

# PLANNING & DEVELOPMENT GROUP

## Executive Management Program Status Report

June 30, 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

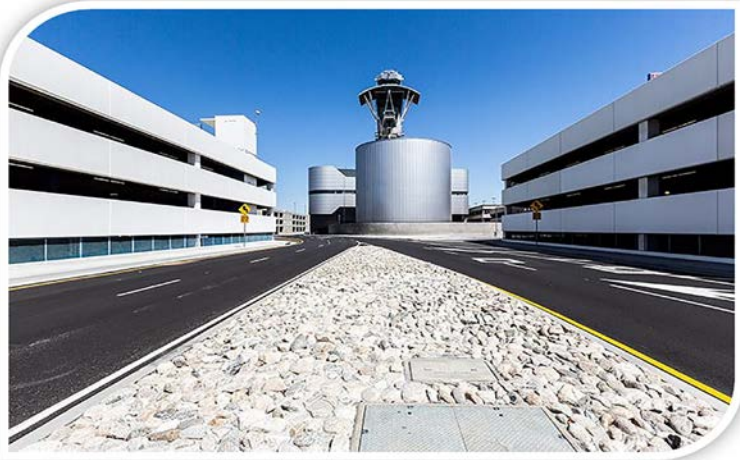
This report is a tool to provide status of the Capital Projects for the Planning & Development Group. The report is divided into Elements; and includes a status update for active projects followed by the schedule, budget and change order summary. The Program Wide tab includes the budget summary and contractor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



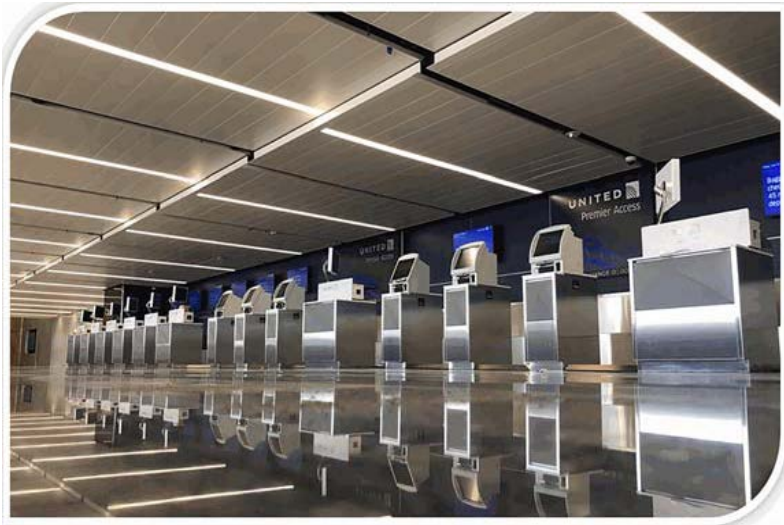
### Terminal Element

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.

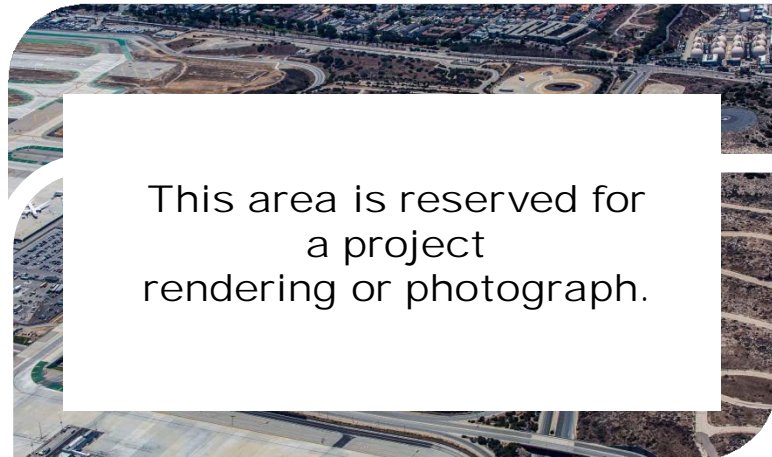
### Projects in Construction

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	Variance to Baseline
		Completion Date	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



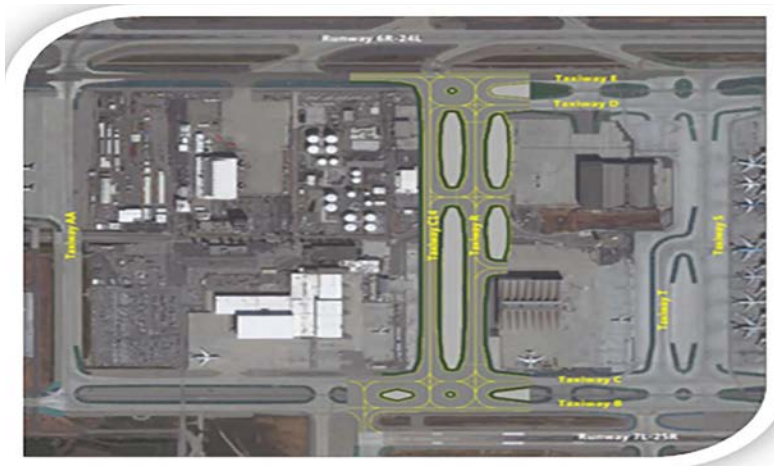


## Maintenance Facility Relocation - Phase 1

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 June 2018, the site relocation options were presented to the Facilities Maintenance and Utilities Group for review and consideration.

# 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 June 2018, the Board approved the request to advertise for construction bids. The advertisement is anticipated in July 2018.



## VNY Taxiway B Rehabilitation (Phase 1)

Taxiway A supports about 70% of the ground movement of jet aircraft at Van Nuys Airport. The existing Taxiway A and Taxiway B are deteriorating and it is no longer economical or practical to continue maintaining the pavement. This project rehabilitates the pavement, including grading, pavement markings, airfield lighting and airfield signage, where applicable.

During June 2018, the advertisement for construction bids was posted and the pre-bid conference was conducted. Construction bids are due in July 2018 and it is anticipated that construction will begin in the third quarter of 2018.



## Runway 7R-25L Rehabilitation

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

During June 2018, the designer mobilized resources and commenced the design activity. Design is scheduled to complete by mid-2019.

# AIRSIDE ELEMENT PROJECTS IN DELIVERY

## Runway 25R Reconstruction

### 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

During June 2018, the contractor completed Portland Cement Concrete (PCC) pavement and asphalt for Taxiway B17; and also completed Runway 25R grooving, marking, shoulder and erosion control asphalt pavement areas around Taxiway B17. Taxiway B17 is forecast to open in early July.

### Budget Status

The project is trending on budget.

### Schedule Status

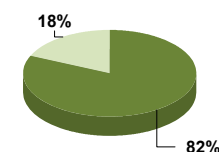
The project is currently 18 days behind schedule, due to the delay in the Test Section construction which also impacted the runway closure start date. The project team and contractor are working to mitigate any additional delay.

#### Project EAC Cost



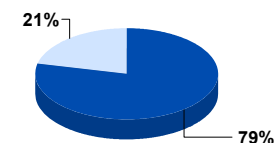
Cost To Date: \$36.71M  
Cost Remaining: \$17.66M  
Total Cost: \$54.37M

#### Construction Cost



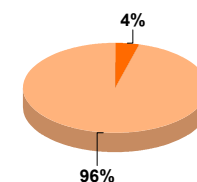
Incurring Cost: \$33.67M  
Cost Remaining: \$7.53M  
Const. Cost Total: \$41.19M

#### Construction Duration



Days Elapsed: 278  
Days Remaining: 76  
Days Total: 354

#### Contingency



Allocated Contingency: \$0.17M  
Remaining: \$3.93M  
Total Contingency: \$4.10M

As of: June 30		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		●		2-Jul-18	-18
<b>Status</b> ● Awaiting NTP ○ Target Milestone ● On-Time ● Behind Schedule ● Requires Mitigation					



# 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: June 30		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 June 2018, the contractor responded to the project team's construction drawing review comments and the pre-construction meeting was conducted. The project team is testing the initial release of the mobile application. An updated software build was released in June 2018 and the project team commenced testing activity.

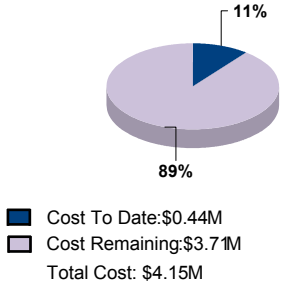
### Budget Status

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

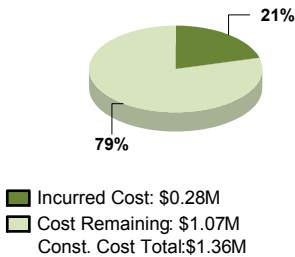
### Schedule Status

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.

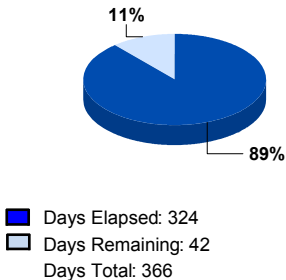
Project EAC Cost



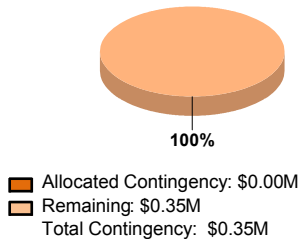
Construction Cost



Construction Duration



Contingency



# AIRSIDE ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 6/30/2018

(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	12,980	10,038	15,567	(158)
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>441,648</b>	<b>438,706</b>	<b>444,235</b>	<b>(158)</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: 6/30/2018

(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>						
Active	Runway 25R Reconstruction	56,207	56,207	47,422	36,714	54,374	1,833
Close-out	Runway 7L-25R Safety Area Improvements and Pavement Rehabilitation	163,151	163,151	144,133	115,958	143,497	19,653
Close-out	West Aircraft Maintenance Area	100,654	100,654	88,946	88,853	96,519	4,135
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	40,371	31,522	31,250	31,522	8,849
Close-out	Runway 6R-24L Safety Area Improvements	72,324	72,324	59,958	59,774	59,958	12,366
Active	Airport Surface Management System	4,500	4,500	1,806	438	4,150	350
	<b>Subtotal: Capital Budget 3</b>	<b>460,952</b>	<b>454,451</b>	<b>391,031</b>	<b>350,231</b>	<b>407,264</b>	<b>47,186</b>
	<b>Airside Element: Total</b>	<b>1,045,897</b>	<b>940,169</b>	<b>874,320</b>	<b>830,578</b>	<b>893,140</b>	<b>47,028</b>

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# AIRSIDE ELEMENT PROJECTS IN DEVELOPMENT

## BUDGET OVERVIEW AS OF: 6/30/2018

(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	4,923	3,336	TBD	TBD
	VNY Taxiway B Rehabilitation (Phase 1)	Procurement In Progress	TBD	2,081	1,909	TBD	TBD
	Runway 7R-25L Rehabilitation	62,000	TBD	602	2	TBD	TBD
	<b>Airside Element: Projects in Development</b>	<b>62,000</b>	<b>TBD</b>	<b>7,606</b>	<b>5,247</b>	<b>TBD</b>	<b>TBD</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 CHANGE ORDERS MONTH OF: 6/30/2018

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



## 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).

The Memorandum of Understanding was approved by the Board of Airport Commissioners on May 3, 2018 and approved by the Department of Water and Power Board of Commissioners on June 25, 2018. The project team progressed the environmental entitlement process and anticipates it will complete by the fourth quarter of 2018.



## 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 June 2018, the project team determined a contracting strategy for procuring the design drawings and initiated 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 June 2018, the project team and designer continued advancing the design development. The design activities are anticipated to complete late in the fourth quarter of 2018.

# 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 June 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 third quarter of 2018.





## 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 June 2018, the project team advanced the administrative process to issue the Request for Construction Bids. It is anticipated that construction will commence in the third quarter of 2018.

# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## Lot C Improvements

### 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

The project is currently over budget, due to unforeseen conditions at the Bus Depot building and additional LAWA Maintenance construction resources. This negative variance may be partially off-set by a reduction in the number of shelters that may result from the LAMP team reconfiguration of the site.

### 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: \$0.49M  
Total Cost: \$1.31M

#### Construction Cost

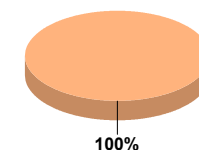


Incurred Cost: \$0.75M  
Cost Remaining: \$0.34M  
Const. Cost Total: \$1.09M

#### 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: June 30

	Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Lot C Improvements (Construction)</b>				
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> <div>● Awaiting NTP</div> <div>○ Target Milestone</div> <div>● On-Time</div> <div>● Behind Schedule</div> <div>● Requires Mitigation</div> </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 know 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 June 2018, the contractor has completed the DWP station and 60% of the wet weather pump station.

### Budget Status

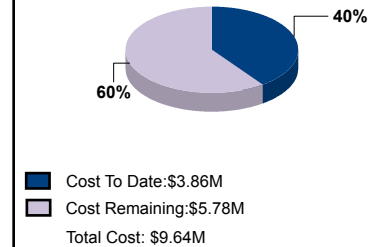
The project is trending on budget. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

### Schedule Status

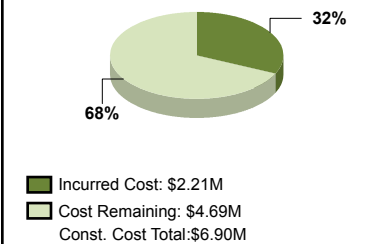
The project is currently tracking to schedule, however the contractor has identified a potential delay due to contractor not having obtained a required permit to start the new junction structure work within the city easement. There is another potential delay due to unforeseen debris at junction structure excavation area. The project team and contractor are evaluating mitigation strategies for these potential delays.

As of: June 30		Status	Construction Start	Construction Finish	Variance to B 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		<div></div>		24-Sep-18	0
Status					
<div><div><div></div>Awaiting NTP</div><div><div></div>Target Milestone</div><div><div></div>On-Time</div><div><div></div>Behind Schedule</div><div><div></div>Requires Mitigation</div></div>					

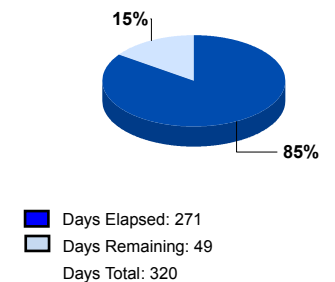
#### Project EAC Cost



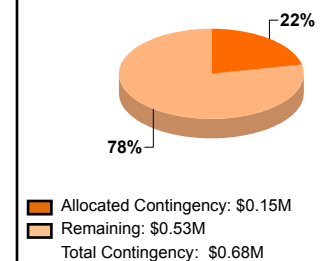
#### Construction Cost



#### Construction Duration



#### Contingency

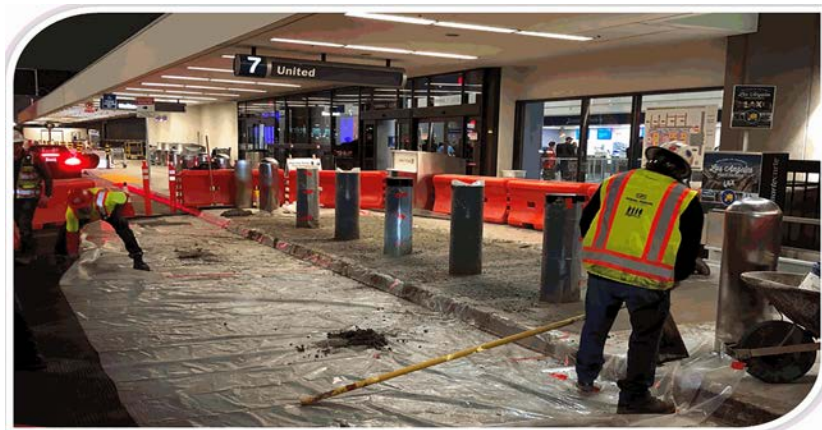


# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## 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 June 2018, the contractor has installed 400 bollards on the Departures level and 383 bollards on the Arrivals level.

### Budget Status

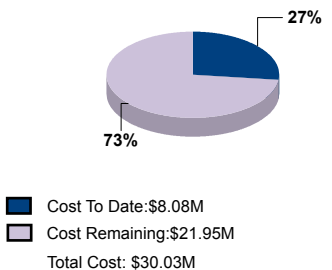
The project is trending on budget. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

### Schedule Status

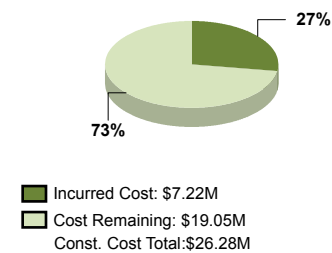
The project is tracking to schedule.

As of: June 30		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
<div> <div> <div>●</div> <div>Awaiting NTP</div> </div> <div> <div>○</div> <div>Target Milestone</div> </div> <div> <div>●</div> <div>On-Time</div> </div> <div> <div>●</div> <div>Behind Schedule</div> </div> <div> <div>●</div> <div>Requires Mitigation</div> </div> </div>					

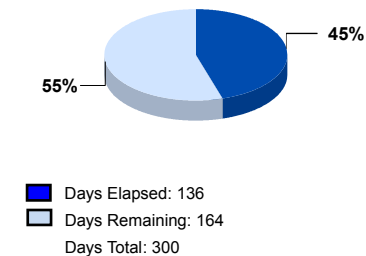
#### Project EAC Cost



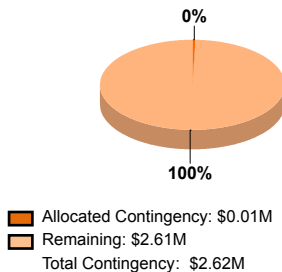
#### Construction Cost



#### Construction Duration



#### Contingency





## 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

The project team issued NTP on June 11, 2018. The contractor began mobilizing equipment, material and labor resources to the site.

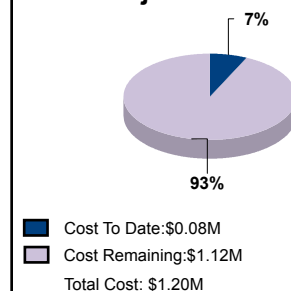
## Budget Status

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.

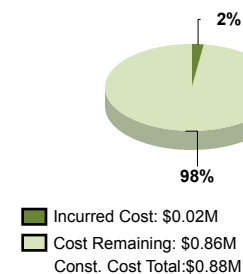
## Schedule Status

The project is tracking to schedule. The project team issued NTP on June 11, 2018.

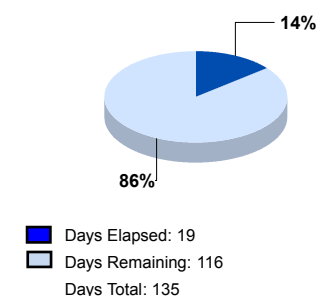
### Project EAC Cost



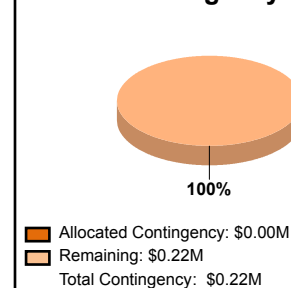
### Construction Cost



### Construction Duration



### Contingency



As of: June 30		Status	Construction Start	Construction Finish	Variance to BL Finish
Drainage and Expansion Joint Seal Improvements for Parking Structures 1,3 & 6 - Phase 2 (Expansion Joints) (Construction)					
Drainage and Exp. Joint Seal Imp. for Parking Structures 1,3 & 6 - Phase 2 (Expansion Joints) - Construction NTP		Started	11-Jun-18		
Drainage and Expansion Joint Seal Imp. for Parking Structures 1,3 & 6 - Phase 2 (Expansion Joints) - Substantial Completion		●		10-Sep-18	
Drainage and Exp. Joint Seal Imp. for Parking Structures 1,3 & 6 - Phase 2 (Drain Cleaning) - Construction NTP		Started	11-Jun-18		
Drainage and Expansion Joint Seal Imp. for Parking Structures 1,3 & 6 - Phase 2 (Drain Cleaning) - Substantial Completion		●		23-Oct-18	
<b>Status</b> ● Awaiting NTP ○ Target Milestone ● On-Time ● Behind Schedule ● Requires Mitigation					

# 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

The project team issued NTP on June 14, 2018. The contractor commenced mobilizing material, equipment and labor resources to the site.

### Budget Status

The Board previously awarded the Memorandum of Understanding with LA City General Services Department. Staff initiated the administrative process to include the project budget in this report and are monitoring the approval process. The pie charts will populate once the administrative process is complete.

### Schedule Status

The project is tracking to schedule. The project team issued NTP on June 14, 2018.

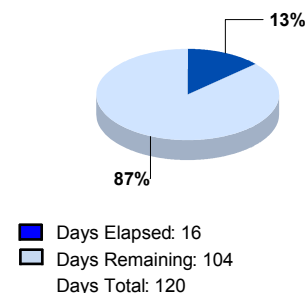
#### Project EAC Cost

The Project EAC Cost pie chart will become active once the budget transfer is activated.

#### Construction Cost

The Construction Cost pie chart will become active once the budget transfer is activated.

#### Construction Duration



#### Contingency

The Contingency pie chart will become active once the budget transfer is activated.

As of: June 30		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		●		11-Oct-18	
<b>Status</b> ● Awaiting NTP ○ Target Milestone ● On-Time ● Behind Schedule ● Requires Mitigation					

# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 6/30/2018

(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: 6/30/2018

(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	946	1,173	825	1,311	(365)
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	3,521	3,501	3,534	2,123
Close-out	Imperial Cargo Complex Water Main Replacement	9,545	9,545	5,968	5,746	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	8,946	7,281	9,522	210
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	969	82	1,200	219
Active	CTA Exterior Pedestrian Wayfinding and Signage Project	2,402	2,402	2,287	183	2,257	145
Close-out	Manchester Square / Belford Demolition Program - Phase 3	9,671	9,671	7,865	7,046	8,357	1,314
Close-out	ADA Improvements - Phase 3	1,836	1,836	1,573	1,526	1,836	0
Active	North Central Outfall Sewer (NCOS) Connection	10,075	10,075	9,374	3,856	9,637	438
Active	CTA Departure & Arrival Levels Security Bollards Phase 2	32,519	32,519	27,384	8,084	30,034	2,485
	<b>Subtotal: Capital Budget 3</b>	<b>142,154</b>	<b>136,123</b>	<b>119,490</b>	<b>88,560</b>	<b>124,208</b>	<b>11,916</b>
	<b>Utilities &amp; Landside Element: Total</b>	<b>675,806</b>	<b>664,783</b>	<b>645,028</b>	<b>614,098</b>	<b>649,746</b>	<b>15,038</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: 6/30/2018

(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	70	70	TBD	TBD
	Secured Area Access Post (SAAP) at World Way West	14,337	TBD	1,132	423	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	1,568	860	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	889	518	TBD	TBD
	<b>Utilities &amp; Landside Element: Projects in Development</b>	<b>52,657</b>	<b>TBD</b>	<b>3,856</b>	<b>2,040</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: 6/30/2018

Project Contract		Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
UTILITIES & LANDSIDE ELEMENT						
DA-5263 - CTA DEPARTURE AND ARRIVAL LEVELS SECURITY BOLLARDS - PHASE 2						
6/6/2018	DA-5263	0002	\$0			Administrative Change Order to Transfer Money from Allowance 03 & 04 to Allowance 05 CO #0002
6/28/2018	DA-5263	0003	\$448			Permits for the CTA Departure and Arrival Levels Security Bollards Ph. 2 - Commercial Median Island and TBIT/T4 Tunnel RTI Set - CCR 2010

# 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

Through June 2018, the contractor completed the work and the project team declared Substantial Completion on June 29, 2018. Punch list is currently being compiled. The Information Technology portion of the work is progressing.

## Budget Status

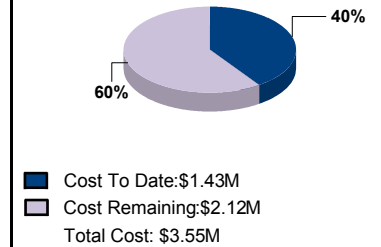
The project is trending on budget.

## Schedule Status

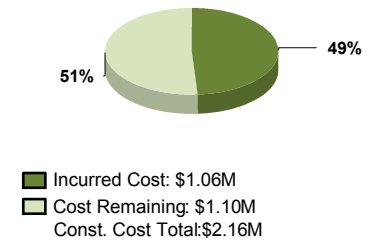
The project is tracking to schedule. During June 2018, the contractor completed the work and the project team declared Substantial Completion on June 29, 2018. The Information Technology portion of the work is progressing.

As of: June 30		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	
<b>Status</b> <div> <div>●</div> Awaiting NTP <div>○</div> Target Milestone <div>●</div> On-Time <div>●</div> Behind Schedule <div>●</div> Requires Mitigation </div>					

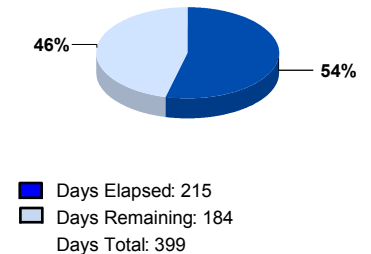
### Project EAC Cost



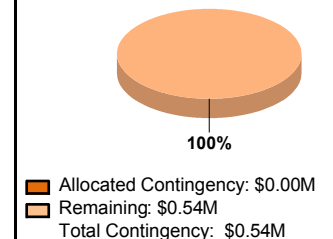
### Construction Cost



### Construction Duration



### Contingency



# 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

Through June 2018, the project team commenced the weekly Basis of Design development meetings with the deliverable forecast for the end of July 2018.

### Budget Status

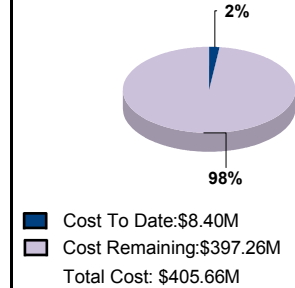
The project is trending on budget.

### Schedule Status

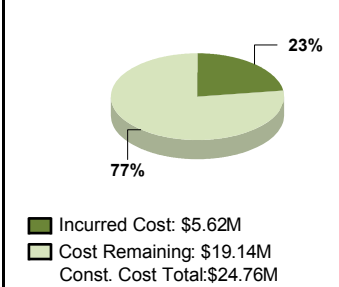
The project is tracking to schedule.

As of: June 30		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 ● On-Time    ● Behind Schedule ● Requires Mitigation					

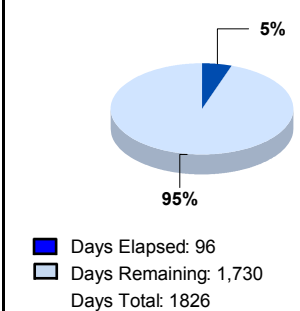
#### Project EAC Cost



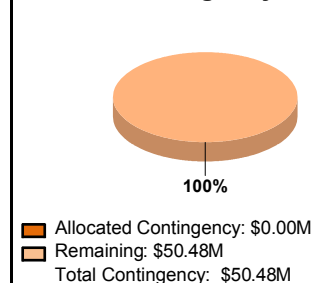
#### Construction Cost



#### Construction Duration



#### Contingency



# 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

The Design/Build contract was executed on June 5, 2018 and the Project Team issued NTP to the contractor on June 20, 2018.

## Budget Status

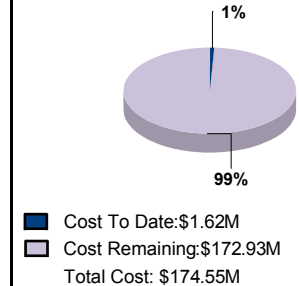
The project is trending to budget. When the project budget was approved, the Board requested a separate soft cost presentation. Staff is preparing the soft cost for Board approval in August 2018. The budget will increase as a result of this action.

## Schedule Status

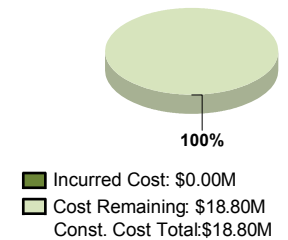
The project is tracking to schedule.

As of: June 30		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> <div> <div>●</div> Awaiting NTP <div>○</div> Target Milestone <div>●</div> On-Time </div> <div> <div>●</div> Behind Schedule <div>●</div> Requires Mitigation </div>					

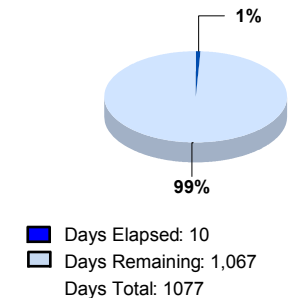
### Project EAC Cost



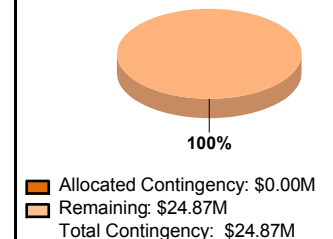
### Construction Cost



### Construction Duration



### Contingency





# **TERMINAL ELEMENT PROJECTS IN DELIVERY** **BUDGET OVERVIEW AS OF: 6/30/2018**

(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	226,026	222,125	222,125	222,145	3,881
	<b>Subtotal: Elevator &amp; Escalator Program</b>	<b>270,000</b>	<b>226,026</b>	<b>222,125</b>	<b>222,125</b>	<b>222,145</b>	<b>3,881</b>
	<b>Subtotal: Capital Budget 1</b>	<b>2,310,915</b>	<b>2,349,468</b>	<b>2,345,452</b>	<b>2,345,452</b>	<b>2,345,490</b>	<b>3,979</b>

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# TERMINAL ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 6/30/2018

(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
Close-out	Passenger Boarding Bridge Relocation	21,667	23,147	21,094	21,094	21,094	2,054
Close-out	Terminal MPOE and IT Room Expansion	25,943	27,303	26,330	26,099	26,801	502
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>59,420</b>	<b>56,394</b>	<b>56,163</b>	<b>56,865</b>	<b>2,556</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	189,914	177,779	162,476	182,944	6,970
	<b>Subtotal: Terminal 2</b>	<b>204,914</b>	<b>189,914</b>	<b>177,779</b>	<b>162,476</b>	<b>182,944</b>	<b>6,970</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	113,185	112,547	113,388	1,109
	<b>Subtotal: Terminal 4</b>	<b>114,318</b>	<b>114,496</b>	<b>113,185</b>	<b>112,547</b>	<b>113,388</b>	<b>1,109</b>

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# **TERMINAL ELEMENT PROJECTS IN DELIVERY** **BUDGET OVERVIEW AS OF: 6/30/2018**

(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	28,160	24,894	26,704	2,923
	<b><i>Subtotal: Terminal 6</i></b>	<b>32,627</b>	<b>29,627</b>	<b>28,160</b>	<b>24,894</b>	<b>26,704</b>	<b>2,923</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>Subtotal: Capital Budget 2</b>	<b>431,536</b>	<b>406,251</b>	<b>388,312</b>	<b>368,874</b>	<b>392,695</b>	<b>13,558</b>
	<b>Capital Budget 3</b>						
Close-out	Elevators and Escalators Replacement	0	18,574	18,495	18,495	18,495	79
Closed	Bradley West Core Renovation/East Ramp and Concourse Demo Project	0	8,665	8,665	8,665	8,665	0
Active	TBIT Miscellaneous Buildout - Phase 1	3,982	3,982	3,099	1,426	3,549	432
	<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	13,056	10,954	14,311	822
Close-out	CTX UPS Power Reliability for Sensitive Equipment	987	987	678	678	678	309
Close-out	Theme Building Tenant Enabling Project	5,000	5,000	4,180	4,180	4,563	437
Active	Terminal Cores & APM Interface	456,000	456,000	28,296	8,399	405,661	50,339
Active	Airport Police Station & Facilities Program	197,302	197,302	20,961	1,616	174,550	22,752
	<b><i>Subtotal: Terminal-wide Improvements</i></b>	<b>676,042</b>	<b>676,101</b>	<b>68,850</b>	<b>27,506</b>	<b>601,442</b>	<b>74,659</b>
	<b>Subtotal: Capital Budget 3</b>	<b>680,024</b>	<b>707,322</b>	<b>99,109</b>	<b>56,092</b>	<b>632,151</b>	<b>75,170</b>
	<b>Terminal Element: Total</b>	<b>3,422,475</b>	<b>3,463,041</b>	<b>2,832,873</b>	<b>2,770,418</b>	<b>3,370,336</b>	<b>92,707</b>

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## TERMINAL ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 6/30/2018

(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>						
	None at present						
	<b>Terminal Element: Projects in Development</b>	0	TBD	0	0	TBD	TBD

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TERMINAL ELEMENT CHANGE  
 ORDERS MONTH OF: 6/30/2018

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
TERMINAL ELEMENT					
DA-4779-TWIP - TERMINAL WIDE IMPROVEMENTS					
6/29/2018    DA-4779	0009		(\$684,743)		Terminal Fire & Life Safety package - Final Financial Return

# 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 June 2018, the contractor has completed 33% of the roofing, 43% of the curtain wall and established the connection between the MSC and the passenger access tunnel.

## Budget Status

The project is trending on budget. The change orders for the DWP Substation and for Future Gate Compatibility are routing through the approval process and being readied for the Board.

## Schedule Status

The project is 59 calendar days delayed. The date has slipped by 13 days during the month, due to civil passenger East Tunnels activities. The critical path is now the East Tunnels. Two Change Orders are routing through the approval process for adverse weather impacts for January and March 2018.

### Project EAC Cost



Cost To Date: \$572.44M  
Cost Remaining: \$791.11M  
Total Cost: \$1,363.54M

### Design/Constr. Cost



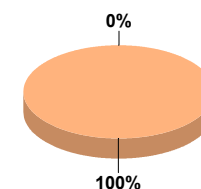
Incurred Cost: \$477.75M  
Cost Remaining: \$673.31M  
Const. Cost Total: \$1,151.06M

### Design/Constr. Duration



Days Elapsed: 1,186  
Days Remaining: 564  
Days Total: 1750

### Contingency



Allocated Contingency: \$0.04M  
Remaining: \$74.96M  
Total Contingency: \$75.00M

As of: June 30		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		●		20-Mar-20	-59
MSC North Gates - Final Acceptance		●		25-Sep-20	-59
<b>Status</b> ● Awaiting NTP ○ Target Milestone ● On-Time ● Behind Schedule ● Requires Mitigation					



# 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 June 2018, the remainder of the slab on metal deck was placed at the north baggage handling system apron level. All mechanical, electrical and plumbing trades are installing pipe hangers and the Baggage Handling contractor progressed the hangar steel installation. At the Far East Tunnel, the contractor completed the jack and bore and direct burial of the LADWP duct banks.

### Budget Status

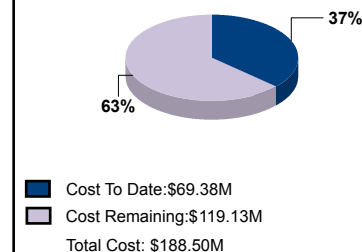
The project is trending on budget. The project team is currently working on the DWP changes and preparing a Board action anticipated for the third quarter of 2018.

### Schedule Status

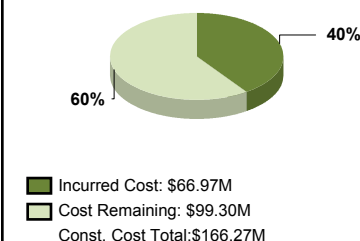
The project has slipped from 47 calendar days delay to 60 calendar days delay, because of surveying and additional demolition work at over-poured existing TBIT footing and requirements to perform slot cutting at a slab-on-grade segment. Two Change Orders are routing through the approval process for adverse weather impacts for January and March 2018.

As of: June 30		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		●		29-Apr-20	-60
<b>Status</b> ● Awaiting NTP    ○ Target Milestone    ● Behind Schedule    ● On-Time    ● Requires Mitigation					

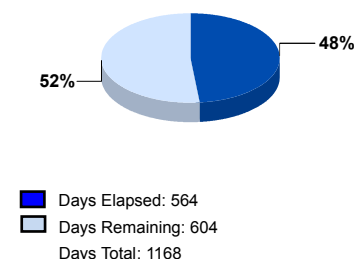
#### Project EAC Cost



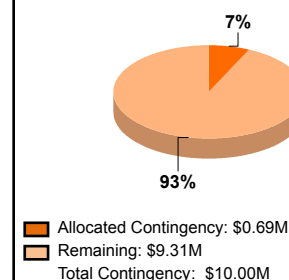
#### Design/Constr. Cost



#### Design/Constr. Duration



#### Contingency



## MSC ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 6/30/2018

(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	1,269,922	572,435	1,363,544	64,183
Active	MSC/BW Baggage Optimization Project	195,088	195,088	169,746	69,375	188,501	6,587
	<b>Subtotal: Capital Budget 3</b>	<b>1,519,720</b>	<b>1,681,942</b>	<b>1,498,795</b>	<b>700,937</b>	<b>1,611,172</b>	<b>70,770</b>
	<b>MSC Element: Total</b>	<b>1,519,720</b>	<b>1,681,942</b>	<b>1,498,795</b>	<b>700,937</b>	<b>1,611,172</b>	<b>70,770</b>

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## MSC ELEMENT CHANGE ORDERS MONTH OF: 6/30/2018

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
<b>MSC ELEMENT</b>					
<b>DA-4971 - MIDFIELD SATELLITE CONCOURSE NORTH (MSC)</b>					
6/13/2018 DA-4971	0087	\$61,091			Added Tie-In to two Existing LADWP Ductbanks at MSC
6/13/2018 DA-4971	0088	\$16,604			Gateway - Abandoned 12" FW Line and Comm Duct Located at Gateway
6/19/2018 DA-4971	0089	\$0			TIA - Fragnet 06 - Weather Impact Delays - January 2018
6/11/2018 DA-4971	0090	\$84,967			Site Scan Head End Commissioning
6/27/2018 DA-4971	0091	\$0			Administrative Change Order No 0091 - Allowance Re-Allocation
6/29/2018 DA-4971	0092	\$17,149			BOP CD-0096 Unforeseen Ductbank Investigation
6/29/2018 DA-4971	0093	\$39,248			Remove Unforeseen Duct Bank at World Way West/Coast Guard Road

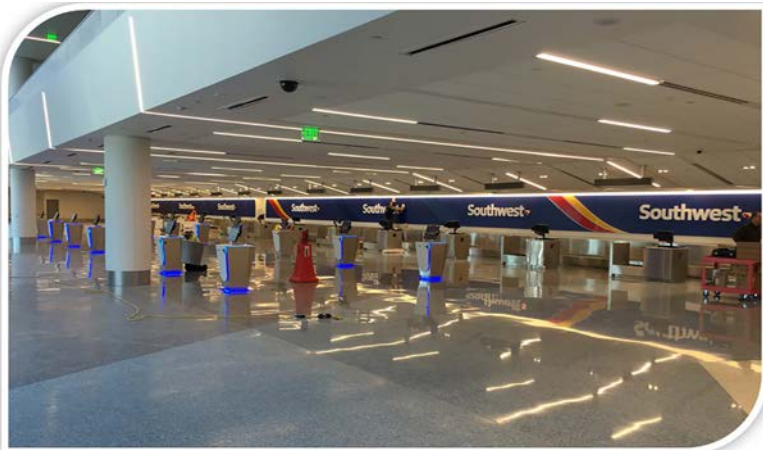
# TENANT IMPROVEMENT: Projects in Delivery



## 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 June 2018, the contractor completed commissioning the air handling units. The Gate 14 restroom, including the Adult Changing Station, the first at LAX, is complete. Substantial completion for this project has been impacted by four months due to apron pavement changes required to implement the Terminal 1.5 program. The overall project is anticipated to be 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 June 2018, the contractor commenced nightly baggage handling system cutovers and installed the barricades at the arrivals level.



## Terminal 2 and 3 Renovation

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 June 2018, the contractor achieved substantial completion for the relocation portion of the work and commenced punch list and close-out activities. The contractor progressed the renovation enabling work at the Terminal 2 temporary bag claim devices and the DWP ductbank.



# TENANT IMPROVEMENT: Projects in Delivery



## Terminal 7 and 8

United Airlines is preparing 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 June 2018, contractor completed the new terrazzo tile flooring at the T7/T8 connector and completed the re-roofing work at Terminal 7. Additional scope was added to the overall redevelopment program, which has impacted the schedule. 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 June 2018, the Argo lease and increased funding was approved. The contract will be awarded at the Public Works Board meeting schedule in July 2018 and NTP is anticipated in August 2018.

## TENANT IMPROVEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 6/30/2018

(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)	521,292	TBD	521,292	334,642	TBD	TBD
	Terminal 1.5 Program	492,286	TBD	492,286	1,512	TBD	TBD
	Terminal 2 and 3 Renovation	1,443,096	TBD	1,443,096	5,096	TBD	TBD
	Terminal 7 and 8	569,882	TBD	569,882	422,147	TBD	TBD
	Proposition O - Argo Drain Sub-basin Facility	7,600	TBD	TBD	TBD	TBD	TBD
	<b>Terminal Element: Projects in Development</b>	3,034,156	TBD	3,026,556	763,397	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: 6/30/2018

(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	441,648	438,706	444,235	(158)
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	226,026	222,125	222,125	222,145	3,881
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	78,466	N/A	N/A	0	78,466
<b>Subtotal: Capital Budget 1</b>		<b>3,432,842</b>	<b>3,347,930</b>	<b>3,344,988</b>	<b>3,350,555</b>	<b>82,286</b>
<b>Capital Budget 2</b>						
Airside Element	51,421	41,641	41,641	41,641	41,641	0
Terminal Element	431,536	406,251	388,312	368,874	392,695	13,556
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	62,901	N/A	N/A	0	62,901
<b>Subtotal: Capital Budget 2</b>		<b>633,124</b>	<b>549,162</b>	<b>529,724</b>	<b>553,545</b>	<b>79,579</b>
<b>Capital Budget 3</b>						
Airside Element	460,952	454,451	391,031	350,231	407,264	47,187
Terminal Element	680,024	707,322	99,109	56,092	632,151	75,171
Utilities & Landside Element	142,154	136,123	119,490	88,560	124,208	11,915
Midfield Satellite Concourse Element	1,519,720	1,681,942	1,498,795	700,937	1,611,172	70,770
CB3-Unallocated Contingency	N/A	33,755	N/A	N/A	0	33,755
<b>Subtotal: Capital Budget 3</b>		<b>3,013,593</b>	<b>2,108,425</b>	<b>1,195,820</b>	<b>2,774,795</b>	<b>238,798</b>
Projects in Development	N/A	N/A	11,462	7,287	N/A	N/A
<b>Report Total</b>		<b>7,079,560</b>	<b>6,016,979</b>	<b>5,077,819</b>	<b>6,678,895</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: 6/30/2018

	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%	33.00%	N/A	N/A	N/A	N/A	N/A	
Austin Commercial	DA-5262	20.00%	4.00%	N/A	N/A	N/A	N/A	N/A	See Note 1
AVB Management Partners Joint Venture	DA-4834	20.00%	36.08%	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%	16.38%	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%	36.40%	N/A	N/A	N/A	N/A	N/A	
HKS Architects, Inc.	DA-5205	20.00%	23.00%	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%	39.00%	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%	16.64%	N/A	N/A	N/A	N/A	N/A	See Note 3
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%	40.20%	N/A	N/A	N/A	N/A	N/A	
M. Arthur Gensler & Associates	DA-5006	25.00%	40.80%	N/A	N/A	N/A	N/A	N/A	
*M. Arthur Gensler & Associates	DA-5204	20.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Myers & Sons-Griffith, A Joint Venture	DA-5182	19.63%	8.03%	N/A	N/A	N/A	N/A	N/A	See Note 2
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%	25.84%	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%	20.92%	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%	11.04%	N/A	N/A	N/A	N/A	N/A	See Note 2

### Notes:

\* New Contract - or - data may not have been submitted yet.

1. Early stages of project; Business Enterprise achievement expected to increase over contract term .
2. PDG is working with Firm and PSD to achieve BE pledge.
3. LAWA Procurement Services Division (PSD) is verifying Prime's current SUR submission.
4. Contract recently amended on April 5, 2018 and PSD is actively monitoring BE activity.
5. Participation is anticipated to increase toward the later part of the contract.
6. Firm is actively progressing in their SBE achievement to meet pledged goal.



**SBE / LBE / DBE / MWBE REPORT**  
**AS OF: 6/30/2018**

	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%	<b>100.00%</b>	N/A	N/A	N/A	N/A	N/A	
Sully-Miller	DA-5074	15.30%	<b>24.00%</b>	N/A	N/A	N/A	N/A	N/A	
T.Y. Lin International	DA-5050	23.75%	<b>19.73%</b>	N/A	N/A	N/A	N/A	N/A	See Note 3
Turner/PCL Joint Venture	DA-4971	15.00%	<b>18.47%</b>	N/A	N/A	N/A	N/A	N/A	
Vanir I ASL	DA-5137	23.00%	<b>62.00%</b>	N/A	N/A	N/A	N/A	N/A	
<b>DBE PROCURED CONTRACTS</b>									
Granite Construction Company	DA-5227	6.32%	N/A	<b>1.00%</b>	N/A	N/A	N/A	N/A	See Note 2
Griffith Company	DA-5206	5.20%	N/A	<b>12.00%</b>	N/A	N/A	N/A	N/A	
Griffith-Coffman JV	DA-5051	10.58%	N/A	<b>11.00%</b>	N/A	N/A	N/A	N/A	
HNTB Corporation	DA-5162	16.00%	N/A	<b>17.00%</b>	N/A	N/A	N/A	N/A	
RS&H California, Inc.	DA-5173	16.00%	N/A	<b>15.00%</b>	N/A	N/A	N/A	N/A	See Note 2
Taft Electric Company	DA-5121	15.00%	N/A	<b>35.00%</b>	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	<b>22.00%</b>	N/A	N/A	See Note 3
Austin Commercial	DA-5262	7.00%	N/A	N/A	N/A	<b>0.00%</b>	N/A	N/A	See Note 1
E.K. Associates	DA-5208	100.00%	N/A	N/A	N/A	<b>100.00%</b>	N/A	N/A	
Kleinfelder Inc.	DA-5254	10.00%	N/A	N/A	N/A	<b>0.83%</b>	N/A	N/A	See Note 3
Myers & Sons-Griffith, A Joint Venture	DA-5182	12.50%	N/A	N/A	N/A	<b>1.59%</b>	N/A	N/A	See Note 5
Smith-Emery Company	DA-5255	7.00%	N/A	N/A	N/A	<b>7.10%</b>	N/A	N/A	
Steve Bubalo Construction Co.	DA-5215	5.00%	N/A	N/A	N/A	<b>100.00%</b>	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	<b>22.00%</b>	N/A	See Note 3
Austin Commercial	DA-5262	5.00%	N/A	N/A	N/A	N/A	<b>0.00%</b>	N/A	See Note 1
Kleinfelder Inc.	DA-5254	7.00%	N/A	N/A	N/A	N/A	<b>0.83%</b>	N/A	See Note 3
Myers & Sons-Griffith, A Joint Venture	DA-5182	7.49%	N/A	N/A	N/A	N/A	<b>1.47%</b>	N/A	See Note 5
Smith-Emery Company	DA-5255	4.00%	N/A	N/A	N/A	N/A	<b>7.10%</b>	N/A	
Steve Bubalo Construction Co.	DA-5215	3.00%	N/A	N/A	N/A	N/A	<b>100.00%</b>	N/A	
<b>M/WBE PROCURED CONTRACTS</b>									
Skidmore Owings & Merrill	DA-4822	23.00%	N/A	N/A	<b>19.97%</b>	N/A	N/A		See Note 6
<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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