



Finance & Audit Committee

CENTRAL VALLEY STATUS REPORT

November 2nd, 2023 Report (data through August 2023)

Executive Summary

Construction Packages (CP) Design-Build Expenditures ([Page 4](#))

- August 2023 Expenditures totaled \$183.7M:
 - Construction Package 1 (Page 13) - Expenditures totaled \$67.1M.
 - Construction Package 2-3 (Page 22) - Expenditures totaled \$94.2M.
 - Construction Package 4 (Page 32) - Expenditures totaled \$22.3M.
- Total CP Cumulative Actual Expenditures (Pages 12, 21, and 30) – \$5,118.5M.
- Total Cumulative Current Contract Amount (Pages 12, 21, and 30) – \$7,155.1M.

Change Orders

- Executed Change Orders this period – 17 for a total of \$18.6M:
 - Construction Package 1 (Page 14) – Four for a total of \$14.0M.
 - Construction Package 2-3 (Page 23) – 10 for a total of \$3.6M.
 - Construction Package 4 (Page 33) – Three for a total of \$1.1M.

Risk Contingency ([Page 5](#))

- Approved Contingency – \$6,001.6M budgeted contract contingency. Contingency balance is \$1,685.9M as of data date.
 - Construction Package 1 (Page 15) – \$2,791.6M budgeted contract contingency. Contingency balance is \$752.7M as of data date.
 - Construction Package 2-3 (Page 24) – \$2,691.5M budgeted contract contingency. Contingency balance is \$850.7M as of data date.
 - Construction Package 4 (Page 34) – \$518.5M budgeted contract contingency. Contingency balance is \$82.4M as of data date.

CP Construction Labor ([Page 6](#))

- August 2023, Average Daily Site Workers (by Week) – 1,384 workers. An increase of 15 workers from the previous period (1,369):
 - Construction Package 1 (Page 16) – 356 workers. An increase of 13 workers from the previous month (343).
 - Construction Package 2-3 (Page 25) – 773 workers. An increase of two workers from the previous month (771).
 - Construction Package 4 (Page 35) – 255 workers. No change from the previous month.
- 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 7](#))

- Structures – 75 underway/construction complete (32 underway, 43 completed) compared to 93 structures total (81%). An increase of one from the previous period.
 - Construction Package 1 – 28 structures underway/construction complete (11 underway, 17 completed). An increase of one in August 2023.
 - Construction Package 2-3 – 36 structures underway/construction complete (21 underway, 15 completed).
 - Construction Package 4 – 11 of 11 structures completed.
- Guideway – 91 miles underway/construction complete (38 underway, 53 completed) compared to 119 miles total (76%).
 - Construction Package 1 – 20 miles underway/construction complete (18 underway, 2 completed).
 - Construction Package 2-3 – 49 miles underway/construction complete (16 underway, 33 completed).
 - Construction Package 4 – 22 miles underway/construction complete (4 underway, 18 completed).

Utility Relocations Status ([Pages 8 - 9](#))

- Relocated: 1,112 (61%); In Progress: 389 (21%); Approved to Start: 0 (0%); Not Started: 335 (18%); Total: 1,836. A total of 21 relocated in August 2023. 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: 501 (51%); In Progress: 302 (30%); Approved to Start: 0 (0%); Not Started: 189 (19%); Total: 992.
 - Construction Package 2-3 – Relocated: 491 (70%); In Progress: 64 (9%); Approved to Start: 0 (0%); Not Started: 146 (21%); Total: 701.
 - Construction Package 4 – Relocated: 120 (84%); In Progress: 23 (16%); Approved to Start: 0 (0%); Not Started: 0 (0%); Total: 143.

CP Real Property/Right-of-Way (ROW) ([Pages 10 - 11](#))

- Total Parcels Delivered to Date – 2,242 parcels compared to an estimated 2,296 parcels needed.
- Parcels Delivered to Design-Builder (DB) – Ten parcels in August 2023.
- Construction Packages 1-4 – One parcel added for CP 1, two parcels added for CP 2-3, zero parcels added for CP 4, and zero parcels removed for CP 1-4. 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.
- Total Railroad Parcels Delivered to Date – 147 parcels delivered compared to an estimated 171 total railroad parcels needed.
- Railroad Parcels Delivered to Design-Builder – Zero parcels in August 2023.

Project Development (Environmental Clearance) Schedule – Notice of Determination (NOD)/Record of Decision (ROD) ([Pages 40 - 41](#))

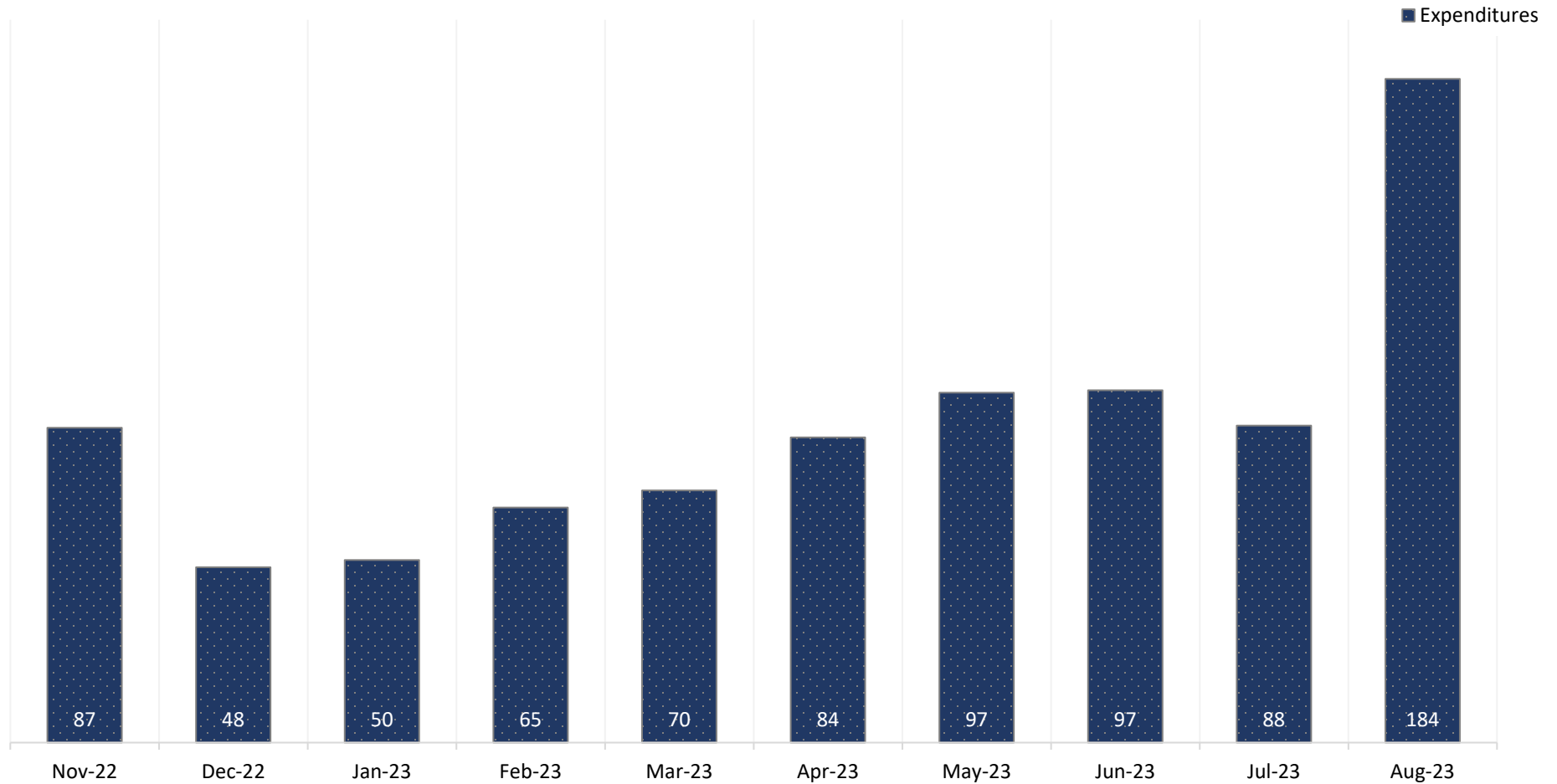
- San Francisco to San Jose – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- San Jose to Merced – Work through NOD/ROD has been completed. Staff finalizing the Administrative Record.
- Bakersfield to Palmdale – Work through NOD/ROD has been completed. Continued meeting with key stakeholders, including the Center for Biological Diversity.
- Palmdale to Burbank – Regional Consultant is preparing the Administrative Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) for review and approval by the Authority prior to being submitted to the Cooperating Agencies. Major activities on this project section included preparing response to comments received on the Draft EIR/EIS and preparing permitting documents.
- Burbank to Los Angeles – Work through NOD/ROD has been completed. Project closeout activities are ongoing.
- Los Angeles to Anaheim – Administrative Draft EIR/EIS scheduled for Spring 2024. NOD/ROD anticipated in late 2025.

Project Development (Post-Record of Decision) Schedule ([Page 41](#))

- Merced Extension (Merced to Madera) – Stantec Inc., under Agreement HSR22-02, continues to make progress on the early actions of this Project. On June 30th, 2023, the Task Order #3 was issued to Stantec which is the roadmap for all deliverables in FY23-24. The Program Management Plan and the Annual Work Plan for FY23-24 were also approved on June 30th, 2023.
- Fresno to Bakersfield Locally Generated Alternative (LGA) – HNTB Corporation (HNTB), under agreement HSR22-01, continues to make progress on the early actions of this Project.

CP 1-4 – Design-Build Expenditures

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

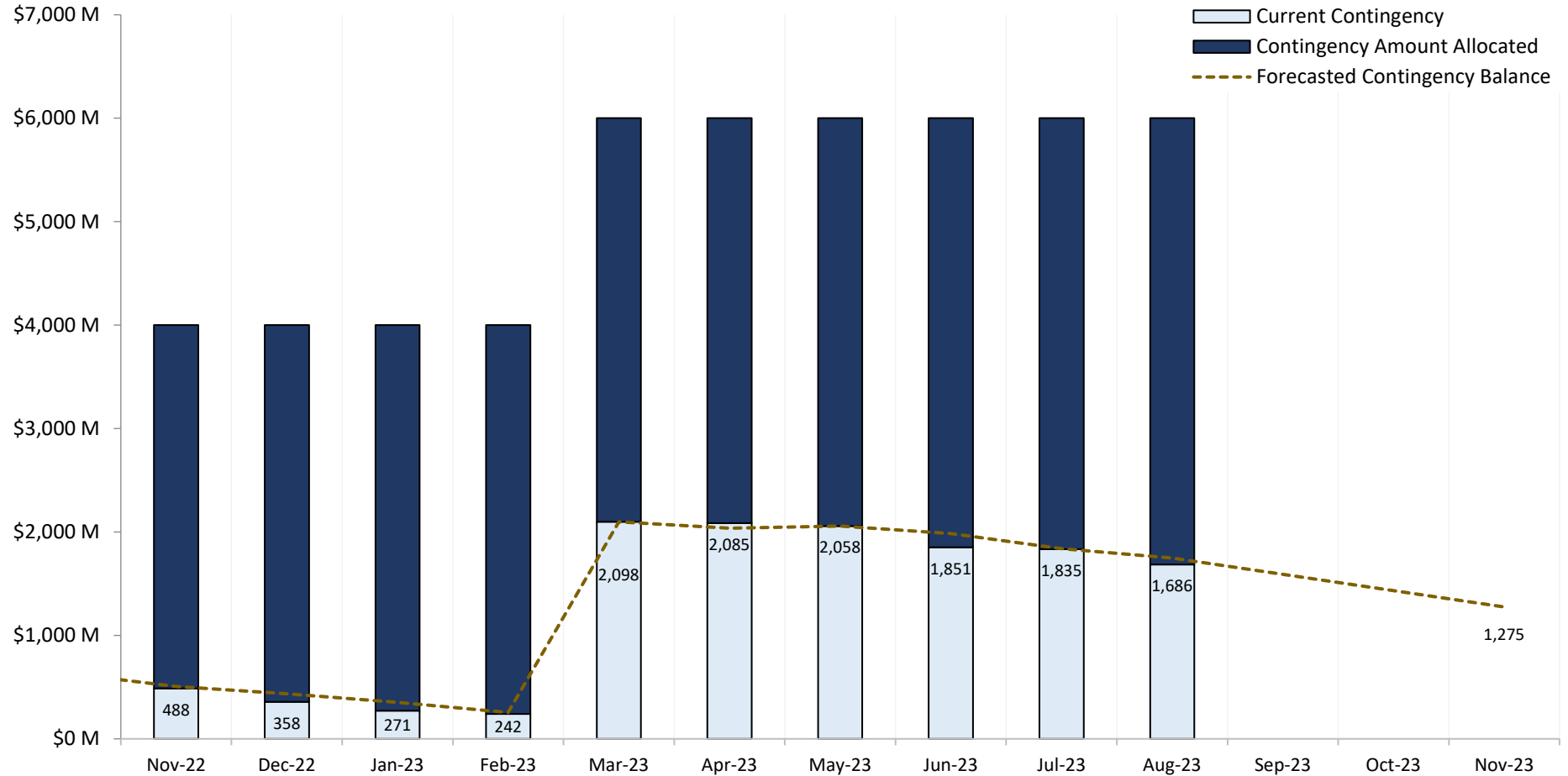


Notes:

1. August 2023 Expenditures totaled \$183.7M:
 - a. Construction Package 1 – Expenditures totaled \$67.1M.
 - b. Construction Package 2-3 – Expenditures totaled \$94.2M.
 - c. Construction Package 4 – Expenditures totaled \$22.3M.

CP 1-4 – Risk Contingency

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

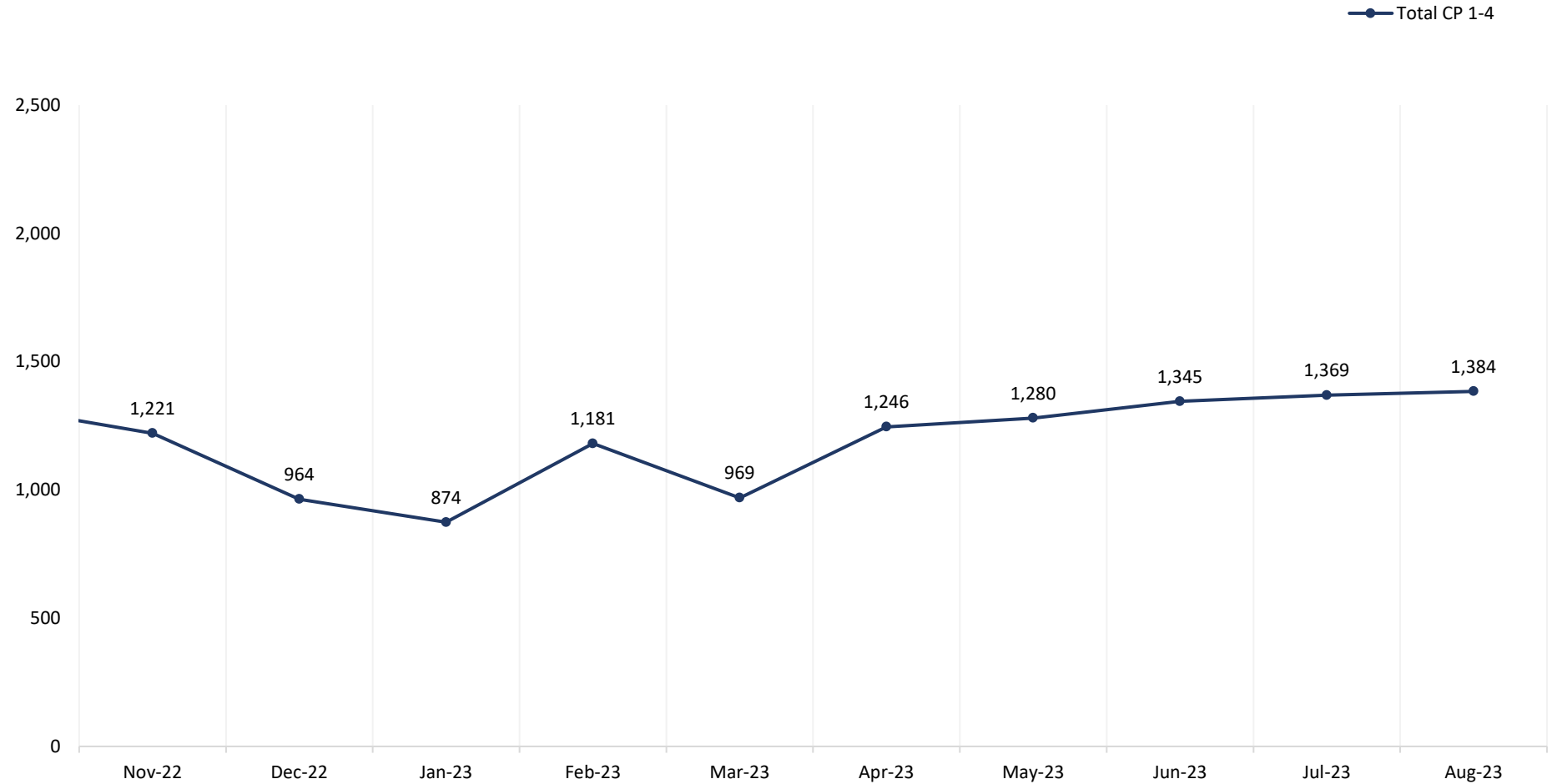


Notes:

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total Program Contingency to \$6,001.6M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (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

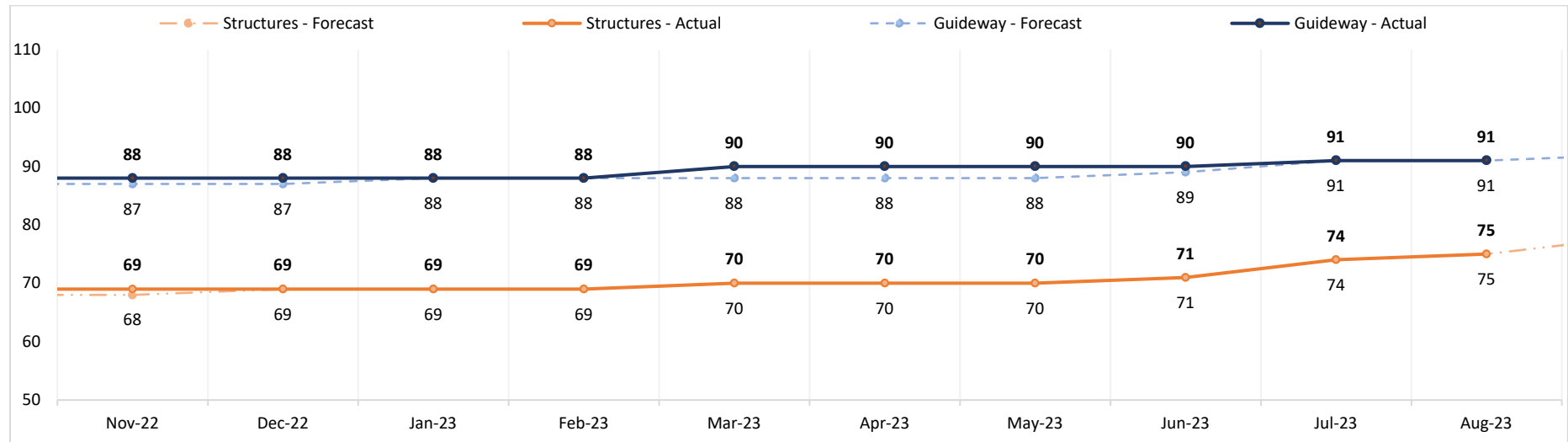
CP 1-4 – Monthly Construction Workforce Total – Actual (FTE)



- 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. August 2023, Average Daily Site Workers (by week) – 1,384 workers. An increase of 15 workers from the previous period (1,369).
 - a. Construction Package 1 (Page 16) – 356 workers. An increase of 13 workers from the previous month (343).
 - b. Construction Package 2-3 (Page 25) – 773 workers. An increase of two workers from the previous month (771).
 - c. Construction Package 4 (Page 35) – 255 workers. No change from the previous month.

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	
Guideway	18	2	16	33	4	18	38	53	91
Structures	11	17	21	15	0	11	32	43	75

Notes:

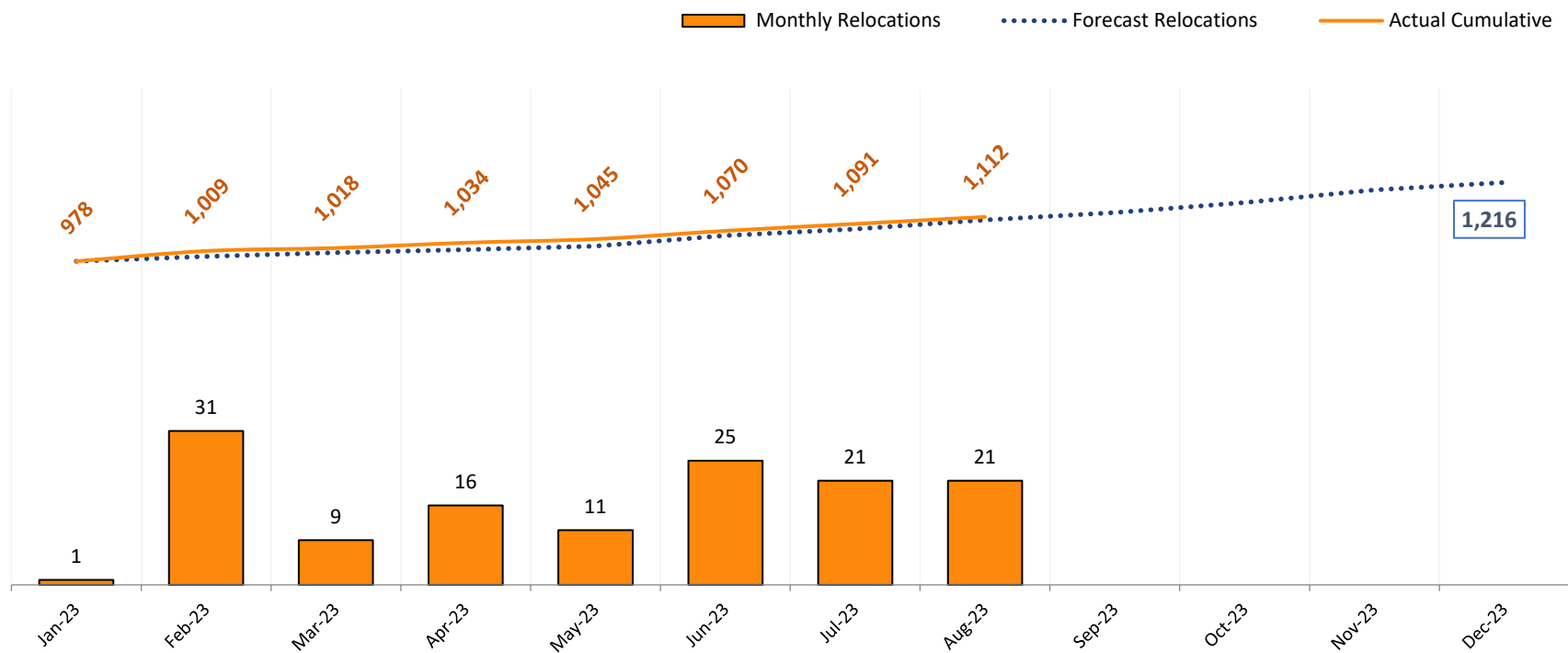
1. Construction Complete definition:
 - a. Structure Completion – all concrete work is complete.
 - b. Guideway Completion – earthworks complete with rough grading.
2. Total Structures: 93
3. Structures – 75 underway/construction complete compared to 93 structures total (81%). An increase of one from the previous period.
 - a. CP 1 – 28 structures underway/construction complete. An increase of one in August 2023: Central Avenue.
 - b. CP 2-3 – 36 structures underway/construction complete.
 - c. CP 4 – 11 of 11 structures completed.
4. Total Guideway: approximately 119 miles
5. Guideway – 91 miles underway/construction complete compared to 119 miles total (76%).
 - a. CP 1 – 20 miles underway/construction complete.
 - b. CP 2-3 – 49 miles underway/construction complete.
 - c. 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 August 31, 2023	Total Utilities Relocated to Date August 31, 2023	Remaining Utility Relocations August 31, 2023
CP 1	992	501	491
CP 2-3	701	491	210
CP 4	143	120	23
Total	1,836	1,112	724

CP 1-4 – Utility Relocation Status Summary-Monthly



CP 1-4 – Utility Relocation Summary

CP 1-4 – Summary by Utility Type

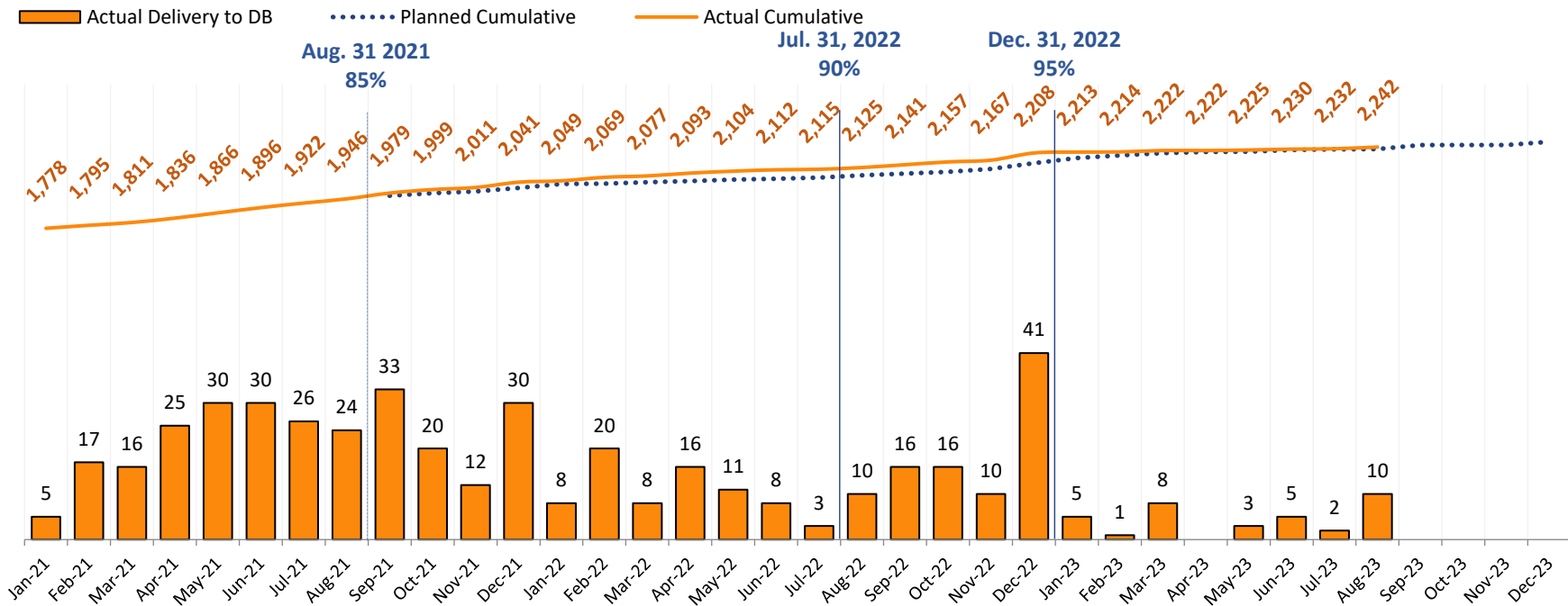
Utility	Status	CP-1	CP-2-3	CP-4	CP 1-4 Total	Percentage
Electric	NOT STARTED	82	102	0	184	28%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	19	32	1	52	8%
	RELOCATED	114	250	61	425	64%
	TOTAL	215	384	62	661	100%
Gas	NOT STARTED	17	10	0	27	22%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	30	0	0	30	24%
	RELOCATED	44	17	7	68	54%
	TOTAL	91	27	7	125	100%
Telecom	NOT STARTED	36	3	0	39	6%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	153	27	2	182	27%
	RELOCATED	226	203	30	459	67%
	TOTAL	415	233	32	680	100%
Wet	NOT STARTED	54	31	0	85	23%
	APPROVED TO START	0	0	0	0	0%
	IN PROGRESS	100	5	20	125	34%
	RELOCATED	117	21	22	160	43%
	TOTAL	271	57	42	370	100%

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

CP 1-4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2023	Total Parcels Delivered to Date August 31, 2023	Remaining Parcels to be Delivered August 31, 2023	Percentage Delivered
CP 1	1,084	1,063	21	98%
CP 2-3	989	956	33	97%
CP 4	223	223	0	100%
Total	2,296	2,242	54	98%

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



Notes:

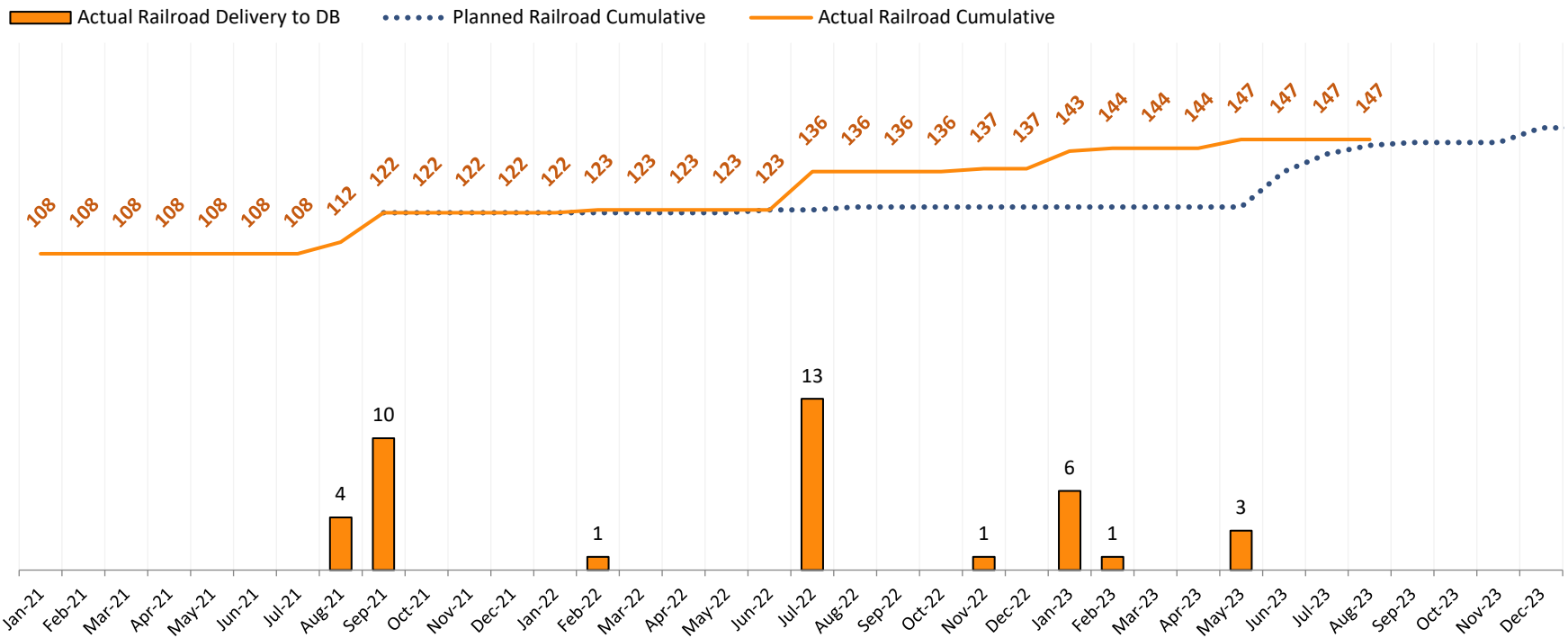
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the planned delivery schedule which identifies 90% and 95% milestone completion for CP 1-4.
2. Delivery to Design Builder 90% milestone completion was achieved for CP 1-4 in March 2022 and 96% percent of parcels delivered by December 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 August 31, 2023	Total Railroad Parcels Delivered to Date August 31, 2023	Remaining Railroad Parcels to be Delivered August 31, 2023
CP 1	84	64	20
CP 2-3	58	54	4
CP 4	29	29	0
Total	171	147	24

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



Notes:

1. This reflects the actual Railroad parcels delivered to Design-Builder by month and updated forecast dates.

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⁾ :	03/05/2026
Current Forecast Construction Completion Date⁽²⁾:	12/31/2025

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:	\$2,354,344,632.47
Current Contract Amount:	\$3,377,332,632.47
Approved Invoices to Date:	\$2,219,544,218.21
Remaining Contract Balance:	\$1,157,788,414.26

Contract Time Status

Description	Duration
Original Contract Days:	1,628
Extension of Time Awarded ⁽³⁾ :	2,832
Current Forecast Contract Days ⁽³⁾ :	4,460
Calendar Days Worked (thru 08/31/2023):	3,607

Expended to Date

Description	Percentage
Time ⁽³⁾ :	80.9%
Dollars:	65.7%

Growth Percentage

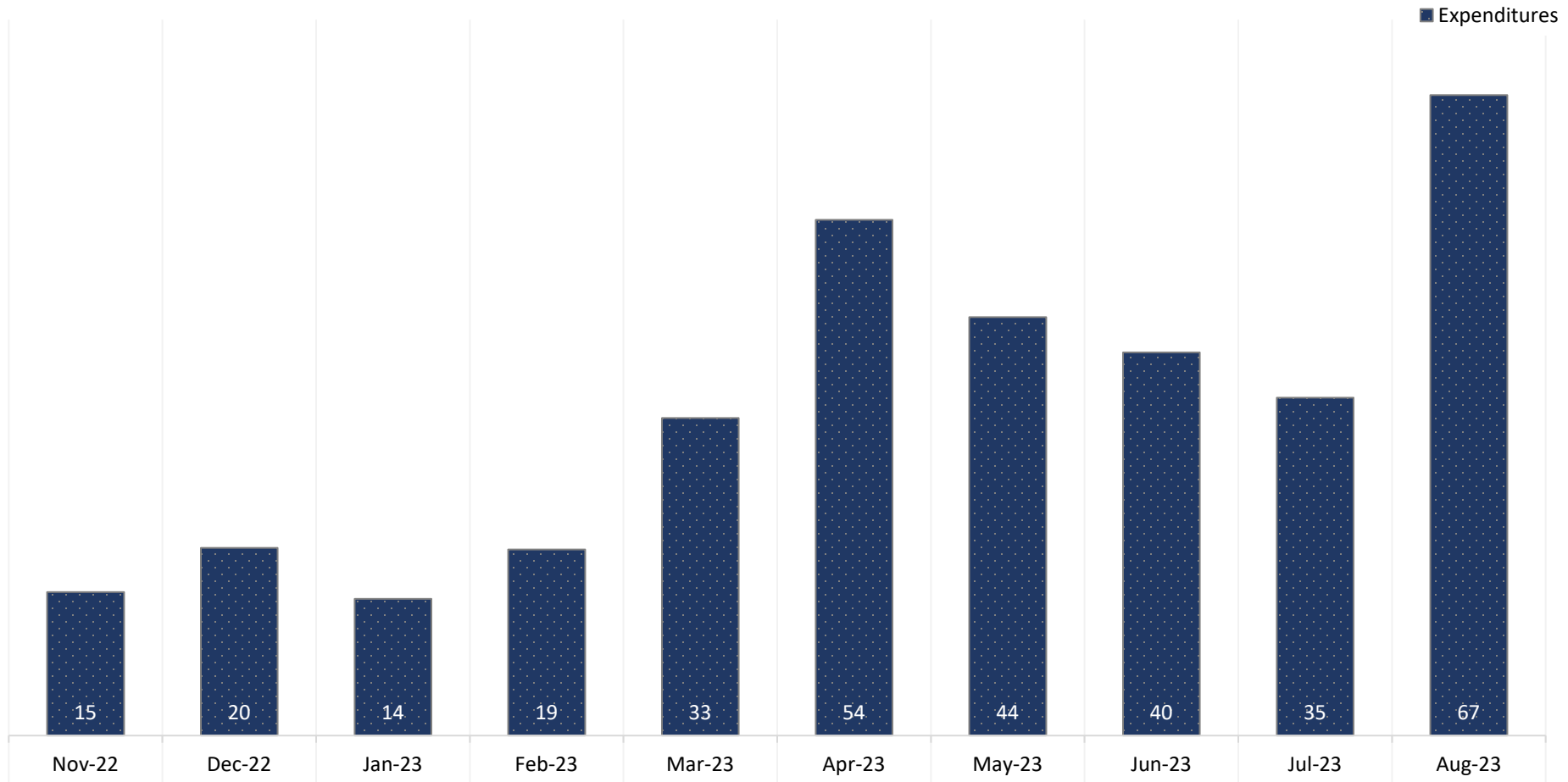
Description	Percentage
Time ⁽³⁾ :	174.0%
Dollars:	230.1%

Notes:

1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated per the accepted Revised Baseline Schedule (RBS) Revision 4.
3. 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 Forecast 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 \$67.1M.

CP 1 – Change Orders (CO)

CP 1 – Change Order Status

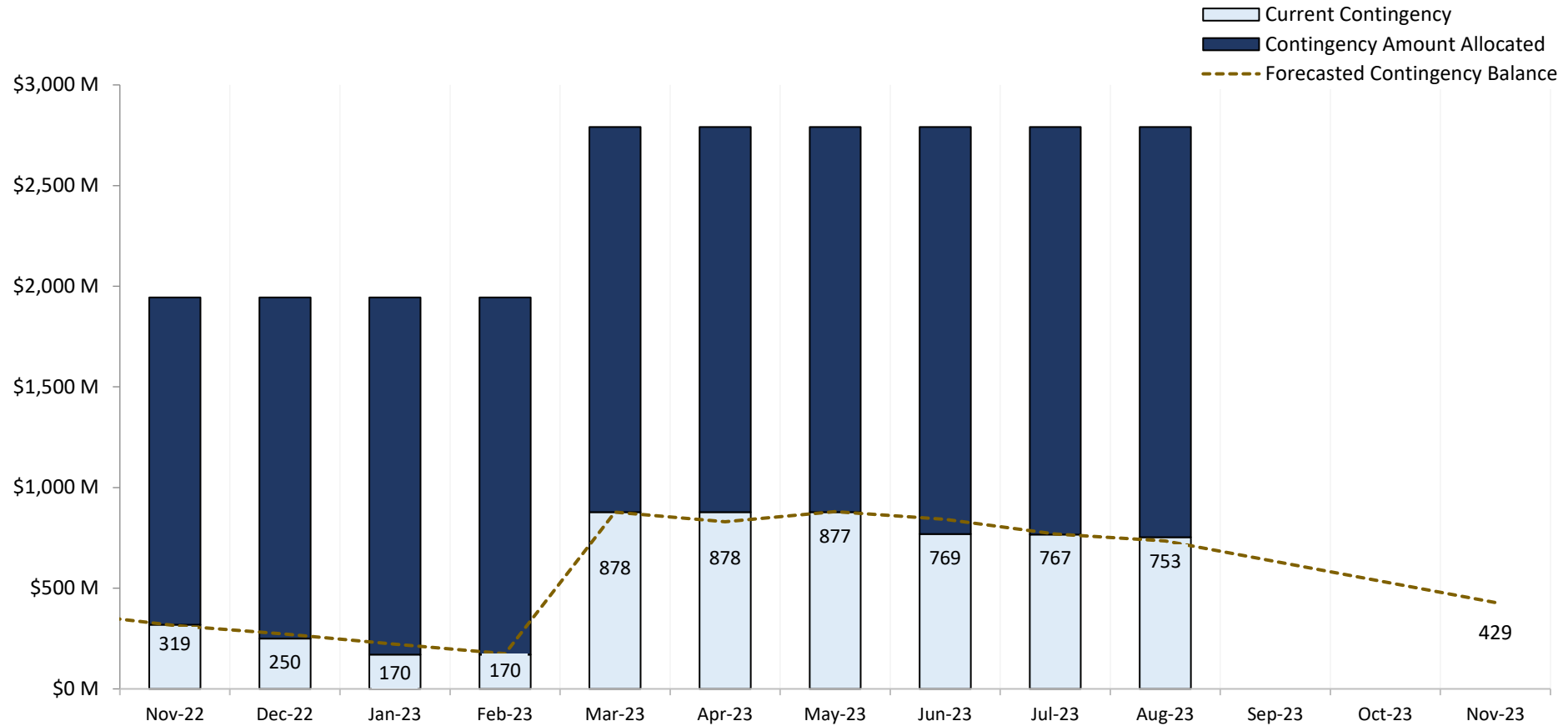
CO Number	Title	Change Status	Amount	Executed Date
503	PCO 1069 - CN-1357 FID Braly No. 14 at California and Cherry Ave. - Design Only	Executed	\$183,712.00	08-07-23
89.05	Madera Valley Water Company (MVWC) Waterline Relocations	Executed	\$8,836,368.00	08-31-23
88.12	Environmental Change Order T&M	Executed	\$5,000,000.00	08-31-23
88.13	Environmental Monitoring and Oversight Changes - Change in Responsibilities	Executed	\$0.00	08-31-23
TOTAL			\$14,020,080.00	

Note:

1. Change Order 88.13 is a zero-cost change order for Environmental Staffing services responsibilities.

CP 1 – Risk Contingency

CP 1 – Risk Contingency Status (\$ Millions)

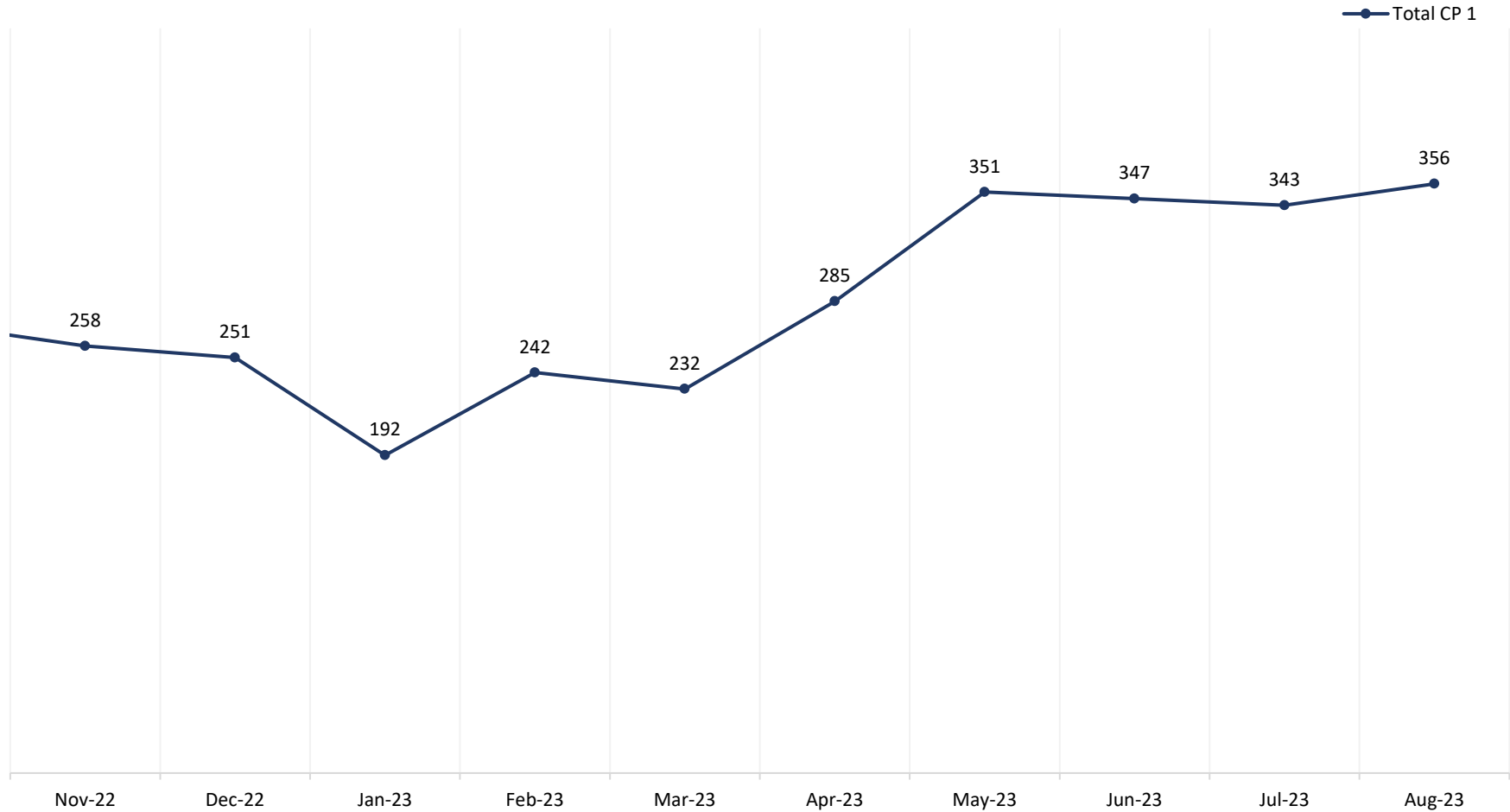


Notes:

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total CP 1 Contingency to \$2,791.6M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (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 can vary.

CP 1 – Monthly Construction Labor

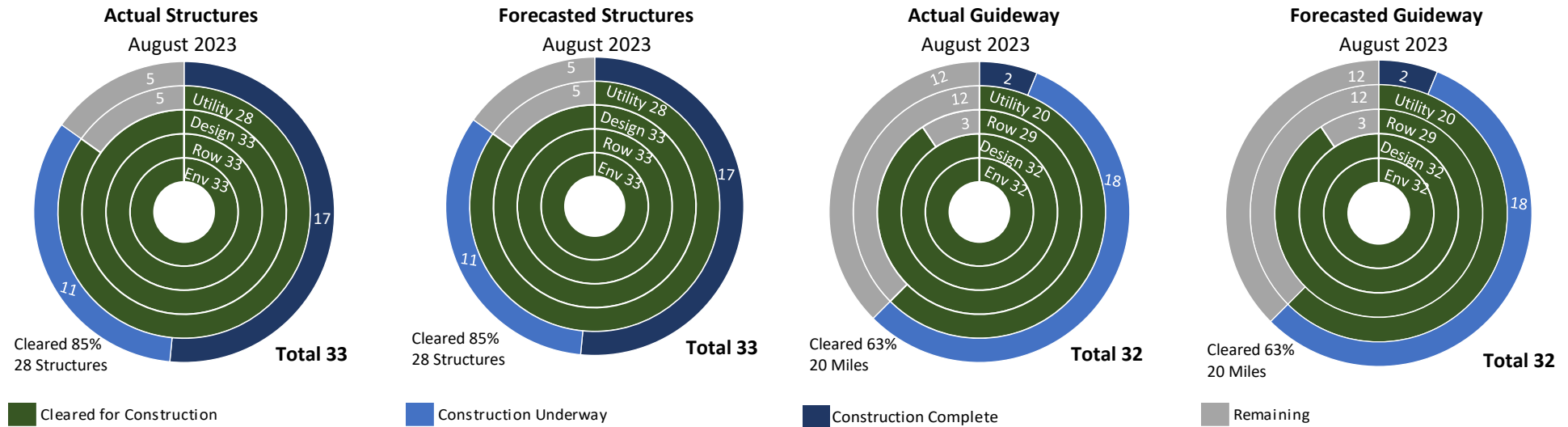
CP 1 – Monthly Construction Workforce Total – Actual (FTE)



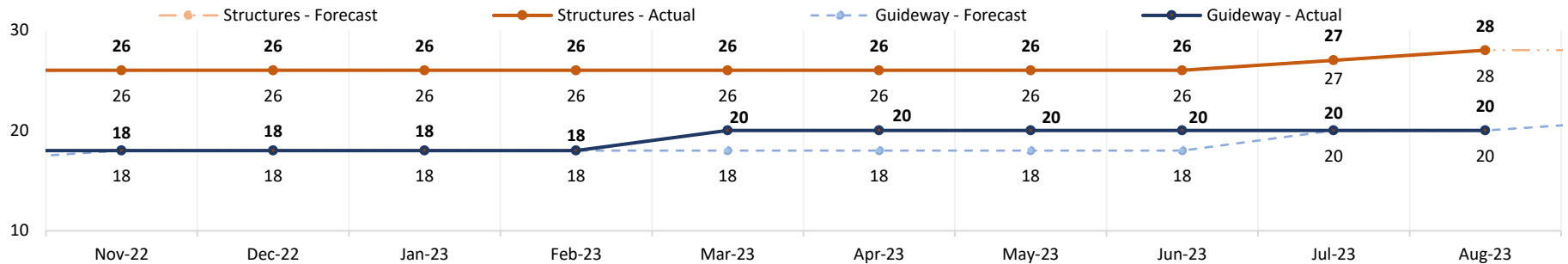
- Notes:**
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
 2. An increase of 13 workers from the previous month (343).

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 4 accepted schedule.
 - Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
 - Total Structures: 33:
 - 28 structures underway/construction complete. An increase of one in August 2023: Central Avenue.
 - Total Guideway: 32 miles.
 - 20 miles underway/construction complete.
 - There are 32 miles of guideway approved by the Authority, but 2.5 miles (Caltrans section) has not been approved by Union Pacific Railroad (UPRR). Update: UPRR has approved the Caltrans 2.5 miles at 60% Design with 90% Design progressing. The Caltrans 2.5 mile IPB Work Plan has been approved and work commenced February 2023.
 - Late finish dates are being used to estimate forecast numbers.

CP 1 – Utility Relocation Summary

CP 1 - High Level Summary

Status	Utility Relocations	Percentage
Total Utilities Not Started	189	19%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	302	30%
Total Utilities Relocated	501	51%
Total	992	100%

CP 1 – Summary by Utility Type

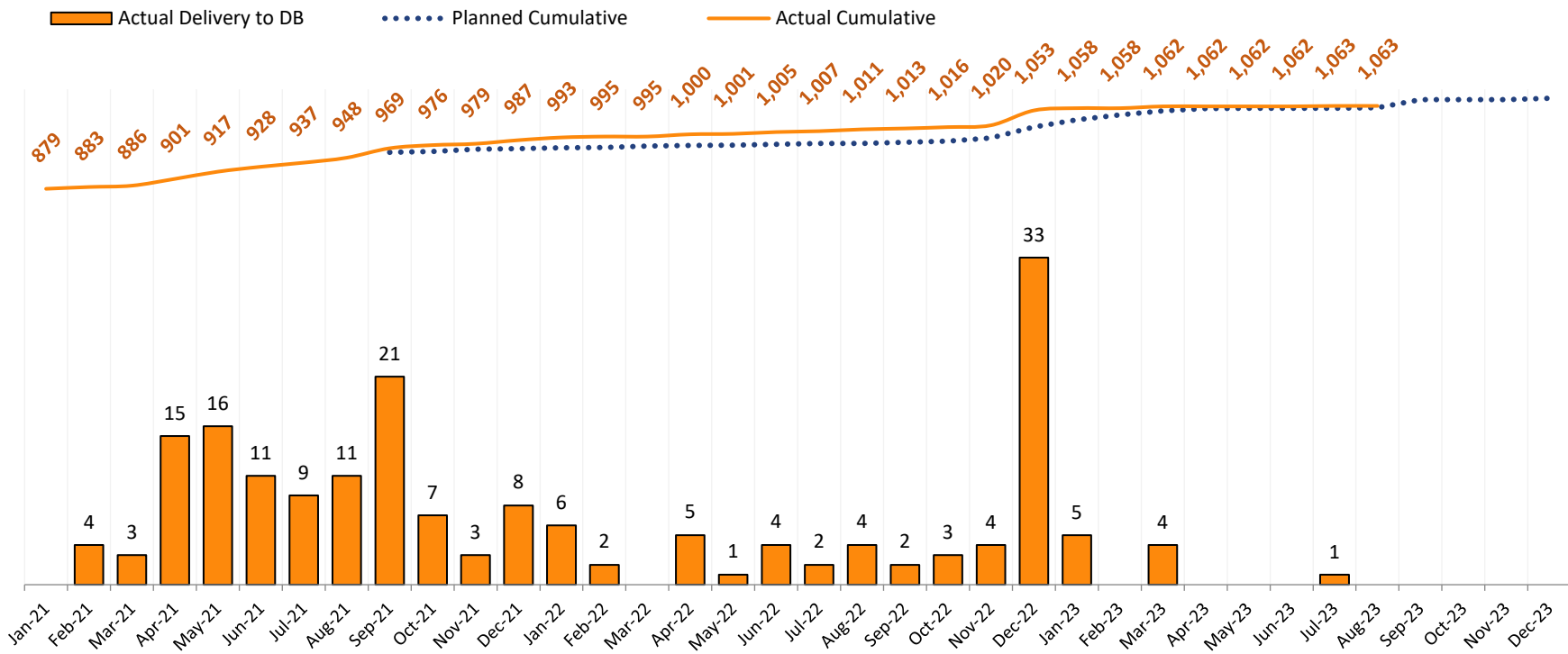
Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	82	38%
	APPROVED TO START	0	0%
	IN PROGRESS	19	9%
	RELOCATED	114	53%
	TOTAL	215	100%
Gas	NOT STARTED	17	19%
	APPROVED TO START	0	0%
	IN PROGRESS	30	33%
	RELOCATED	44	48%
	TOTAL	91	100%
Telecom	NOT STARTED	36	9%
	APPROVED TO START	0	0%
	IN PROGRESS	153	37%
	RELOCATED	226	54%
	TOTAL	415	100%
Wet	NOT STARTED	54	20%
	APPROVED TO START	0	0%
	IN PROGRESS	100	37%
	RELOCATED	117	43%
	TOTAL	271	100%

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

CP 1 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2023	Total Parcels Delivered to Date August 31, 2023	Remaining Parcels to be Delivered August 31, 2023
CP 1	1,084	1,063	21

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



Notes:

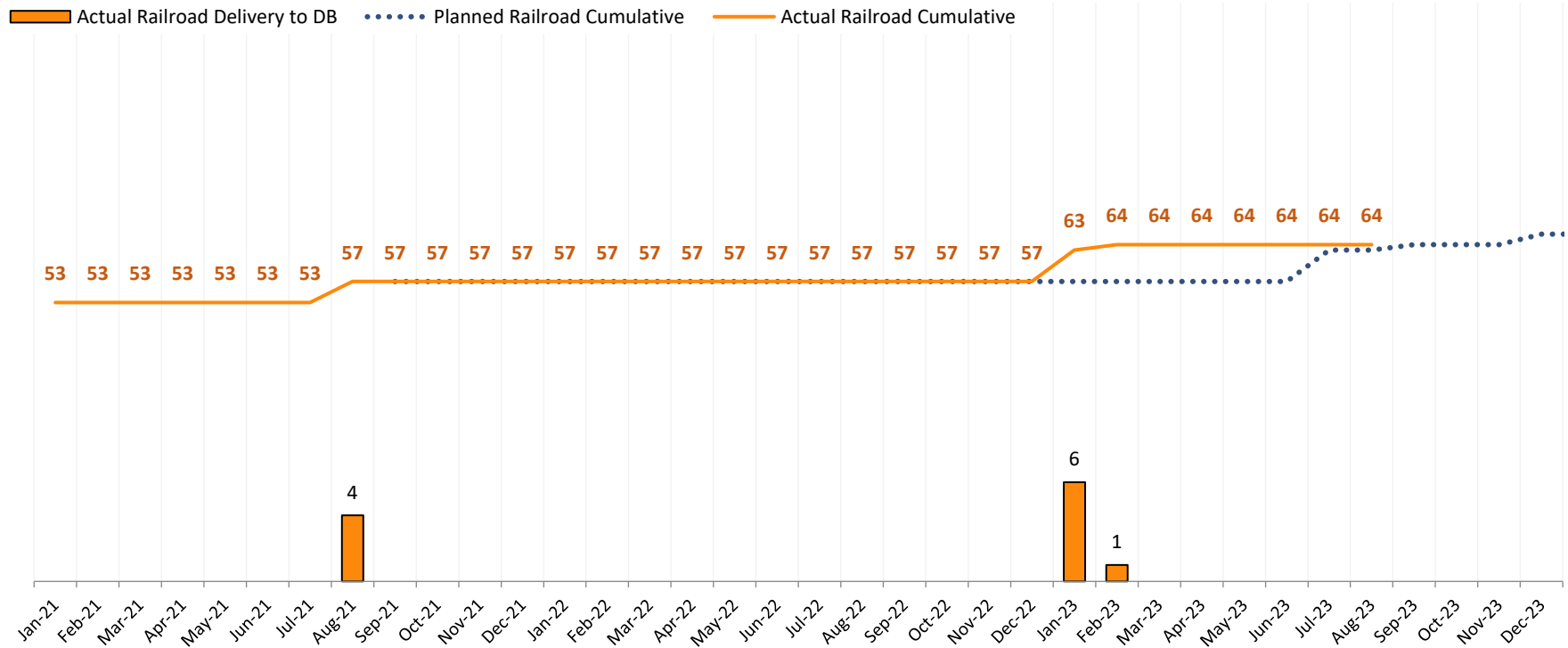
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.
2. Total Parcels Needed increased by one parcel in August 2023.

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

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

Construction Package	Total Needed Railroad Parcels August 31, 2023	Total Railroad Parcels Delivered to Date August 31, 2023	Remaining Railroad Parcels to be Delivered August 31, 2023
CP 1	84	64	20

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



Note:

1. This reflects the actual Railroad parcels delivered to Design-Builder by month and updated forecast dates.

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⁾ :	05/21/2026
Current Forecast Construction Completion Date⁽²⁾:	03/21/2026

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:	\$1,652,652,971.28
Current Contract Amount:	\$3,017,988,861.28
Approved Invoices to Date:	\$2,174,766,542.84
Remaining Contract Balance:	\$843,222,318.44

Contract Time Status

Description	Duration
Original Contract Days:	1,486
Extension of Time Awarded ⁽³⁾ :	2,406
Current Forecast Contract Days ⁽³⁾ :	3,892
Calendar Days Worked (thru 08/31/2023):	2,959

Expended to Date Percentage

Description	Percentage
Time ⁽³⁾ :	76.0%
Dollars:	72.1%

Growth Percentage

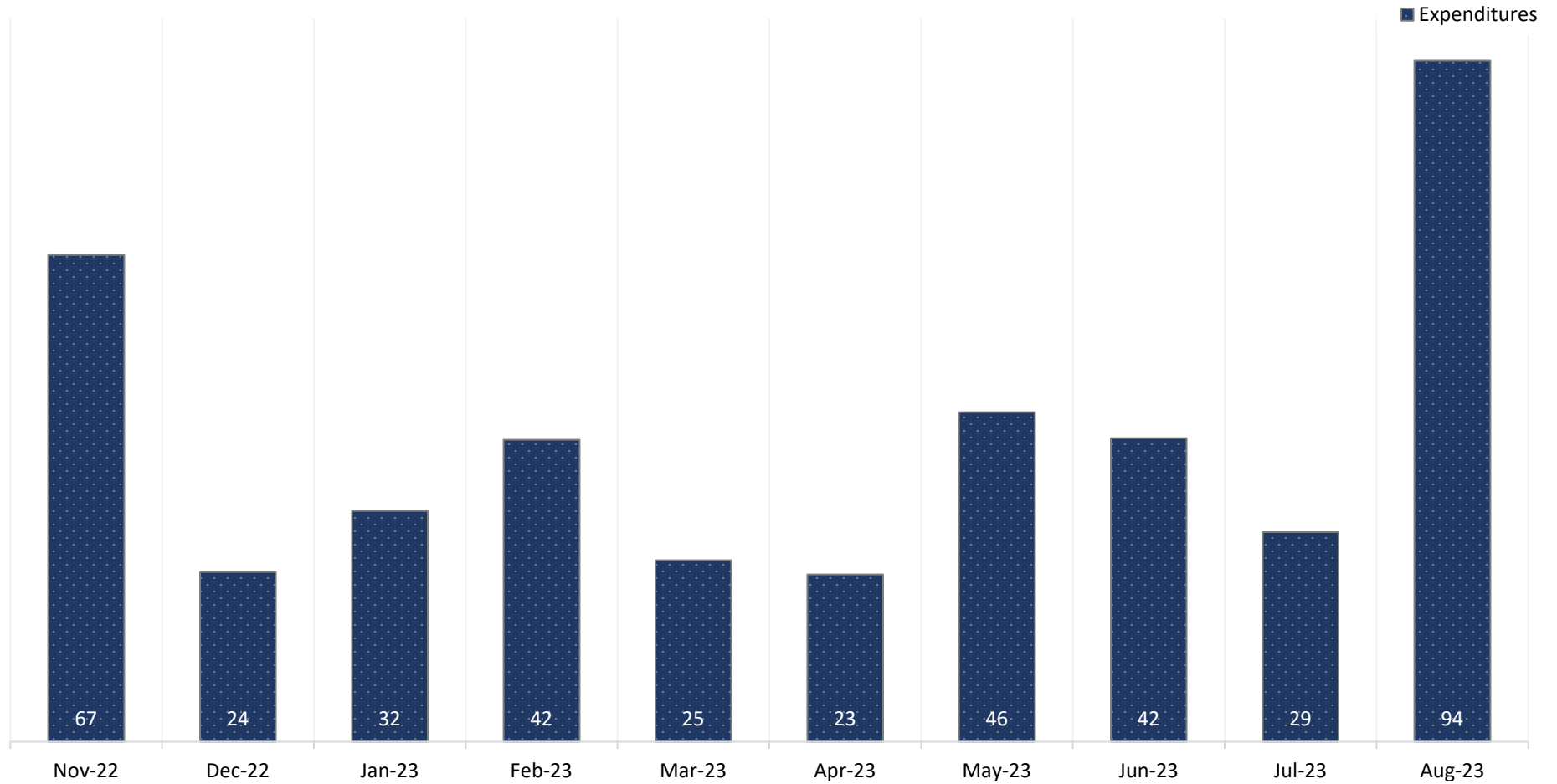
Description	Percentage
Time ⁽³⁾ :	161.9%
Dollars:	121.0%

Notes:

1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated per the conditionally accepted Revised Baseline Schedule (RBS) Revision 4.
3. 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 Forecast 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 \$94.2M.

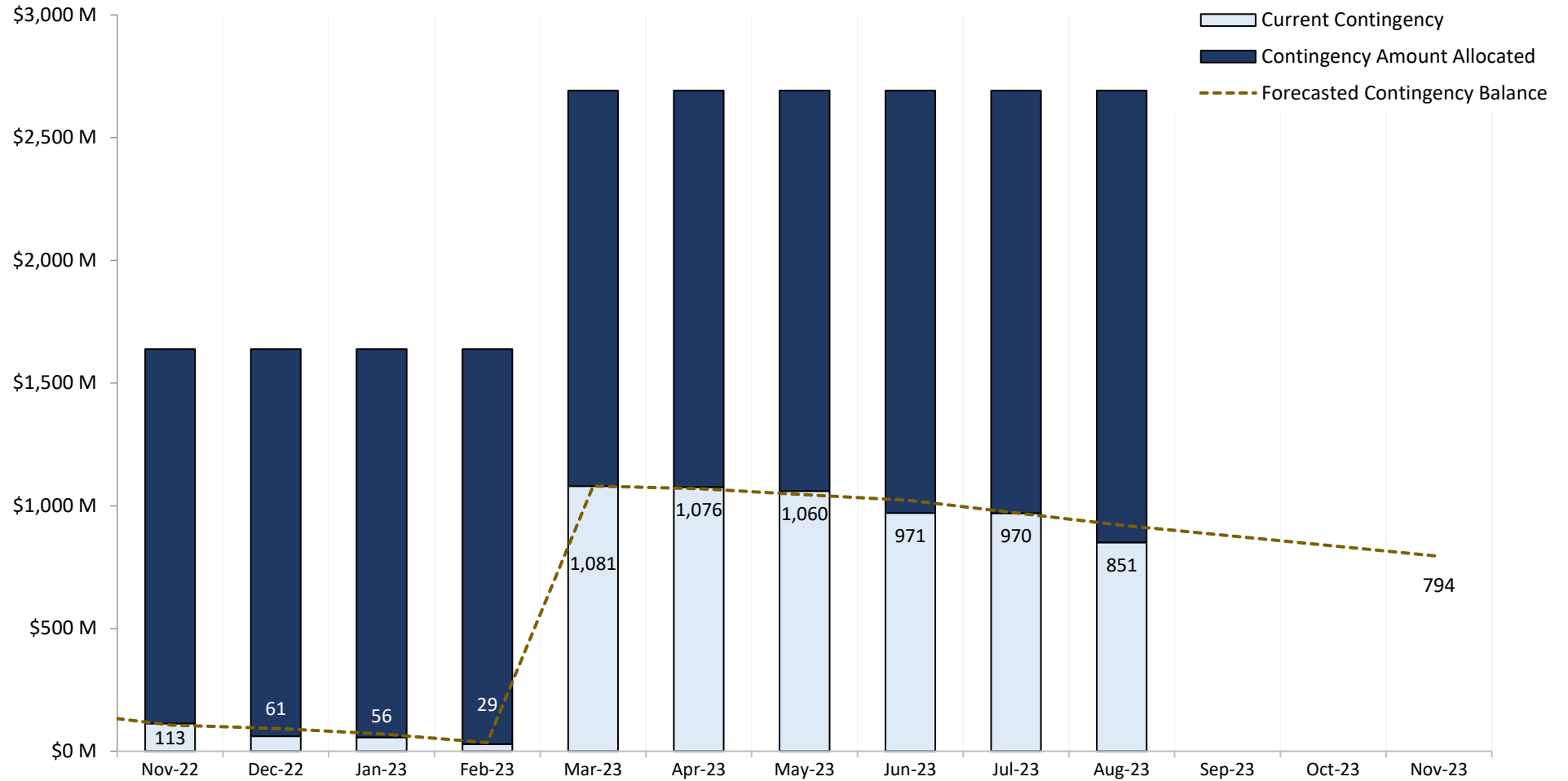
CP 2-3 – Change Orders (CO)

CP 2-3 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
382	Dutch John Cut and Cole Slough Foundation and Structural Redesign	Executed	\$131,385.00	08-30-23
326.1	Relocation of Private Irrigation Line "Bloodline" FB-16-0170 – Construction	Executed	\$548,000.00	08-18-23
356.1	Elkhorn Ditch Private Irrigation Service Lines – T&M	Executed	\$400,000.00	08-16-23
352	Harlan Stevens Ditch - Accelerated Work - T&M	Executed	\$150,000.00	08-09-23
388	Lateral No. 3 and Crawford Lateral No. 5	Executed	\$975,000.00	08-09-23
86.14	Updated Private Irrigation Crossings – Segment 2	Executed	\$898,685.00	08-09-23
387	Connector Road Paving Impacts at Dover Avenue	Executed	\$64,667.00	08-09-23
385	Harlan Stevens Ditch – Nebraska Extension – Design Only	Executed	\$25,401.00	08-04-23
231.3	Nevada Avenue Cul-de-Sacs	Executed	\$302,500.00	08-04-23
386	Corcoran Highway – MSE Wall Mitigation – Design – T&M	Executed	\$65,000.00	08-01-23
TOTAL			\$3,560,638.00	

CP 2-3 – Risk Contingency

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

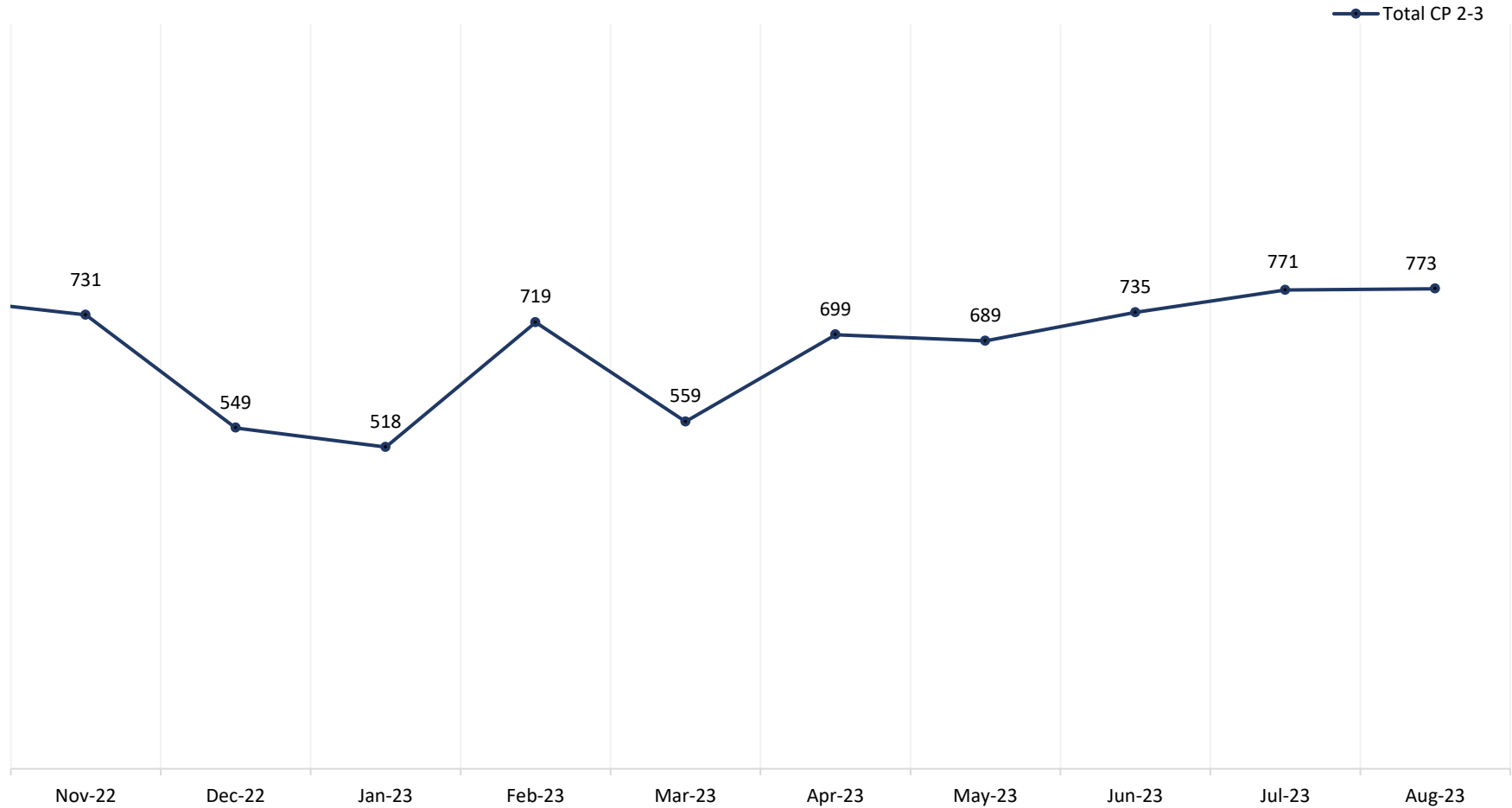


Notes:

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total CP 2-3 Contingency to \$2,691.5M.
2. Contingency balance updated to reflect the Board’s adoption of Resolution #HSR23-01 (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)

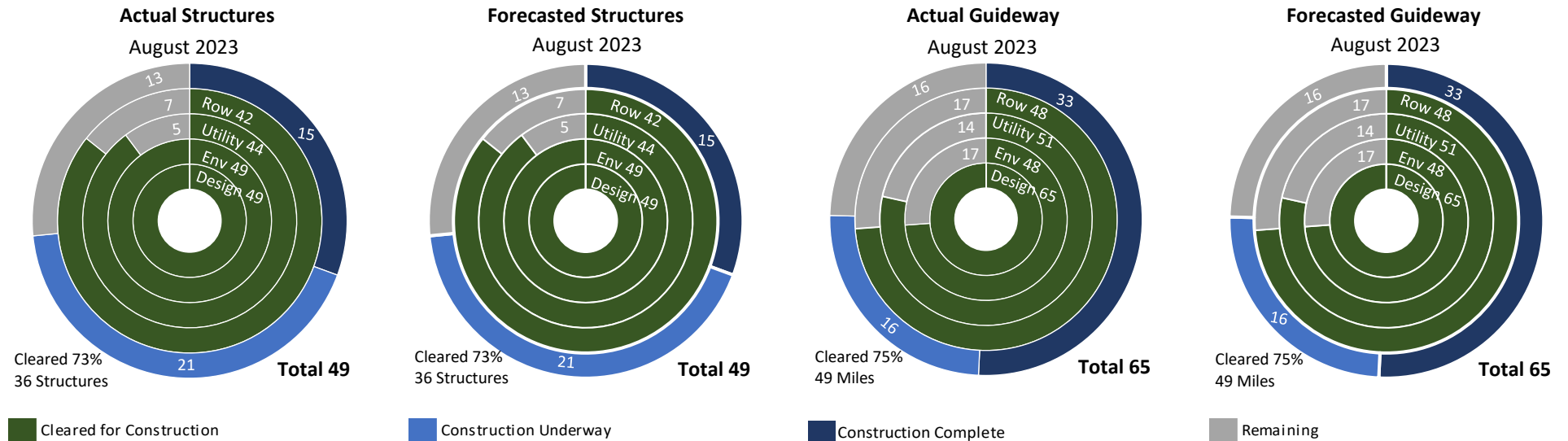


Notes:

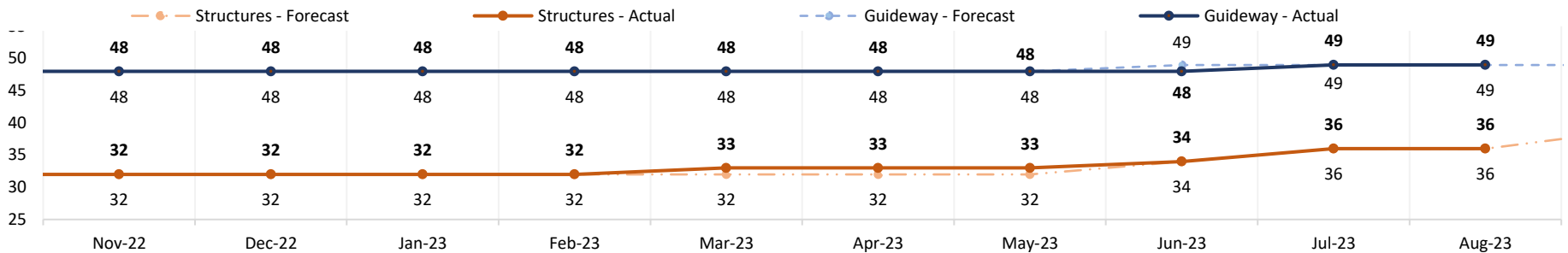
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. An increase of two workers from the previous month (771).

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 4 data as of September 2022, pending final approval.
- The line chart above incorporates provisional forecast numbers as of September 2022, pending final approval of RBS Revision 4.
- Construction Complete definition:
 - Structure Completion – all concrete work is complete.
 - Guideway Completion – earthworks complete with rough grading.
- Total Structures: 49:
 - 36 structures underway/construction complete.
- Total Guideway: 65 miles:
 - 49 miles underway/construction complete.
- Late finish dates are being used to estimate forecast numbers.

CP 2-3 Utility Relocation Summary

CP 2-3 - High Level Summary

Status	Utility Relocations	Percentage
Total Utilities Not Started	146	21%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	64	9%
Total Utilities Relocated	491	70%
Total	701	100%

CP 2-3 – Summary by Utility Type

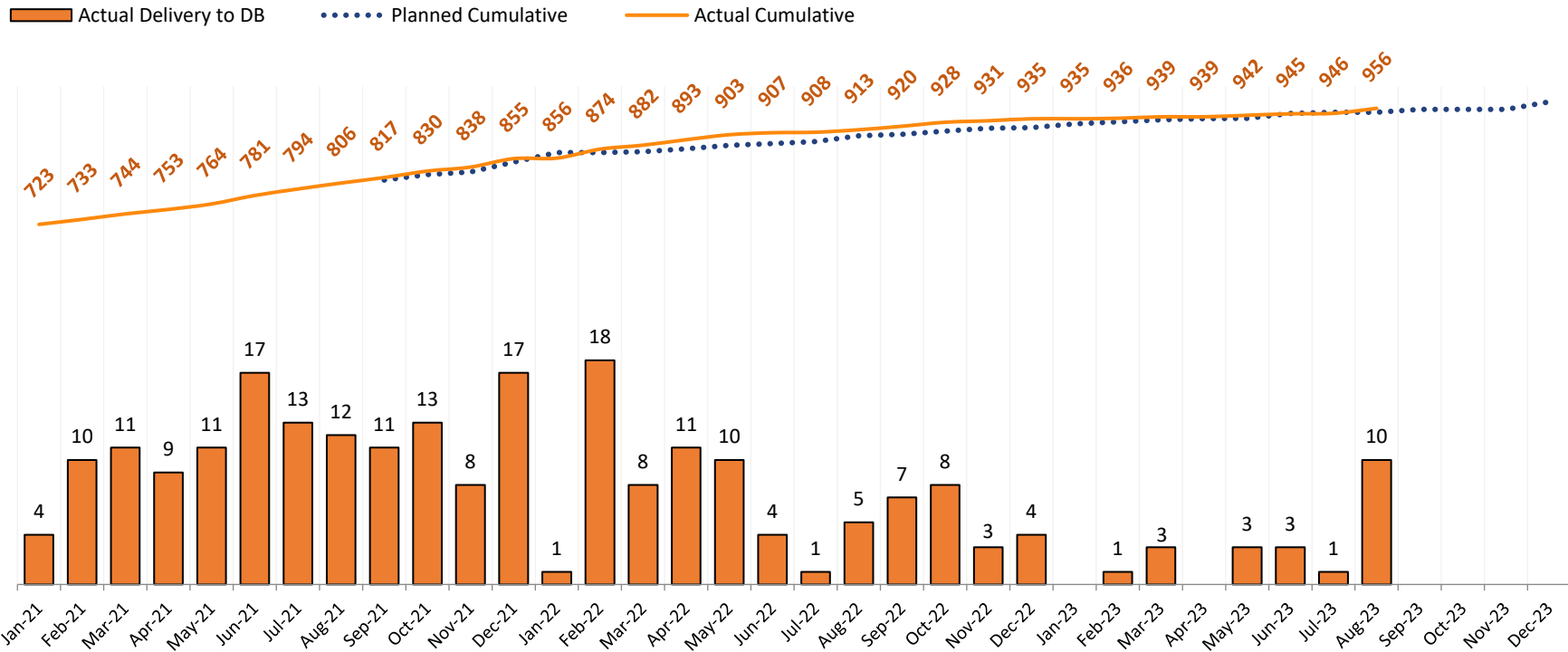
Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	102	27%
	APPROVED TO START	0	0%
	IN PROGRESS	32	8%
	RELOCATED	250	65%
	TOTAL	384	100%
Gas	NOT STARTED	10	37%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	17	63%
	TOTAL	27	100%
Telecom	NOT STARTED	3	1%
	APPROVED TO START	0	0%
	IN PROGRESS	27	12%
	RELOCATED	203	87%
	TOTAL	233	100%
Wet	NOT STARTED	31	54%
	APPROVED TO START	0	0%
	IN PROGRESS	5	9%
	RELOCATED	21	37%
	TOTAL	57	100%

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

CP 2-3 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2023	Total Parcels Delivered to Date August 31, 2023	Remaining Parcels to be Delivered August 31, 2023
CP 2-3	989	956	33

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



Notes:

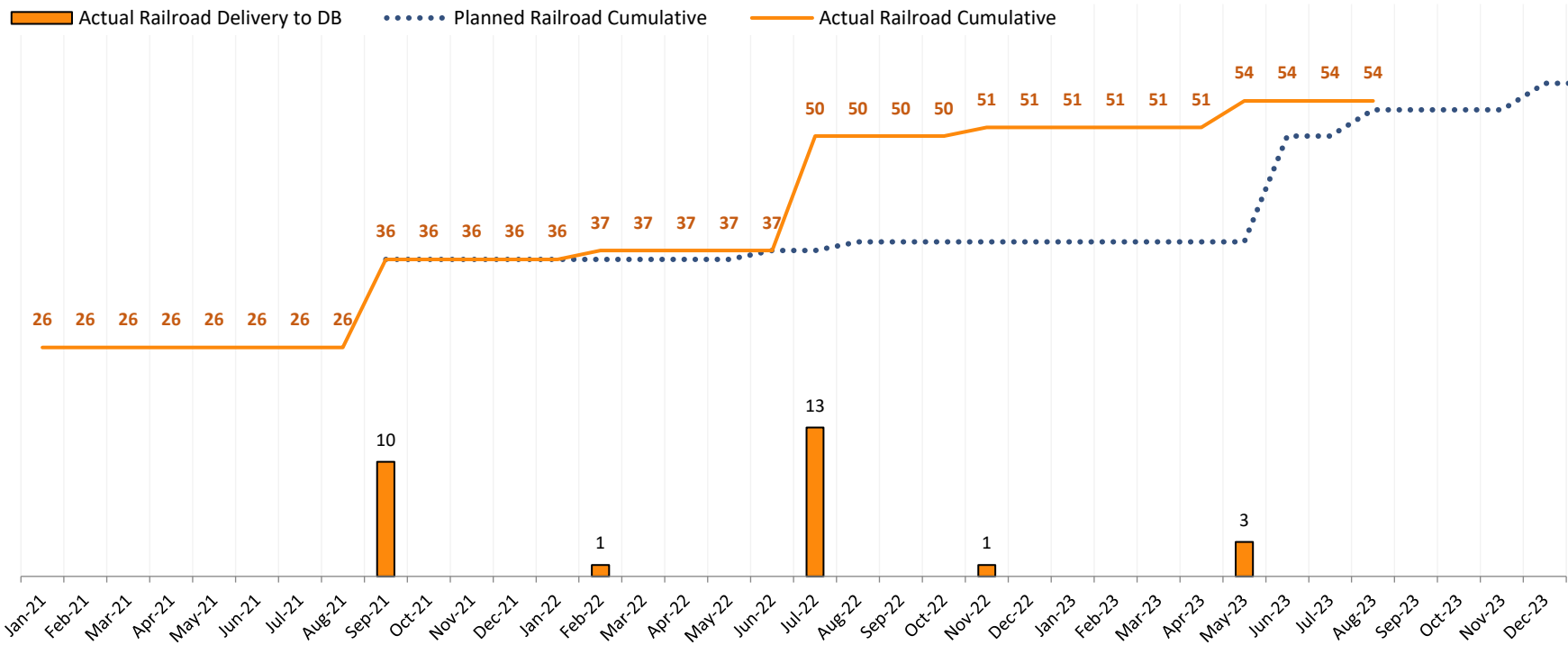
1. This reflects the actual parcels delivered to the Design-Builder by month and forecasts based on Revised Baseline Schedules (RBS) Revision 4.
2. Total Parcels Needed increased by two parcels in August 2023.

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 August 31, 2023	Total Railroad Parcels Delivered to Date August 31, 2023	Remaining Railroad Parcels to be Delivered August 31, 2023
CP 2-3	58	54	4

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



Notes:

1. This reflects the actual Railroad parcels delivered to Design-Builder by month and forecast dates.

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⁾ :	Dec 2023
Current Forecast Construction Completion Date⁽²⁾:	Sep 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:	\$315,487,105.41
Current Contract Amount:	\$759,734,105.41
Approved Invoices to Date:	\$724,158,712.57
Remaining Contract Balance:	\$35,575,392.84

Current Time Status

Description	Duration
Original Contract Days:	1,144
Extension of Time Awarded ⁽³⁾ :	1,561
Current Forecast Contract Days ⁽³⁾ :	2,705
Calendar Days Worked (thru 08/31/2023):	2,694

Expended to Date

Description	Percentage
Time ⁽³⁾ :	99.6%
Dollars:	95.3%

Growth Percentage

Description	Percentage
Time ⁽³⁾ :	136.5%
Dollars:	71.0%

Notes:

1. Data in this section is sourced from data provided by the PCM – Monthly Status Report.
2. Updated to align with current projected milestone dates of guideway completion and closing out the contract.
3. 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 (%)

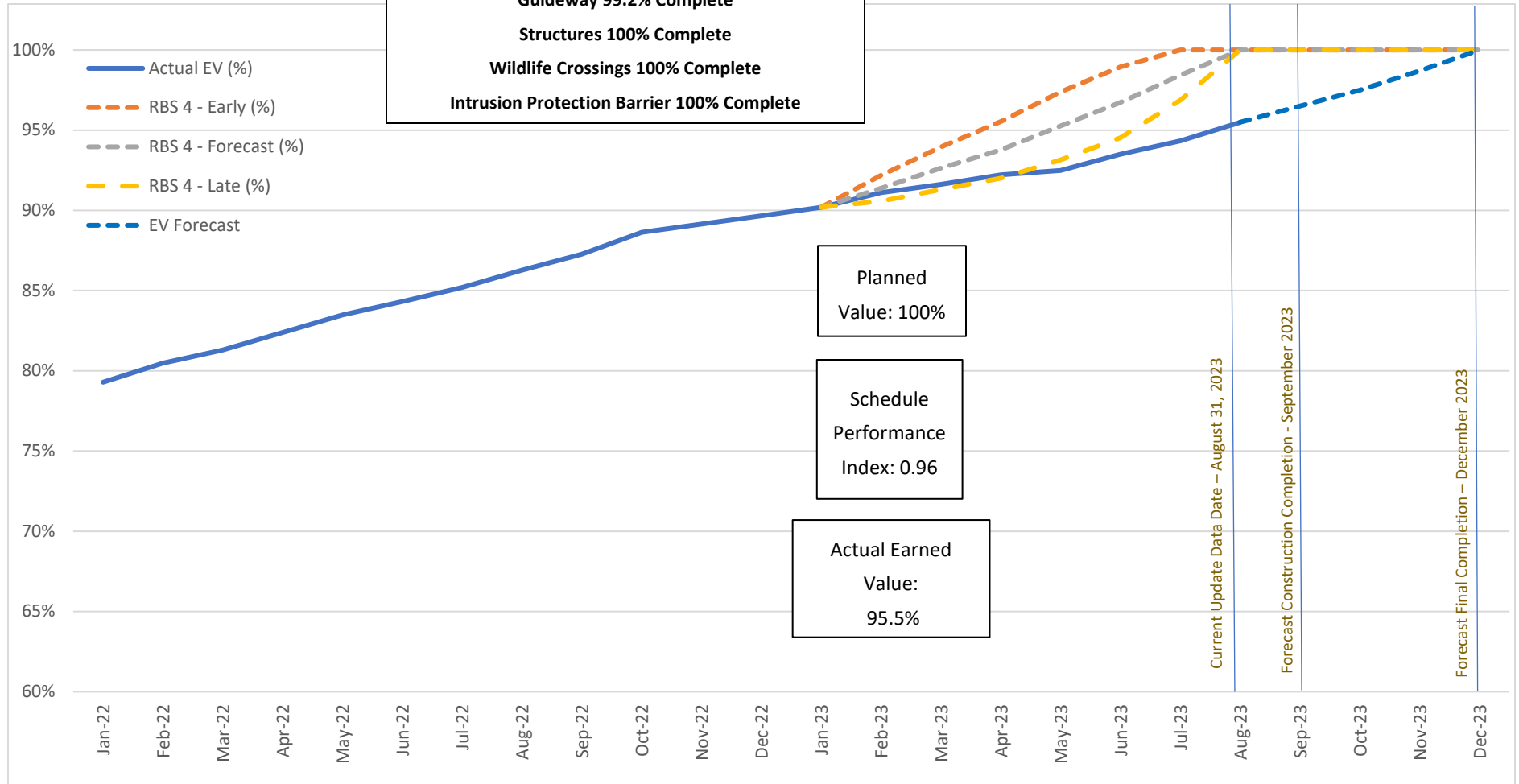
The CP 4 completion forecasts are primarily dependent on the outcome of mutual agreements with two third-party facilities that were impacted by severe weather events; nevertheless, the **September Forecast for CP 4** is as follows:

Guideway 99.2% Complete

Structures 100% Complete

Wildlife Crossings 100% Complete

Intrusion Protection Barrier 100% Complete

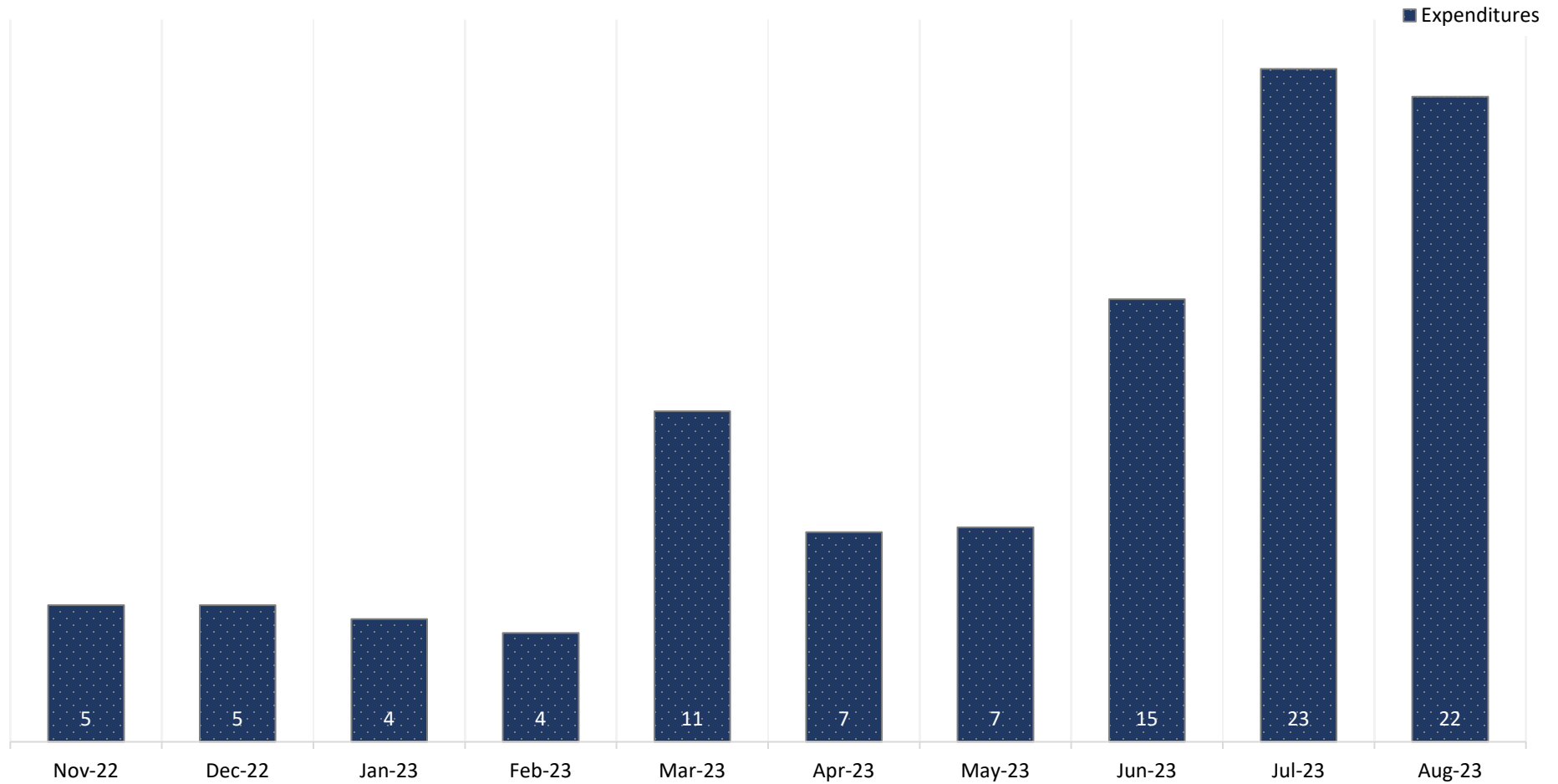


Notes:

1. Forecast period is in the final stages for construction and closeout completion.
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 – 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 \$22.3M.

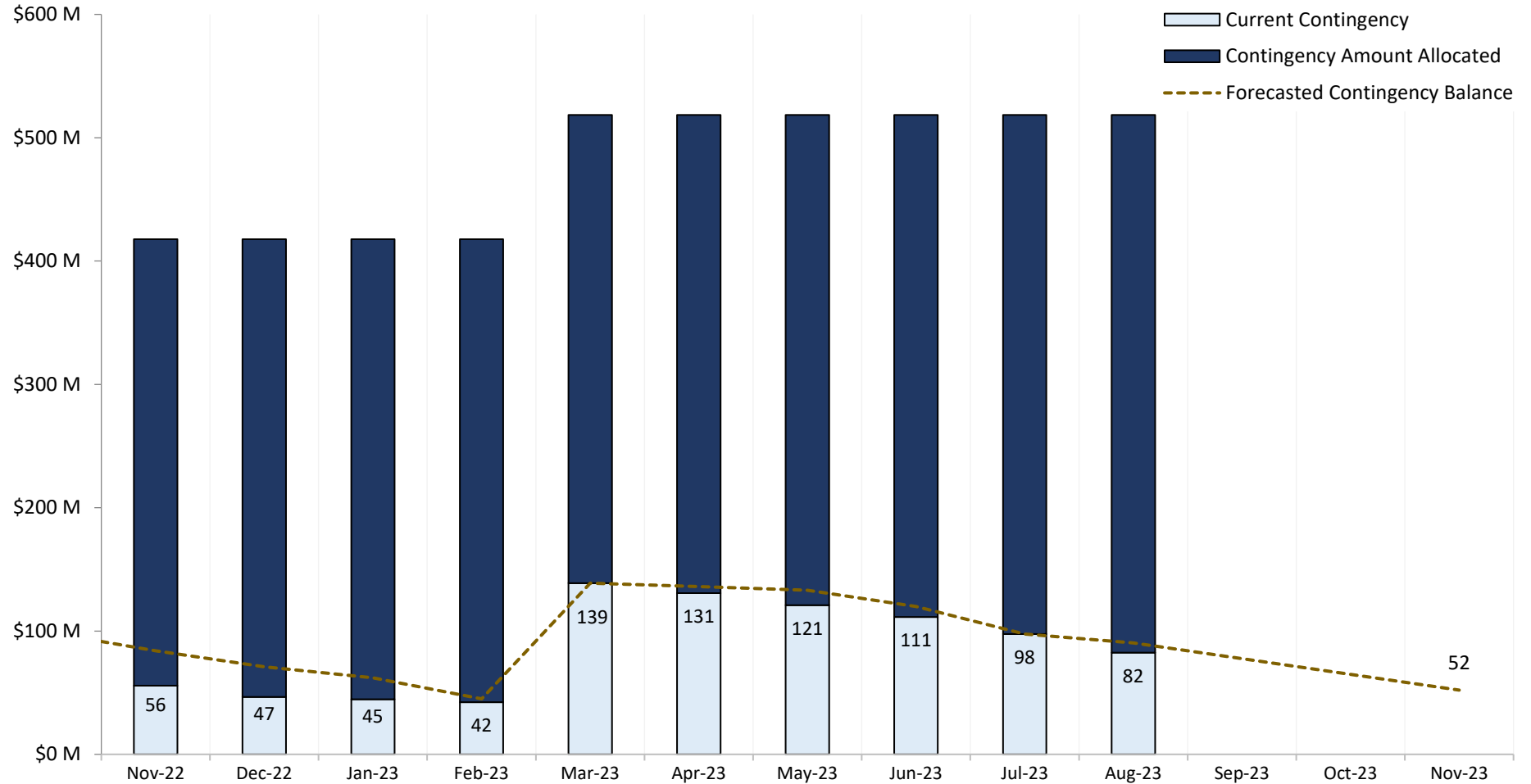
CP 4 – Change Orders (CO)

CP 4 – Change Order Status

CO Number	Title	Change Status	Amount	Executed Date
32.1.1	TIA#6 Subcontractor's Delay Costs-Griffith Company	Executed	\$631,668.40	08-16-23
208	North Kern Water Storage District Additional Costs not Covered under the Contract - 10th Submission	Executed	\$15,094.49	08-14-23
204	Environmental Monitoring Additional Costs from February 2023 through March 2023	Executed	\$422,450.79	08-13-23
TOTAL			\$1,069,213.68	

CP 4 – Risk Contingency

CP 4 – Risk Contingency Status (\$ Millions)

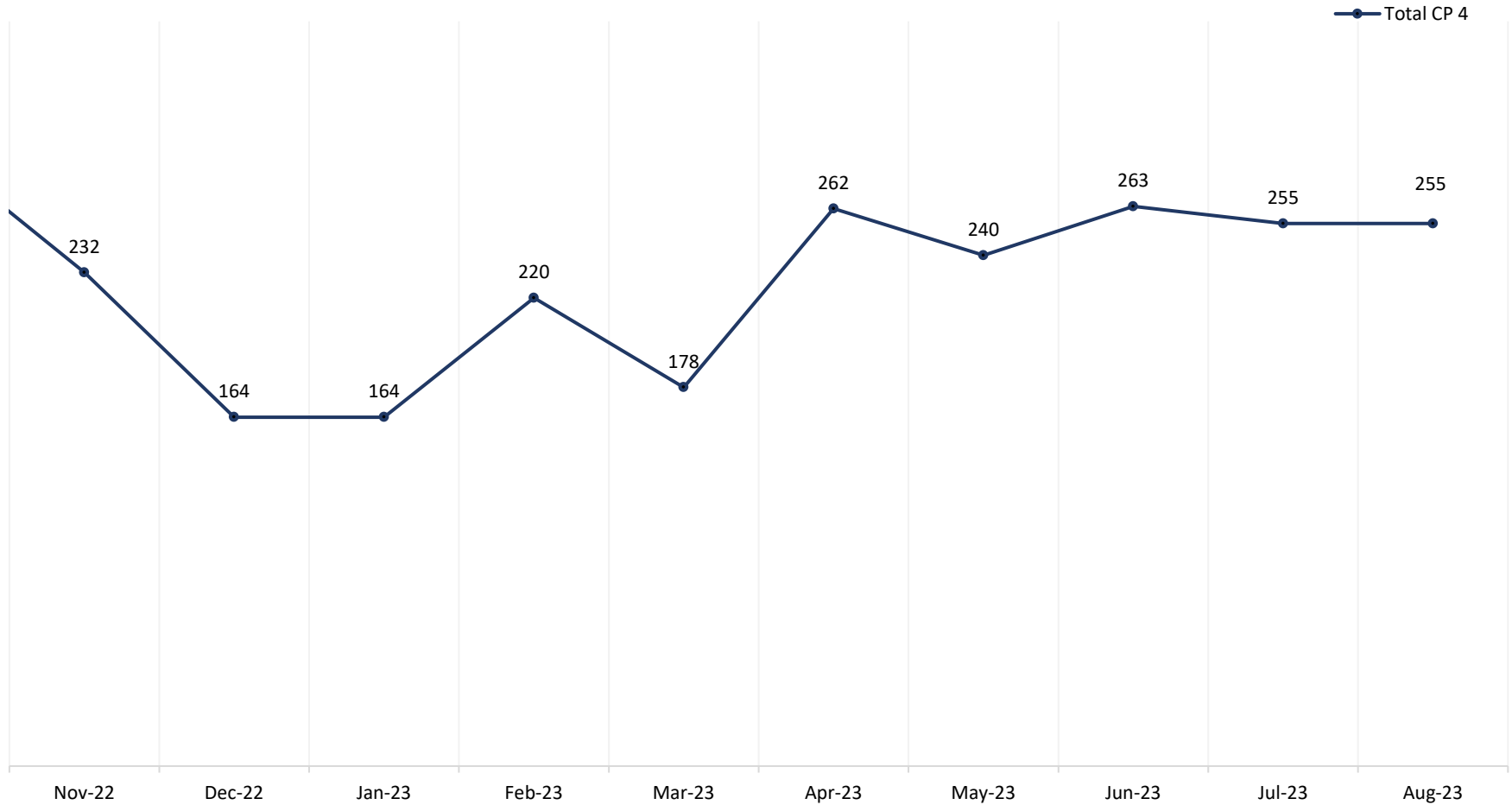


Notes:

1. March 2023 reflects the March 16, 2023 Board Expenditure Authorization which increased the total CP 4 Contingency to \$518.5M.
2. Contingency balance updated to reflect the Board's adoption of Resolution #HSR23-01 (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 4 – Monthly Construction Labor

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

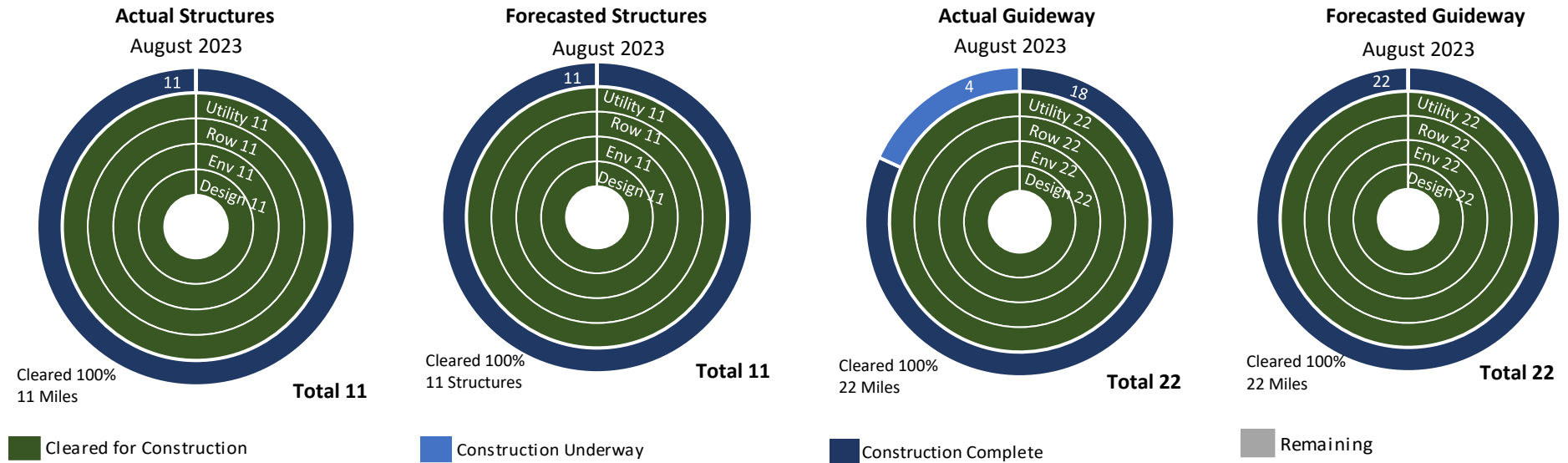


Notes:

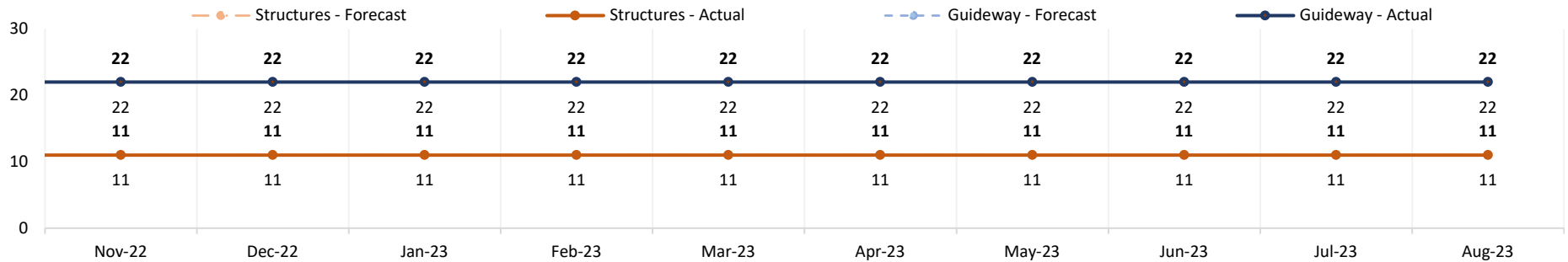
1. The construction labor numbers (full-time employees) are based on the weekly totals divided by the number of weeks within the working calendar month and represents the Average Daily Site Workers (by week).
2. No change from the previous month.

CP 4 – Construction Progress

CP 4 – Construction Progress



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



Notes:

1. The circle charts above incorporate Revised Baseline Schedules (RBS) Revision 4 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 of 11 structures completed.
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 – Utility Relocation Summary

CP 4 – High Level Summary

Status	Utility Relocations	Percentage
Total Utilities Not Started	0	0%
Total Utilities Approved to Start	0	0%
Total Utilities in Progress	23	16%
Total Utilities Relocated	120	84%
Total	143	100%

CP 4 – Summary by Utility Type

Utility	Status	Utility Relocations	Percentage
Electric	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	1	2%
	RELOCATED	61	98%
	TOTAL	62	100%
Gas	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	0	0%
	RELOCATED	7	100%
	TOTAL	7	100%
Telecom	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	2	6%
	RELOCATED	30	94%
	TOTAL	32	100%
Wet	NOT STARTED	0	0%
	APPROVED TO START	0	0%
	IN PROGRESS	20	48%
	RELOCATED	22	52%
	TOTAL	42	100%

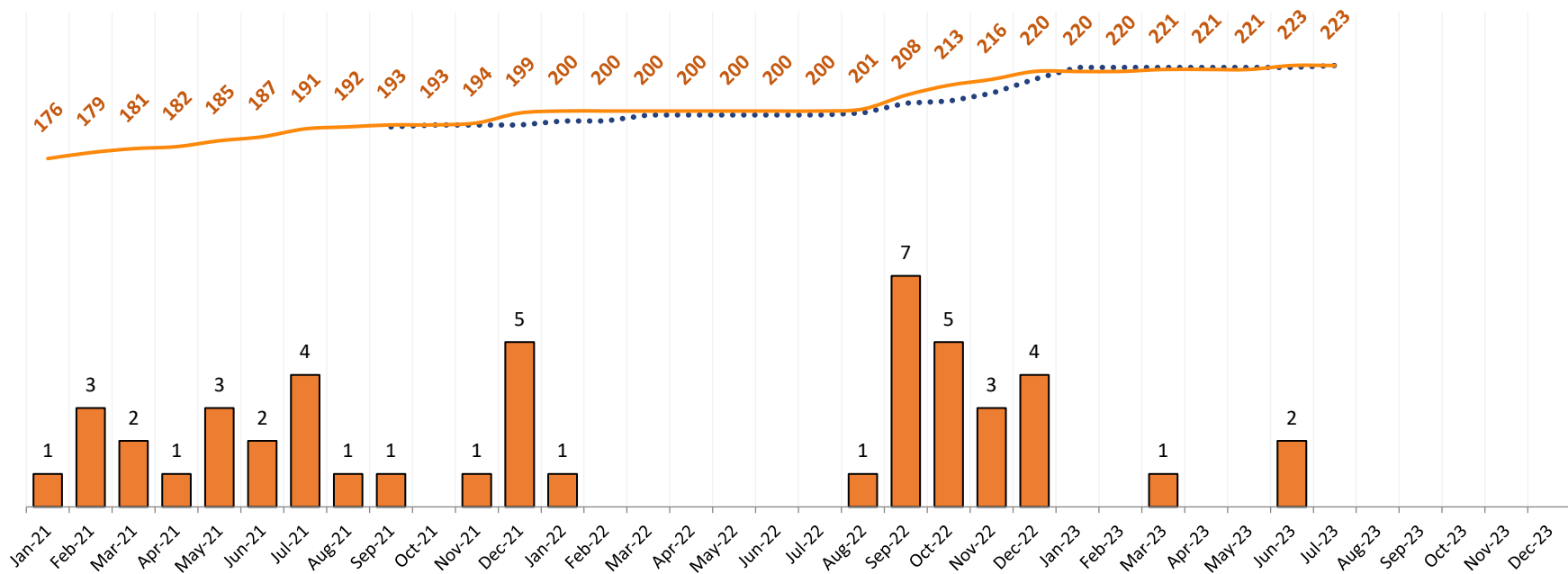
CP 4 – Real Property/Right-of-Way (ROW)

CP 4 – Right-of-Way (ROW) Summary

Construction Package	Total Needed Parcels August 31, 2023	Total Parcels Delivered to Date August 31, 2023	Remaining Parcels to be Delivered August 31, 2023
CP 4	223	223	0

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

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



Notes:

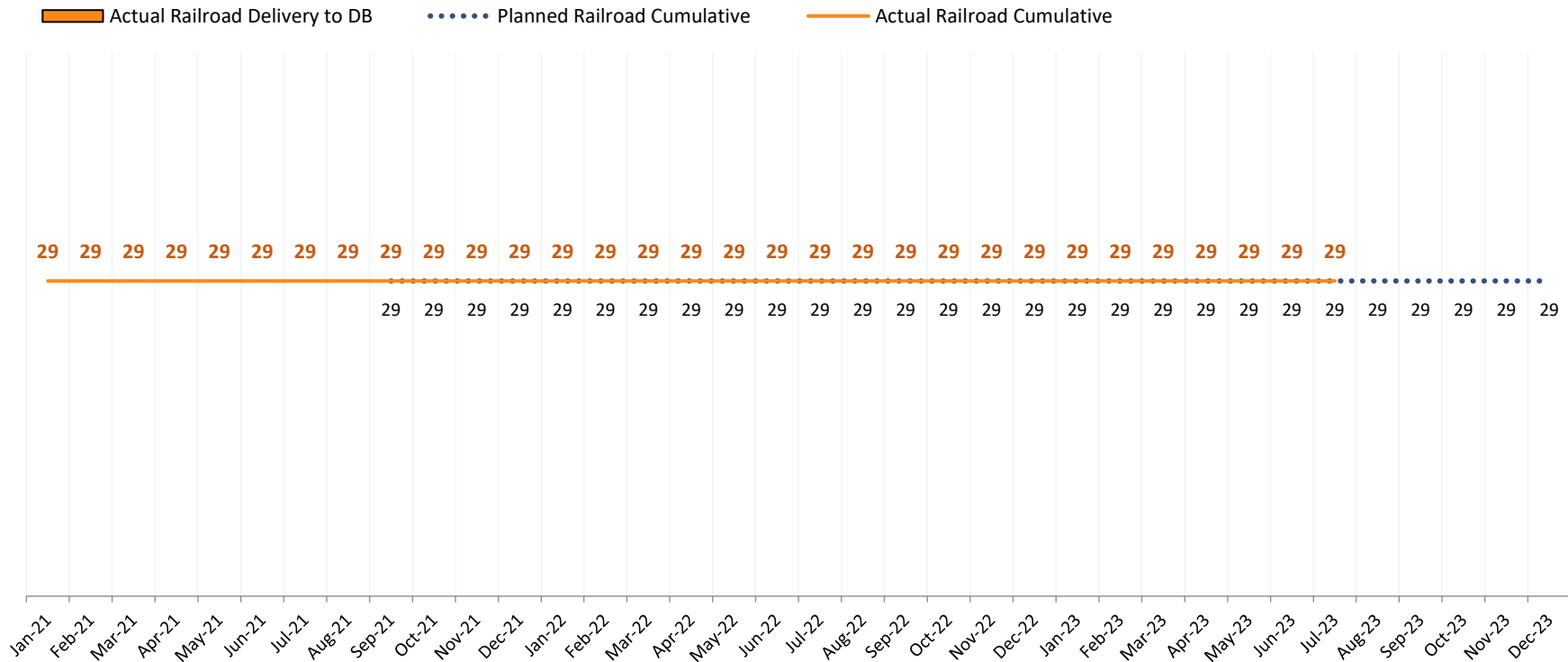
1. This reflects the actual parcels delivered to the Design-Builder by month compared to the Revised Baseline Schedule (RBS) Revision 3.

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

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

Construction Package	Total Needed Railroad Parcels August 31, 2023	Total Railroad Parcels Delivered to Date August 31, 2023	Remaining Railroad Parcels to be Delivered August 31, 2023
CP 4	29	29	0

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



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

Project Development Schedule (to ROD)

Program Priority	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	
			Number	Section	Due Dates	Last Month	Current	Last Month	Current	Last Month	Current	Last Month	Current	Last Month
Document Complete	Merced to Fresno	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Fresno to Bakersfield	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	CV Electrical Interconnections	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Locally Generated Alternative (F-B)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Central Valley Wye (M-F)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Bakersfield to Palmdale	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	Burbank to Los Angeles	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	San Jose to Merced	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
Document Complete	San Francisco to San Jose	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%
1	Los Angeles to Anaheim	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Oct-24 Oct-24 ¹	Oct-24 Oct-24 ¹	Nov-25 Nov-25 ¹	Nov-25 Nov-25 ¹	Dec-25 ¹	Dec-25 ¹
2	Palmdale to Burbank	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Complete 100%	Dec-23 Dec-23	Dec-23 Dec-23	Feb-24	Feb-24
3	Heavy Maintenance Facility (HMF)	Plan Forecast % Complete	Complete 100%	Complete 100%	Complete 100%	Complete 100%	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Note:

1. For the Los Angeles to Anaheim project section, the schedule has been revised and the baseline re-established to account for supplemental alternative analysis.
2. For the Palmdale to Burbank project section, the schedule has been revised and the baseline re-established.

Project Development – Key Actions

Project Development (Environmental Clearance) – Key Actions Summary

Project Section	Key Actions
San Francisco To San Jose	Environmental Clearance activities complete. Authority is currently in settlement discussions for ongoing litigation activities.
San Jose To Merced	Environmental Clearance activities complete. The Authority is participating in post-Record of Decision (ROD) coordination with external stakeholders such as the Transportation Authority of Monterey County, Grasslands Water District, City of San Jose, and others.
Central Valley Wye	Conducted monthly progress meeting with County of Madera on Fairmead mitigation projects. Environmental Clearance activities complete. Transition to Merced Extension (Merced to Madera).
Locally Generated Alternative	Environmental Clearance activities complete. Transition to Bakersfield Extension (LGA).
Bakersfield To Palmdale	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.
Palmdale To Burbank	Regional Consultant is preparing the Administrative Final EIR/EIS for review and approval by the Authority prior to being submitted to the Cooperating Agencies. Major activities on this project section included preparing response to comments received on the Draft EIR/EIS and preparing permitting documents.
Burbank To Los Angeles	Work through NOD/ROD has been completed. Project closeout activities are ongoing. Authority is currently in settlement discussions for ongoing litigation activities.
Los Angeles To Anaheim	The LA-A team is finalizing a Supplemental Alternative Analysis which evaluates potential project alternatives and recommends alternatives or options to advance for further study in the Draft EIR/EIS.

Project Development (Post-ROD) – Key Actions Summary

Project Section	Key Actions
Merced Extension (Merced to Madera)	Stantec Inc. under agreement HSR 22-02, continues to make progress on the 30% design goals for this Project. Stantec will have the Draft Configuration Footprint completed by December of 2023. On August 24, 2023, various Subject Matter Experts from the Authority met with Stantec to determine the format and content of the Draft Configuration Footprint. Third Party coordination is advancing with the local agencies and utility companies.
Fresno to Bakersfield Locally Generated Alternative (LGA)	HNTB Corporation (HNTB), under agreement HSR 22-01, continues to make progress on the 30% design goals for this Project. The LGA was awarded the CRISI Grant to design and construct 6 Grade Separations within the City of Shafter. The LGA and HNTB teams have held various workshops with the Authority Engineering team to review and advance various design concepts for the project. The LGA team and Caltrans will be working together over the coming month to begin the process on Project Reports needed to advance the design where the LGA alignment interacts with Caltrans ROW. Third Party coordination is advancing with the local agencies and utility companies. Initial designs for the BNSF shoofly and elevated track designs have been discussed with and provided to the BNSF team.