 30-day statute of limitations.

## Project Development – Key Actions

### Project Development – Key Actions Summary

Project Section	Key Actions
<b>San Francisco to San Jose</b>	<p>Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) was published on June 10, 2022.</p> <p>Federal Railroad Administration (FRA) forwarded one comment letter on the Draft General Conformity Determination (GCD) to the Authority on June 21, 2022. The Authority will respond to the comment and provide the Final GCD for publication in early August 2022.</p> <p>State Historic Preservation Office (SHPO) signed the Section 106 Memorandum of Agreement on June 23, 2022</p>
<b>San Jose to Merced</b>	<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. First batch submitted of reference materials on June 24, 2022.</p>
<b>Central Valley Wye</b>	<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>
<b>Locally Generated Alternative</b>	<p>Permitting for the Locally Generated Alternative will progress following Board action on the Merced and Bakersfield extensions.</p>
<b>Bakersfield to Palmdale</b>	<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>
<b>Palmdale to Burbank</b>	<p>Validation of updated capital costs for all six project alternatives is ongoing. On June 13, 2022, executive management selected a scheduled release date for the Draft EIR/EIS of September 2, 2022.</p>
<b>Burbank to Los Angeles</b>	<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>
<b>Los Angeles to Anaheim</b>	<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>