



February 5, 2018

To: Executive Committee

From: Darrell Johnson, Chief Executive Officer

Subject: Capital Programs Division - Second Quarter Fiscal Year 2017-18
Capital Action Plan Performance Metrics

Overview

The Orange County Transportation Authority's Strategic Plan key strategies and objectives to achieve the goals for Mobility and Stewardship include delivery of all Capital Action Plan projects on time and within budget. The Capital Action Plan is used to create a performance metric to assess capital project delivery progress on highway, grade separation, rail, and facility projects. This report provides an update on the Capital Action Plan delivery and performance metrics.

Recommendation

Receive and file as an information item.

Background

The Orange County Transportation Authority (OCTA) Capital Programs Division is responsible for project development and delivery of highway, grade separation, rail, and facility projects from the beginning of the environmental approval phase through construction completion. Project delivery commitments reflect defined project scope, costs, and schedules. Project delivery commitments shown in the Capital Action Plan (CAP) are key strategies and objectives to achieve the Strategic Plan goals for Mobility and Stewardship.

This report provides an update on the CAP performance metrics, which are the fiscal year (FY) snapshot of the planned CAP project delivery milestones in the budgeted FY. The Capital Programs Division also provides Metrolink commuter rail ridership, revenue, and on-time performance reports and metrics as part of rail program updates.

Discussion

The Capital Programs Division objective is to deliver projects on schedule and within the approved project budget. Key project cost and schedule commitments are captured in the CAP, which is regularly updated with new projects and project status (Attachment A). The CAP is categorized into four key groupings of projects; freeway projects, grade separation projects, rail and station projects, and key facility projects. Simple milestones are used as performance indicators of progress in project delivery. The CAP performance metrics provides a FY snapshot of the milestones targeted for delivery in the budgeted FY, and provides both transparency and measurement of annual capital project delivery performance.

The CAP project cost represents the total cost of the project across all phases of project delivery, including support costs, and right-of-way (ROW) and construction capital costs. The established baseline cost is shown in comparison to either the actual or forecast cost. The baseline costs may be shown as to-be-determined (TBD) if project scoping studies or other project scoping documents have not been approved, and may be updated as project delivery progresses and milestones are achieved. Projects identified in the Orange County local transportation sales tax Measure M2 (M2) are identified with the OC Go logo and corresponding M2 project letter. The CAP update is also included in the M2 Quarterly Report.

The CAP summarizes the very complex capital project critical path delivery schedules into eight key milestones.

Begin Environmental	The date work on the environmental clearance, project report, or preliminary engineering phase begins.
Complete Environmental	The date environmental clearance and project approval is achieved.
Begin Design	The date final design work begins, or the date when a design-build contract begins.
Complete Design	The date final design work is 100 percent complete and approved.

Construction Ready	The date contract bid documents are ready for advertisement, including certification of ROW, all agreements executed, and contract constraints cleared.
Advertise for Construction	The date a construction contract is advertised for bids.
Award Contract	The date the construction contract is awarded.
Construction Complete	The date all construction work is completed, and the project is open to public use.

These delivery milestones reflect progression across the project delivery phases shown below.



Project schedules reflect approved milestone dates in comparison to forecast or actual milestone dates. Milestone dates may be shown as TBD if project scoping or approval documents have not been finalized and approved, or if the delivery schedule has not been negotiated with the agency or consultant implementing the specific phase of a project. Planned milestone dates can be revised to reflect new dates from approved baseline schedule changes. Actual dates will be updated when milestones are achieved, and forecast dates will be updated to reflect project delivery status.

CAP milestones achieved in the second quarter FY 2017-18 include:

Freeway and Railroad Grade Separation Projects

- The 17th Street railroad grade separation complete environmental milestone was achieved on November 3, 2017. The estimated project cost is approximately \$133 million, which includes \$71.5 million for construction, \$39.5 million for ROW acquisition and utility relocation, and \$22 million support cost. A funding source to advance the project has not been identified.

- The complete design milestone for the Interstate 5 (I-5) widening between Oso Parkway and Alicia Parkway was achieved. This is the first of three contract segments for the widening of I-5 between State Route 73 (SR-73) and El Toro Road. The California Department of Transportation (Caltrans) is completing the ROW acquisition and final construction contract packaging, and the construction ready milestone is planned in the fourth quarter FY 2017-18.
- The construction ready milestone for addition of a second high-occupancy vehicle (HOV) lane on I-5 between State Route 55 (SR-55) and State Route 57 (SR-57) was achieved. The contract is planned to be advertised for construction bids in March 2018.
- The SR-57 northbound landscape replacement planting between Orangethorpe Avenue and Lambert Road achieved the construction ready milestone. The landscape construction contract was advertised, and bids will be opened on January 31, 2018.
- Construction of the State Route 91 westbound landscape replacement planting between SR-57 and I-5 was completed in November 2017.

Rail and Station Projects

- The OC Streetcar project achieved completion of the design, construction ready, and advertise construction milestones. Opening of construction bids will be subject to finalization of acquisition and possession of ROW, and the federal full funding grant agreement.

The following CAP milestones missed the planned delivery through the second quarter of FY 2017-18.

Rail and Station Projects

- The Laguna Niguel/San Juan Capistrano railroad passing siding complete design and construction ready milestones were missed. Final design comments from Metrolink and the City of San Juan Capistrano (City) are being incorporated. In addition, the City is requesting the project comply with the City jurisdictional municipal separate storm sewer system water quality control permitting requirements. OCTA's longitudinal rail corridor projects typically obtain and comply with State and Regional Water Quality Control general construction permits and associated post-construction operating conditions. Additional time is needed to resolve the water quality control

permitting concerns with the City. The complete design and construction ready milestones will be completed in the fourth quarter, and the advertise construction milestone has now moved into the first quarter of FY 2018-19.

- As reported last quarter, the Placentia Metrolink Station construction ready milestone was missed. Discussions are ongoing with BNSF Railway for station approval, City of Placentia acquisition of required railroad ROW, and the railroad construction and maintenance agreement. The project was scheduled to be advertised for construction in the second quarter FY 2017-18. However, based on discussions with BNSF regarding the current status of reviews and approvals, the earliest possible advertisement for construction would be in the first quarter of FY 2018-19.

Recap of FY 2017-18 Performance Metrics

The CAP and performance metrics snapshot provided at the beginning of FY 2017-18 includes 18 planned major project delivery milestones to be accomplished through the second quarter. The CAP and performance metrics have been updated to reflect milestones achieved and missed through the second quarter (Attachments A and B). Fifteen milestones were achieved through the second quarter of FY 2017-18 (83 percent).

FY 2017-18 Cost and Performance Metric Look Ahead and Risks

Construction of the I-5 HOV lane addition between Pacific Coast Highway and San Juan Creek Road, the northerly of three widening segments, should be completed in early 2018. Caltrans and OCTA staff continue evaluating notices of potential claims submitted by the contractor for costs which may exceed the construction budget.

Combined forecast at completion cost estimates for the three I-5 widening segments between SR-73 and El Toro Road still indicate cost may exceed the combined \$482 million baseline cost estimate by approximately \$66 million. Staff will continue to work with Caltrans and consultant designers to assess costs and value engineer the design where possible as final design progresses toward completion.

The SR-55 widening between Interstate 405 and I-5 carries risk for increased construction, ROW, and utility costs as Caltrans prepares 35 percent design and the required design exception studies/approvals needed to accommodate the widened freeway cross-section. The project team continues to explore

opportunities to further reduce impacts to ROW and utilities as the early design progresses.

OC Streetcar Project Delays

The OC Streetcar project construction bid opening date, originally advertised for March 5, 2018, has been extended to April 27, 2018. The earliest opportunity for contract award is at the June 25, 2018 Board of Directors meeting. This is the result of delays in processing and approvals needed to secure the \$148,960,000 Federal 5309 New Starts Full Funding Grant Agreement, delays in timing to obtain possession of ROW required for construction of the maintenance and storage facility, and requests from contractors for additional time to prepare bids.

Summary

Significant capital project delivery progress continues to be made and reflected in the CAP. Staff will continue to manage project costs and schedules across all project phases to meet project delivery commitments and report quarterly.

Attachments

- A. Capital Action Plan, Status Through December 2017
- B. Capital Programs Division, Fiscal Year 2017-18 Performance Metrics Through December 2017

Prepared by:

A handwritten signature in blue ink, appearing to read "James G. Beil".

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