

SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY

Board Members

C. April Boling
Chairman

Greg Cox
Jim Desmond
Robert H. Gleason
Jim Janney
Mark Kersey
Paul Robinson
Michael Schumacher
Mary Sessom

Ex-Officio Board Members

Laurie Berman
Eraina Ortega
Col. Jason Woodworth

President / CEO

Kimberly J. Becker

SPECIAL CAPITAL IMPROVEMENT PROGRAM OVERSIGHT COMMITTEE and SPECIAL BOARD MEETING

AGENDA

July 31, 2017
9:00 A.M.

San Diego International Airport
SDCRAA Administration Building -- Third Floor
Board Room
3225 N. Harbor Drive
San Diego, CA 92101

This Agenda contains a brief general description of each item to be considered. The indication of a recommended action does not indicate what action (if any) may be taken. If comments are made to the Board without prior notice or are not listed on the Agenda, no specific answers or responses should be expected at this meeting pursuant to State law.

Staff Reports and documentation relating to each item of business on the Agenda are on file in Corporate & Information Governance and are available for public inspection.

NOTE: Pursuant to Authority Code Section 2.15, all Lobbyists shall register as an Authority Lobbyist with the Authority Clerk within ten (10) days of qualifying as a lobbyist. A qualifying lobbyist is any individual who receives \$100 or more in any calendar month to lobby any Board Member or employee of the Authority for the purpose of influencing any action of the Authority. To obtain Lobbyist Registration Statement Forms, contact the Corporate & Information Governance/Authority Clerk Department.

PLEASE COMPLETE A "REQUEST TO SPEAK" FORM PRIOR TO THE COMMENCEMENT OF THE MEETING AND SUBMIT IT TO THE AUTHORITY CLERK. **PLEASE REVIEW THE POLICY FOR PUBLIC PARTICIPATION IN BOARD AND BOARD COMMITTEE MEETINGS (PUBLIC COMMENT) LOCATED AT THE END OF THE AGENDA.**

The Authority has identified a local company to provide oral interpreter and translation services for public meetings. If you require oral interpreter or translation services, please telephone the Corporate & Information Governance/ Authority Clerk Department with your request at (619) 400-2400 at least three (3) working days prior to the meeting.

CALL TO ORDER:

PLEDGE OF ALLEGIANCE:

ROLL CALL:

Committee Members: Gleason, Janney (Chair), Kersey, Robinson

NON-AGENDA PUBLIC COMMENT:

Public Comment is reserved for members of the public wishing to address the Committee on matters for which another opportunity to speak **is not provided on the Agenda**, and which is within the jurisdiction of the Committee. Please submit a completed speaker slip to the Authority Clerk. ***Each individual speaker is limited to three (3) minutes. Applicants, groups and jurisdictions referring items to the Board for action are limited to five (5) minutes.***

Note: Persons wishing to speak on specific items should reserve their comments until the specific item is taken up by the Board.

NEW BUSINESS:

1. **APPROVAL OF MINUTES:**
RECOMMENDATION: Approve the minutes of the April 24, 2017 special meeting.
2. **TERMINAL 2 PARKING PLAZA UPDATE:**
(Airport Design & Construction: Bob Bolton, Director)
3. **FEDERAL INSPECTION SERVICES (FIS) FACILITY UPDATE:**
(Airport Design & Construction: Bob Bolton, Director)
4. **SMALL BUSINESS DEVELOPMENT REPORT:**
(Procurement & Small Business: Regina Brown, Manager, Small Business Development)
5. **PARKING PLAZA AND FIS FINANCE UPDATE:**
(Business & Financial Management: Geoff Bryant, Manager, Airport Finance)
6. **HARBOR DRIVE MOBILITY COMMITTEE UPDATE:**
(Planning & Environmental Affairs: Ted Anasis, Manager, Regional Planning)
7. **SUSTAINABILITY MANAGEMENT PLANNING & PROJECTS:**
(Planning & Environmental Affairs: Brendan Reed, Director)

COMMITTEE MEMBER COMMENTS:

ADJOURNMENT:

Policy for Public Participation in Board, Airport Land Use Commission (ALUC), and Committee Meetings (Public Comment)

- 1) Persons wishing to address the Board, ALUC, and Committees shall complete a "Request to Speak" form prior to the initiation of the portion of the agenda containing the item to be addressed (e.g., Public Comment and General Items). Failure to complete a form shall not preclude testimony, if permission to address the Board is granted by the Chair.
- 2) The Public Comment Section at the beginning of the agenda is limited to eighteen (18) minutes and is reserved for persons wishing to address the Board, ALUC, and Committees on any matter for which another opportunity to speak is not provided on the Agenda, and on matters that are within the jurisdiction of the Board. A second Public Comment period is reserved for general public comment later in the meeting for those who could not be heard during the first Public Comment period.
- 3) Persons wishing to speak on specific items listed on the agenda will be afforded an opportunity to speak during the presentation of individual items. Persons wishing to speak on specific items should reserve their comments until the specific item is taken up by the Board, ALUC and Committees. Public comment on specific items is limited to twenty (20) minutes – ten (10) minutes for those in favor and ten (10) minutes for those in opposition of an item. Each individual speaker will be allowed three (3) minutes, and applicants and groups will be allowed five (5) minutes.
- 4) If many persons have indicated a desire to address the Board, ALUC and Committees on the same issue, then the Chair may suggest that these persons consolidate their respective testimonies. Testimony by members of the public on any item shall be limited to **three (3) minutes per individual speaker and five (5) minutes for applicants, groups and referring jurisdictions.**
- 5) Pursuant to Authority Policy 1.33 (8), recognized groups must register with the Authority Clerk prior to the meeting.
- 6) After a public hearing or the public comment portion of the meeting has been closed, no person shall address the Board, ALUC, and Committees without first obtaining permission to do so.

Additional Meeting Information

NOTE: This information is available in alternative formats upon request. To request an Agenda in an alternative format, or to request a sign language or oral interpreter, or an Assistive Listening Device (ALD) for the meeting, please telephone the Authority Clerk's Office at (619) 400-2400 at least three (3) working days prior to the meeting to ensure availability.

For your convenience, the agenda is also available to you on our website at www.san.org.

For those planning to attend the Board meeting, parking is available in the public parking lot located directly in front of the SDCRAA Administration Building. Bring your ticket to the third floor receptionist for validation.

You may also reach the SDCRAA Administration Building by using public transit via the San Diego MTS system, Route 992. For route and fare information, please call the San Diego MTS at (619) 233-3004 or 511.

UPCOMING MEETING SCHEDULE

<i>Date</i>	<i>Day</i>	<i>Time</i>	<i>Meeting Type</i>	<i>Location</i>
October 19	Thursday	9:00 a.m.	Regular	Board Room

**DRAFT
SAN DIEGO COUNTY REGIONAL AIRPORT AUTHORITY
SPECIAL BOARD AND
SPECIAL CAPITAL IMPROVEMENT PROGRAM OVERSIGHT COMMITTEE
MEETING
MONDAY, APRIL 24, 2017
BOARD ROOM**

CALL TO ORDER: Chair Janney called the Special Capital Improvement Program Oversight Committee and Special Board Meeting to order at 9:30 a.m., on Monday, April 24, 2017, in the Board Room of the San Diego International Airport, Administration Building, 3225 N. Harbor Drive, San Diego, CA 92101.

PLEDGE OF ALLEGIANCE:

ROLL CALL:

Board

Present: Board Members: Cox, Gleason, Janney (Chair),
Kersey, Robinson, Schumacher

Absent: Board Members: Berman (Ex-Officio), Boling, Desmond,
Ortega (Ex-Officio), Sessom,
Woodworth (Ex-Officio)

Capital Improvement Program Oversight Committee

Present: Committee Members: Gleason, Janney (Chair), Kersey
Robinson

Absent: Committee Members: None

Also Present: Angela Shafer-Payne, Interim President/CEO; Amy Gonzalez,
General Counsel; Tony R. Russell, Director, Corporate and
Information Governance/Authority Clerk; Ariel Levy Mayer,
Assistant Authority Clerk I

Board Member Kersey arrived during the course of the meeting.

NON-AGENDA PUBLIC COMMENT: None.

NEW BUSINESS:

1. APPROVAL OF MINUTES:

RECOMMENDATION: Approve the minutes of the January 19, 2017 regular meeting.

ACTION: Moved by Board Member Robinson and seconded by Board Member Gleason to approve staff's recommendation. Motion carried unanimously, noting Board Member Kersey as ABSENT.

Board Member Kersey arrived at 9:35 a.m.

BOARD

WORKSHOP:

2. CAPITAL PROGRAM BUDGET FISCAL YEARS 2018-2022:

Jeffrey Woodson, Vice President, Development provided a presentation on the Capital Program Budget for Fiscal Years 2018-2022 which included CIP Project Development Process, Capital Program Overview, Current Capital Program Project Status, Current FY 2017-2021 Capital Program Budget by Location, Project Closeouts/Cancellations/Adjustments/Budget Summary, Proposed New FY 2018-2022 CIP Projects/Adjustments/Allowances/Budget Summary, Current/Proposed Capital Program Project Locations, and Prioritization Criteria.

Board Member Kersey suggested that in the long-term, charging stations could be located in the valet because cars can be moved around as charging doesn't take long.

Board Member Gleason requested to see all Northside projects, to include what is planned and what's been completed.

Board Member Gleason left at 10:12 a.m.

Chair Janney suggested that staff consider incorporating some of the current administrative staff in the new Facilities Maintenance shops.

In response to Board Member Robinson's concern regarding capital for the Airport Development Plan Terminal 1 Phase 1 project, John Dillon, Director, Financial Management stated that the value for money analysis for the Airport Development Plan would be done in July.

In response to Board Member Cox regarding the cost of the ADP, Mr. Woodson stated that the preliminary cost is between \$2.5 to \$4 billion.

Ms. Shafer-Payne stated, in regards to Terminal 1 Phase 1, that the definition of shovel ready by 2019 is having the environmental approvals and the site ready, not the financing. Once a more definitive cost estimate is determined financing options would be presented.

Board Member Robinson suggested that staff talk with airlines now regarding the options for financing Terminal 1.

BOARD AND COMMITTEE MEMBER COMMENTS: None.

ADJOURNMENT: The meeting was adjourned at 10:34 a.m.

APPROVED BY A MOTION OF THE CAPITAL IMPROVEMENT PROGRAM
OVERSIGHT COMMITTEE THIS 31ST DAY OF JULY, 2017.

TONY R. RUSSELL
DIRECTOR, CORPORATE &
INFORMATION GOVERNANCE/
AUTHORITY CLERK

APPROVED AS TO FORM:

AMY GONZALEZ
GENERAL COUNSEL



Capital Improvement Program Oversight Committee

Terminal 2 Parking Plaza
Update

July 31, 2017

Presented by:
Bob Bolton
Director, Airport Design & Construction



Presentation Topics

Terminal 2 Parking Plaza

Key Project Milestones

Parking Plaza Site

Construction Progress

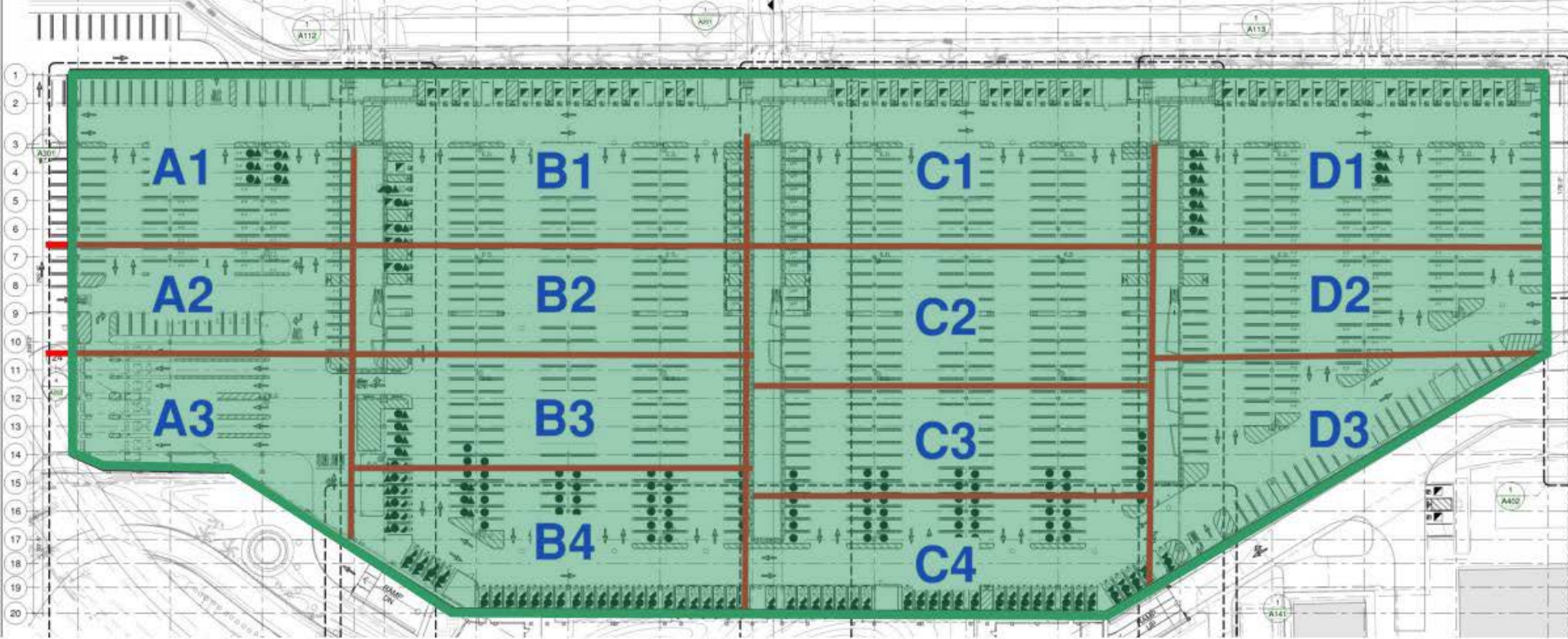
Program Budget

Next Steps

October 2016

Key Project Milestones

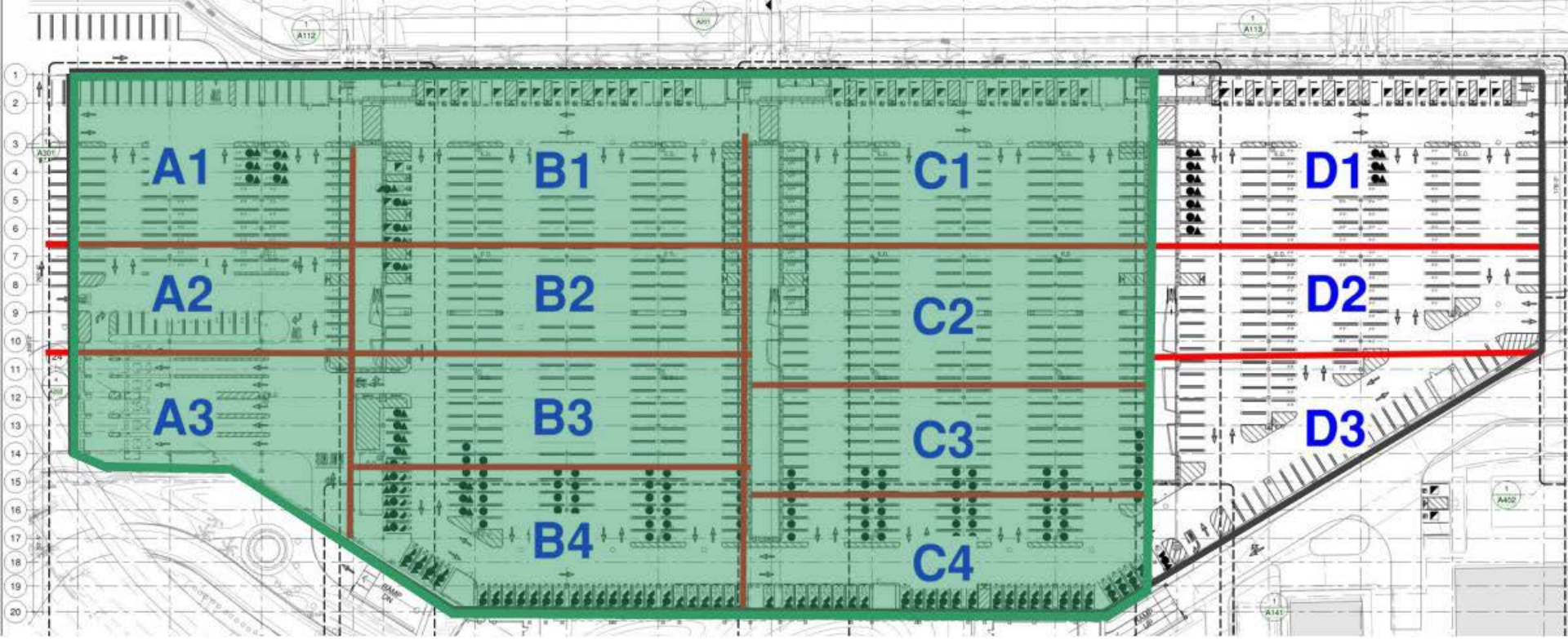
Milestone Events	Planned Dates
12 kV Electrical System Relocation Complete February 2017	Complete
Pile Driving Complete April 2017	Complete
Building Structure Completion	November 2017
Start Construction of Elevators and Stairs	August 2017
Start Commissioning of Parking Systems	March 2018
Construction Substantial Completion	May 2018
Parking Plaza Operational	Summer 2018



Concrete Pour Sequencing Plan

Status as of July 19, 2017

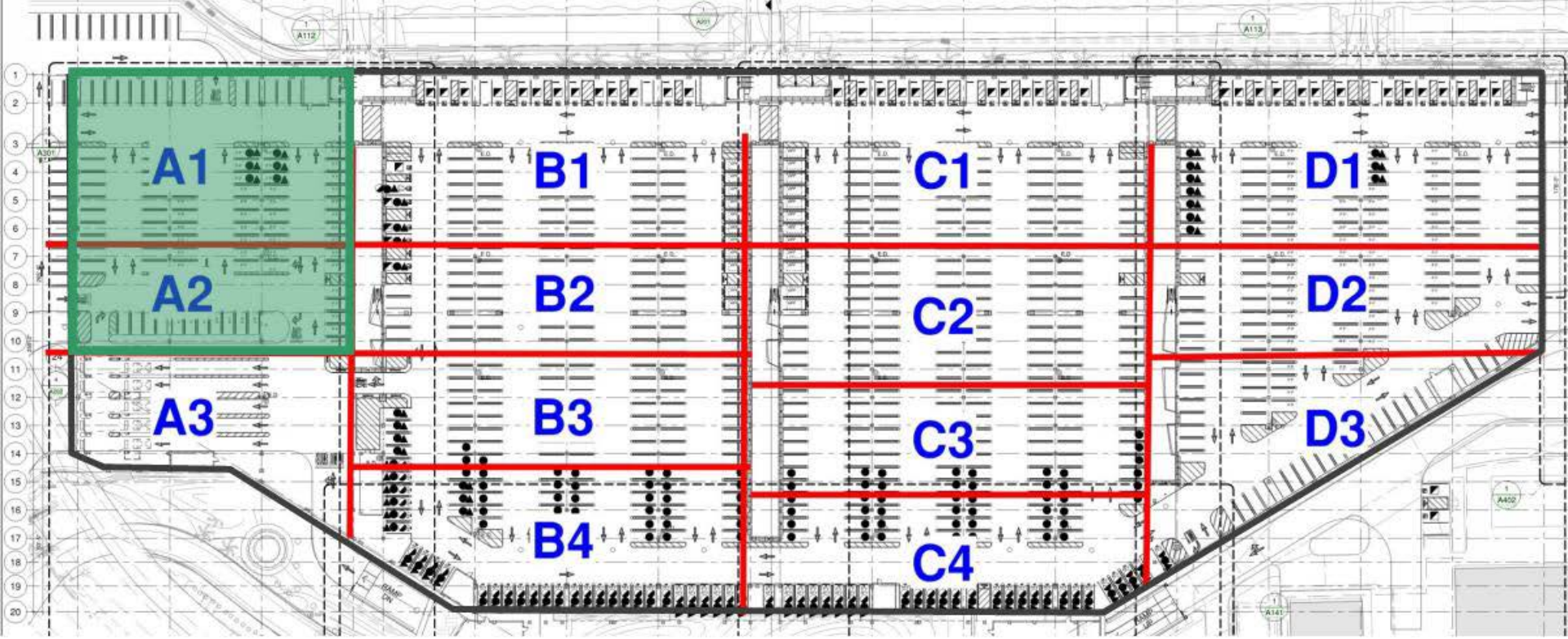
Slab on Grade: All Areas Complete



Concrete Pour Sequencing Plan

Status as of July 19, 2017

2nd Level Deck: Area A1 - C4 Complete



Concrete Pour Sequencing Plan

Status as of July 19, 2017

3rd Level Deck: Area A1 - A2 Complete

Parking Plaza Site:
December 19, 2016



Parking Plaza Site:
June 28, 2017





Construction Progress: Preparation of Slab on Grade



Concrete Pump Truck



Concrete Pour for Slab on Grade



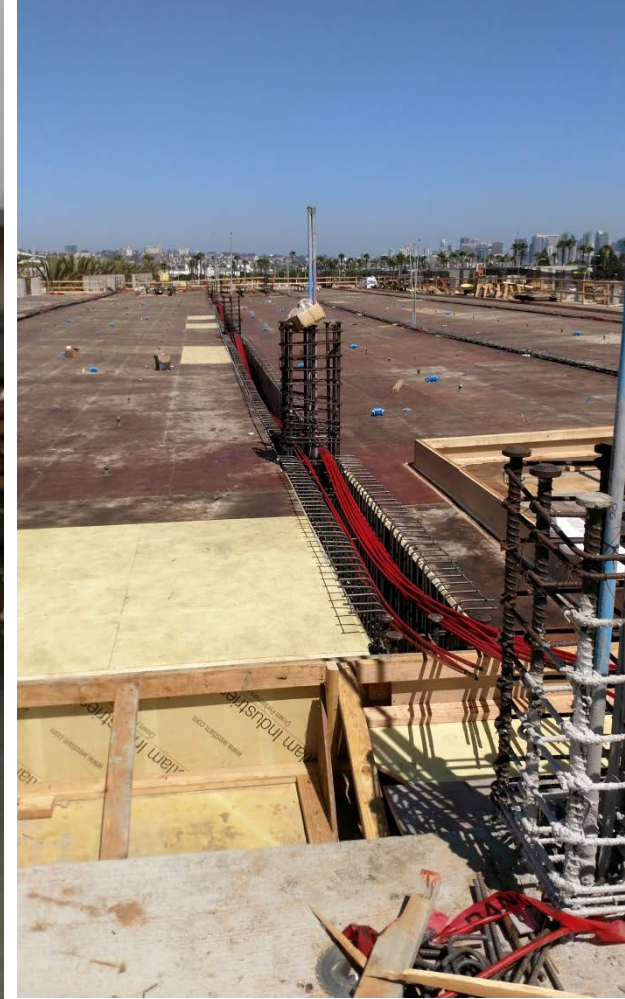
Falsework for 2nd Level Deck



Preparation of 2nd Level Deck



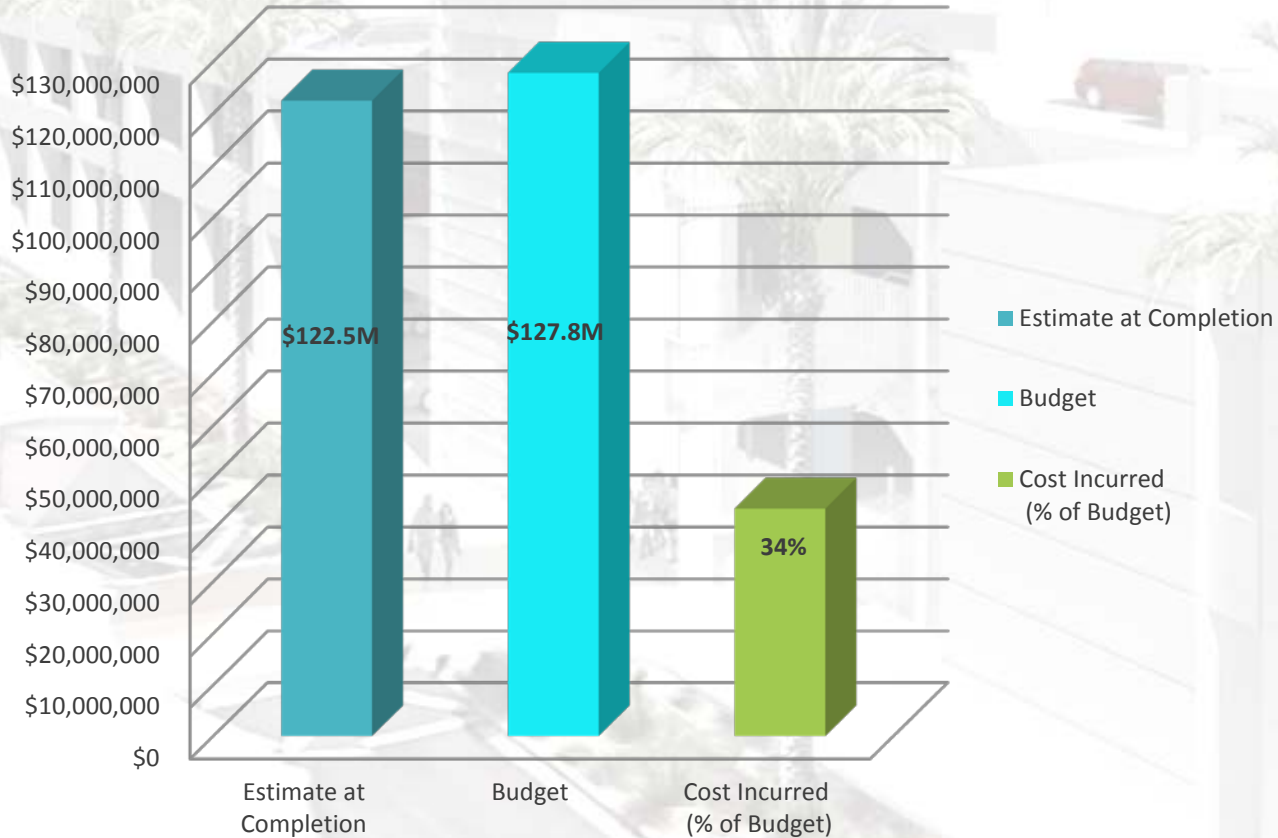
Slab on Grade with 2nd Floor Elevated Deck Above



3rd Floor Deck Preparation

T2 Parking Plaza

Cost through May 31, 2017



Next Steps

April-November 2017
Construct Building
Structure

August 2017
Start Construction of
Elevators and Stairs

March 2018
Start Parking System
Commissioning





Capital Improvement Program Oversight Committee

Federal Inspection Services (FIS)
Facility Update

July 31, 2017

Presented by:

Bob Bolton

Director, Airport Design & Construction

AGENDA:

① FIS – T2W Overall Plan

② Key Project Milestones

③ Construction Progress

④ Cost Update

⑤ Next Steps



**Terminal 2
West**



New FIS

**Terminal 2
East**



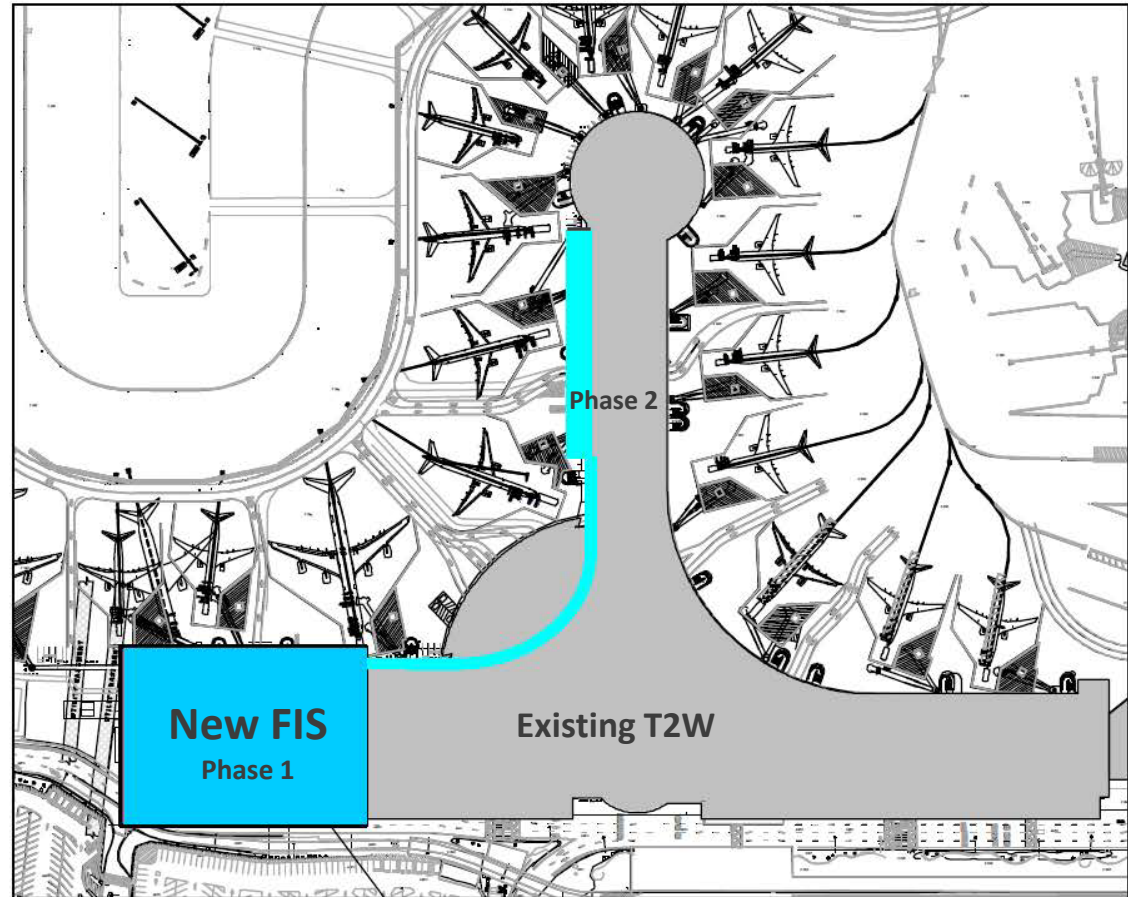
Existing FIS

Terminal 1

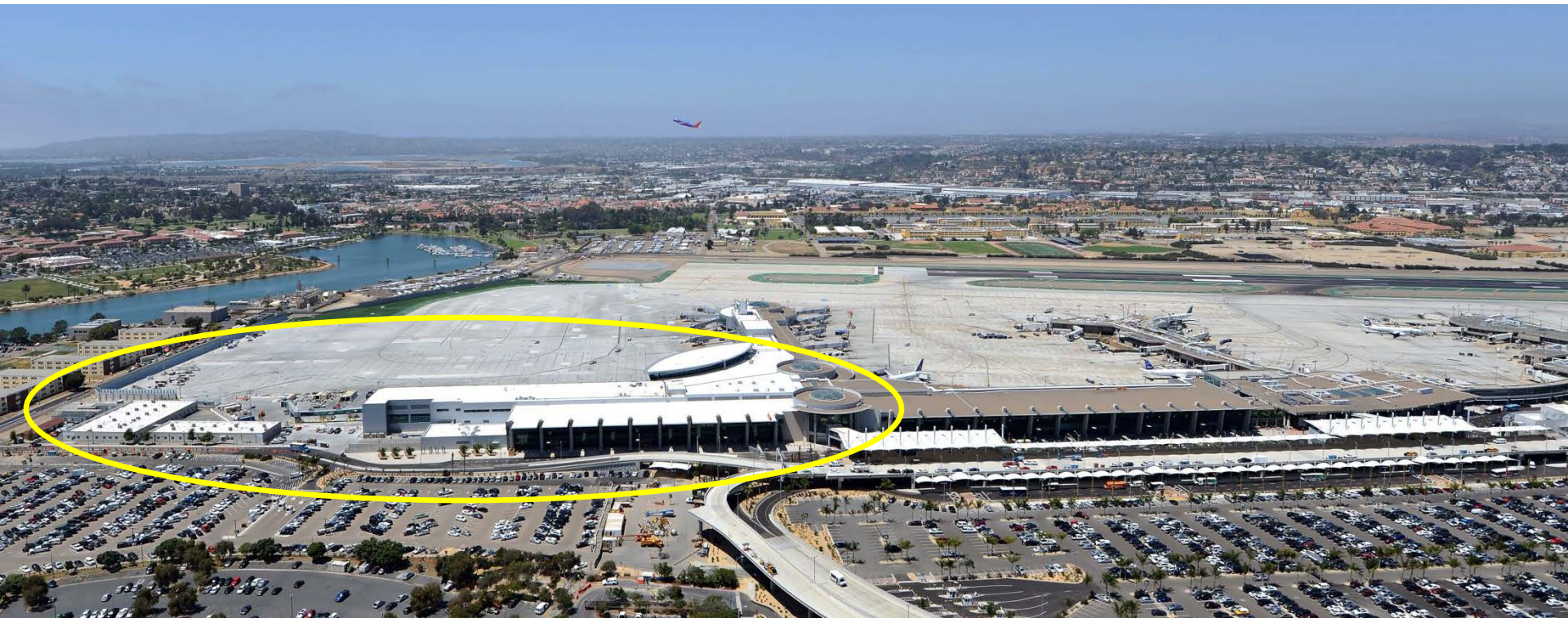
**Administration
Building**



T2W Overall Plan



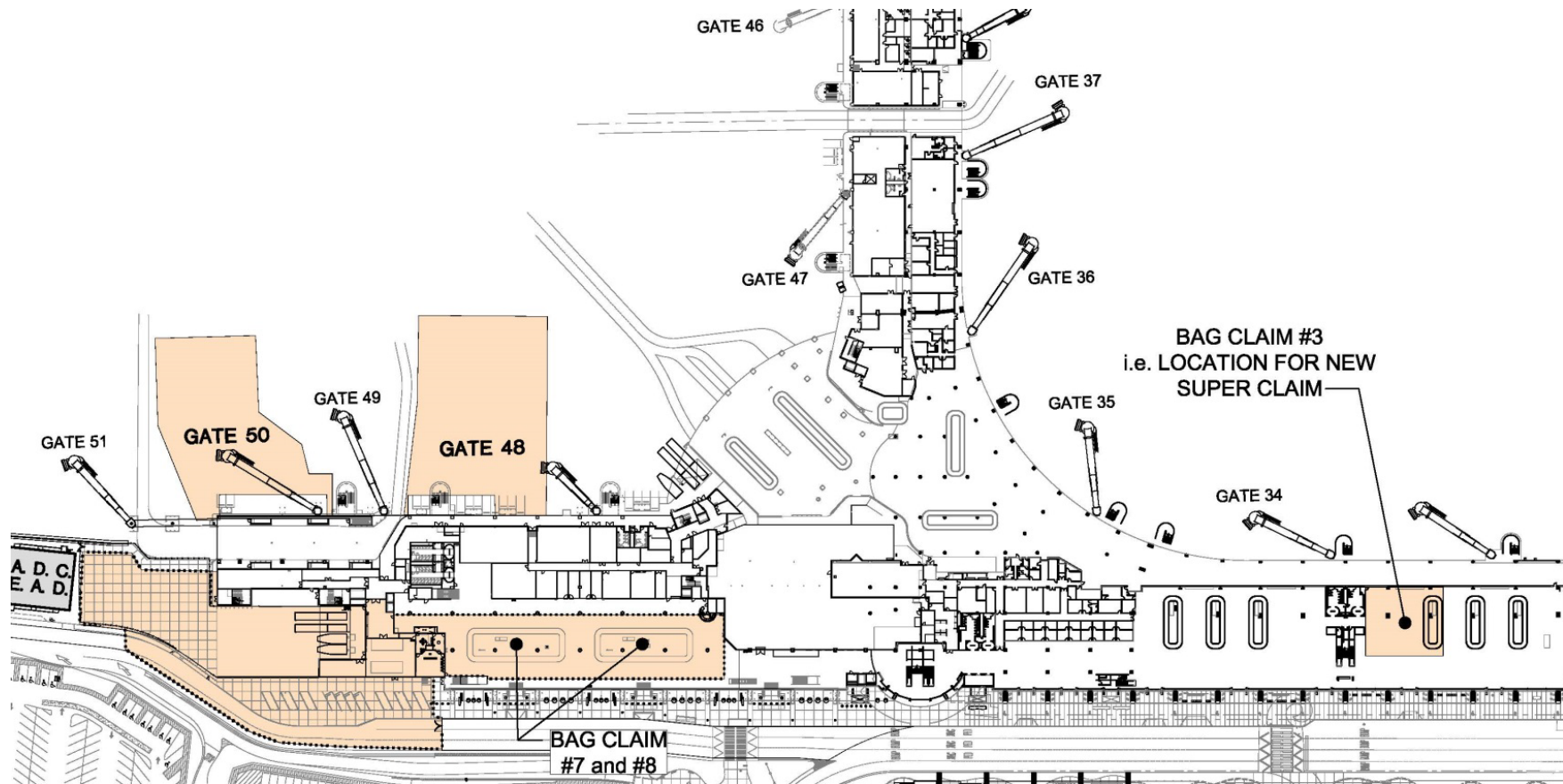
Terminal 2 Site



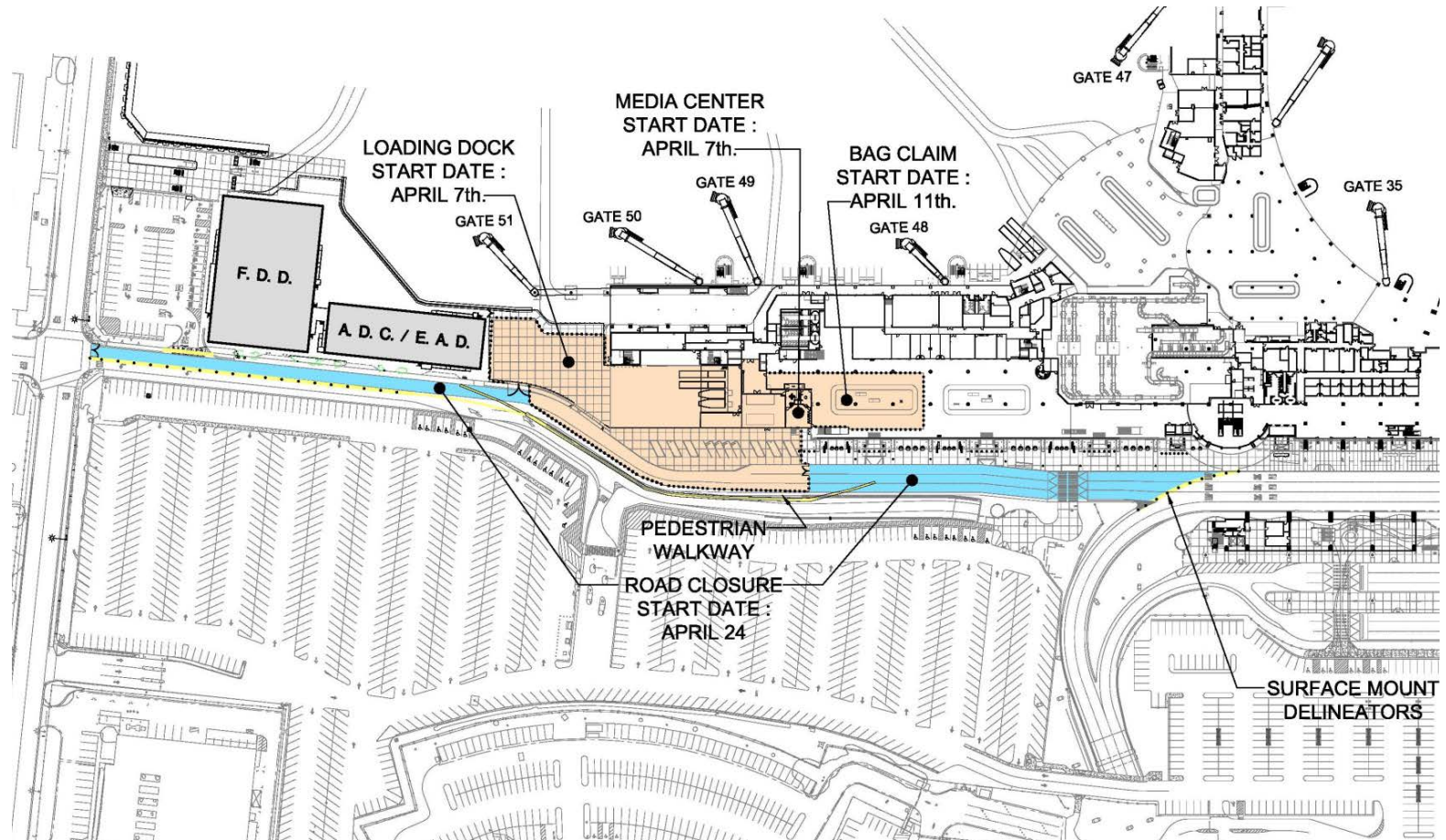
Key Project Milestones

Phase	Anticipated Date
Contract Award (March 2, 2017 Board)	Complete
100% Design	September 2017
Design / Construction	March 2017 – May 2018
Phase 1 Activation	May 2018 – June 2018
Phase 1 Facility Operational	June 2018
Phase 2 Facility Operational	June 2019

FIS Layout



Construction Progress



Construction Progress

Demolition at Baggage Claims 7 & 8



Demolition of Media Center



Temporary Cooling System for 1st Floor T2W During Demolition

Construction Progress

Main FIS Addition



West View:
Steel Reinforcement installation for Grade Beams



East View:
Demolition in Progress

Construction Progress

Gate 50-51 Gatehouse



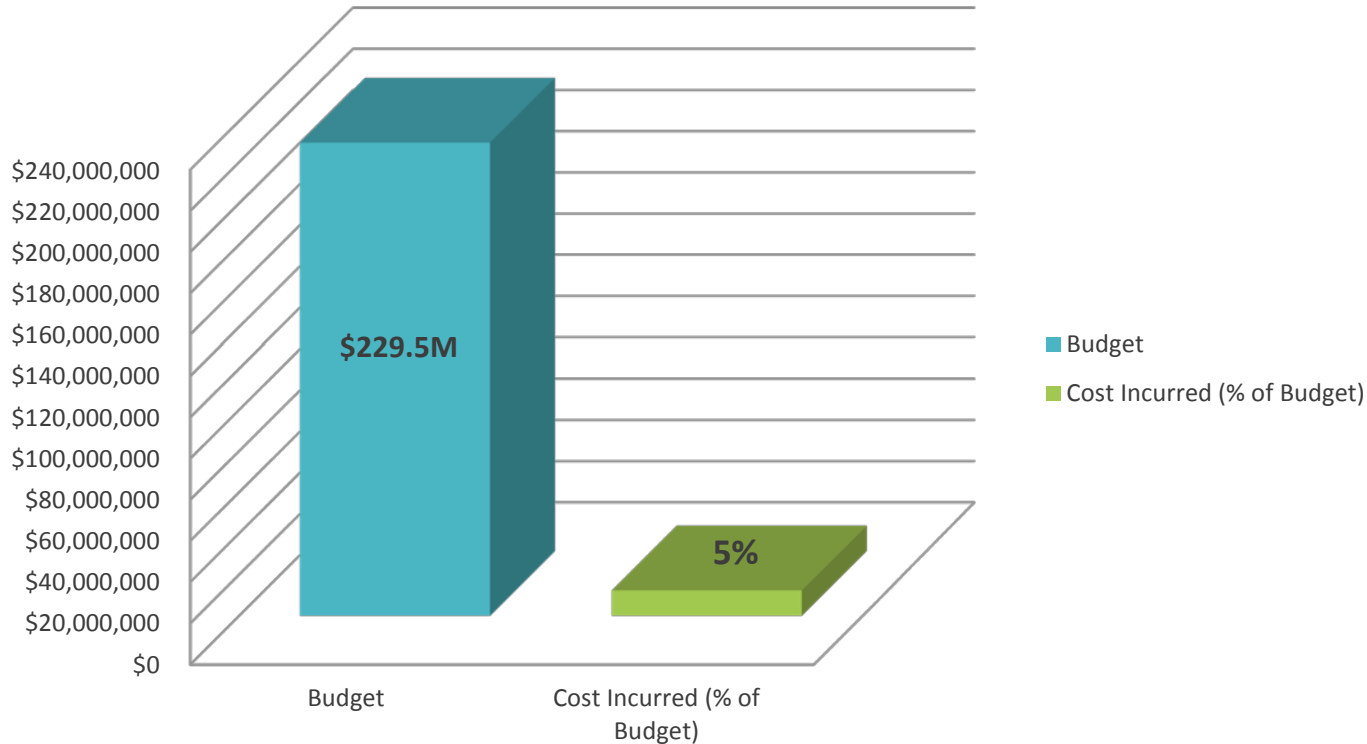
Gate 50 Passenger Boarding Bridge Removal



Gate 50-51 Concrete Demolition

FIS T2W Build-Out

Cost through May 31, 2017



Next Steps



Questions?





Capital Improvement Program Oversight Committee

Small Business Development
Report

July 31, 2017

Presented by:
Regina Brown
Manager, Small Business Development



OVERVIEW

- Parking Plaza
- Federal Inspection System
- Opportunity Awareness
- Education and Training



Parking Plaza

- Training Workshop
- Veteran's Outreach Event
- Meet the Buyers
- California Procurement Event
- Contracts 101



Parking Plaza

(Dollars Awarded)

OVERALL	DOLLARS
Total Dollars Awarded to Subcontractors:	\$64.2 million
Total Dollars Awarded that are ineligible for SB participation	\$28.6 million
Small Business Opportunity	\$35.6 million
Local Business Participation	\$50.0 million
SBE/SDVOSB Participation	\$24.7 million
HUBE Participation	\$7.9 million

FIS Highlights

Opportunity Awareness

- Concrete Partnering Event
- Monthly Training Workshop
- Meet the Buyers
- SD Veterans Job Fair
- Construction Expo
- WCC Mixer
- Meet the Generals



Federal Inspection System

(Dollars Awarded)

OVERALL	DOLLARS
Total Dollars Awarded to Subcontractors:	\$18.4 million
Total Dollars Awarded that are ineligible for SB participation	\$0.00
Local Business Participation	\$11 million
SBE/SDVOSB Participation	\$3.5 million
HUBE Participation	\$3.2 million



SBD Opportunity Awareness Events

- CMAA Owners Night
- Meet the Buyers Veteran Businesses
- Meet the Buyers
- SoCal Construction Expo
- DGS Event
- 2nd Annual California Procurement Event

Total Contacts = 1200+

Education & Training



Bonding & Contract Financing Assistance Program

- OSHA 30
- State Payroll Tax
- OSHA Injury & Illness Prevention
- Contractors Panel
- Procurement
- LCP Tracker
- Ready Service & Change Orders vs. T&M Work



Turner School of Construction Management

- On November 3, 2016, 40 students graduated from Turner School of Construction Management



Capital Improvement Program Oversight Committee

Parking Plaza and FIS Finance
Update

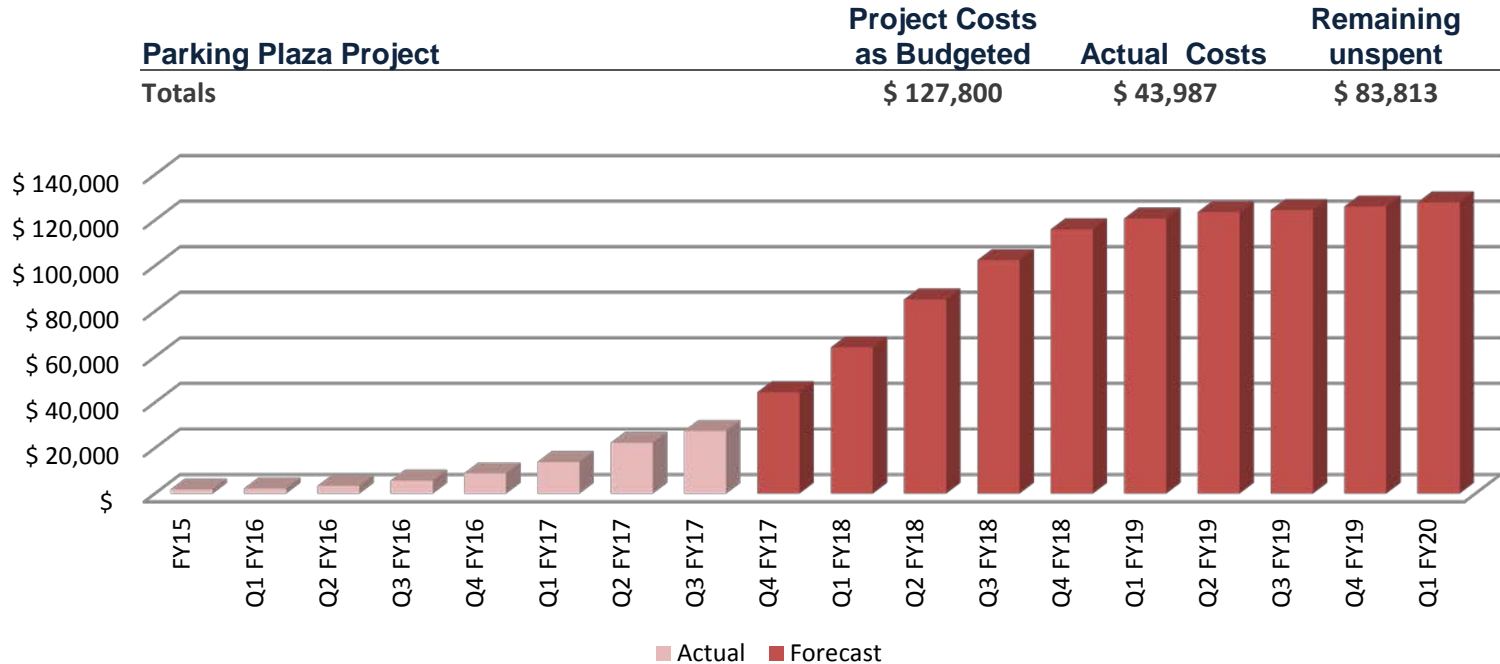
July 31, 2017

Presented by:
Geoff Bryant
Manager, Airport Finance

Parking Plaza Cost

As of May 31, 2017

(amounts expressed in thousands)

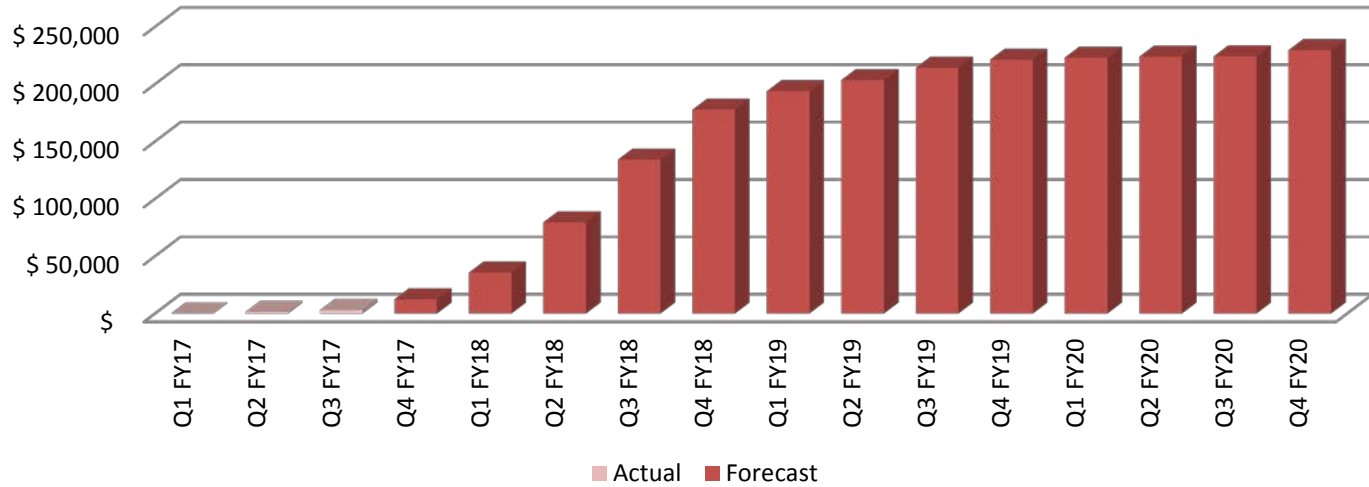


FIS Cost

As of May 31, 2017

(amounts expressed in thousands)

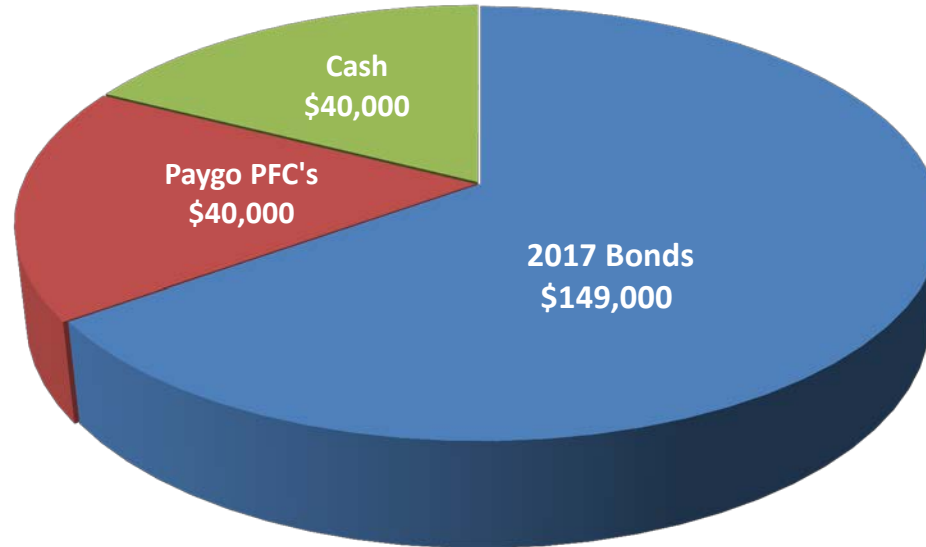
FIS Project	Project Costs as Budgeted	Actual Costs	Remaining unspent
Totals	\$ 229,474	\$ 12,294	\$ 217,180



FIS Funding Sources

As of May 31, 2017

(amounts expressed in thousands)



Questions





Capital Improvement Program Oversight Committee

Harbor Drive Mobility
Committee Update

July 31, 2017

Presented by:

Ted Anasis

Manager, Regional Planning

Overview

1. Mission of Harbor Drive Mobility Committee
 - Policy Group
 - Working Group
2. Subject Area
3. Inventory/Overview of Major Projects/Plans
4. Meeting Schedule

1. Mission of Harbor Drive Mobility Committee

Policy Group Members

- San Diego County Regional Airport Authority – Board Chair
- Port of San Diego – Board Chair
- City of San Diego – Office of the Mayor
- SANDAG
 - SANDAG Board Chair
 - SANDAG Transportation Committee Chair

Working Group Members

- San Diego County Regional Airport Authority
- SANDAG
- Port of San Diego
- City of San Diego
- Caltrans
- MTS
- US Coast Guard
- US Navy/Marine Corps





San Diego International Airport

Subject Area

3.Inventory/Overview of Major Projects/Plans

- **Inventory of stakeholder's projects/plans in the subject area**
- **Purpose: Develop a current list of cumulative projects**
- **Topics to address**
 - What affects traffic/mobility in the subject area?
 - Infrastructure projects in the subject area:
 - Near-term (funded/cleared): Next 5-10 years
 - Long-term: 10+ years or more

4. Schedule

Date/Month	Policy Group	Working Group
June 8, 2017	Policy Group	
July 18, 2017		Working Group
July 28, 2017		Working Group
August 2017	Policy Group	
September 2017		Working Group
October 2017	Policy Group	Working Group

SUSTAINABLE ENERGY

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Primary 2035 Goals

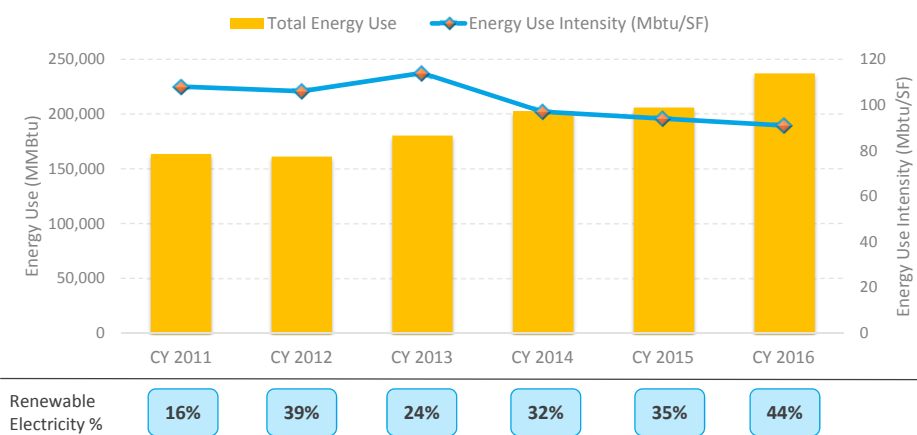
- 30% energy use intensity reduction
- 100% renewable energy
- Systems resilient for 24-hours
- 30% reduction in energy cost per passenger

GRI Key Performance Indicators

- Energy consumption within the organization (EN3)
- Reduction of energy consumption (EN6)
- Energy use intensity (SAN measurement)
- Percent renewable electricity (SAN measurement)

Context

Operating Airport facilities requires substantial energy use, and electricity use represents the single greatest source of Authority-controlled greenhouse gas emissions. As SAN plans to accommodate future passenger growth, the Airport Authority is working to ensure facilities are constructed and operated to optimize energy efficiency and renewable energy opportunities.



Progress Towards Goals

Key Exceeded goals On track

ENERGY EFFICIENCY	<ul style="list-style-type: none"> • Energy use intensity declined 3% in 2016 (lowest intensity since tracking began)
RENEWABLE ENERGY	<ul style="list-style-type: none"> • 44% of SAN's electricity use in 2016 was from renewable sources (highest ever)
RESILIENCE	<ul style="list-style-type: none"> • Redundant circuits on 12kV "microgrid" provide protection against grid outages
COST CONTAINMENT	<ul style="list-style-type: none"> • Energy cost per passenger decreased to \$0.44/passenger in 2016

Quarterly Implementation Update (April - June 2017)

The Airport's Strategic Energy Plan (STEP) provides a roadmap for the Authority to establish cleaner, more dependable, and cost-effective energy sources. Implementation updates in the STEP's five primary strategy areas are provided below:

1. Conservation & Efficiency

- 11% of storefronts are certified Green Concessions
- Nearly 20 employees attended "Home Energy Coach" Lunch & Learn
- Updating Rules and Regulations

2. Carbon Neutrality

- Completed 2016 GHG emissions inventory (0.6% reduction in Scopes 1 & 2)
- Securing a new program administrator for The Good Traveler

3. Interdependence & Resiliency

- Installed 5.5 MW of Solar PV onsite to date
- Designing new, larger capacity generator for Central Utility Plant (CUP)
- Exploring "islanding" capabilities w/ energy storage

4. Cost Containment

- Saved \$265,203 from onsite Solar PV (Jan – May)
- Secured energy storage & exterior lighting incentives
- Natural gas contracted at a fixed rate below SDG&E rate through Feb. 2020
- SAN entered into 2017 SDG&E Direct Access Lottery

5. Regional & Industry Leadership

- Published 2016 Sustainability Report
- Serving as a Panelist for ACRP study on 'Airports & Microgrids'

Look Ahead Activities

	1	2	3	4	5
Pursue energy storage, retro-commissioning, & lighting capital projects	✓		✓	✓	
Update Design Guidelines to incorporate the STEP		✓	✓		
Improve AIMMS to develop energy metering program	✓			✓	
Host additional energy-focused "Lunch & Learns"	✓				✓
ADP Programmatic Document integrating STEP throughout the document, with stand-alone Sustainability chapter		✓		✓	
Explore monetizing renewable energy credits (RECs)				✓	
Explore pilot test of renewable diesel in Authority vehicles	✓			✓	✓

WATER STEWARDSHIP

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Primary 2035 Goals

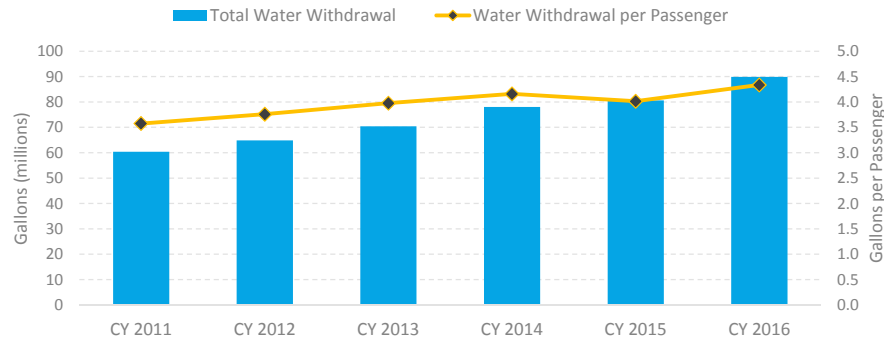
- Zero potable water use for non-potable applications
- Zero storm water discharges
- Critical facilities resilient in a 100-year storm

GRI Key Performance Indicators

- Total water withdrawal by source (EN8)
- Quality of storm water by applicable regulatory standards (AO4)
- Financial implications and other risks and opportunities due to climate change (EC2)

Context

Only 17% of San Diego's current water supply comes from local sources, while approximately 80% of water use at SAN is for non-potable purposes. In addition to an increasingly arid climate, the Airport's location on the San Diego Bay creates risk from rising sea levels and a fragile marine environment, which is highly regulated to avoid community and environmental impacts.



Storm Water Exceedance Ratio	17%	34%	45%	46%	38%	12%
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Progress Towards Goals

Key Exceeded goals On track Needs work

WATER CONSERVATION

- Water use increased in 2016 due to growth in passenger volumes, facility spaces, and landscaped areas

WATER QUALITY

- Sampling shows that SAN's storm water quality exceedance ratio is decreasing

FLOOD RESILIENCE

- Airport facilities were generally resilient to recent El Nino flooding events

Quarterly Implementation Update (April - June 2017)

The Water Stewardship Plan (WSP) establishes SAN's vision of being a world-class leader in managing water resources and operating in harmony with the San Diego Bay region. Implementation updates in the WSP's six primary strategy areas are provided below:

1. Water Stewardship Culture

- Launched Green Concessions Program
- Hosted an employee Lunch & Learn event

2. Water Reuse Infrastructure Plan

- Rain capture and reuse system included in Terminal 2 Parking Plaza
- Tested PCA condensate water to ensure health standards are met
- Finalizing draft Strategic Stormwater Master Plan

3. Water-Conscious O&M

- Expanded condensate collection to 17 gates
- Designing wireless condensate sensors
- Installed 15 Zennvalve Flow Management Devices on all the irrigation lines, with cost savings

4. Design Guidelines & Standards

- Incorporating new BMP Design Manual standards into capital projects
- Pursuing at least LEED Silver for new FIS
- Updating Rules & Regulations

5. Technology & Data Analytics

- Hosted a site tour for RealComm Conference
- Monitoring Terminal 2 West tenants that are sub-metered for water usage

6. Tenant Engagement

- 11% of storefronts are certified Green Concessions
- 50% of Concessionaires are in Green Concessions Program

Look Ahead Activities

Strategy Areas

	1	2	3	4	5	6
Deploy wireless condensate sensors at select gates			✓		✓	
Organize water-focused workshops for Green Concessions participants	✓		✓			✓
Improve AIMMS to develop water metering program					✓	
Highlight water conservation at Sustainability Fair	✓					✓
Update Design Guidelines to incorporate the WSP	✓		✓	✓		
ADP Programmatic Document integrating WSP and SSMP						
Irrigation and xeriscape projects	✓		✓			



Capital Improvement Program Oversight Committee

Sustainability Management Planning &
Projects

July 31, 2017

Presented by:
Brendan Reed
Director, Planning & Environmental Affairs



Presentation Overview

Complex Environmental Issues

Sustainability Mgmt. Planning Components

CIP Project Updates

Airport Carbon Accreditation

2016 Sustainability Report

Complex Environmental Issues

Municipal, Industrial, &
Construction Storm Water

Air Emission Sources
(Generators & Vehicles)

Former NTC
Landfill Site

Campus Utilities
(Energy, Water, &
Waste)

Legacy Site
Contamination

Protected CA
Least Tern Habitat

Sea Level Rise &
Other Climate
Change Impacts

Airport Sustainability Management Plans are...

“a comprehensive and systematic framework for integrating sustainability into an airport’s long-range planning and operations.”



SAN Sustainability Mgmt. Plan

Grant-Funded Topic Areas





Primary 2035 Goals

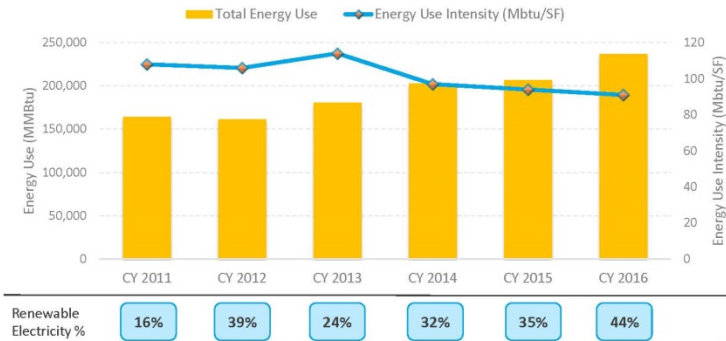
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Context

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Progress Towards Goals

Key Exceeded goals On track

- | | |
|--------------------------|--|
| ENERGY EFFICIENCY | <ul style="list-style-type: none"> • Energy use intensity declined 3% in 2016 (lowest intensity since tracking began) |
| RENEWABLE ENERGY | <ul style="list-style-type: none"> • 44% of SAN's electricity use in 2016 was from renewable sources (highest ever) |
| RESILIENCY | <ul style="list-style-type: none"> • Redundant circuits on 12kV "microgrid" provide protection against grid outages |
| COST CONTAINMENT | <ul style="list-style-type: none"> • Energy cost per passenger decreased to \$0.44/passenger in 2016 |

Quarterly Implementation Update (April - June 2017)

The Airport's Strategic Energy Plan (STEP) provides a roadmap for the Authority to establish cleaner, more dependable, and cost-effective energy sources. Implementation updates in the STEP's five primary strategy areas are provided below:

1. Conservation & Efficiency

- 11% of storefronts are certified Green Concessions (GC)
- Nearly 20 employees attended "Home Energy Coach" Lunch & Learn
- Updating Rules and Regulations

2. Carbon Neutrality

- Completed 2016 GHG emissions inventory (0.6% reduction in Scopes 1 & 2)
- Securing a new program administrator for The Good Traveler

3. Interdependence & Resiliency

- Installed 5.5 MW of Solar PV onsite to date
- Designing new, larger capacity generator for Central Utility Plant (CUP)
- Exploring "islanding" capabilities w/ energy storage

4. Cost Containment

- Saved \$265,203 from onsite Solar PV (Jan – May)
- Secured energy storage & exterior lighting incentives
- Natural gas contracted at a fixed rate below SDG&E rate through Feb. 2020
- SAN entered into 2017 SDG&E Direct Access Lottery

5. Regional & Industry Leadership

- Published 2016 Sustainability Report
- Serving as a Panelist for ACRP study on 'Airports & Microgrids'

Look Ahead Activities	Strategy Areas				
	1	2	3	4	5
Pursue energy storage, retro-commissioning, & lighting capital projects	✓		✓	✓	
Update Design Guidelines to incorporate the STEP		✓	✓		
Improve AIMMS to develop water metering program	✓			✓	
Host additional energy-focused "Lunch & Learns"	✓				✓
ADP Programmatic Document integrating STEP throughout the document, with stand-alone Sustainability chapter		✓		✓	
Explore monetizing renewable energy credits (RECs)				✓	
Explore pilot test of renewable diesel in Authority vehicles	✓			✓	✓



Primary 2035 Goals

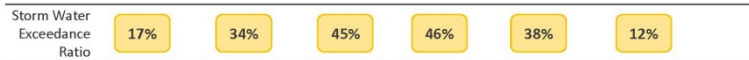
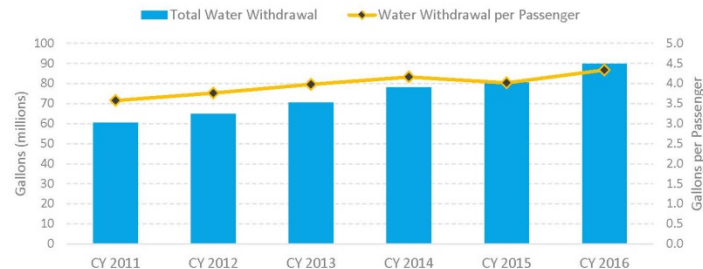
- Zero potable water use for non-potable applications
- Zero storm water discharges
- Critical facilities resilient in a 100-year storm

GRI Key Performance Indicators

- Total water withdrawal by source (EN8)
- Quality of storm water by applicable regulatory standards (AO4)
- Financial implications and other risks and opportunities due to climate change (EC2)

Context

Only 17% of San Diego's current water supply comes from local sources, while approximately 80% of water use at SAN is for non-potable purposes. In addition to an increasingly arid climate, the Airport's location on the San Diego Bay creates risk from rising sea levels and a fragile marine environment, which is highly regulated to avoid community and environmental impacts.



Progress Towards Goals

Key: Exceeded goals (green), On track (yellow), Needs work (red)

WATER CONSERVATION	Water use increased in 2016 due to growth in passenger volumes, facility spaces, and landscaped areas
WATER QUALITY	Sampling shows that SAN's storm water quality exceedance ratio is decreasing
FLOOD RESILIENCE	Airport facilities were generally resilient to recent El Nino flooding events

Quarterly Implementation Update (April - June 2017)

The Water Stewardship Plan (WSP) establishes SAN's vision of being a world-class leader in managing water resources and operating in harmony with the San Diego Bay region. Implementation updates in the WSP's six primary strategy areas are provided below:

1. Water Stewardship Culture

- Launched Green Concessions Program
- Hosted an employee Lunch & Learn event

2. Water Reuse Infrastructure Plan

- Rain capture and reuse system included in Terminal 2 Parking Plaza
- Tested PCA condensate water to ensure health standards are met
- Finalizing draft Strategic Stormwater Master Plan

3. Water-Conscious O&M

- Expanded condensate collection to 17 gates
- Designing wireless condensate sensors
- Installed 15 Zennvalve Flow Management Devices (FMDs) on all the irrigation lines, with cost savings

4. Design Guidelines & Standards

- Incorporating new BMP Design Manual standards into capital projects
- Pursuing at least LEED Silver for new FIS
- Updating Rules & Regulations

5. Technology & Data Analytics

- Hosted a site tour for RealComm Conference
- Monitoring Terminal 2 West tenants that are sub-metered for water usage

6. Tenant Engagement

- 11% of storefronts are certified Green Concessions
- 50% of Concessionaires are in Green Concessions Program

Strategy Areas

Look Ahead Activities

	1	2	3	4	5	6
Deploy wireless condensate sensors at select gates			✓		✓	
Organize water-focused workshops for Green Concessions participants	✓		✓			✓
Improve AIMMS to develop water metering program					✓	
Highlight water conservation at Sustainability Fair	✓					✓
Update Design Guidelines to incorporate the WSP	✓		✓	✓		
ADP Programmatic Document integrating WSP and SSMP						
Irrigation and xeriscape projects	✓		✓			



Clean Transportation/Air Quality Progress Update



Complete baseline assessments



Define objectives & strategies



Implementation & monitoring approach



Draft plan



Final plan

CIP Project Updates



T2PP Storm Water
2M Gal. Capture & Reuse



Battery Energy Storage
SGIP Incentive

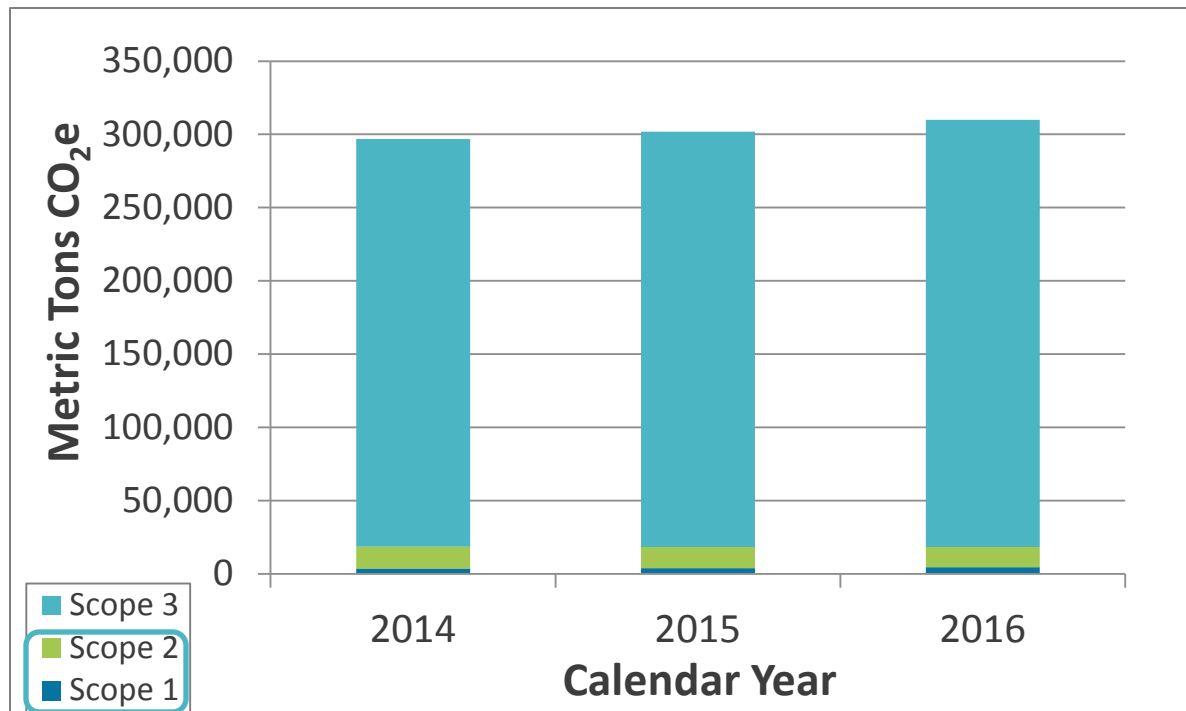


Airside/Landside Chargers
SDG&E SB350 & VW Funds

Airport Carbon Accreditation



2016 Recertification
(Level 2)



- One of only 23 North American airports certified

Project Updates

2016 Sustainability Report

sustain.san.org

The screenshot shows a web browser displaying the 'SUSTAINABILITY REPORT' for the 'Calendar Year 2016'. The page has a dark blue header with the title and a welcome message. Below the header is a light gray section titled 'OVERVIEW OF TOPICS' which contains a grid of five columns representing different strategic areas: Community, Customer, Employee, Financial, and Operational. Each column lists key achievements and includes a 'Read More' button.

SUSTAINABILITY REPORT
Calendar Year 2016

Welcome to the San Diego County Regional Airport Authority's Sustainability Report for 2016. This report generally highlights our activities and accomplishments in our five strategic areas of focus: Community, Customer, Employee, Financial, and Operational. The Airport Authority's annual Sustainability Report helps us better track, understand, and communicate our performance across a variety of economic, social, and environmental topic areas. As before, we have used the Global Reporting Initiative (GRI G4) as a tool to guide the report's development. Our previous report covering calendar years 2014-2015 can be found [here](#).

OVERVIEW OF TOPICS

COMMUNITY	CUSTOMER	EMPLOYEE	FINANCIAL	OPERATIONAL
Growing International Routes a Team Effort	Cutting-Edge Parking Plaza Coming in Summer 2018	Employees Lauded for Sustainability, Innovation	A Flexible & Nimble Approach to Finance	Managing & Reducing Carbon Emissions
A Trusted & Responsive Community Partner	Ensuring Access for All	A Workforce in Transition	Integrated Strategy Anticipates Disruptions	Addressing Air Quality & Emissions
Creating Opportunities for Small Business	Customer Satisfaction A Top Priority At SAN	Focusing on Occupational Health & Safety	Job Creation Drives Regional Economy	Effectively Managing Energy & Water Use
Working with the Community on Noise Mitigation	Wheels as Important as Wings for Moving People	Creating a 'Coaching' Culture	Building Toward a Better Future	SAN Works to Combat Climate Change
Staying Up to Date on Regulatory Compliance	Security a Cornerstone of SAN's Mission	Providing Vital Oversight		Protecting an Endangered Species
		Integrated Pest Management Award		Minimizing Pollutants
Read More	Read More	Read More	Read More	Read More



Questions?

Brendan Reed
Planning & Environmental Affairs Director

www.san.org/green