

# PLANNING & DEVELOPMENT GROUP

## Executive Management Program Status Report

December 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>



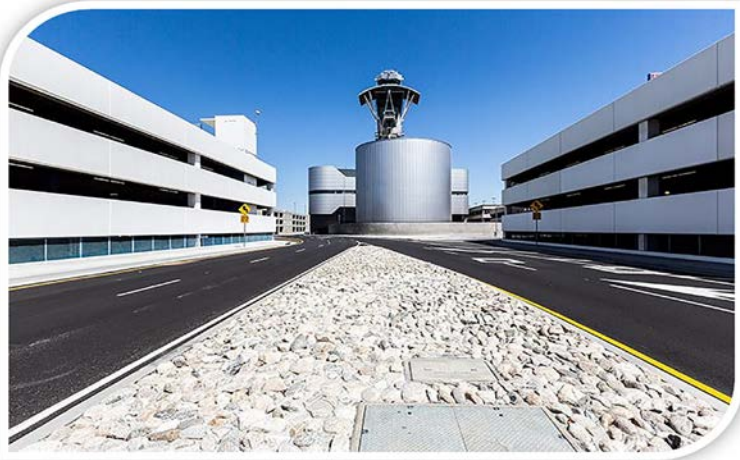
## Purpose

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.



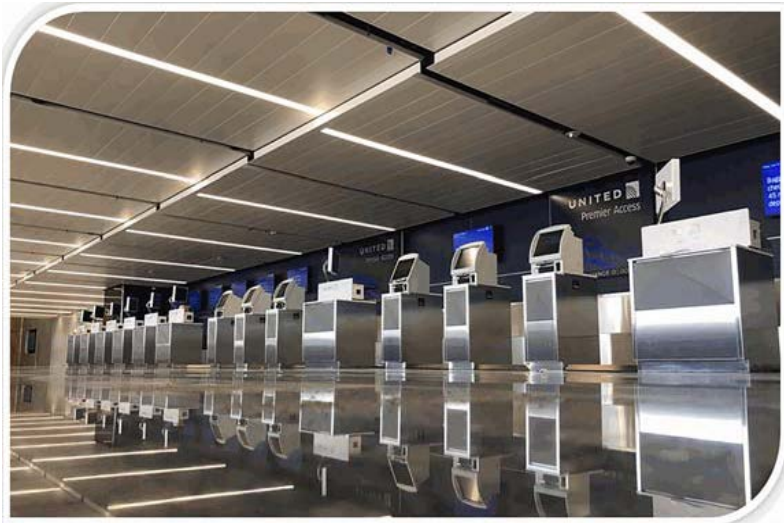
## Terminal Element

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 LAWA 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. The update identifies the scope of work and a narrative describing current status or issues. Once the conceptual design has sufficiently progressed, these projects will be transferred from this category into the Projects in Design category.

### Projects in Design

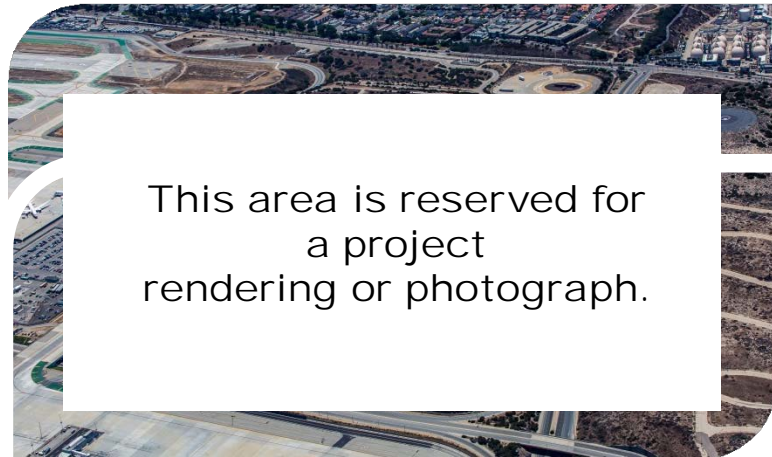
Projects in this category are in the Design or Bid stage and do not yet have an awarded construction contract. The update presents the scope of work and a narrative describing current status or issues. Once a construction contract is awarded, these projects will be transferred from this category into the Projects in Construction category.

### Projects in Construction

Projects in this category have an awarded construction or design-build contract. The update for projects in this category presents the scope of work and a narrative describing current status or issues, along with a milestone schedule and cost metrics. Once the construction is complete and substantial completion is declared, the project will be moved to the close-out phase and is no longer included in the report.

## 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.

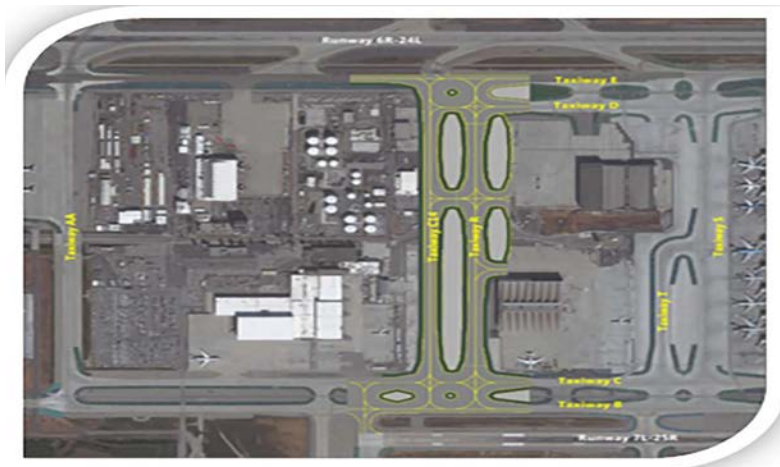
### Contingency

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)
<p>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.</p>			

\*Costs are rounded off to the nearest dollar

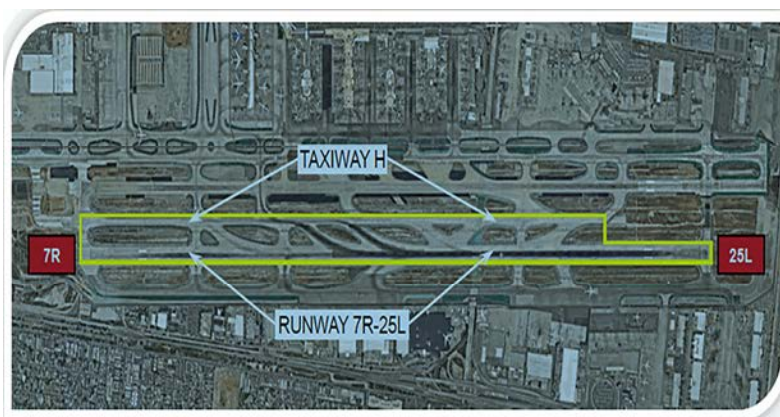




## Taxiway C-14

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 December 2018, staff completed the contractor interviews and is finalizing the evaluation process.



## 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 December 2018, the design consultant submitted the 90% plans and the project team commenced their review. Staff finalized the Executive Management presentation outlining the design options. The design consultant also completed their runway survey work.

# AIRSIDE ELEMENT PROJECTS IN DELIVERY

## VNY Taxiway B Rehabilitation (Phase 1)

### Project Description

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.

### Recent Project Achievements

Through December 2018, the field office trailers were delivered on site and the contractor commenced the installation and utility hook-up work.

### Budget Status

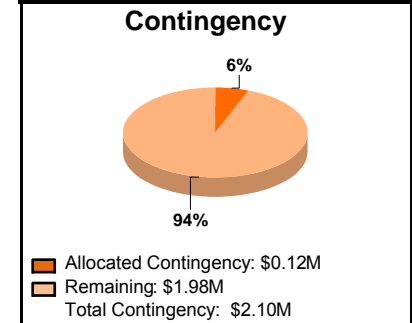
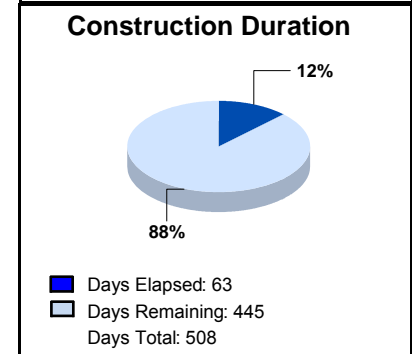
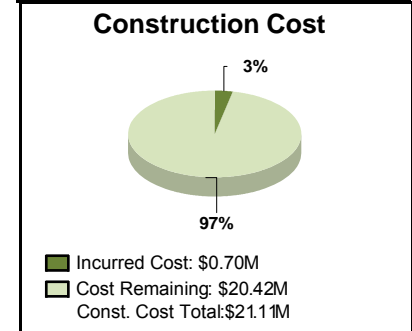
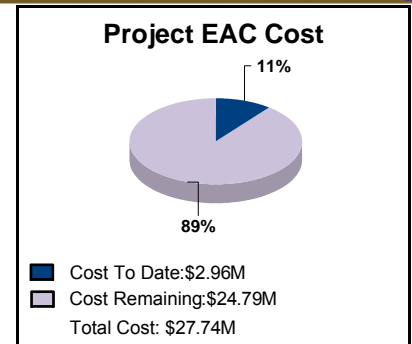
The project is trending on budget.

### Schedule Status

The project is tracking to schedule. The contractor is late submitting the baseline schedule, which could impact the start of field construction on January 7, 2019.



As of: December 31		Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Van Nuys Airport - Taxiway B Rehabilitation - Phase 1 (Construction)</b>					
Van Nuys Airport - Taxiway B Rehabilitation - Phase 1 - Construction NTP		Started	29-Oct-18		
Van Nuys Airport - Taxiway B Rehabilitation - Phase 1 - Substantial Completion		●		19-Mar-20	0
<b>Status</b> ● Awaiting NTP      ● Behind Schedule ○ Target Milestone      ● Requires Mitigation ● On-Time					



# 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.



### Recent Project Achievements

During December 2018, IP address and radio frequency issues were resolved for all 51 Remote Units (RUs). The system began tracking targets in the Aerobahn testing environment (Shadow). System optimization is underway, including manual adjustments to the antenna equipment and installing additional relay antennas for improved communication.

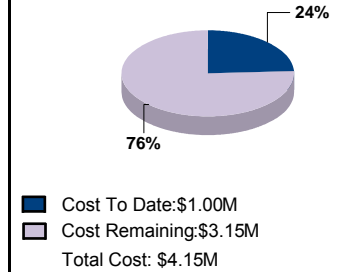
### Budget Status

The project is trending on budget.

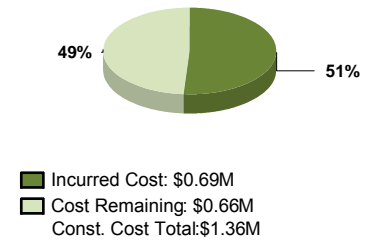
### Schedule Status

The project is currently 173 days behind schedule, due to the project review and permitting process requiring more time than anticipated. The contractor and project team are assessing whether recent rain events will impact the schedule and working to mitigate any subsequent delay.

#### Project EAC Cost



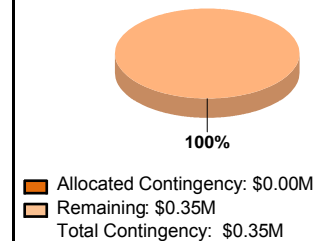
#### Construction Cost



#### Construction Duration

**Time extension being analyzed**

#### Contingency



As of: December 31	Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Airport Surface Management System (Construction)</b>				
Airport Surface Management System - Construction NTP	Started	10-Aug-17		
Airport Surface Management System - Substantial Completion	●		31-Jan-19	-173
<b>Status</b> ● Awaiting NTP      ○ Target Milestone      ● Behind Schedule ● On-Time            ● Requires Mitigation				

# AIRSIDE ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 12/31/2018

(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	14,409	14,057	13,989	14,211	199
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>443,077</b>	<b>442,725</b>	<b>442,657</b>	<b>442,879</b>	<b>199</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: 12/31/2018

(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	50,507	45,279	51,631	4,576
Close-out	Runway 7L-25R Safety Area Improvements and Pavement Rehabilitation	163,151	128,151	127,997	125,221	128,151	0
Closed	Runway 25L Safety Area Improvements and Temporary Repairs	23,745	17,244	17,244	17,244	17,244	0
Closed	West Aircraft Maintenance Area	100,654	96,431	96,431	96,431	96,431	0
Close-out	Runway 6L-24R RSA Improvements and Rehabilitation	40,371	31,571	31,245	31,245	31,245	326
Close-out	Runway 6R-24L Safety Area Improvements	72,324	60,024	59,786	59,786	59,786	238
Active	Airport Surface Management System	4,500	4,500	2,078	1,004	4,150	350
Active	VNY Taxiway B Rehabilitation - Phase 1	29,722	29,722	25,723	2,958	27,744	1,978
<b>Subtotal: Capital Budget 3</b>		<b>490,674</b>	<b>423,850</b>	<b>411,011</b>	<b>379,168</b>	<b>416,382</b>	<b>7,468</b>
<b>Airside Element: Total</b>		<b>1,075,619</b>	<b>908,568</b>	<b>895,377</b>	<b>863,466</b>	<b>900,902</b>	<b>7,667</b>

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# AIRSIDE ELEMENT PROJECTS IN DEVELOPMENT

## BUDGET OVERVIEW AS OF: 12/31/2018

(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	6,432	5,745	TBD	TBD
	Runway 7R-25L Rehabilitation	62,000	TBD	2,600	834	TBD	TBD
<b>Airside Element: Projects in Development</b>							
		<b>62,000</b>	<b>TBD</b>	<b>9,032</b>	<b>6,579</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.  
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# AIRSIDE ELEMENT CHANGE ORDERS MONTH OF: 12/31/2018

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



## Bus Yard Relocation

This project will relocate the Bus Yard Parking Lot to a new site that can accommodate the current and future needs of the Airfield Bus Operations Division. The new site will be sized for the entire bus fleet, including both LAWA and airline consortium-operated buses.

The project was approved for inclusion in the Capital Improvement Program and the project planning activity is underway and is scheduled to complete in mid-2019.





## 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 and various terminal connections.

During December 2018, the project team continued the design review meeting with the design team and advanced the administrative process to develop the design services 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 December 2018, the project team and designer progressed the design development. 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 2019. This project will likely be constructed with the Continental G.O. Building Demolition project.



## 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 late 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 December 2018, staff initiated the administrative process to repackage and re-bid this project.



## 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. The proposed construction schedule starts in early 2020.



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

This project is the first phase of a larger project to remove the remaining transite piping within the CTA. Phase 1 will remove the transite piping between the CUP and Terminal 1 and install new carbon steel piping to replace it along the service access road south of the Theme Building and north on lower East Way.

The project team is validating the scope, construction delivery method assessment and coordinating with other construction efforts in and around the CTA. The proposed construction schedule starts in early 2020.



## 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.

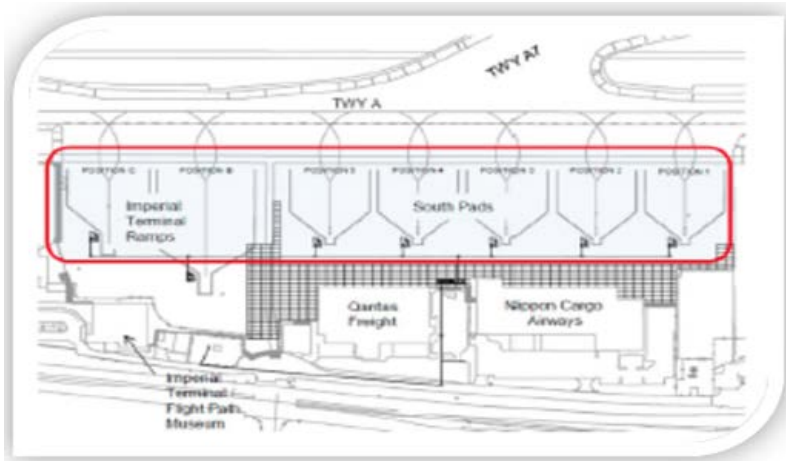
Through December 2018, the project team advanced the administrative process to issue the Request for Construction Bids. The project is pending National Environmental Policy Act (NEPA) review and it is anticipated that construction will commence by mid 2019. This project will likely be constructed with the Secured Area Access Post - Westside project.



## Receiving Station (RS-X)

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 terminals and buildings west of Sepulveda Blvd (primarily the CTA and Westside).

During December 2018, Staff advanced the administrative process to issue the Request for Construction Bids. Environmental entitlements are expected by mid 2019.



## South Pads and Imperial Terminal Electrification

This project will provide electrical infrastructure to make 400 Hz ground power available to parked aircraft at seven parking positions within the South Pads and Imperial Terminal Ramp and provide necessary infrastructure for seven smart battery charging stations for ground support equipment.

The project team is validating the scope and construction delivery method. The proposed construction schedule starts in late-2019.

## Imperial Cargo Complex Electrification

This project will provide electrical infrastructure to make 400 Hz ground power available to parked aircraft at ten parking positions within the Imperial Cargo Complex and provide necessary infrastructure for ten smart battery charging stations for ground support equipment.

The project team is validating the scope and construction delivery method. The proposed construction schedule starts in early-2020.



# 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 December 2018, the contractor has completed 95% of the LADWP cable conduit and equipment installation.

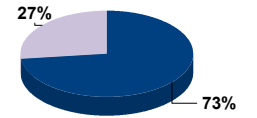
### Budget Status

The project is trending over budget, due to the extended construction duration. The project team and contractor are reviewing this issue and seeking to avoid additional budget impacts.

### Schedule Status

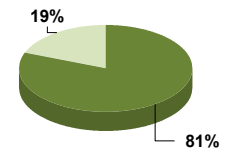
The project is currently 121 days delayed due to the contractor not having obtained a required permit to start the new junction structure work within the city easement; and the contractor substituting a subcontractor on their team. The project team and contractor are evaluating mitigation strategies for these delays.

#### Project EAC Cost



■ Cost To Date:\$8.28M  
 ■ Cost Remaining:\$3.06M  
 Total Cost: \$11.34M

#### Construction Cost

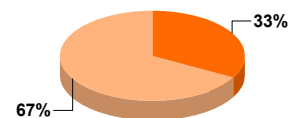


■ Incurred Cost: \$5.64M  
 ■ Cost Remaining: \$1.34M  
 Const. Cost Total:\$6.97M

#### Construction Duration

**Time extension being analyzed**

#### Contingency



■ Allocated Contingency: \$0.22M  
 ■ Remaining: \$0.45M  
 Total Contingency: \$0.67M

As of: December 31	Status	Construction Start	Construction Finish	Variance to BL Finish
<b>North Central Outfall Sewer (NCOS) Connection (Construction)</b>				
North Central Outfall Sewer (NCOS) Connection - Construction NTP	Started	2-Oct-17		
North Central Outfall Sewer (NCOS) Connection - Substantial Completion	●		12-Feb-19	-121

Status	
● Awaiting NTP	● Behind Schedule
○ Target Milestone	● Requires Mitigation
● On-Time	

### 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

Through December 2018, the contractor has completed drain clearing and repair work in Parking Structures 1 and 6. Also, the contractor has completed 70% of the drain cleaning in Parking Structure 3 and 70% of the expansion joint demolition work in Parking Structure 1.

### Budget Status

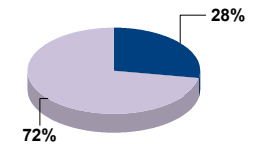
The project is trending on budget. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

### Schedule Status

The project is trending on schedule. The contractor and project team are assessing whether recent rain events will impact the schedule and working to mitigate any potential delays.

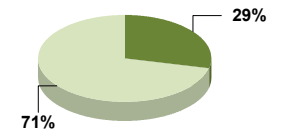
As of: December 31		Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Drainage and Expansion Joint Seal Improvements for PS 1, 3, &amp; 6 - Phase 2 (Construction)</b>					
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Expansion Joints) - Construction NTP		Started	11-Jun-18		
Drainage and Expansion Joint Seal Improvements for PS 1, 3, & 6 - Phase 2 (Expansion Joints) - Substantial Completion		○		9-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		○		28-Feb-19	
<b>Status</b> ● Awaiting NTP      ● Behind Schedule ○ Target Milestone      ● Requires Mitigation ● On-Time					

#### Project EAC Cost



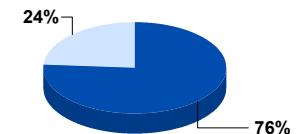
■ Cost To Date:\$0.37M  
 ■ Cost Remaining:\$0.96M  
 Total Cost: \$1.33M

#### Construction Cost



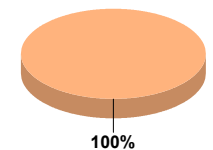
■ Incurred Cost: \$0.25M  
 ■ Cost Remaining: \$0.63M  
 Const. Cost Total:\$0.88M

#### Construction Duration



■ Days Elapsed: 203  
 ■ Days Remaining: 64  
 Days Total: 267

#### Contingency



■ Allocated Contingency: \$0.00M  
 ■ Remaining: \$0.22M  
 Total Contingency: \$0.22M

# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## CTA Exterior Pedestrian Wayfinding and Signage

### Project Description

This project seeks to enhance the passenger experience by developing exterior wayfinding signage alternatives to create a uniform, effective signing system within in the CTA. This project installs 11 pylon signs in the CTA area, 25 ceiling mounted terminal directional signs, 40 regulatory “No Parking” signs, and LED light band above existing commercial median island shuttle signs.



### Recent Project Achievements

During December 2018, installation of terminal directional signs is complete. Stakeholders expressed concerns regarding size and brightness of the LED lights. An alternate LED product has been identified and a mock-up of the new product is scheduled to be installed in January 2019 for stakeholder review.

### Budget Status

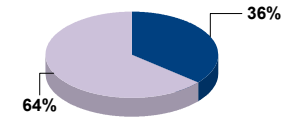
The project is trending over budget due to the design costs of the dynamic sign scope of work. Staff is reviewing the impact and identifying options to mitigate it. The contractor will submit pay requests as phases are completed and the Construction Cost pie chart will be updated to reflect those payments.

### Schedule Status

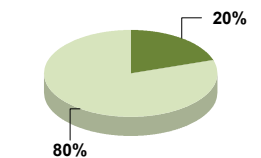
The project is tracking to schedule.

As of: December 31	Status	Construction Start	Construction Finish	Variance to BL Finish
<b>CTA Exterior Pedestrian Wayfinding and Signage Project - Static &amp; Dynamic (Construction)</b>				
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	○		12-Apr-19	
<b>Status</b> ● Awaiting NTP      ● Behind Schedule ○ Target Milestone      ● Requires Mitigation ● On-Time				

#### Project EAC Cost



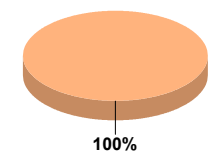
#### Construction Cost



#### Construction Duration



#### Contingency





# UTILITIES & LANDSIDE ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 12/31/2018

(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>							
Closed	New Face of CTA – Phase 2	70,528	73,048	73,048	73,048	73,048	0
Closed	Second Level Roadway Expansion Joint and Deck Repairs	18,900	34,923	34,923	34,923	34,923	0
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>118,085</b>	<b>118,085</b>	<b>118,085</b>	<b>118,085</b>	<b>0</b>
<b>Subtotal: Capital Budget 2</b>		<b>101,642</b>	<b>118,085</b>	<b>118,085</b>	<b>118,085</b>	<b>118,085</b>	<b>0</b>
<b>Capital Budget 3</b>							
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: 12/31/2018

(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	CTA Departure Level Security Bollards	5,657	3,526	3,526	3,526	3,526	0
Closed	Airport Police Dispatch Remodel	1,113	880	880	880	880	0
Closed	Lot C Improvements	946	826	826	826	826	0
Closed	Imperial Cargo Complex Water Main Replacement	9,545	5,901	5,901	5,901	5,901	0
Closed	FLSS Replacement - Child Care Center & Telecommunication Building	1,393	874	874	874	874	0
Closed	Manchester Square / Belford Demolition Program - Phase 2	1,941	865	865	865	865	0
Closed	Construction Access Gates 21, 23 and 236	4,911	3,314	3,314	3,314	3,314	0
Closed	Drainage and Expansion Joint Seal Improvements for Parking Structures 1,3 & 6 - Phase 1	4,935	3,044	3,044	3,044	3,044	0
Closed	Building Roof Replacement - Phase 2 <sup>(3)</sup>	2,787	2,238	2,238	2,238	2,238	0
Closed	VNY Land Improvements - Building Demo	154	109	109	109	109	0
Closed	VNY Jet Center Underground Storage Tank (UST) Removal	637	371	371	371	371	0
Closed	Roofing Replacement - Support Facilities Phase 3	832	727	727	727	727	0
Closed	ADA Improvements - Phase 3	1,836	1,580	1,580	1,580	1,580	0
Active	CTA Exterior Pedestrian Wayfinding and Signage Project	2,402	2,402	2,282	918	2,550	(148)
Active	Drainage and Expansion Joint Seal Improvements for Parking Structures 1,3 & 6 - Phase 2	1,419	1,419	1,024	368	1,328	91
Close-out	Manchester Square / Belford Demolition Program - Phase 3	9,671	9,671	7,586	7,586	7,586	2,085
Active	North Central Outfall Sewer (NCOS) Connection	10,075	10,075	10,207	8,277	11,336	(1,261)
Active	CTA Departure & Arrival Levels Security Bollards Phase 2	32,519	32,519	28,848	27,304	29,940	2,578
Close-out	RON West Electrification Project	9,732	9,732	9,647	9,647	9,720	12
	<b>Subtotal: Capital Budget 3</b>	<b>136,497</b>	<b>128,081</b>	<b>118,331</b>	<b>112,837</b>	<b>121,197</b>	<b>3,357</b>
	<b>Utilities &amp; Landside Element: Total</b>	<b>670,149</b>	<b>653,619</b>	<b>643,869</b>	<b>638,375</b>	<b>646,735</b>	<b>3,357</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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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: 12/31/2018

(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	148	148	TBD	TBD
	Secured Area Access Post (SAAP) at World Way West	Procurement In Progress	TBD	1,369	1,131	TBD	TBD
	Bradley West Traffic Mitigation - Sepulveda Boulevard and Imperial Highway	1,070	TBD	223	169	TBD	TBD
	Fire Drill Training Facility Recommissioning	Procurement In Progress	TBD	1,407	1,100	TBD	TBD
	CTA Domestic Water Pipe Replacement	24,054	TBD	0	0	TBD	TBD
	CTA Chilled Water & Heating Hot Water Distribution Rehab. - Phase 1	9,007	TBD	0	0	TBD	TBD
	Continental G.O. Building Demolition	Procurement In Progress	TBD	990	706	TBD	TBD
	Receiving Station (RS-X) Project	111,486	TBD	2,501	1	TBD	TBD
	South Pads Electrification & Imperial Terminal Electrification	5,389	BD	401	338	TBD	TBD
	Imperial Cargo Complex Electrification	11,297	TBD	128	128	TBD	TBD
	<b>Utilities &amp; Landside Element: Projects in Development</b>						
		<b>166,531</b>	<b>TBD</b>	<b>7,167</b>	<b>3,721</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: 12/31/2018**

Project	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
<b>UTILITIES &amp; LANDSIDE ELEMENT</b>					
<b>DA-5263 - CTA DEPARTURE AND ARRIVAL LEVELS SECURITY BOLLARDS - PHASE 2</b>					
12/14/2018 DA-5263	0012	\$36,895			Construction of Passenger Loading Zone at Column 4A (CCRs 2011, 2017, 2023, 2024, 2044)

# 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 December 2018, the design-builder submitted the 30% drawings for Terminal 5.5 enabling and 60% drawings for TBIT enabling.

### Budget Status

The project is currently trending on budget, though the contractor's cost estimate that accompanied the basis of design submittal exceeds the stipulated construction cost. The cost of work component is within the stipulated cost, but the contractor soft costs currently exceed it. The project team and contractor are working together to identify and analyze areas of concern.

### Schedule Status

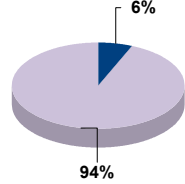
The project is tracking to schedule.

As of: December 31	Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Terminal Cores &amp; APM Interface (Construction)</b>				
Terminal Cores & APM Interface - Construction NTP	Started	26-Mar-18		
TBIT Cores & APM Interface - Substantial Completion	●		9-Mar-22	0
Terminal 5.5 Cores & APM Interface - Substantial Completion	●		9-Mar-22	0
Terminal 7 Vertical Circulation Improvements - Substantial Completion	●		9-Mar-22	0

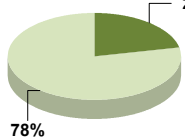
Status	
● Awaiting NTP	● Behind Schedule
○ Target Milestone	● Requires Mitigation
● On-Time	

#### Project EAC Cost



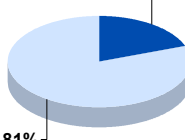
Cost To Date: \$26.22M  
Cost Remaining: \$380.21M  
Total Cost: \$406.43M

#### Construction Cost



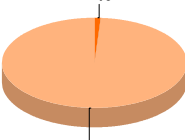
Incurred Cost: \$20.77M  
Cost Remaining: \$74.82M  
Const. Cost Total: \$95.60M

#### Construction Duration



Days Elapsed: 280  
Days Remaining: 1,165  
Days Total: 1445

#### Contingency



Allocated Contingency: \$0.60M  
Remaining: \$49.88M  
Total Contingency: \$50.48M

# 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 December 2018, the project team received the 60% civil package and the 30% schematic design packages for review.

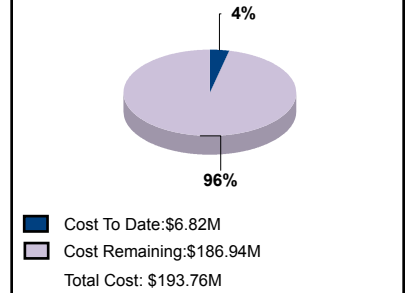
### Budget Status

The project is trending to budget.

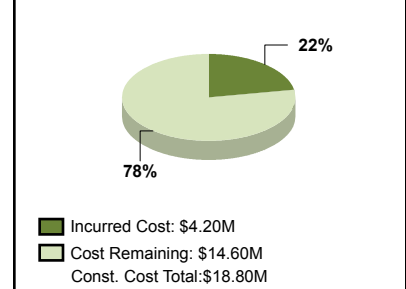
### Schedule Status

The project is tracking to schedule.

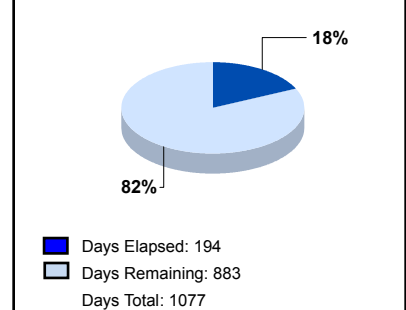
#### Project EAC Cost



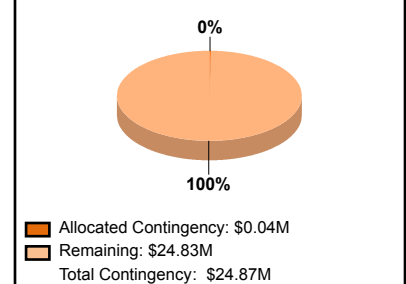
#### Construction Cost



#### Construction Duration



#### Contingency



As of: December 31	Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Airport Police Station &amp; Facilities Program (Construction)</b>				
Airport Police Station & Facilities Program - Construction NTP	Started	20-Jun-18		
Airport Police Station & Facilities Program - Substantial Completion	●		31-May-21	0
<b>Status</b> ● Awaiting NTP      ● Behind Schedule ○ Target Milestone      ● Requires Mitigation ● On-Time				

# TERMINAL ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 12/31/2018

(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
Closed	Bradley West Traffic Mitigations -World Way South/Center Way	735	2,069	2,069	2,069	2,069	0
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>2,123,345</b>	<b>2,123,327</b>	<b>2,123,327</b>	<b>2,123,345</b>	<b>0</b>
<b>Elevator &amp; Escalator Program</b>							
Closed	Elevators and Escalators Replacement	270,000	222,146	222,146	222,146	222,146	0
<b>Subtotal: Elevator &amp; Escalator Program</b>		<b>270,000</b>	<b>222,146</b>	<b>222,146</b>	<b>222,146</b>	<b>222,146</b>	<b>0</b>
<b>Subtotal: Capital Budget 1</b>		<b>2,310,915</b>	<b>2,345,491</b>	<b>2,345,473</b>	<b>2,345,473</b>	<b>2,345,491</b>	<b>0</b>

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# TERMINAL ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 12/31/2018

(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
Closed	Fire Life Safety System Upgrades T1 & T2	5,300	3,210	3,210	3,210	3,210	0
Closed	Terminal MPOE and IT Room Expansion	25,943	25,876	25,876	25,876	25,876	0
<b>Subtotal: Terminal-wide Improvements</b>		<b>58,355</b>	<b>55,940</b>	<b>55,940</b>	<b>55,940</b>	<b>55,940</b>	<b>0</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	173,336	168,631	166,389	172,237	1,099
<b>Subtotal: Terminal 2</b>		<b>204,914</b>	<b>173,336</b>	<b>168,631</b>	<b>166,389</b>	<b>172,237</b>	<b>1,099</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	113,606	112,579	113,933	564
<b>Subtotal: Terminal 4</b>		<b>114,318</b>	<b>114,496</b>	<b>113,606</b>	<b>112,579</b>	<b>113,933</b>	<b>564</b>

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# TERMINAL ELEMENT PROJECTS IN DELIVERY

## BUDGET OVERVIEW AS OF: 12/31/2018

(dollars in thousands)							
Status	Description	Baseline Budget	Current Budget	Committed to Date	Incurred to Date	Estimate at Completion (EAC)	Variance (Current Budget-EAC)
	<b>Tom Bradley International Terminal</b>						
Closed	TBIT EDS OS1 and OS2	3,187	2,904	2,904	2,904	2,904	0
	<b>Subtotal: Tom Bradley International Terminal</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>Terminal 6</b>						
Closed	Terminal 6 Improvements • Terminal 6 Electrical Upgrades Project	32,627	24,998	24,998	24,998	24,998	0
	<b>Subtotal: Terminal 6</b>	<b>32,627</b>	<b>24,998</b>	<b>24,998</b>	<b>24,998</b>	<b>24,998</b>	<b>0</b>
	<b>Terminal 7 /8</b>						
Closed	Terminal 7 Restroom Enhancements	6,159	599	599	599	599	0
	<b>Subtotal: Terminal 7 /8</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>381,564</b>	<b>375,969</b>	<b>372,700</b>	<b>379,902</b>	<b>1,663</b>
	<b>Capital Budget 3</b>						
Closed	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	3,313	3,038	3,618	364
	<b>Terminal-wide Improvements</b>						
Closed	Nursing Rooms & Pet Relief Areas	1,620	1,679	1,679	1,679	1,679	0
Closed	CTX UPS Power Reliability for Sensitive Equipment	987	678	678	678	678	0
Closed	Terminal Fire Life Safety (FLS) System Improvements	15,133	12,377	12,377	12,377	12,377	0
Closed	Theme Building Tenant Enabling Project	5,000	4,181	4,181	4,181	4,181	0
Active	Terminal Cores & APM Interface	456,000	456,000	102,963	26,222	406,429	49,571
Active	Airport Police Station & Facilities Program	218,361	218,361	21,898	6,819	193,759	24,603
	<b>Subtotal: Terminal-wide Improvements</b>	<b>697,101</b>	<b>693,276</b>	<b>143,776</b>	<b>51,956</b>	<b>619,103</b>	<b>74,174</b>
	<b>Subtotal: Capital Budget 3</b>	<b>701,083</b>	<b>724,418</b>	<b>174,249</b>	<b>82,154</b>	<b>649,881</b>	<b>74,538</b>
	<b>Terminal Element: Total</b>	<b>3,443,534</b>	<b>3,451,473</b>	<b>2,895,691</b>	<b>2,800,327</b>	<b>3,375,274</b>	<b>76,201</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.

# TERMINAL ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 12/31/2018

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

- 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.

**TERMINAL ELEMENT CHANGE ORDERS**  
**MONTH OF: 12/31/2018**

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
<b>TERMINAL ELEMENT</b>					
None this 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 December 2018, the contractor has enclosed 30% of the MSC Core structure and the early baggage storage in the basement is 85% complete. The contractor also commenced ramp paving work.

### Budget Status

The project is trending on budget. Staff commenced the administrative action for four Board actions related to hazardous material, gate compatibility, holdroom furniture and CBP/TSA basement modifications. These actions are anticipated in the first quarter of 2019.

### Schedule Status

During December 2018, the project slipped 11 days and is currently 126 calendar days delayed, primarily due to unforeseen contaminated soil, unforeseen gas line utilities and unforeseen transite pipe utilities. The contractor and project team are assessing whether recent rain events will impact the schedule and working to mitigate any subsequent delay.

As of: December 31		Status	Construction Start	Construction Finish	Variance to BL Finish
<b>Midfield Satellite Concourse - North Gates (Construction)</b>					
MSC North Gates - NTP Phase 1		Started	1-Apr-15		
MSC North Gates - Substantial Completion		●		26-May-20	-126
MSC North Gates - Final Acceptance		●		24-Nov-20	-126
<b>Status</b> ● Awaiting NTP      ○ Target Milestone      ● Behind Schedule ● On-Time            ● Requires Mitigation					

#### Project EAC Cost

● Cost To Date: \$785.76M  
 ● Cost Remaining: \$580.00M  
 Total Cost: \$1,365.76M

#### Design/Const. Cost

● Incurred Cost: \$671.40M  
 ● Cost Remaining: \$489.09M  
 Const. Cost Total: \$1,160.49M

#### Design/Const. Duration

● Days Elapsed: 1,379  
 ● Days Remaining: 371  
 Days Total: 1750

#### Contingency

● Allocated Contingency: \$9.46M  
 ● Remaining: \$65.54M  
 Total Contingency: \$75.00M

# MSC ELEMENT PROJECTS IN DELIVERY

## MSC/BW Baggage Optimization

### 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

During December 2018, the utility work continued around the perimeter of the north baggage handling area in preparation for apron paving work. Concrete pad placement for baggage handling system equipment on the apron level commenced.

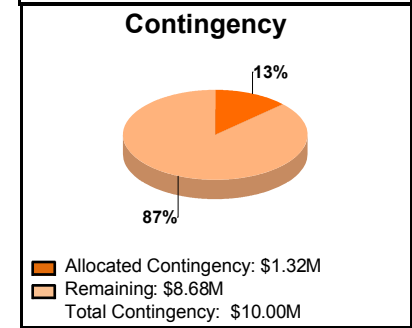
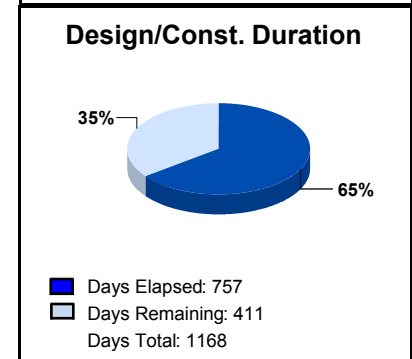
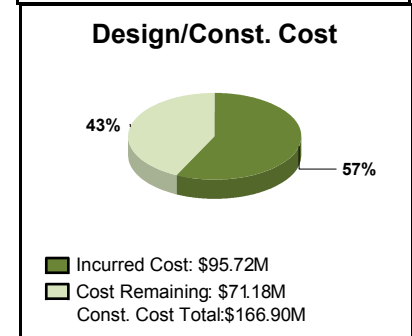
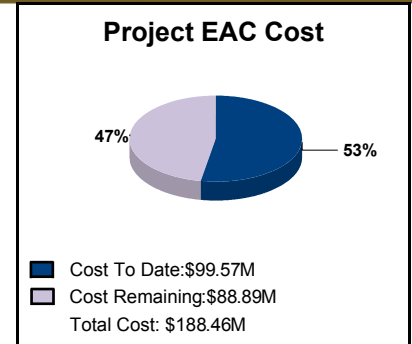
### Budget Status

The project is trending on budget.

### Schedule Status

During December 2018, the completion date slipped 5 days the project is currently 73 calendar days delayed, primarily due to a gas line cut-over, foundations and structural steel. This delay does not impact the Far East Tunnel or Baggage Handling System components, which remain on schedule. The contractor and project team are assessing whether recent rain events will impact the schedule and working to mitigate any subsequent delay.

As of: December 31		Status	Construction Start	Construction Finish	Variance to BL Finish
<b>MSC/BW - Baggage Optimization Program (Construction)</b>					
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		●		12-May-20	-73
<b>Status</b> ● Awaiting NTP    ○ Target Milestone    ● Behind Schedule ● On-Time    ● Requires Mitigation					



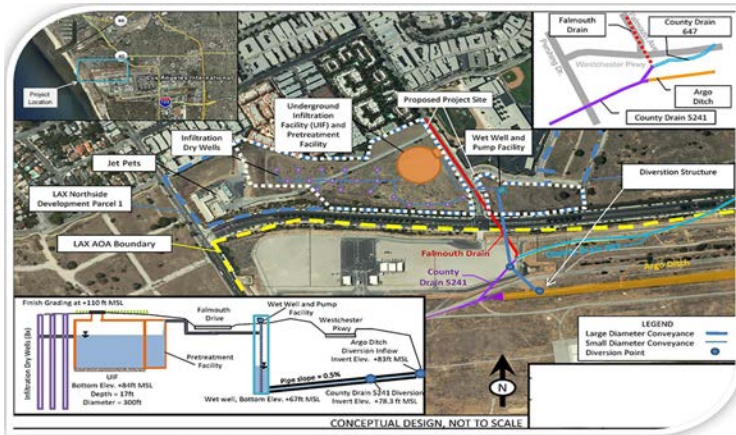
# MSC ELEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 12/31/2018

(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	1,295,125	816,716	1,365,756	61,971
Active	MSC/BW Baggage Optimization Project	195,088	195,088	171,754	104,162	188,461	6,627
<b>Subtotal: Capital Budget 3</b>		<b>1,519,720</b>	<b>1,681,942</b>	<b>1,526,006</b>	<b>980,005</b>	<b>1,613,344</b>	<b>68,598</b>
<b>MSC Element: Total</b>		<b>1,519,720</b>	<b>1,681,942</b>	<b>1,526,006</b>	<b>980,005</b>	<b>1,613,344</b>	<b>68,598</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.

**MSC ELEMENT CHANGE  
ORDERS MONTH OF: 12/31/2018**

Project Contract	Change Order No	< \$150K	\$150K - \$1Mil	> \$1Mil	Description
<b>MSC ELEMENT</b>					
<b>DA-4971 - MIDFIELD SATELLITE CONCOURSE NORTH (MSC)</b>					
12/11/2018 DA-4971	0140		(\$178,774)		MSC - Credit for ABC Rails
12/17/2018 DA-4971	0141	\$54,525			Additional Mandreling and Dewatering of Existing Lines and Vaults
12/9/2018 DA-4971	0142	\$0			Transfer Portion of GR Lump Sum Safety Budget to Partnering Allowance #5
12/6/2018 DA-4971	0145	\$94,109			BOP-FET - Research Concrete Structure Under North East Tug Ramp
12/9/2018 DA-4971	0146	\$13,472			Taxilane C-12 Renaming - Design Costs Only
12/13/2018 DA-4971	0147	\$28,051			BOP - FET Tieback Adjustments at Piles 147-152
12/12/2018 DA-4971	0148	\$53,291			Communication Ductbank Work at Coast Guard Road - Contingency Plan
12/5/2018 DA-4971	0151	\$17,804			Trench Drain Tie-In to Catch Basins at Taxiway R - Design Costs
12/4/2018 DA-4971	0152	\$14,841			Removal of Storm Drain Stencil at Taxilane T-2
12/6/2018 DA-4971	0153	\$52,844			Jack and Bore - LADBS Confined Space Inspection Delay
12/11/2018 DA-4971	0154	\$0			Allowance Re-Allocation - Administrative Change Order
12/17/2018 DA-4971	0155	\$46,900			GTWY - Labor for K-Rail and Fence Repair
12/12/2018 DA-4971	0156	\$445			GTWY - Repaint of Temporary Barricade
12/12/2018 DA-4971	0157	\$1,688			GTWY - Damage to Jobsite by GSE Providers (CRX #1550)



## 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.

During December 2018, the contractor completed the clearing and grubbing activity and commenced site grading and tank excavation. Construction is scheduled to complete in the fourth quarter of 2020.



## 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 December 2018, the contractor successfully placed all the basement foundations. Construction is expected to continue through the first quarter of 2021.





## 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 December 2018, the project team issued an acceptance memo for acquisition package #1, consisting of the Terminal 3 Bus Gate and baggage handling system improvements at Terminal 2 and Terminal 3. The overall renovation program is scheduled for completion in mid 2023.

# TENANT IMPROVEMENT PROJECTS IN DELIVERY BUDGET OVERVIEW AS OF: 12/31/2018

(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>							
Close-out	Terminal 1 (Southwest)	525,801	TBD	525,801	410,755	TBD	TBD
Active	Terminal 1.5 Program	493,399	TBD	493,399	2,578	TBD	TBD
Active	Terminal 2/3 Modernization Projects (by Delta)	1,445,492	TBD	1,445,492	7,492	TBD	TBD
Close-out	Terminal 7 and 8	570,993	TBD	570,993	507,621	TBD	TBD
Active	Proposition O - Argo Drain Sub-basin Facility	14,850	TBD	14,850	14,850	TBD	TBD
<b>Terminal Element: Projects in Development</b>							
		3,050,535	TBD	3,050,535	943,296	TBD	TBD

- 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.

## **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: 12/31/2018

(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	443,077	442,725	442,657	442,879	198
Terminal Element:						
Bradley West Program	2,040,915	2,123,345	2,123,327	2,123,327	2,123,345	0
Elevator & Escalator Program	270,000	222,146	222,146	222,146	222,146	0
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	83,444	N/A	N/A	0	83,444
<b>Subtotal: Capital Budget 1</b>		<b>3,432,843</b>	<b>3,349,028</b>	<b>3,348,960</b>	<b>3,349,200</b>	<b>83,642</b>
<b>Capital Budget 2</b>						
Airside Element	51,421	41,641	41,641	41,641	41,641	0
Terminal Element	431,536	381,564	375,969	372,700	379,902	1,662
Utilities & Landside Element	101,642	118,085	118,085	118,085	118,085	0
Residential/Soundproofing Element	1,317	1,124	1,124	1,124	1,124	0
CB2-Unallocated Contingency	N/A	90,712	N/A	N/A	0	90,712
<b>Subtotal: Capital Budget 2</b>		<b>633,125</b>	<b>536,819</b>	<b>533,550</b>	<b>540,752</b>	<b>92,374</b>
<b>Capital Budget 3</b>						
Airside Element	490,674	423,850	411,011	379,168	416,382	7,468
Terminal Element	701,083	724,418	174,249	82,154	649,881	74,537
Utilities & Landside Element	136,497	128,081	118,331	112,837	121,197	6,884
Midfield Satellite Concourse Element	1,519,720	1,681,942	1,526,006	980,005	1,613,344	68,598
CB3-Unallocated Contingency	N/A	106,083	N/A	N/A	0	106,083
<b>Subtotal: Capital Budget 3</b>		<b>3,064,375</b>	<b>2,229,597</b>	<b>1,554,164</b>	<b>2,800,804</b>	<b>263,570</b>
Projects in Development	N/A	N/A	16,199	10,300	N/A	N/A
<b>Report Total</b>		<b>7,130,343</b>	<b>6,131,643</b>	<b>5,446,974</b>	<b>6,690,756</b>	<b>N/A</b>

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**SBE / LBE / DBE / MWBE REPORT**  
**AS OF: 12/31/2018**

	Contract No.	Pledged Level of Participation	Achieved Participation to Date						Remarks
			SBE	DBE	M/WBE	LBE	LSBE	DVBE	
<b>SBE PROCURED CONTRACTS</b>									
AECOM Technical Services, Inc.*	DA-5315	20.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Austin Commercial	DA-5262	20.00%	13.88%	N/A	N/A	N/A	N/A	N/A	See Note 1
AVB Management Partners Joint Venture	DA-4834	20.00%	85.70%	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	
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%	10.45%	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	
Hensel Phelps Construction Co., a Delaware General Partnership	DA-5263	6.00%	9.42%	N/A	N/A	N/A	N/A	N/A	
Hensel Phelps Construction Co., a Delaware General Partnership	DA-5288	30.00%	12.38%	N/A	N/A	N/A	N/A	N/A	See Note 1
Hill/APSI Joint Venture	DA-5129	49.00%	49.00%	N/A	N/A	N/A	N/A	N/A	
HKS Architects, Inc.	DA-5205	20.00%	66.73%	N/A	N/A	N/A	N/A	N/A	
HNTB Corporation*	DA-5316	20.00%	N/A	N/A	N/A	N/A	N/A	N/A	
IDS Group*	DA-5317	100.00%	N/A	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%	41.24%	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%	15.48%	N/A	N/A	N/A	N/A	N/A	See Note 2
Lea + Elliott, Inc.	DA-5132	20.00%	41.16%	N/A	N/A	N/A	N/A	N/A	
M. Arthur Gensler & Associat	DA-5204	20.00%	0.00%	N/A	N/A	N/A	N/A	N/A	See Note 2
Myers & Sons-Griffith, A Joint Venture	DA-5182	19.63%	11.40%	N/A	N/A	N/A	N/A	N/A	See Note 2
Parsons Transportation Group	DA-5135	42.00%	36.35%	N/A	N/A	N/A	N/A	N/A	See Note 2
Paul Murdoch Architects	DA-5202	100.00%	100.00%	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-5318	20.00%	N/A	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%	18.40%	N/A	N/A	N/A	N/A	N/A	

Notes:

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

1. Early stages of project, Business Enterprise participation expected to rise over course of contract .
2. PDG is working with Firm and PSD to achieve BE pledge.
3. PDG reached out to Firm requesting a corrective action plan.
4. Firm is actively progressing in their M/WBE achievement to meet pledged goal.

**SBE / LBE / DBE / MWBE REPORT**  
**AS OF: 12/31/2018**

	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%	<b>100.00%</b>	N/A	N/A	N/A	N/A	N/A	
Sully-Miller	DA-5074	15.30%	<b>24.44%</b>	N/A	N/A	N/A	N/A	N/A	
Swinerton Builders	DA-5305	20.00%	<b>60.01%</b>	N/A	N/A	N/A	N/A	N/A	
Syska Hennessy Group*	DA-5319	20.00%	<b>N/A</b>	N/A	N/A	N/A	N/A	N/A	
T.Y. Lin International	DA-5050	23.75%	<b>20.86%</b>	N/A	N/A	N/A	N/A	N/A	See Note 3
T.Y. Lin International	DA-5289	20.00%	<b>28.48%</b>	N/A	N/A	N/A	N/A	N/A	
Turner/PCL Joint Venture	DA-4971	15.00%	<b>26.85%</b>	N/A	N/A	N/A	N/A	N/A	
Vanir I ASL	DA-5137	23.00%	<b>68.21%</b>	N/A	N/A	N/A	N/A	N/A	
Wood Environment & Infrastructure Solutions Inc.	DA-5253	25.00%	<b>34.66%</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>9.24%</b>	N/A	N/A	N/A	N/A	
Griffith-Coffman JV	DA-5051	10.50%	N/A	<b>9.63%</b>	N/A	N/A	N/A	N/A	See Note 2
Griffith Company	DA-5206	5.20%	N/A	<b>7.44%</b>	N/A	N/A	N/A	N/A	
Griffith Company*	DA-5314	11.40%	N/A	<b>N/A</b>	N/A	N/A	N/A	N/A	
HNTB Corporation	DA-5162	16.00%	N/A	<b>20.21%</b>	N/A	N/A	N/A	N/A	
RS&H California, Inc.	DA-5173	16.00%	N/A	<b>19.69%</b>	N/A	N/A	N/A	N/A	
Taft Electric Company	DA-5121	15.00%	N/A	<b>15.84%</b>	N/A	N/A	N/A	N/A	
<b>LBE PROCURED CONTRACTS</b>									
AECOM Technical Services, Inc.*	DA-5315	5.00%	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	
Austin Commercial	DA-5262	7.00%	N/A	N/A	N/A	<b>19.50%</b>	N/A	N/A	
E.K. Associates	DA-5208	100.00%	N/A	N/A	N/A	<b>100.00%</b>	N/A	N/A	
Hensel Phelps Construction Co., a Delaware General Partnership	DA-5288	10.00%	N/A	N/A	N/A	<b>36.75%</b>	N/A	N/A	
HNTB Corporation*	DA-5316	5.00%	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	
IDS Group*	DA-5317	5.00%	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	
Kleinfelder Inc.	DA-5254	10.00%	N/A	N/A	N/A	<b>14.95%</b>	N/A	N/A	
Myers & Sons-Griffith, A Joint Venture	DA-5182	12.50%	N/A	N/A	N/A	<b>8.88%</b>	N/A	N/A	See Note 2
RS&H California, Inc.*	DA-5318	5.00%	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	
Smith-Emery Company	DA-5255	7.00%	N/A	N/A	N/A	<b>7.76%</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	
Swinerton Builders	DA-5305	10.00%	N/A	N/A	N/A	<b>7.54%</b>	N/A	N/A	See Note 1
Syska Hennessy Group*	DA-5319	5.00%	N/A	N/A	N/A	<b>N/A</b>	N/A	N/A	
T.Y. Lin International	DA-5289	10.00%	N/A	N/A	N/A	<b>3.14%</b>	N/A	N/A	See Note 2
Wood Environment & Infrastructure Solutions Inc.	DA-5253	15.00%	N/A	N/A	N/A	<b>22.95%</b>	N/A	N/A	

Notes:

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3. PDG reached out to Firm requesting a corrective action plan.
4. Firm is actively progressing in their M/WBE achievement to meet pledged goal.

**SBE / LBE / DBE / MWBE REPORT**  
**AS OF: 12/31/2018**

	Contract No.	Pledged Level of Participation	Achieved Participation to Date						Remarks
			SBE	DBE	M/WBE	LBE	LSBE	DVBE	
<b>LSBE PROCURED CONTRACTS</b>									
AECOM Technical Services, Inc.*	DA-5315	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Austin Commercial	DA-5262	5.00%	N/A	N/A	N/A	N/A	2.83%	N/A	See Note 1
Hensel Phelps Construction Co., a Delaware General Partnership	DA-5288	10.00%	N/A	N/A	N/A	N/A	4.04%	N/A	See Note 1
HNTB Corporation*	DA-5316	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
IDS Group*	DA-5317	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Kleinfelder Inc.	DA-5254	7.00%	N/A	N/A	N/A	N/A	14.95%	N/A	
Myers & Sons-Griffith, A Joint Venture	DA-5182	7.49%	N/A	N/A	N/A	N/A	4.17%	N/A	See Note 2
RS&H California, Inc.*	DA-5318	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Smith-Emery Company	DA-5255	4.00%	N/A	N/A	N/A	N/A	7.76%	N/A	
Steve Bubalo Construction Co.	DA-5215	3.00%	N/A	N/A	N/A	N/A	100.00%	N/A	
Swinerton Builders	DA-5305	5.00%	N/A	N/A	N/A	N/A	0.00%	N/A	See Note 1
Syska Hennessy Group*	DA-5319	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
T.Y. Lin International	DA-5289	5.00%	N/A	N/A	N/A	N/A	3.14%	N/A	See Note 2
Wood Environment & Infrastructure Solutions Inc.	DA-5253	15.00%	N/A	N/A	N/A	N/A	22.95%	N/A	
<b>M/WBE PROCURED CONTRACTS</b>									
Skidmore Owings & Merrill	DA-4822	23.00%	N/A	N/A	22.35%	N/A	N/A	N/A	See Note 4
<b>DVBE PROCURED CONTRACTS</b>									
AECOM Technical Services, Inc.*	DA-5315	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Austin Commercial	DA-5262	3.00%	N/A	N/A	N/A	N/A	N/A	0.16%	See Note 1
Hensel Phelps Construction Co., a Delaware General Partnership	DA-5288	3.00%	N/A	N/A	N/A	N/A	N/A	0.00%	See Note 1
HNTB Corporation*	DA-5316	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
IDS Group*	DA-5317	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
RS&H California, Inc.*	DA-5318	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
Swinerton Builders	DA-5305	3.00%	N/A	N/A	N/A	N/A	N/A	0.00%	See Note 1
Syska Hennessy Group*	DA-5319	3.00%	N/A	N/A	N/A	N/A	N/A	N/A	
T.Y. Lin International	DA-5289	3.00%	N/A	N/A	N/A	N/A	N/A	0.00%	See Note 2

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