



Los Angeles  
World Airports

PLANNING & DEVELOPMENT GROUP

# PLANNING & DEVELOPMENT GROUP

## Executive Management Program Status Report

July 31, 2018



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# COMMONLY USED ACRONYMS

<b>ADA</b>	<i>Americans with Disabilities Act</i>
<b>AOA</b>	<i>Airfield Operations Area</i>
<b>CBP</b>	<i>Customs &amp; Border Patrol</i>
<b>CGMP</b>	<i>Component Guaranteed Maximum Price</i>
<b>CTA</b>	<i>Central Terminal Area</i>
<b>EAC</b>	<i>Estimate at Completion</i>
<b>EIR</b>	<i>Environmental Impact Report</i>
<b>FAA</b>	<i>Federal Aviation Administration</i>
<b>FIS</b>	<i>Federal Inspection Services</i>
<b>FLSS</b>	<i>Fire &amp; Life Safety Systems</i>
<b>IT</b>	<i>Information Technology</i>
<b>LADBS</b>	<i>Los Angeles Department of Building and Safety</i>

<b>LADWP</b>	<i>Los Angeles Department of Water &amp; Power</i>
<b>LAWA</b>	<i>Los Angeles World Airports</i>
<b>MSC</b>	<i>Midfield Satellite Concourse</i>
<b>NTP</b>	<i>Notice to Proceed</i>
<b>PBB</b>	<i>Passenger Boarding Bridge</i>
<b>PDG</b>	<i>Planning &amp; Development Group</i>
<b>RON</b>	<i>Remain Over Night</i>
<b>RSA</b>	<i>Runway Safety Area</i>
<b>SSCP</b>	<i>Security Screening Checkpoints</i>
<b>TBIT</b>	<i>Tom Bradley International Terminal</i>
<b>TIA</b>	<i>Time Impact Analysis</i>



## Purpose

This report is a tool to provide status of the Capital Projects for the Planning & Development Group. The report is divided into Elements; and includes a status update for active projects followed by the schedule, budget and change order summary. The Program Wide tab includes the budget summary and contractor participation summary.



## Airside Element

The Airside Element consists of multiple projects necessary for accommodating the movement of aircraft between the north and south airfields; reconfiguring traffic movement to accommodate the modernization programs; and provide airfield improvements as required by Airfield Operations, the FAA and other Federal and State regulatory agencies.





### Utilities and Landside Element

These capital improvement projects implement roadway, landside, utility and infrastructure enhancements that support the Terminal and Airport operations within the CTA and include: roadway enhancements focused on improving the passenger experience within the CTA; and landside improvements, typically related to public transportation access, warehouse and cargo areas, access roads and perimeter fencing.



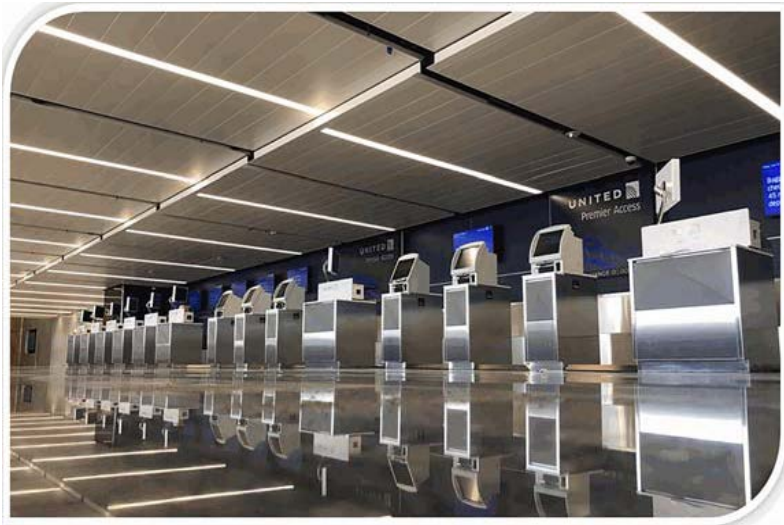
### Terminal Element

Most of LAX's terminals have served their purpose without major renovations or modernization efforts for years. As needs change, the terminal spaces and structures need repairs, upgrades, modernization, and standardization to satisfy these changing demands. The Terminals Element is focused on implementing these necessary improvements in specific terminals and/or across multiple terminals.



### MSC Element

The MSC will function primarily as an international departure and arrival concourse. The MSC will have a flexible flight line allowing it to accommodate both wide and narrow body aircraft.



### Tenant Improvements Element

Many terminal improvements are managed directly by the airlines and concession stakeholders. LAWA adopts an oversight role for these improvements, ensuring that these renovations improve or enhance the customer experience, adhere to the Design and Construction Handbook and maintain strict safety and security mandates. The projects reported within this section may be in various stages, e.g. planning, design or construction.

## User's Guide – Project Status Section

The projects reported within each Element are categorized into one of the following three categories.

### Projects in Planning

Projects in this category are in the Planning stage and are undergoing conceptual design. Once the conceptual design has sufficiently progressed, these projects will be transferred from this category into the Projects in Development or design category.

### Projects in Design

Projects in this category are in the Design or Bid stage and do not yet have an awarded construction contract. Once a construction contract is awarded, these projects will be transferred from this category into the Projects in Construction category.

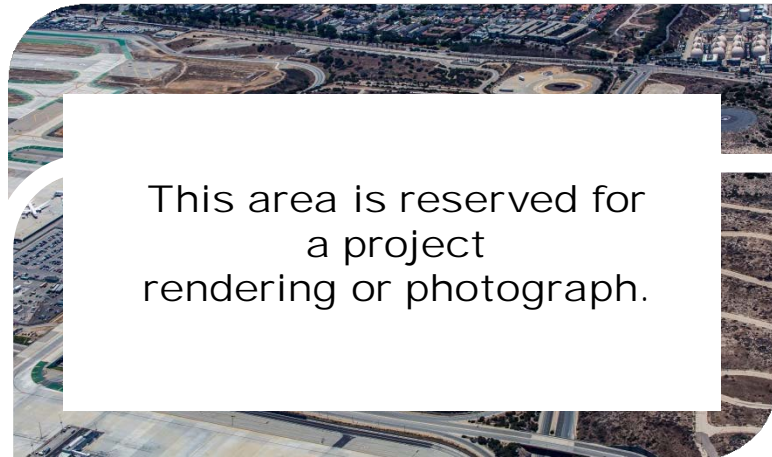
### Projects in Construction

Projects in this category have an awarded construction contract. Each project in this category presents the scope of work, a progress narrative, a Budget and Schedule graphic to depict progress and a narrative describing the current status or issues.

# PROJECT STATUS OVERVIEW

## Project Description

The narrative provides a summary overview of the project scope.



## Recent Project Achievements

This section highlights project achievements during the reporting period.

## Budget Status

This section discusses the project's budget performance.

## Schedule Status

The section discusses the project's schedule performance.

### Status Section

Calculated as Incurred divided by Estimate at Completion (EAC), this pie chart depicts the percentage incurred for the expected cost.

### Construction Cost

Calculated as Incurred divided by Construction Contract value, this pie chart depicts the percentage incurred for the construction contract.

### Construction Duration

Calculated as Days Elapsed divided by construction contract duration, this pie chart depicts the percentage of contract time elapsed.

### Contingency

This pie chart describes the percentage of contingency already allocated and the remaining amount.  
Note: Funds not used are returned to the Program Unallocated Contingency account.

As of: November 1, 2015				Status	Completion Date	Variance to Baseline Finish (Days)
This area presents the schedule information for key project milestones and provides a status indicator for whether it is ahead of schedule, behind schedule or on-time.						

\*Costs are rounded off to the nearest dollar



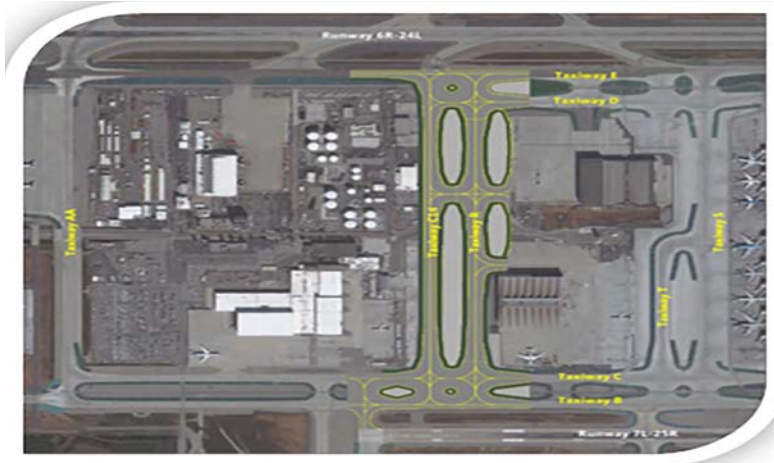


## Maintenance Facility Relocation - Phase 1

This project involves the phased relocation and consolidation of five existing Facilities Maintenance and Utilities facilities and the Procurement Services Warehouse. Work includes site improvements, offices, shops, storage facilities, fleet and employee parking with electric vehicle chargers, airport operation area fencing and access post(s).

The project team is coordinating with the various stakeholders. During July 2018, the project team worked with the Facilities Maintenance and Utilities Group to facilitate their review of the site options.

# Airside Element: Projects in Design



## Taxiway C-14

The project consists of the construction of a new Taxiway C14, airside vehicle service road and the associated enabling projects that will provide unimpeded taxiway flow between the north and south airfields as well as a dual parallel taxiway capability for the North Runway complex. The project will include demolition and/or relocation of existing facilities such as Remain Over Night (RON) parking, water deluge tank, hangar facilities, electrical vault, and other infrastructures as enabling projects to facilitate the construction of Taxiway C14. Access along the existing landside roadway at Coast Guard Road and the tunnel roadway at World Way West may be affected by the construction of Taxiway C14.

During July 2018, Staff finalized the Request for Construction Bids and expects to advertise in August 2018.



## VNY Taxiway B Rehabilitation (Phase 1)

The phase 1 project reconstructs the northern portion of Taxiway B from Taxiway R to Taxiway C at VNY. The project rehabilitation will include full reconstruction of the deteriorated Taxiway B pavement, connector taxiway reconstruction, airfield lighting and airfield signage improvement, pavement marking and infield grading and drainage improvements.

During July 2018, construction bids were received and the responsive low-bidder was identified. Staff commenced the administrative process to recommend award and anticipates presenting it to the Board in September 2018.



## Runway 7R-25L Rehabilitation

This project involves the reconstruction of Runway 7R-25L and associated exit taxiways deteriorated concrete pavement to extend the useful life and minimize airfield operational impacts.

During July 2018, the designer progressed the design activity and anticipates completing the 30% design submittal in August 2018. Design is scheduled to complete by mid-2019.

Project Description

This project is a result of LAWA's decision to descope components from the Runway 7L-25R Safety Improvement and Pavement Rehabilitation Project on January 31, 2017. The repackaged scope comprises the following:

- Reconstructing a 100-foot wide keel section of Runway 25R extending from Taxiway F to Taxiway G;
- Reconstructing the 50-foot wide main wheel gear section of Runway 25R from Taxiway G to Taxiway N;
- Reconstructing the Runway 25R/Sepulveda Tunnel cap structure;
- Constructing the Taxiway B17 connection to Taxiway C; and
- Installing new airfield lighting and other miscellaneous items.



Recent Project Achievements

The contractor reopened the full length of Taxiway C on July 2, 2018 and declared substantial completion. The contractor commenced punchlist and contract close-out activities.

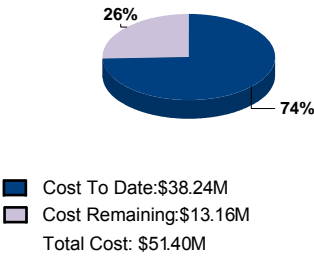
Budget Status

The project is trending on budget.

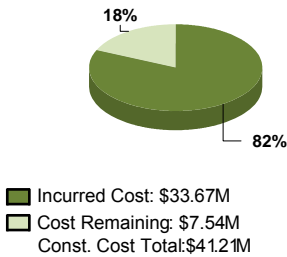
Schedule Status

The contractor completed the work and declared substantial completion on July 2, 2018. Punchlist and contract close-out activities are underway.

Project EAC Cost



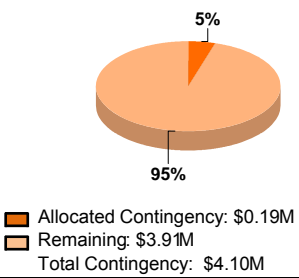
Construction Cost



Construction Duration

The project declared Substantial Completion on July 2, 2018.

Contingency



As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
Runway 25R Reconstruction (Construction)					
Runway 25R Reconstruction - Construction NTP		Started	25-Sep-17		
Runway 25R Reconstruction - Substantial Completion		Complete		2-Jul-18	-18
<div>Status<ul style="list-style-type: none"><li>Awaiting NTP</li><li>Target Milestone</li><li>On-Time</li><li>Behind Schedule</li><li>Requires Mitigation</li></ul></div>					



# AIRSIDE ELEMENT PROJECTS IN DELIVERY

## Airport Surface Management System

### Project Description

The Airport Surface Management System (ASMS) will provide the essential airfield situational awareness and business intelligence needed to effectively predict, detect and respond to critical operational issues and to realize opportunities for operational improvement, such as increased taxiing efficiencies and optimized gate utilization.



As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
Airport Surface Management System (Construction)					
Airport Surface Management System - Construction NTP		Started	10-Aug-17		
Airport Surface Management System - Substantial Completion		●		30-Sep-18	-50
<div>Status</div> <div> <div>● Awaiting NTP</div> <div>○ Target Milestone</div> <div>● On-Time</div> <div>● Behind Schedule</div> <div>● Requires Mitigation</div> </div>					

### Recent Project Achievements

During July 2018, construction started in the greenfield areas of the airport. The project team completed their testing of the updated software (Aerobahn 9.2) and it was launched on July 24, 2018.

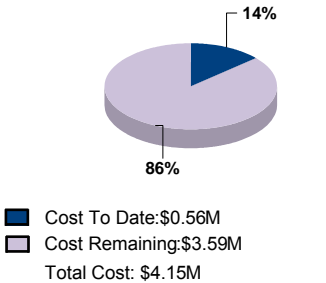
### Budget Status

The project is trending on budget. The contractor will submit pay requests as phases are completed.

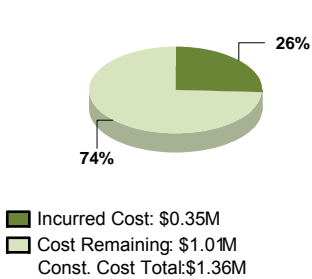
### Schedule Status

The project is currently tracking 50-days behind schedule, due to the project review and permitting process requiring more time than anticipated. The electrical permitting process is progressing and the project team and contractor are working to mitigate any additional delay.

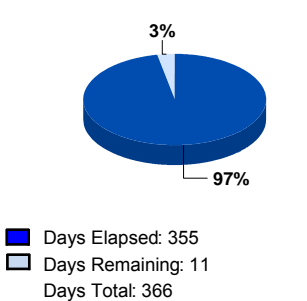
Project EAC Cost



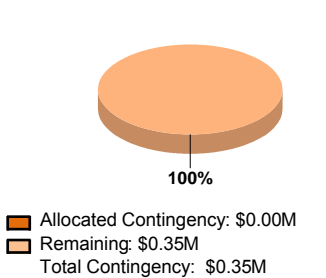
Construction Cost



Construction Duration



Contingency



# AIRSIDE ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Capital Budget 1</b>						
Closed	Taxilane 'S'	174,980	162,053	162,053	162,053	162,053	0
Closed	Taxilane 'T' - Enabling	23,564	21,726	21,726	21,726	21,726	0
Closed	Taxilane 'T' - Phase 1	56,479	50,240	50,240	50,240	50,240	0
Close-out	Taxilane 'T' - Phase 2	15,413	15,409	13,421	12,580	15,034	376
Closed	Qantas Hangar Demolition	27,758	18,805	18,805	18,805	18,805	0
Closed	Associated Projects	1,340	2,330	2,330	2,330	2,330	0
Closed	Crossfield Taxiway Project	177,760	137,931	137,931	137,931	137,931	0
Closed	LAX Aircraft Rescue and Fire Fighting Facility	14,190	14,155	14,155	14,155	14,155	0
Closed	Construction Support Facilities	14,790	0	0			0
Closed	American Airlines Settlement	27,250	21,428	21,428	21,428	21,428	0
	<b>Subtotal: Capital Budget 1</b>	<b>533,524</b>	<b>444,077</b>	<b>442,089</b>	<b>441,248</b>	<b>443,702</b>	<b>376</b>
	<b>Capital Budget 2</b>						
Closed	ONT Runway 8L/26R RSA Improvement	4,467	4,112	4,112	4,112	4,112	0
Closed	Pavement Management Program - VNY Taxilane A2 Rehabilitation and RSA Improvements	7,970	5,065	5,065	5,065	5,065	0
Closed	Pavement Management Program - VNY Taxilane A2 Rehabilitation - Phase 2	2,933	2,521	2,521	2,521	2,521	0
Closed	VNY Runway 16R Rehabilitation	20,483	17,765	17,765	17,765	17,765	0
Closed	Taxilane D-10 Reconstruction	9,062	7,456	7,456	7,456	7,456	0
Closed	AOA Perimeter Fence - Phase 4	6,506	4,722	4,722	4,722	4,722	0
	<b>Subtotal: Capital Budget 2</b>	<b>51,421</b>	<b>41,641</b>	<b>41,641</b>	<b>41,641</b>	<b>41,641</b>	<b>0</b>

Notes: 1. The Baseline Budget and Current Budget will change as scope is approved by the Board of Airport Commissioners and moves from Development to Delivery.  
2. This report is for project management purposes only. Amounts shown above as "Incurred to Date" for projects may reflect aggregate amounts for multiple project components tracked in LAWA's financial system. These amounts may differ from those reflected in LAWA's accounting systems, due to the timing of expense recognition or other accounting practices, and should not be relied upon for investment purposes.

# AIRSIDE ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Capital Budget 3</b>						
Close-out	Runway 25R Reconstruction	56,207	56,207	48,365	38,237	51,396	4,811
Close-out	Runway 7L-25R Safety Area Improvements and Pavement Rehabilitation	163,151	163,151	144,380	118,181	135,386	27,765
Close-out	West Aircraft Maintenance Area	100,654	100,654	96,431	96,431	96,431	4,223
Closed	Runway 25L Safety Area Improvements and Temporary Repairs	23,745	17,244	17,244	17,244	17,244	0
Close-out	Runway 6L-24R RSA Improvements and Rehabilitation	40,371	31,571	31,522	31,250	31,522	49
Close-out	Runway 6R-24L Safety Area Improvements	72,324	60,024	59,958	59,774	59,958	66
Active	Airport Surface Management System	4,500	4,500	1,923	561	4,150	350
	<b>Subtotal: Capital Budget 3</b>	<b>460,952</b>	<b>433,351</b>	<b>399,823</b>	<b>361,678</b>	<b>396,087</b>	<b>37,264</b>
	<b>Airside Element: Total</b>	<b>1,045,897</b>	<b>919,069</b>	<b>883,553</b>	<b>844,567</b>	<b>881,430</b>	<b>37,640</b>

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# AIRSIDE ELEMENT PROJECTS IN DEVELOPMENT

## BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Estimate	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Projects in Development</b>						
	Taxiway C14	Procurement In Progress	TBD	5,178	4,372	TBD	TBD
	VNY Taxiway B Rehabilitation - Phase 1	Procurement In Progress	TBD	2,097	1,989	TBD	TBD
	Runway 7R-25L Rehabilitation	62,000	TBD	612	12	TBD	TBD
	<b>Airside Element: Projects in Development</b>	<b>62,000</b>	<b>TBD</b>	<b>7,887</b>	<b>6,373</b>	<b>TBD</b>	<b>TBD</b>

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# AIRSIDE ELEMENT CHANGE ORDERS MONTH OF: 7/31/2018

Project Contract		Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
AIRSIDE ELEMENT						
DA-5227 - RUNWAY 25R RECONSTRUCTION (DA-5227)						
7/23/2018	DA-5227	0006	\$18,129			Phase 2 - Temp Airfield Work, Repair Damaged Conduit Near Sepulveda Bridge and at no cost Grinding of High AC in Phase 28.



## Receiving Station (RS-X) Project

This initiative will provide for a new power distribution facility and associated power distribution duct banks and infrastructure to meet the future power demands as noted in the LAX Utilities Infrastructure Plan. Additionally, this facility will significantly mitigate the power anomalies and interruptions in the LADWP power distribution system that result in power interruptions to our terminals and buildings west of Sepulveda Blvd (primarily the CTA and West side).

Staff commenced developing the Request for Proposals and anticipates presenting it to the Board for approval in September 2018. The procurement process would begin following the approval.



## Recycled Water Extension

This project will complete the Recycled Water (RW) piping and building connection infrastructure on the LAX campus to receive and distribute advanced treated recycled water to be produced at the Hyperion Water Reclamation Plant. Included will be the placement of 8800 feet of 12" RW piping and 1600 feet of 6" RW piping, along with the appropriate valves, meters, and system appurtenances necessary to convey advanced treated water across the LAX campus. Points of connection include, but are not limited to the Midfield Satellite Concourse, Bradley West, Central Utility Plant, Terminal 1.5, and Concourse 0.

During July 2018, the project team progressed the administrative process to prepare a design task order.

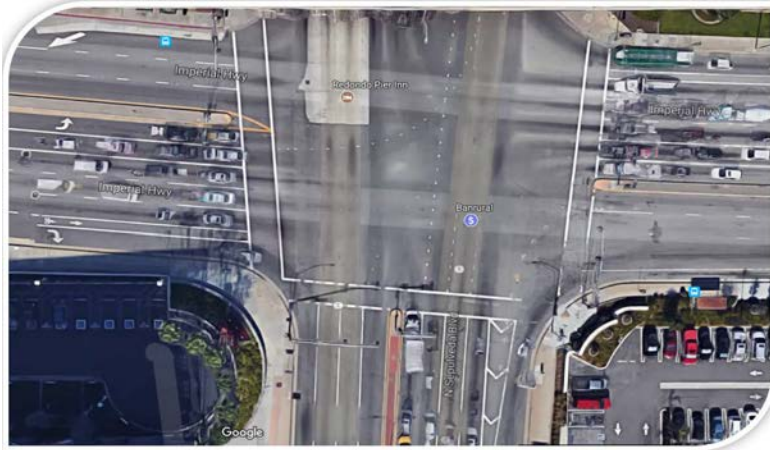


## Secured Area Access Post - Westside

This project will construct a new Secured Area Access Post (SAAP) on World Way West as a permanent replacement to Post 21 and to provide AOA access for the west side of LAX. This new SAAP will serve as a prototype for future SAAPs.

Through July 2018, the project team and designer progressed the design development. The design and contract procurement activities are anticipated to complete in the first quarter of 2019.

# UTILITIES & LANDSIDE ELEMENT: Projects in Design



## Bradley West Traffic Mitigation - Sepulveda Boulevard and Imperial Highway

This project will add a second northbound right turn lane on Sepulveda Boulevard at eastbound Imperial Highway in order to comply with the EIR for the Bradley West Project.

Traffic studies, preliminary design and coordination activities are underway with CalTrans to finalize the project scope and mitigate potential environmental issues. Construction is anticipated to commence by mid-2019.



## Fire Drill Facility Recommissioning

This project will return the LAX Fire Drill Training Facility to full operation for live jet fuel fire training exercises in order to comply with FAA regulations. The scope of work includes removal of the remaining two underground storage tanks, all underground fuel piping, the original wastewater pretreatment system and remaining motor control and electrical panels. New infrastructure will include above ground storage tanks for jet fuel, waste fuel, water storage and a wastewater pretreatment system. New electrical panels and a new controls system will also be installed.

Through July 2018, the project team progressed the administrative process to issue the Request for Construction Bids. It is anticipated the request for bids will be released in the fourth quarter of 2018.



# UTILITIES & LANDSIDE ELEMENT: Projects in Design



## CTA Domestic Water Pipe Replacement

This project will implement necessary improvements to increase reliability and redundancy within the domestic water system and mitigate the existing fire flow deficiencies at Terminals 1 through 8.

The project team is validating the scope, construction delivery method assessment and coordinating with other construction efforts in and around the CTA.



## CTA Chilled Water & Heating Hot Water Distribution Rehab. - Phase 1

This project is the first phase of a larger project to remove all of the remaining asbestos-cement (AC or Transite) piping within the CTA. Phase 1 will remove the AC supply and return chilled water and heating hot water piping between the CUP and Terminal 1, and relocate them to the service access road south of the Theme Building and north on lower East Way to the same terminus. The piping will be changed to carbon steel and upsized for increased line capacity.

The project team is validating the scope, construction delivery method assessment and coordinating with other construction efforts in and around the CTA.



## Continental G.O. Building Demolition

This project involves the demolition of the former Continental Airlines General Office (G.O. Building). The scope of work includes hazardous material abatement, rectifying utilities serving adjacent facilities that are interconnected with utilities within the G.O. Building, and constructing new exterior wall skin in locations where removal of the G.O. Building will result in exposing walls of adjacent and connected buildings.

Through July 2018, the project team advanced the administrative process to issue the Request for Construction Bids. The project has been delayed due to the pending National Environmental Policy Act (NEPA) review and it is anticipated that construction will commence in the fourth quarter of 2018.

Project Description

This project will remodel the restroom facilities of the Lot C Bus Depot Building to meet current ADA requirements and reconstruct the access ramp between the parking lot and the building entrance to ADA standards. Related project work also includes updating the plumbing, electrical connection and fixtures in the Bus Depot.

The Bus Shelter scope is to remove and replace nine existing parking lot shelters. In addition, new shelters with solar lighting will be installed at six bus stop locations that do not currently have shelters. The project also includes procurement and installation of a separate shelter between Terminals 1 and 2 on the Departures level of the CTA. One salvaged shelter from Lot C will also be installed adjacent to the existing shelter at the employee stop.



Recent Project Achievements

The ADA construction effort at the Bus Depot is complete. The Landside Access Modernization Program team is revising the Lot C site configuration, which is reducing the number of bus shelters and changing their location.

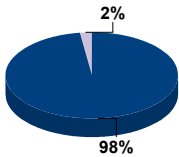
Budget Status

During July 2018, Staff completed the administrative process to increase the budget due to unforeseen conditions at the Bus Depot building and additional LAWA Maintenance construction resources. The project is trending on budget.

Schedule Status

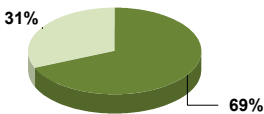
The project is on hold, due to the required reconfiguration of Lot C and the coordination with the Landside Access Modernization Program team and their contractor.

Project EAC Cost



Cost To Date:\$0.82M  
Cost Remaining:\$0.02M  
Total Cost: \$0.84M

Construction Cost

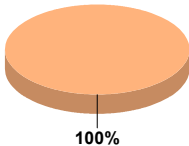


Incurred Cost: \$0.75M  
Cost Remaining: \$0.34M  
Const. Cost Total:\$1.09M

Construction Duration

This project is on hold  
pending the  
reconfiguration of Lot C

Contingency



Allocated Contingency: \$0.00M  
Remaining: \$0.14M  
Total Contingency: \$0.14M

As of: July 31

	Status	Construction Start	Construction Finish	Variance to BL Finish
Lot C Improvements (Construction)				
Lot C Improvements - ADA Improvements - Construction NTP	Started	1-Nov-15		
Lot C Improvements - ADA Improvements - Substantial Completion	Complete		26-Feb-16	
Lot C Improvements - Bus Shelter - Construction NTP	Started	1-May-17		
Lot C Improvements - Bus Shelter - Substantial Completion	○		On Hold	
<div>● Awaiting NTP</div> <div>○ Target Milestone</div> <div>● On-Time</div> <div>● Behind Schedule</div> <div>● Requires Mitigation</div>				



# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## North Central Outfall Sewer (NCOS) Connection

### Project Description

This project will capture the storm water flow in LAX's central/southwest area known as the Imperial Watershed and meet the requirements set forth in MOU between LAWA and the Los Angeles Bureau of Sanitation (LA SAN). Scope of work includes a new connection from LAX Pershing/Imperial Detention Basin to the North Central Outfall Sewer (NCOS) Interceptor.



### Recent Project Achievements

Through July 2018, the contractor has completed 70% of the wet weather pump station and 70% of the electrical ductbank and infrastructure.

### Budget Status

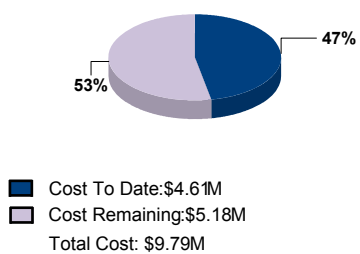
The project is trending on budget, but the project team is analyzing the potential budget impact that an extended construction duration may cause. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

### Schedule Status

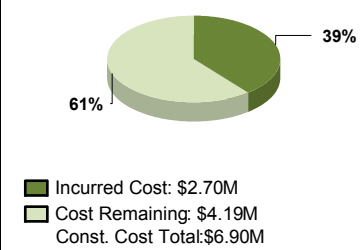
The project is currently 57 days delayed due to the contractor not having obtained a required permit to start the new junction structure work within the city easement; and the contractor substituting a subcontractor on their team. The project team and contractor are evaluating mitigation strategies for this delay.

As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
North Central Outfall Sewer (NCOS) Connection (Construction)					
North Central Outfall Sewer (NCOS) Connection - Construction NTP		Started	2-Oct-17		
North Central Outfall Sewer (NCOS) Connection - Substantial Completion		●		20-Nov-18	-57
<div> <div>● Awaiting NTP</div> <div>○ Target Milestone</div> <div>● On-Time</div> <div>● Behind Schedule</div> <div>● Requires Mitigation</div> </div>					

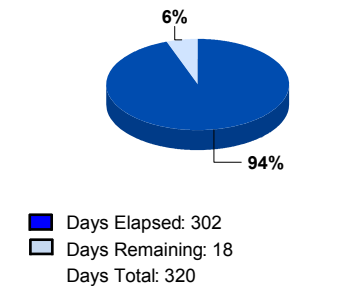
### Project EAC Cost



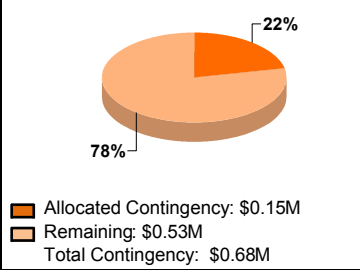
### Construction Cost



### Construction Duration



### Contingency



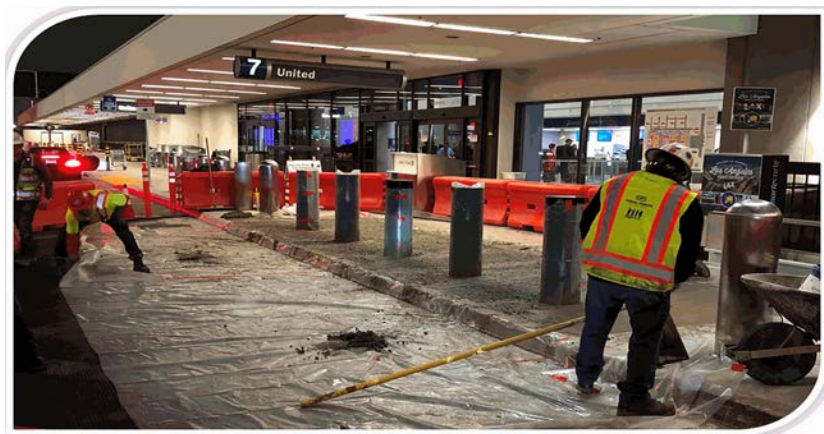


# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## CTA Departure & Arrival Levels Security Bollards Phase 2

### Project Description

The purpose of this project is to provide additional passenger security by installing approximately 1,800 K-rated (crash-rated) bollards on the Departures (779 bollards) and Arrivals (967 bollards) levels in the Central Terminal Area (CTA) and Commercial Median Islands.



### Recent Project Achievements

Through July 2018, the contractor has installed 557 bollards on the Departures level and 559 bollards on the Arrivals level.

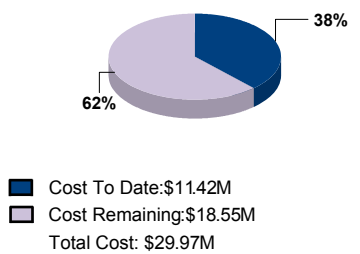
### Budget Status

The project is trending on budget. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

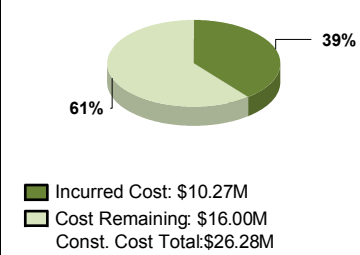
### Schedule Status

The project is tracking to schedule.

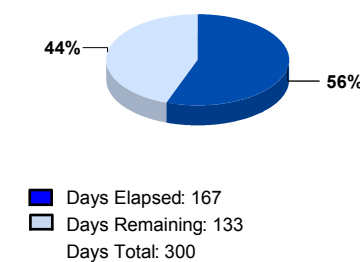
#### Project EAC Cost



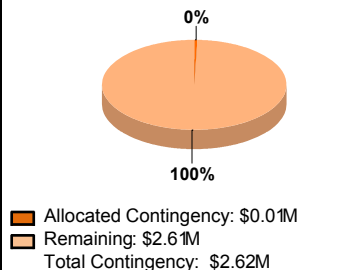
#### Construction Cost



#### Construction Duration



#### Contingency



As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
CTA Departure & Arrival Levels Security Bollards Phase 2 (Construction)					
CTA Departure & Arrival Levels Security Bollards Phase 2- Construction NTP		Started	14-Feb-18		
CTA Departure & Arrival Levels Security Bollards Phase 2 - Substantial Completion		●		10-Dec-18	0
<b>Status</b> ● Awaiting NTP    ● Behind Schedule ○ Target Milestone    ● Requires Mitigation ● On-Time					

## UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

### Drainage & Expansion Joint Seal Improvements for Parking Structures 1, 3 & 6 - Phase 2

## Project Description

This project will repair and/or replace the expansion joint seals and cover plates at Level 2 and 3 at Parking Structure 1 and the pedestrian bridge at Parking Structure 3. The project will also clear out all existing drains and provide necessary repairs to the drainage systems in Parking Structures 1, 3, 4, 6 and 7.



## Recent Project Achievements

During July 2018, the project team and contractor conducted a pre-construction walk to review the joint expansion work. Also in July, the contractor submitted the area shutdown request for the Parking Structure 1 drain clearing work.

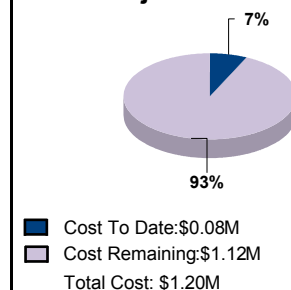
## Budget Status

The project is trending on budget. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

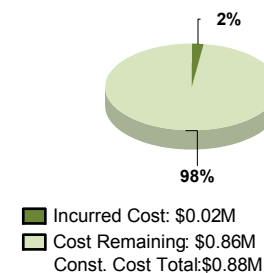
## Schedule Status

The project is tracking to schedule.

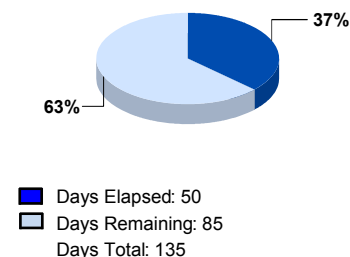
### Project EAC Cost



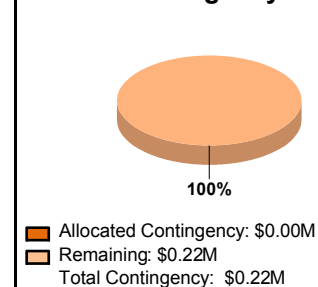
### Construction Cost



### Construction Duration



### Contingency



As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Construction)					
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Expansion Joints) - Construction NTP		Started	11-Jun-18		
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Expansion Joints) - Substantial Completion		○		11-Jan-19	
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Drain Cleaning) - Construction NTP		Started	11-Jun-18		
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Drain Cleaning) - Substantial Completion		○		11-Jan-19	
<b>Status</b> ● Awaiting NTP    ● Behind Schedule ○ Target Milestone    ● Requires Mitigation ● On-Time					

# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## CTA Exterior Pedestrian Wayfinding and Signage Project

### Project Description

This project seeks to enhance passenger experience throughout LAX by developing exterior wayfinding signage alternatives to create a uniform, effective signing system for pedestrians in the CTA.

### Recent Project Achievements

During July 2018, the contractor obtained the required LADBS electrical permit for LED lighting. Also in July, the contractor submitted the area shutdown request in preparation of pylon sign foundation construction.

### Budget Status

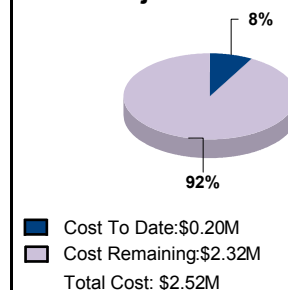
The project is trending over budget due to the design costs of the dynamic sign scope of work.

### Schedule Status

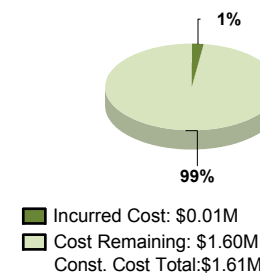
The project is tracking to schedule.



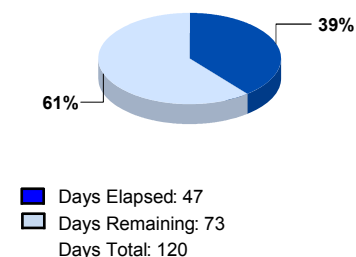
#### Project EAC Cost



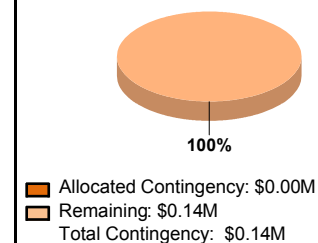
#### Construction Cost



#### Construction Duration



#### Contingency



As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
CTA Exterior Pedestrian Wayfinding and Signage Project - Static & Dynamic (Construction)					
CTA Exterior Pedestrian Wayfinding and Signage Project - Static Signs - Construction NTP		Started	14-Jun-18		
CTA Exterior Pedestrian Wayfinding and Signage Project - Static Signs - Substantial Completion		○		19-Jan-19	
<b>Status</b> ● Awaiting NTP ○ Target Milestone ● On-Time ● Behind Schedule ● Requires Mitigation					

# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Capital Budget 1</b>						
	<b>Central Utility Plant Program</b>						
Closed	Central Utility Plant	423,835	393,730	393,730	393,730	393,730	0
	<b>Subtotal: Central Utility Plant Program</b>	<b>423,835</b>	<b>393,730</b>	<b>393,730</b>	<b>393,730</b>	<b>393,730</b>	<b>0</b>
	<b>Infrastructure Program</b>						
Closed	Airport Response Coordination Center (ARCC)	8,175	13,723	13,723	13,723	13,723	0
	<b>Subtotal: Infrastructure Program</b>	<b>8,175</b>	<b>13,723</b>	<b>13,723</b>	<b>13,723</b>	<b>13,723</b>	<b>0</b>
	<b>Subtotal: Capital Budget 1</b>	<b>432,010</b>	<b>407,453</b>	<b>407,453</b>	<b>407,453</b>	<b>407,453</b>	<b>0</b>
	<b>Capital Budget 2</b>						
	<b>Landside Program</b>						
Close-out	New Face of CTA – Phase 2	70,528	75,651	73,048	73,048	73,048	2,603
Close-out	Second Level Roadway Expansion Joint and Deck Repairs	18,900	35,442	34,923	34,923	34,923	519
Closed	Coastal Dunes Improvement Project	3,000	2,140	2,140	2,140	2,140	0
Closed	Manchester Square / Belford Demolition Program	1,981	1,249	1,249	1,249	1,249	0
Closed	Jenny Lot Site Modifications	7,233	6,725	6,725	6,725	6,725	0
	<b>Subtotal: Landside Program</b>	<b>101,642</b>	<b>121,207</b>	<b>118,085</b>	<b>118,085</b>	<b>118,085</b>	<b>3,122</b>
	<b>Subtotal: Capital Budget 2</b>	<b>101,642</b>	<b>121,207</b>	<b>118,085</b>	<b>118,085</b>	<b>118,085</b>	<b>3,122</b>
	<b>Capital Budget 3</b>						
Closed	Manchester Square / Belford Demolition Program - Phase 2	1,941	865	865	865	865	0
Closed	Orange Line Busway (FlyAway Site)	1,059	416	416	416	416	0
Closed	Electrical, Communications and Water Utility Ext. - 5th Feeder Project	23,033	22,354	22,354	22,354	22,354	0
Closed	Taxi Holding Lot Relocation	8,213	9,415	9,415	9,415	9,415	0
Closed	CTA - Landside Accessibility Improvements - Phase 2	7,344	5,823	5,823	5,823	5,823	0

Notes: 1. The Baseline Budget and Current Budget will change as scope is approved by the Board of Airport Commissioners and moves from Development to Delivery.

2. This report is for project management purposes only. Amounts shown above as "Incurred to Date" for projects may reflect aggregate amounts for multiple project components tracked in LAWA's financial system. These amounts may differ from those reflected in LAWA's accounting systems, due to the timing of expense recognition or other accounting practices, and should not be relied upon for investment purposes.



# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
<b>Capital Budget 3 (cont.)</b>							
Closed	Airport Police Dispatch Remodel	1,113	880	880	880	880	0
Closed	Building Roof Replacement - Phase 2 <sup>(3)</sup>	2,787	2,238	2,238	2,238	2,238	0
Active	Lot C Improvements	946	1,337	1,173	825	844	493
Closed	Construction Access Gates 21, 23 and 236	4,911	3,314	3,314	3,314	3,314	0
Closed	VNY Land Improvements - Building Demo	154	109	109	109	109	0
Close-out	CTA Departure Level Security Bollards	5,657	5,657	3,522	3,502	3,534	2,123
Close-out	Imperial Cargo Complex Water Main Replacement	9,545	9,545	5,906	5,749	6,090	3,455
Closed	FLSS Replacement - Child Care Center & Telecommunication Building	1,393	874	874	874	874	0
Closed	Roofing Replacement - Support Facilities Phase 3	832	727	727	727	727	0
Close-out	RON West Electrification Project	9,732	9,732	9,356	8,840	9,377	355
Closed	VNY Jet Center Underground Storage Tank (UST) Removal	637	371	371	371	371	0
Close-out	Drainage and Expansion Joint Seal Improvements for Parking Structures 1,3 & 6 - Phase 1	4,935	4,935	3,044	3,044	3,044	1,892
Active	Drainage and Expansion Joint Seal Improvements for Parking Structures 1,3 & 6 - Phase 2	1,419	1,419	970	83	1,200	219
Active	CTA Exterior Pedestrian Wayfinding and Signage Project	2,402	2,402	2,184	200	2,521	(119)
Close-out	Manchester Square / Belford Demolition Program - Phase 3	9,671	9,671	8,057	7,258	8,518	1,153
Close-out	ADA Improvements - Phase 3	1,836	1,836	1,591	1,555	1,664	172
Active	North Central Outfall Sewer (NCOS) Connection	10,075	10,075	9,563	4,610	9,793	282
Active	CTA Departure & Arrival Levels Security Bollards Phase 2	32,519	32,519	27,565	11,423	29,968	2,551
	<b>Subtotal: Capital Budget 3</b>	<b>142,154</b>	<b>136,514</b>	<b>120,317</b>	<b>94,475</b>	<b>123,939</b>	<b>12,576</b>
	<b>Utilities &amp; Landside Element: Total</b>	<b>675,806</b>	<b>665,174</b>	<b>645,855</b>	<b>620,013</b>	<b>649,477</b>	<b>15,698</b>

Notes: 1. The Baseline Budget and Current Budget will change as scope is approved by the Board of Airport Commissioners and moves from Development to Delivery.

2. This report is for project management purposes only. Amounts shown above as "Incurred to Date" for projects may reflect aggregate amounts for multiple project components tracked in LAWA's financial system. These amounts may differ from those reflected in LAWA's accounting systems, due to the timing of expense recognition or other accounting practices, and should not be relied upon for investment purposes.

3. This budget is for Phase II work, and does not include the Phase I cost.



## UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Estimate	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Projects in Development</b>						
	Recycled Water Extension	4,228	TBD	89	89	TBD	TBD
	Secured Area Access Post (SAAP) at World Way West	14,337	TBD	1,292	437	TBD	TBD
	Bradley West Traffic Mitigation - Sepulveda Boulevard and Imperial Highway	1,070	TBD	197	169	TBD	TBD
	Fire Drill Training Facility Recommissioning	Procurement In Progress	TBD	1,570	862	TBD	TBD
	CTA Domestic Water Pipe Replacement	24,054	TBD	0	0	TBD	TBD
	CTA Chilled Water & Heating Hot Water Distribution Rehab. - Phase 1	8,968	TBD	0	0	TBD	TBD
	Continental G.O. Building Demolition	Procurement In Progress	TBD	895	525	TBD	TBD
	<b>Utilities &amp; Landside Element: Projects in Development</b>	<b>52,657</b>	<b>TBD</b>	<b>4,043</b>	<b>2,082</b>	<b>TBD</b>	<b>TBD</b>

- Notes: 1. The Estimate Column provides an overall order-of-magnitude forecast of the total project cost. It is for planning purposes only and will vary as the scope is refined and the design is progressed. A project will move into the Element and a budget will be established when the Board of Airport Commissioners (BOAC) approves the scope.
2. This report is for project management purposes only. Amounts shown above as "Incurred to Date" for projects may reflect aggregate amounts for multiple project components tracked in LAWA's financial system. These amounts may differ from those reflected in LAWA's accounting systems, due to the timing of expense recognition or other accounting practices, and should not be relied upon for investment purposes.

# UTILITIES & LANDSIDE ELEMENT CHANGE ORDERS

## MONTH OF: 7/31/2018

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
<b>UTILITIES &amp; LANDSIDE ELEMENT</b>					
<b>YDA-5121 - RON WEST (DA-5121)</b>					
7/10/2018 DA-5121	0006	\$80,539			RFI 0028 - Revise Conductors at Disconnects to GPU's 250MCM Copper Conductors (CCR 5015)
7/10/2018 DA-5121	0007	\$0			Administrative Change Order to Transfer Allowances A-01, A-02, A-03, A-06, A-07, A-09, and A-10 into Allowances A-05
7/24/2018 DA-5121	0008	\$95,741			Additional LADWP Scope - Addendum #4 (CCR 5003R2)
7/24/2018 DA-5121	0009	\$138,347			Additional LADWP Electrical Station (RTO 5308)
7/24/2018 DA-5121	0010	\$0			Request for Non-Compensable Time Extension to Substantial Completion Date (CCR 5010)
7/24/2018 DA-5121	0011	\$91,610			Change Order for CCRs 5016 & 5018
7/24/2018 DA-5121	0012	(\$215)			Final Bid Item Quantity Adjustments

# TERMINAL ELEMENT PROJECTS IN DELIVERY

## TBIT Miscellaneous Build-out – Phase I

### Project Description

This project will provide a total of 12 additional ticket counters to the ticketing level, Aisles A & C, of Tom Bradley International Terminal along with a conveyor belt extension to accommodate the new ticket counters. There will also be additional office spaces to house future airline tenants. The installation of the extended conveyor belt & ticket counter back wall monitors/LED signs will be performed by other vendors who are not under GSD's contract.



### Recent Project Achievements

The contractor completed the work and the project team declared Substantial Completion on June 29, 2018. The punch list was compiled and the contractor is closing identified items.

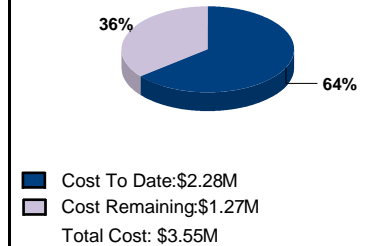
### Budget Status

The project is trending on budget.

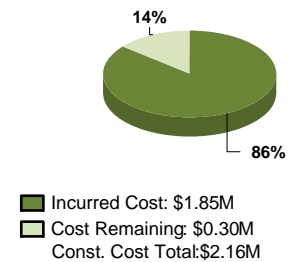
### Schedule Status

The contractor completed the work and the project team declared Substantial Completion on June 29, 2018.

#### Project EAC Cost



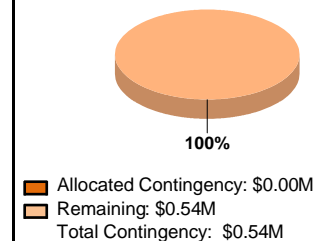
#### Construction Cost



#### Construction Duration

The project declared Substantial Completion on June 29, 2018.

#### Contingency



As of: July 31	Status	Construction Start	Construction Finish	Variance to BL Finish
TBIT Miscellaneous Build-out - Phase 1 (Construction)				
TBIT Miscellaneous Build-out - Phase 1 - Construction NTP	Started	27-Nov-17		
TBIT Miscellaneous Build-out - Phase 1 - Substantial Completion	○		30-Dec-18	
<div> <div> <div>● Awaiting NTP</div> <div>○ Target Milestone</div> <div>● On-Time</div> </div> <div> <div>● Behind Schedule</div> <div>● Requires Mitigation</div> </div> </div>				

# TERMINAL ELEMENT PROJECTS IN DELIVERY

## Terminal Cores and APM Interfaces

## Project Description

This project will provide vertical circulation elements located on the eastern side of TBIT and the western end of the Terminal 6 headhouse and provide enhanced vertical circulation at T7 to accommodate and improve guest experience and circulation. It also provides connection to the Automated People Mover (APM) Stations and adjacent parking garages. Work includes limited Terminal demolition and renovation work to accommodate the new construction and temporary relocation of various Terminal functional operations and tenants. Other elements include structural accommodation for future baggage drops, additional office space, restrooms, and additional tenant/concession space. Additionally, the program may include possible direct access to the TSA security checkpoints in some locations.



## Recent Project Achievements

During July 2018, the contractor submitted the Basis of Design package and the project team commenced their review. Also in July, the Project Management Office work was completed and the project team has relocated.

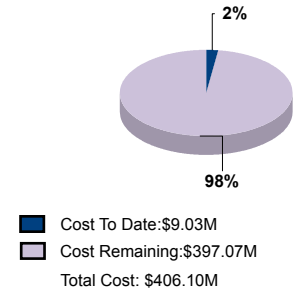
## Budget Status

The project is trending on budget.

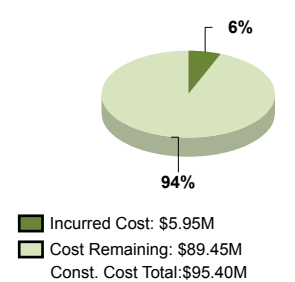
## Schedule Status

The project is tracking to schedule.

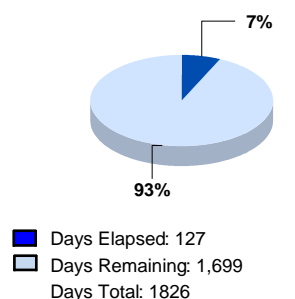
### Project EAC Cost



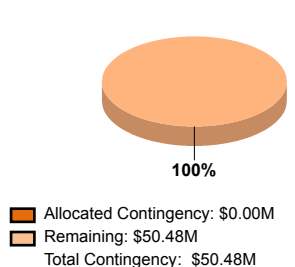
### Construction Cost



### Construction Duration



### Contingency



As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
Terminal Cores & APM Interface (Construction)					
Terminal Cores & APM Interface - Construction NTP		Started	26-Mar-18		
TBIT Cores & APM Interface - Substantial Completion		●		31-Mar-22	0
Terminal 5.5 Cores & APM Interface - Substantial Completion		●		31-Mar-22	0
Terminal 7 Vertical Circulation Improvements - Substantial Completion		●		31-Mar-22	0
<b>Status</b> ● Awaiting NTP    ● Target Milestone    ● Behind Schedule ● On-Time    ● Requires Mitigation					



# TERMINAL ELEMENT PROJECTS IN DELIVERY

## Airport Police Station & Facilities Program

## Project Description

This Project includes the redevelopment of approximately 12 Acres at the northeast corner of Westchester Parkway and Loyola Blvd for a new Airport Police Facility (APF). The redevelopment will include a new building, a new parking structure, and a series of new indoor & outdoor functional spaces for LAWA's Airport Police Division (APD). This may include, but not be limited to, the Office of Operations, Office of Support Services, Office of Homeland Security & Intelligence, Traffic & Security Group, Bomb Disposal Unit, K-9 Unit and Emergency Services Unit, Community Room and Landscaped Paseo along Westchester Parkway.



## Recent Project Achievements

During July 2018, the project team and contractor commenced the Basis of Design development meetings. In addition, the FAA approved the project's National Environmental Policy Act (NEPA) submittal.

## Budget Status

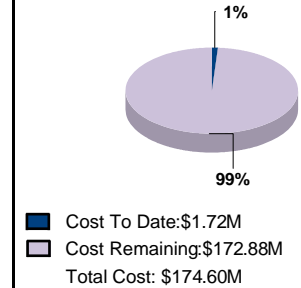
The project is trending to budget. When the project budget was approved, the Board requested a separate soft cost presentation. Staff is preparing the soft cost for Board approval in August 2018. The budget will increase as a result of this action.

## Schedule Status

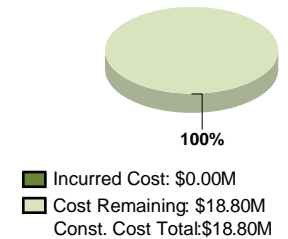
The project is tracking to schedule.

As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
Airport Police Station & Facilities Program (Construction)					
Airport Police Station & Facilities Program - Construction NTP		Started	20-Jun-18		
Airport Police Station & Facilities Program - Substantial Completion		●		31-May-21	
<b>Status</b> ● Awaiting NTP      ● Behind Schedule ○ Target Milestone      ● Requires Mitigation ● On-Time					

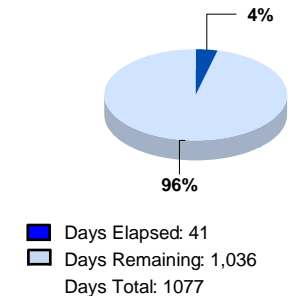
### Project EAC Cost



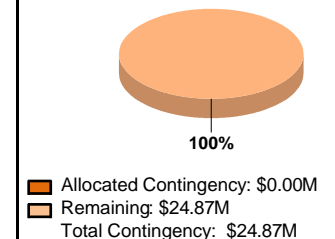
### Construction Cost



### Construction Duration



### Contingency





# TERMINAL ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Capital Budget 1</b>						
	<b>Bradley West Program</b>						
Closed	Bradley West Core Renovation/East Ramp and Concourse Demo Project	273,170	375,736	375,718	375,718	375,736	0
Close-out	Bradley West Traffic Mitigations -World Way South/Center Way	735	2,166	2,069	2,069	2,069	98
Closed	Bradley West Gates	906,474	869,332	869,332	869,332	869,332	0
Closed	Bradley West Core Improvements	808,364	818,004	818,004	818,004	818,004	0
Closed	Art In Public Places	5,360	5,360	5,360	5,360	5,360	0
Closed	New Face of CTA - Phase 1	43,270	50,783	50,783	50,783	50,783	0
Closed	Construction Traffic Mitigations	3,542	2,061	2,061	2,061	2,061	0
	<b>Subtotal: Bradley West Program</b>	<b>2,040,915</b>	<b>2,123,442</b>	<b>2,123,327</b>	<b>2,123,327</b>	<b>2,123,345</b>	<b>98</b>
	<b>Elevator &amp; Escalator Program</b>						
Close-out	Elevators and Escalators Replacement	270,000	222,145	222,125	222,125	222,160	(15)
	<b>Subtotal: Elevator &amp; Escalator Program</b>	<b>270,000</b>	<b>222,145</b>	<b>222,125</b>	<b>222,125</b>	<b>222,160</b>	<b>(15)</b>
	<b>Subtotal: Capital Budget 1</b>	<b>2,310,915</b>	<b>2,345,587</b>	<b>2,345,452</b>	<b>2,345,452</b>	<b>2,345,505</b>	<b>83</b>

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# **TERMINAL ELEMENT PROJECTS IN DELIVERY** **BUDGET OVERVIEW AS OF: 7/31/2018**

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Capital Budget 2</b>						
	<b>Terminal-wide Improvements</b>						
Closed	ADA Accessibility Improvements – Phase 1	2,000	4,212	4,212	4,212	4,212	0
Closed	Concessions Enabling Project	3,445	1,548	1,548	1,548	1,548	0
Closed	Passenger Boarding Bridge Relocation	21,667	21,094	21,094	21,094	21,094	0
Close-out	Terminal MPOE and IT Room Expansion	25,943	27,303	26,332	26,101	26,803	500
Closed	Fire Life Safety System Upgrades T1 & T2	5,300	3,210	3,210	3,210	3,210	0
	<b>Subtotal: Terminal-wide Improvements</b>	<b>58,355</b>	<b>57,367</b>	<b>56,396</b>	<b>56,165</b>	<b>56,867</b>	<b>500</b>
	<b>Terminal 2</b>						
Close-out	Terminal 2 Improvements <ul style="list-style-type: none"> <li>• Electric meter reading</li> <li>• Electrical Systems / AHU Replacement</li> <li>• Ticket / Bag Claim / FIS renovation</li> <li>• IT Infrastructure / Paging</li> <li>• SSCP Improvements</li> </ul>	204,914	184,914	178,186	162,883	183,080	1,834
	<b>Subtotal: Terminal 2</b>	<b>204,914</b>	<b>184,914</b>	<b>178,186</b>	<b>162,883</b>	<b>183,080</b>	<b>1,834</b>
	<b>Terminal 3</b>						
Closed	Terminal 3 Improvements <ul style="list-style-type: none"> <li>• FLSS/ADA/Nursing Room/Other</li> </ul>	6,130	2,722	2,722	2,722	2,722	0
Closed	• Terminal 3 Backfill Project	5,846	6,569	6,569	6,569	6,569	0
	<b>Subtotal: Terminal 3</b>	<b>11,976</b>	<b>9,291</b>	<b>9,291</b>	<b>9,291</b>	<b>9,291</b>	<b>0</b>
	<b>Terminal 4</b>						
Close-out	Terminal 4 Connector Building	114,318	114,496	113,198	112,568	113,388	1,109
	<b>Subtotal: Terminal 4</b>	<b>114,318</b>	<b>114,496</b>	<b>113,198</b>	<b>112,568</b>	<b>113,388</b>	<b>1,109</b>

Notes: 1. The Baseline Budget and Current Budget will change as scope is approved by the Board of Airport Commissioners and moves from Development to Delivery.  
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# **TERMINAL ELEMENT PROJECTS IN DELIVERY** **BUDGET OVERVIEW AS OF: 7/31/2018**

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b><i>Tom Bradley International Terminal</i></b>						
Closed	TBIT EDS OS1 and OS2	3,187	2,904	2,904	2,904	2,904	0
	<b><i>Subtotal: Tom Bradley International Terminal</i></b>	<b>3,187</b>	<b>2,904</b>	<b>2,904</b>	<b>2,904</b>	<b>2,904</b>	<b>0</b>
	<b><i>Terminal 6</i></b>						
Close-out	Terminal 6 Improvements • Terminal 6 Electrical Upgrades Project	32,627	29,627	28,233	24,967	26,804	2,823
	<b><i>Subtotal: Terminal 6</i></b>	<b>32,627</b>	<b>29,627</b>	<b>28,233</b>	<b>24,967</b>	<b>26,804</b>	<b>2,823</b>
	<b><i>Terminal 7 / 8</i></b>						
Closed	Terminal 7 Restroom Enhancements	6,159	599	599	599	599	0
	<b><i>Subtotal: Terminal 7 / 8</i></b>	<b>6,159</b>	<b>599</b>	<b>599</b>	<b>599</b>	<b>599</b>	<b>0</b>
	<b><i>Subtotal: Capital Budget 2</i></b>	<b>431,536</b>	<b>399,198</b>	<b>388,807</b>	<b>369,377</b>	<b>392,933</b>	<b>6,266</b>
	<b><i>Capital Budget 3</i></b>						
Close-out	Elevators and Escalators Replacement	0	18,495	18,495	18,495	18,495	0
Closed	Bradley West Core Renovation/East Ramp and Concourse Demo Project	0	8,665	8,665	8,665	8,665	0
Close-out	TBIT Miscellaneous Buildout - Phase 1	3,982	3,982	3,145	2,282	3,554	428
	<b><i>Terminal-wide Improvements</i></b>						
Closed	Nursing Rooms & Pet Relief Areas	1,620	1,679	1,679	1,679	1,679	0
Close-out	Terminal Fire Life Safety (FLS) System Improvements	15,133	15,133	12,467	12,111	14,401	732
Closed	CTX UPS Power Reliability for Sensitive Equipment	987	678	678	678	678	0
Close-out	Theme Building Tenant Enabling Project	5,000	5,000	4,181	4,181	4,181	819
Active	Terminal Cores & APM Interface	456,000	456,000	99,141	9,030	406,096	49,904
Active	Airport Police Station & Facilities Program	197,302	197,302	21,008	1,718	174,597	22,705
	<b><i>Subtotal: Terminal-wide Improvements</i></b>	<b>676,042</b>	<b>675,792</b>	<b>139,154</b>	<b>29,397</b>	<b>601,632</b>	<b>74,160</b>
	<b><i>Subtotal: Capital Budget 3</i></b>	<b>680,024</b>	<b>706,934</b>	<b>169,459</b>	<b>58,839</b>	<b>632,346</b>	<b>74,588</b>
	<b><i>Terminal Element: Total</i></b>	<b>3,422,475</b>	<b>3,451,719</b>	<b>2,903,718</b>	<b>2,773,668</b>	<b>3,370,784</b>	<b>80,937</b>

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**TERMINAL ELEMENT PROJECTS IN DELIVERY**  
**BUDGET OVERVIEW AS OF: 7/31/2018**

(dollars in thousands)							
Status	Description	Estimate	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	Projects in Development						
	None at present						
	Terminal Element: Projects in Development	0	TBD	0	0	TBD	TBD

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**TERMINAL ELEMENT CHANGE**  
**ORDERS MONTH OF: 7/31/2018**

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
TERMINAL ELEMENT					
None this reporting period.					

# MSC ELEMENT PROJECTS IN DELIVERY

## Midfield Satellite Concourse (North Gates)

## Project Description

The MSC will function primarily as an international departure and arrival concourse. The MSC will have a flexible flight line allowing it to accommodate both wide and narrow body aircraft. Part A, the North Concourse, includes 9 wide body gates. Part B, the North Extension, includes 2 wide body gates and Part C, the South Concourse, includes 8 wide body gates. The scope of the MSC project includes the construction of Part A, Part B, and 1 gate of Part C for a total of 12 gates. A Passenger Tunnel and Gateway Building will connect the MSC to the TBIT. A separate Baggage/Utility Tunnel will also be constructed between the MSC and TBIT. New aprons will be constructed on both sides of the MSC and Taxiway C12 will be constructed west of the MSC.



## Recent Project Achievements

Through July 2018, the contractor has completed 40% of the structural steel erection at the Core structure and 30% at the Gateway structure. The contractor is progressing interior work and has completed 25% of the gypsum wall construction.

## Budget Status

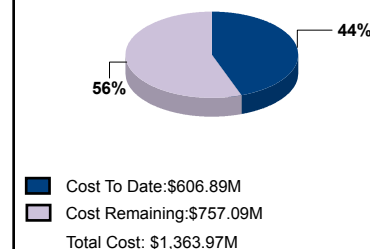
The project is trending on budget. The project team is assessing potential cost impacts related to the hazardous material conditions and Gate Compatibility implementation

## Schedule Status

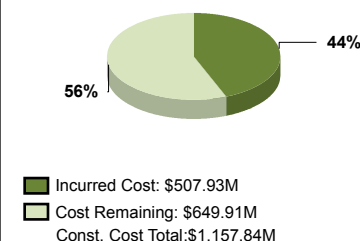
During July 2018, the completion date slipped another 18 days and the project is currently 77 calendar days delayed. This additional delay is due to unforeseen contaminated soil, unforeseen gas line utilities, unforeseen transite pipe utilities and elevations of existing gas lines not matching the as-built drawings at the passenger access tunnel.

As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
Midfield Satellite Concourse - North Gates (Construction)					
MSC North Gates - NTP Phase 1		Started	1-Apr-15		
MSC North Gates - Substantial Completion		●		7-Apr-20	-77
MSC North Gates - Final Acceptance		●		6-Oct-20	-77
<b>Status</b> ● Awaiting NTP ○ Target Milestone ● On-Time ● Behind Schedule ● Requires Mitigation					

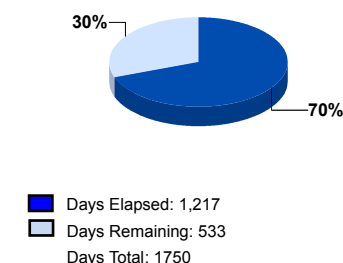
### Project EAC Cost



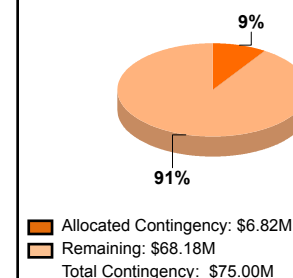
### Design/Constr. Cost



### Design/Constr. Duration



### Contingency



# MSC ELEMENT PROJECTS IN DELIVERY

## MSC/BW Baggage Optimization Project

### Project Description

The Baggage Optimization Project (BOP) is aimed at providing a simple comprehensive baggage solution for both the MSC and TBIT, with additional makeup capacity, enhanced operations and redundancy, and an integrated distribution system. This project constructs the infrastructure elements for BOP; the baggage handling system will be designed and installed under a tenant lease agreement.



### Recent Project Achievements

In July 2018, the contractor completed the installation of hangar steel at the North Baggage Handling System apron level. The apron level slab waterproofing was also completed in preparation for the topping slab. At the Far East Tunnel, the LADWP manhole was installed in World Way West along with a duct bank spur to feed power to future Terminal 3 components.

### Budget Status

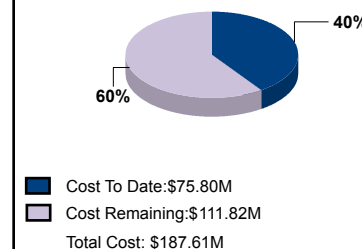
The project is trending on budget.

### Schedule Status

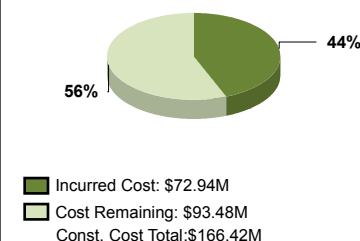
During July 2018, the completion date slipped another 2 days and the project is currently 62 calendar days delayed. This delay does not impact the Far East Tunnel or Baggage Handling System components, which remain on schedule.

As of: July 31		Status	Construction Start	Construction Finish	Variance to BL Finish
MSC/BW - Baggage Optimization Program (Construction)					
MSC/BW - Baggage Optimization Program - Construction NTP		Started	13-Dec-16		
MSC/BW - Baggage Optimization Program - Far East, Mixing Box, North BHS Structure, and BW Interface		●		21-Jan-20	0
MSC/BW - Baggage Optimization Program - North BHS Tunnel - Substantial Completion		●		1-May-20	-62
<b>Status</b> ● Awaiting NTP    ● Behind Schedule ○ Target Milestone    ● Requires Mitigation ● On-Time    ●					

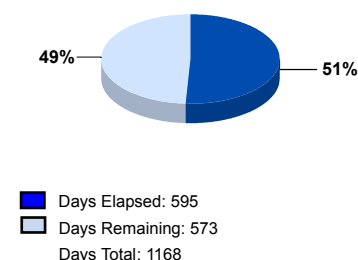
#### Project EAC Cost



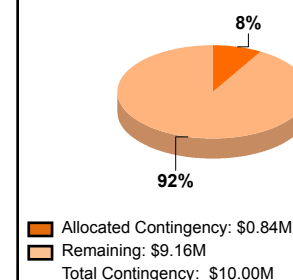
#### Design/Constr. Cost



#### Design/Constr. Duration



#### Contingency



## MSC ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Capital Budget 3</b>						
Closed	MSC Enabling Project	75,982	59,127	59,127	59,127	59,127	0
Active	MSC North Gates	1,248,650	1,427,727	1,280,572	606,886	1,363,973	63,754
Active	MSC/BW Baggage Optimization Project	195,088	195,088	170,341	75,798	187,615	7,473
	<b>Subtotal: Capital Budget 3</b>	<b>1,519,720</b>	<b>1,681,942</b>	<b>1,510,040</b>	<b>741,811</b>	<b>1,610,715</b>	<b>71,227</b>
	<b>MSC Element: Total</b>	<b>1,519,720</b>	<b>1,681,942</b>	<b>1,510,040</b>	<b>741,811</b>	<b>1,610,715</b>	<b>71,227</b>

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## MSC ELEMENT CHANGE ORDERS MONTH OF: 7/31/2018

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
<b>MSC ELEMENT</b>					
<b>DA-4971 - MIDFIELD SATELLITE CONCOURSE NORTH (MSC)</b>					
7/6/2018 DA-4971	0094	\$48,704			Escalator Speed Reduction
7/6/2018 DA-4971	0095	\$42,279			Unforeseen Utility line in the way of Electrical DB at RON 345B
7/5/2018 DA-4971	0096	\$143,277			MSC BHS Impact
7/12/2018 DA-4971	0097			\$3,066,789	LADWP Substation Changes 60% to RTI 100% & DCN-025
7/12/2018 DA-4971	0098			\$3,230,140	GMP for the Feasibility Study, Design, and Construction of Future Gate (Group III) Compatibility on the Midfield Satellite Concourse North Project
7/19/2018 DA-4971	0099	\$75,991			2 Unknown De-Energized Ductbank in Area 1.2 - Item 101
7/19/2018 DA-4971	0100	\$8,970			Reset Storm Drain Manhole MH-4F
7/16/2018 DA-4971	0101	\$28,354			BOP FET - Exploratory Research at J&B Receiving
7/16/2018 DA-4971	0102	\$17,247			BOP - FET World Way Work Hours Reduction @ Receiving Pits
7/13/2018 DA-4971	0103	(\$29,077)			Delete Apron Light Lowering Device and Accessories
7/16/2018 DA-4971	0104	\$5,293			Demolition and Removal of Existing Unknown Duct Bank at Site Entrance
7/30/2018 DA-4971	0105	\$149,428			Temporary Blast Fence by Taxiway T
7/17/2018 DA-4971	0106	\$3,285			BOP-FET-Tieback Obstructions Found at Pile 68 and 69
7/20/2018 DA-4971	0107	\$85,318			Elevator Traveling Cable
<b>DA-5206 - TAXIWAY T - PHASE 2</b>					
7/30/2018 DA-5206	0005	\$129,083			Shoring Forms and Extra LCB Due to Low PMB

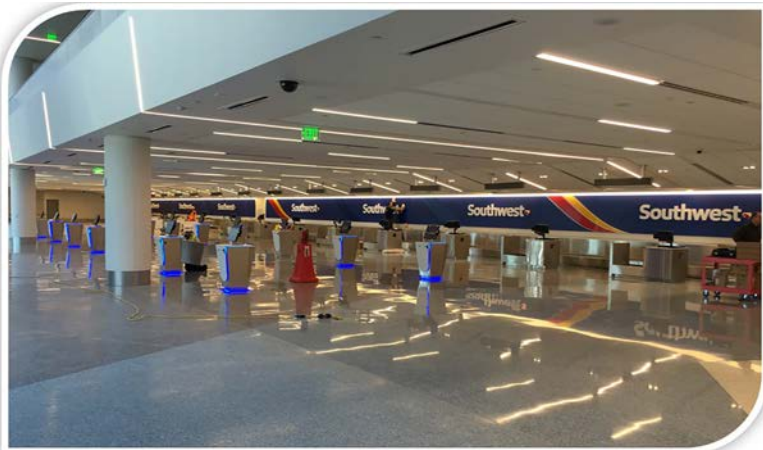
# TENANT IMPROVEMENT: Projects in Delivery



## Terminal Commercial Management (TCM)

The Terminal Commercial Management (TCM) agreements provide for the development, leasing and management of convenience retail, specialty retail, food and beverage and certain other passenger services in Terminals 1, 2, 3, 6, TBIT and the Theme Building. In accordance with the TCM agreements, the development and investment in non-premises improvements in the terminal facilities and Theme Building are capital assets to be acquired by LAWA subject to Board approval.

The Terminal 1 Concessions project is ongoing through late in the third quarter of 2018.



## Terminal 1

Southwest Airlines is undergoing a major renovation program for Terminal 1. These renovations include: improvements to the passenger security screening checkpoint; the design and implementation of a new inline Checked Baggage Inspection System and baggage sorting system; upgraded holdrooms and associated building infrastructure; refurbished arrival/baggage claim area; replacement of the passenger boarding bridges; renovations to airline support office space; and the replacement of aircraft paving sections and associated fuel hydrant pit locations.

During July 2018, the contractor completed 92% of the construction work. The Terminal work is anticipated to complete late in the third quarter of 2018 and the remaining work on the ramp is anticipated to complete in the fourth quarter of 2018.

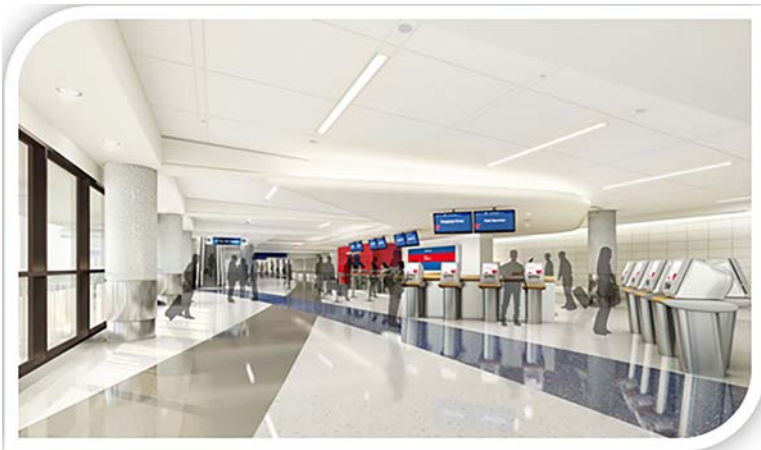
# TENANT IMPROVEMENT: Projects in Delivery



## Terminal 1.5 Program

This project provides a vertical core terminal between Terminal 1 and Terminal 2, also a facility to process passengers; including new ticketing areas, and passenger / baggage screening capabilities. Work includes a baggage claim facility, secure and non-secure connections between Terminals 1 and 2, along with a bus port to provide airside connection to other terminals and additional office space.

Through July 2018, the contractor continued nightly baggage handling system cutovers and mass excavation at the Arrivals level is progressing.



## Terminal 2/3 Modernization Projects (by Delta)

This program includes minimum improvements to T2, T3, T5, T6, and TBIT in order to relocate the airlines currently located in T2 and T3 to T5, T6 and TBIT; and relocate Delta from T5 and T6 to T2 and T3. Scope includes improvements to public spaces, bus gates, ticketing space, IT, support and office space, airline club, gating reconfigurations and new PBB at TBIT and relocation of airlines.

During July 2018, the contractor progressed the renovation enabling work at the Terminal 3 temporary SSCP, the Terminal 2 temporary bag claim devices and the DWP ductbank.



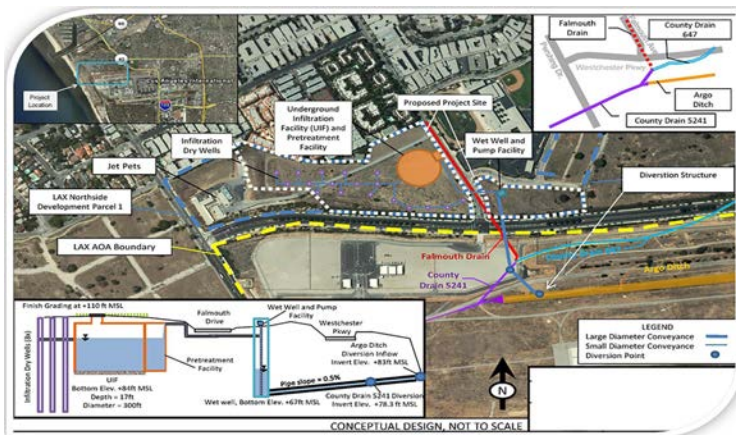
# TENANT IMPROVEMENT: Projects in Delivery



## Terminal 7 and 8

United Airlines is engaged in a major renovation program for Terminal 7 and 8. These renovations include: improvements to the passenger SSCP; the design and implementation of a new inline CBIS and baggage sorting system for Terminals 7 and 8; upgraded holdrooms and associated building infrastructure; refurbished arrival/baggage claim area; replacement of the passenger boarding bridges; renovations to airline support office space; and constructing a new premium lounge and support office space.

Through July 2018, the contractor progressed installation of the new elevator at the Satellite facility. The anticipated completion is revised to the third quarter of 2018.



## Proposition O - Argo Drain Sub-basin Facility

This project will assist the City in complying with the Santa Monica Bay Beaches Wet Weather Bacteria Total Maximum Daily Load regulations, and LAWA's compliance with Industrial General Permit, MS4 Permit and Low Impact Development requirements. Stormwater flows will be diverted and captured from two existing stormdrain systems. The diverted runoff will be treated through the implementation of different elements including a clarifier and Underground Infiltration Gallery. The treated flows will eventually infiltrate into the soil.

This project is managed by the Los Angeles Bureau of Engineering and is in the contract procurement phase. During July 2018, the contract was awarded at the Public Works Board meeting. NTP is anticipated in August 2018.

## TENANT IMPROVEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 7/31/2018

(dollars in thousands)							
Status	Description	Estimate	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Tenant Improvement</b>						
	Terminal 1 (Southwest)	523,777	TBD	523,777	367,929	TBD	TBD
	Terminal 1.5 Program	492,440	TBD	492,440	1,591	TBD	TBD
	Terminal 2/3 Modernization Projects (by Delta)	1,443,620	TBD	1,443,620	5,620	TBD	TBD
	Terminal 7 and 8	555,249	TBD	555,249	439,076	TBD	TBD
	Proposition O - Argo Drain Sub-basin Facility	14,779	TBD	TBD	TBD	TBD	TBD
	<b>Terminal Element: Projects in Development</b>	3,029,865	TBD	3,015,086	814,216	TBD	TBD

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## **User's Guide - Budget Reports**

The information provided herein is designed to furnish users of the Planning and Development Group (PDG) Budget Reports with greater knowledge and a better understanding of the composition of the various components of the budget report.

**Baseline Budget** – For projects in Capital Budget 1, it is the estimated cost of the project as it was reported in the November 2009 report with the exception of the Crossfield Taxiway project, which is from the February 2009 Operating Statement (OS) budget report, and Taxilane T Phase 2, which is based on the Board award value. For projects in Capital Budget 2 and 3, it is determined when the contract is awarded by the Board.

**Current Budget** - Is the estimated cost of the project as it was planned plus or minus any processed revisions.

**Committed to Date** - Is the total contractual obligation to date for the project, e.g. awarded design contracts, awarded construction contracts, authorized task orders, etc.

**Incurred to Date** - Is the total of invoices received to date for the project.

**Estimate at Completion (EAC)** - Is the latest estimate of the total cost of the project.

**Variance** - Is the difference between Current Budget minus Estimate at Completion (EAC).

# PROGRAM COST SUMMARY BUDGET OVERVIEW

## AS OF: 7/31/2018

(dollars in thousands)						
Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
<b>Capital Budget 1</b>						
Airside Element	533,524	444,077	442,089	441,248	443,702	375
Terminal Element:						
Bradley West Program	2,040,915	2,123,442	2,123,327	2,123,327	2,123,345	97
Elevator & Escalator Program	270,000	222,145	222,125	222,125	222,160	(15)
Utilities & Landside Element:						
Central Utility Plant Program	423,835	393,730	393,730	393,730	393,730	0
Infrastructure Program	8,175	13,723	13,723	13,723	13,723	0
Residential/Soundproofing Element	180,000	153,377	153,377	153,377	153,377	0
CB1-Unallocated Contingency	N/A	82,347	N/A	N/A	0	82,347
<b>Subtotal: Capital Budget 1</b>		<b>3,432,842</b>	<b>3,348,371</b>	<b>3,347,530</b>	<b>3,350,037</b>	<b>82,804</b>
<b>Capital Budget 2</b>						
Airside Element	51,421	41,641	41,641	41,641	41,641	0
Terminal Element	431,536	399,198	388,807	369,377	392,933	6,265
Utilities & Landside Element	101,642	121,207	118,085	118,085	118,085	3,122
Residential/Soundproofing Element	1,317	1,124	1,124	1,124	1,124	0
CB2-Unallocated Contingency	N/A	69,955	N/A	N/A	0	69,955
<b>Subtotal: Capital Budget 2</b>		<b>633,124</b>	<b>549,657</b>	<b>530,227</b>	<b>553,783</b>	<b>79,342</b>
<b>Capital Budget 3</b>						
Airside Element	460,952	433,351	399,823	361,678	396,087	37,264
Terminal Element	680,024	706,934	169,459	58,839	632,346	74,588
Utilities & Landside Element	142,154	136,514	120,317	94,475	123,939	12,575
Midfield Satellite Concourse Element	1,519,720	1,681,942	1,510,040	741,811	1,610,715	71,227
CB3-Unallocated Contingency	N/A	54,851	N/A	N/A	0	54,851
<b>Subtotal: Capital Budget 3</b>		<b>3,013,593</b>	<b>2,199,639</b>	<b>1,256,803</b>	<b>2,763,087</b>	<b>250,505</b>
Projects in Development	N/A	N/A	11,930	8,455	N/A	N/A
<b>Report Total</b>		<b>7,079,559</b>	<b>6,109,597</b>	<b>5,143,015</b>	<b>6,666,907</b>	<b>N/A</b>

- Notes: 1. The Estimate Column provides an overall order-of-magnitude forecast of the total project cost. It is for planning purposes only and will vary as the scope is refined and the design is progressed. A project will move into the Element and a budget will be established when the Board of Airport Commissioners (BOAC) approves the scope.
2. This report is for project management purposes only. Amounts shown above as "Incurred to Date" for projects may reflect aggregate amounts for multiple project components tracked in LAWA's financial system. These amounts may differ from those reflected in LAWA's accounting systems, due to the timing of expense recognition or other accounting practices, and should not be relied upon for investment purposes.

# SBE / LBE / DBE / MWBE REPORT

## AS OF: 7/31/2018

	Contract No.	Pledged Level of Participation	Achieved Participation to Date						Remarks
			SBE	DBE	M/WBE	LBE	LSBE	DVBE	
SBE PROCURED CONTRACTS									
Wood Environment & Infrastructure Solutions Inc.	DA-5253	25.00%	33.35%	N/A	N/A	N/A	N/A	N/A	
Austin Commercial	DA-5262	20.00%	2.49%	N/A	N/A	N/A	N/A	N/A	See Note 1
AVB Management Partners Joint Venture	DA-4834	20.00%	40.95%	N/A	N/A	N/A	N/A	N/A	
Berg & Associates Inc.	DA-5130	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Burns & McDonnell	DA-5005	18.50%	18.62%	N/A	N/A	N/A	N/A	N/A	
CalTrop Corporation	DA-5099	15.00%	17.47%	N/A	N/A	N/A	N/A	N/A	
CMTS, LLC	DA-5131	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Construction Management Solutions (Quest Project Controls)	DA-5127	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
DWL Architects + Planners, Inc.	DA-5203	45.00%	15.51%	N/A	N/A	N/A	N/A	N/A	See Note 2
E.K. Associates	DA-5208	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Hill/APSI Joint Venture	DA-5129	49.00%	37.20%	N/A	N/A	N/A	N/A	N/A	See Note 1
HKS Architects, Inc.	DA-5205	20.00%	64.63%	N/A	N/A	N/A	N/A	N/A	
Integrated Project Control Team (IPCT) Joint Venture	DA-5128	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Jacobs Project Management	DA-5133	30.00%	39.05%	N/A	N/A	N/A	N/A	N/A	
Jacobsen/Daniels Associates, LLC	DA-5134	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Kleinfelder Inc.	DA-5254	27.00%	15.78%	N/A	N/A	N/A	N/A	N/A	See Note 2
Lea + Elliott, Inc.	DA-5132	20.00%	46.06%	N/A	N/A	N/A	N/A	N/A	
Leigh Fisher	DA-4982	20.00%	43.36%	N/A	N/A	N/A	N/A	N/A	
M. Arthur Gensler & Associat	DA-5006	25.00%	40.80%	N/A	N/A	N/A	N/A	N/A	
*M. Arthur Gensler & Associates	DA-5204	20.00%	0.00%	N/A	N/A	N/A	N/A	N/A	See Note 3
Myers & Sons-Griffith, A Joint Venture	DA-5182	19.63%	15.51%	N/A	N/A	N/A	N/A	N/A	See Note 1
Parsons Transportation Group	DA-5135	42.00%	23.29%	N/A	N/A	N/A	N/A	N/A	See Note 4
Paul Murdoch Architects	DA-5202	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Ricondo & Associates, Inc.	DA-5007	22.00%	25.74%	N/A	N/A	N/A	N/A	N/A	
Rivers & Christian	DA-5201	100.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
RS&H California, Inc.	DA-4981	20.00%	24.41%	N/A	N/A	N/A	N/A	N/A	
Simpson & Simpson Management Consulting, Inc.	DA-5136	30.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Smith-Emery Company	DA-5255	15.00%	15.08%	N/A	N/A	N/A	N/A	N/A	

### Notes:

- \* New Contract - or - data may not have been submitted yet.
- 1. LAWA Procurement Services Division (PSD) is verifying Prime's current SUR submission.
- 2. PDG is working with Firm and PSD to achieve BE pledge.
- 3. Early stages of project; pending submittal of first SUR.
- 4. Contract recently amended on April 5, 2018 and PSD is actively monitoring BE activity.
- 5. Firm is actively progressing in their SBE achievement to meet pledged goal.

# SBE / LBE / DBE / MWBE REPORT

## AS OF: 7/31/2018

	Contract No.	Pledged Level of Participation	Achieved Participation to Date						Remarks
			SBE	DBE	M/WBE	LBE	LSBE	DVBE	
Steve Bubalo Construction Co.	DA-5215	15.00%	100.00%	N/A	N/A	N/A	N/A	N/A	
Sully-Miller	DA-5074	15.30%	24.00%	N/A	N/A	N/A	N/A	N/A	
T.Y. Lin International	DA-5050	23.75%	21.08%	N/A	N/A	N/A	N/A	N/A	See Note 1
Turner/PCL Joint Venture	DA-4971	15.00%	19.02%	N/A	N/A	N/A	N/A	N/A	
Vanir I ASL	DA-5137	23.00%	69.00%	N/A	N/A	N/A	N/A	N/A	
<b>DBE PROCURED CONTRACTS</b>									
Granite Construction Company	DA-5227	6.32%	N/A	3.00%	N/A	N/A	N/A	N/A	See Note 1
Griffith Company	DA-5206	5.20%	N/A	6.00%	N/A	N/A	N/A	N/A	
Griffith-Coffman JV	DA-5051	10.50%	N/A	10.00%	N/A	N/A	N/A	N/A	See Note 2
HNTB Corporation	DA-5162	16.00%	N/A	26.00%	N/A	N/A	N/A	N/A	
RS&H California, Inc.	DA-5173	16.00%	N/A	23.00%	N/A	N/A	N/A	N/A	
Taft Electric Company	DA-5121	15.00%	N/A	34.00%	N/A	N/A	N/A	N/A	
<b>LBE PROCURED CONTRACTS</b>									
Wood Environment & Infrastructure Solutions Inc.	DA-5253	15.00%	N/A	N/A	N/A	21.76%	N/A	N/A	
Austin Commercial	DA-5262	7.00%	N/A	N/A	N/A	0.58%	N/A	N/A	See Note 1
E.K. Associates	DA-5208	100.00%	N/A	N/A	N/A	100.00%	N/A	N/A	
Kleinfelder Inc.	DA-5254	10.00%	N/A	N/A	N/A	1.92%	N/A	N/A	See Note 2
Myers & Sons-Griffith, A Joint Venture	DA-5182	12.50%	N/A	N/A	N/A	3.92%	N/A	N/A	See Note 1
Smith-Emery Company	DA-5255	7.00%	N/A	N/A	N/A	7.10%	N/A	N/A	
Steve Bubalo Construction Co.	DA-5215	5.00%	N/A	N/A	N/A	100.00%	N/A	N/A	
<b>LSBE PROCURED CONTRACTS</b>									
Wood Environment & Infrastructure Solutions Inc.	DA-5253	15.00%	N/A	N/A	N/A	N/A	21.76%	N/A	
Austin Commercial	DA-5262	5.00%	N/A	N/A	N/A	N/A	0.15%	N/A	See Note 1
Kleinfelder Inc.	DA-5254	7.00%	N/A	N/A	N/A	N/A	1.92%	N/A	See Note 2
Myers & Sons-Griffith, A Joint Venture	DA-5182	7.49%	N/A	N/A	N/A	N/A	2.92%	N/A	See Note 1
Smith-Emery Company	DA-5255	4.00%	N/A	N/A	N/A	N/A	7.10%	N/A	
Steve Bubalo Construction Co.	DA-5215	3.00%	N/A	N/A	N/A	N/A	100.00%	N/A	
<b>M/WBE PROCURED CONTRACTS</b>									
Skidmore Owings & Merrill	DA-4822	23.00%	N/A	N/A	21.80%	N/A	N/A		See Note 5
<b>DVBE PROCURED CONTRACTS</b>									
Austin Commercial	DA-5262	3.00%	N/A	N/A	N/A	N/A	N/A	0%	See Note 1

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