# San Francisco International Airport Upcoming Construction Projects Overview February 13, 2024

SAN FRANCISCO INTERNA

### SFO

# About San Francisco International Airport

- Enterprise department of the City and County of San Francisco
- Gateway airport to Asia and Europe
- Largest airport in the Bay Area
- 2<sup>nd</sup> busiest in California
- Served 50.2M annual passengers in 2023
- Voted as the Top US Airport in the Wall Street Journal 2022 Annual Ranking
- Voted as the best US Airport for food by Food & Wine's Global Tastemaker 2023 reader choice award

MAYOR EDWIN M. LEE INTERNATIONAL TERMINAL DEPARTURES HALL



# **Inspiring the Extraordinary!**

### **SFO's Mission:**

Delivering an airport experience where **people** and **our planet** come first.



#### Goal #6

Achieve Social Impact Through Partnerships

# **Exceptional Project Outcome**

# SFO's Approach to Exceptional Projec Outcome (EPO



### Structured Partnering

### Collaborative

Alliances

Airport Stakeholders Third Party Stakeholders Designers & Subconsultants Builders & Subcontractors

### Stakeholder Engagement Process

# SFO's Capital Improvement Plan

### **PROGRAM OBJECTIVES**

### Meet SFO's long-term forecasts including:

- Reaching the High Constrained **71.1 MAP** level by the early 2030s
- Needing additional gates to accommodate peak hour demand
- Increase resilience by renewing utility infrastructure
- Continue bold stance with **sustainability**
- Enhance assets to meet **capacity demands**

### **Airport's CIP consists of two Programs:**

- Ascent Program Phase 1.5: \$8 Billion Projects that were under contract & suspended with the onset of COVID-19 such as: Terminal 1 Center, Terminal 3 West, West Field Projects, and Select Priority Projects.
- Infrastructure Projects Plan (IPP): \$3 Billion

End-of-life utility and infrastructure replacement and capacity-enhancing projects.



# **Upcoming Procurement - Architecture**

Project Name	ROM	RFP or Bid Date	Project Delivery Method	Ρι	
Airport-Wide Safety and Security Improvements	\$1M	Q2 2024	DBB	<ul> <li>Airport wide safety and securaddition of doors, access con</li> </ul>	
ADA Accessibility Information Desk	$\sim 1 \times 10^{-1}$		<ul> <li>Replace 7 Information Desk a</li> <li>Incorporate SFO latest design</li> </ul>		
ITB Pre-Security Restroom Improvement	\$30M	Q1 2025	DBB	<ul> <li>Refurbish the pre-security res</li> <li>Terminal Building to add SFO</li> </ul>	
T1 B/A C Re-Roof	\$13M	Q1 2025	DBB	<ul> <li>Replace / repairment existing envelop system</li> <li>Install PV panels on roof</li> </ul>	
West Campus Fitness Center	\$2.5M	Q4 2025	DBB	Promote wellness of Commis	
Central Garage 5 <sup>th</sup> Level Improvement	\$7.8M	Q2 2026	DBB	<ul> <li>Provide new single accommon F/G.</li> <li>Provide new automatic extern of Central Garage's 5th level</li> </ul>	
Roadway Pedestrian Safety Improvement	\$7M	Q3 2026	DBB	<ul><li>Improvement pedestrian rou</li><li>Replace Bus Shelter at T3</li></ul>	
Aviation Museum Improvement	\$2.1M	Q4 2026	DBB	<ul> <li>Improve the visitor experience events</li> </ul>	

#### Purpose

urity control measure which include ontrols and security system

at ITB gn standard to Information Desk

estrooms at the International O's standard and restroom amenities

ng roofing and exterior building

ission employees located in the area

odation toilet rooms at cores B and

erior sliding doors with canopies at all I vertical circulation towers

ute to Bus Shelter to meet ADA at T3

nce and functionality of the space for

# Airport – Wide Safety and Security Improvements

- Provide airport wide safety and security control measures
- Scope will include:
  - Addition of doors
  - Partitions
  - Access controls
  - Security system

ROM:

\$1M



**Airport Wide** 



# ADA Accessibility Information Desks

\$2.4M

ROM:

- Replace 7 Information Desks at ITB
- Scope will include:
  - Design and amenities upgrades
  - Compliance with CCSF, FAA and ADA codes
  - Enhancement of passenger & guest experience





# **ITB Pre-Security Restroom Improvements**

\$30M

ROM:

- Upgrade existing pre-security Restrooms to meet SFO's standard of hospitality.
- Scope will include programming and design services:
  - Restrooms / All Gender Restrooms
  - Companion Care Restrooms





# T1 Boarding Area C Re-Roof

- Replace and upgrade the Exterior Envelope Waterproofing Systems.
- Scope includes professional design  $\bullet$ services for:
  - **Roofing Systems**
  - Seismic Joint Systems  $\bullet$
  - **Exterior Insulation & Finish** Systems (EIFS)
  - Other Waterproofing Systems  $\bullet$
  - **PV** Systems lacksquare



#### **Terminal 1 Boarding Area C**

#### ROM: \$13M

#### Estimated RFP Date: Q1 2025



# West Campus Fitness Center

- Provides a fitness center for the West Campus area to promote the wellness of Commission employees located in the area.
- Scope will include:  $\bullet$ 
  - **Interior Partitions**
  - Ceilings
  - **Interior Finishes and Casework**
  - Mechanical, Electrical and • Plumbing System Upgrades



Building 682 – 5<sup>th</sup> South Side



# Central Garage 5<sup>th</sup> Level Improvements

- Enhance customer experience at domestic ride-share pickup location.
- Scope will include:
  - Construction of single accommodation toilet rooms at cores B and F/G.
  - Provide new automatic exterior sliding doors with canopies at all vertical circulation towers.
  - Improve accessibility for disabled access to pick-up areas.

ROM:

\$7.8M



Central Garage – 5<sup>th</sup> Level

### Estimated Bid Date: Q2 2026



# **Roadway Pedestrian Safety Improvements**

\$7M

ROM:

- Improve pedestrian route to roadway island at T3 to meet ADA and replace bus shelters.
- Scope will include:
  - Reconfiguration of crosswalks
  - Upgrade of roadway island ramps and surface to meet ADA
  - Replacement of bus shelters



#### **Terminal 3 – Roadway Island**

#### Estimated Bid Date: Q3 2026

# **Aviation Museum Improvements**

\$2.1M

ROM:

- Upgrades to the Louis A. Turpen Aviation Museum improving the visitor experience and functionality of the space for events.
- Scope will Include:
  - Acoustic Baffle Ceiling System
  - Lighting System Upgrades
  - Audio Visual System







**International Terminal – Aviation Museum** 

# **Upcoming Procurement – Engineering**

Project Name	ROM	RFP or Bid Date	Project Delivery Method	P
HVAC Improvements at International Terminal	\$50M	March 2024	DBB	<ul> <li>Replace critical components of th Terminal Building (ITB), Boarding that are past their useful life.</li> </ul>
Station BB 12KV Infrastructure Reconfiguration	\$12M	Q3 2024	DBB	<ul> <li>Install new underground duct-ba system reliability.</li> <li>Replace/Upsize existing medium</li> <li>Upgrade existing equipment.</li> </ul>
Field Lighting Bldg. 2 Constant Current Regulator	\$8M	Q3 2024	DBB	<ul> <li>Replace Constant Current Regula</li> <li>Upgrade lighting, fire alarm, acce cables</li> <li>Address water intrusion and FEM</li> </ul>
Airport Shoreline Protection Maintenance Repairs	\$4.15M	Q4 2024	DBB	<ul> <li>Repairs will mitigate risks to shor and will ensure safe operations a</li> </ul>
Central Garage 5th Level Resurfacing	\$7M	Q4 2024	DBB	<ul> <li>Repair and resurface Central Gar</li> <li>Stop water leakage onto lower gate</li> <li>Prevent further damage to the control</li> </ul>
Runway 19L, 28L& 28R Timber Trestles Improvement	\$6M	Q4 2024	DBB	<ul> <li>Assess the condition of timber tree implement recommended repairs</li> <li>Several piers on 28R are schedule platform/walkway are tilting</li> </ul>
BA-TRTS 12kV Power Distribution – West of Bayshore	\$12M	Q3 2025	DBB	<ul> <li>Replacement of underground 12 redundancy of Airport's electrica</li> <li>Site improvement for the 12kV d accessibility during construction</li> </ul>

#### Purpose

he HVAC system at the International g Area A (BAA), and Boarding Area G (BAG)

ank and medium voltage cables to enhance

n voltage cables.

lators at Field Lighting Building No. 2 cess control, CCTV, 5kV duct bank, and 5kV

MA Flood Mitigation Requirements.

oreline failure from deferred maintenance and protection from bay waters.

arage 5<sup>th</sup> Level roof concrete deck garage levels

concrete deck structure

restles supporting FAA lighting and rs

led for emergency repairs and piles and

2kV cables to maintain reliability and cal infrastructure distribution system infrastructure

# **Upcoming Procurement – Engineering**

Project Name	ROM	RFP or Bid Date	Project Delivery Method	Ρι
eGSE Chargers Phase 1 (Boarding Area A)	\$8M	Q1 2024	DBB	<ul> <li>Install new electric ground su throughout BA 'A' to support diesel/gas to electric.</li> </ul>
Smart Water Meters	\$4.1M	Q2 2024	DBB	<ul> <li>Modernize water usage tra</li> <li>Integrate all water meters i</li> </ul>
HVAC Replacement at Special System Rooms (SSR)	\$6M	Q4 2024	DBB	<ul> <li>Replace HVAC equipment s Rooms (SSR) / Data Center</li> </ul>
Sanitary Waste and Drainage Repairs at BA C	\$2.5M	Q4 2024	DBB	<ul> <li>The proposed project scop leaky Sanitary Waste lines</li> <li>The project will address the leaks and the resulting most</li> </ul>

#### Purpose

upport equipment (eGSE) chargers t and encourage fleet change from

acking through automation into BMS system

serving critical Special System rs in Terminals.

pe will include replacing aging and s at BA C underfloor area. he ongoing flooding due to pipe osquito and rodent infestations.

# **HVAC Improvements at International Terminal**

Scope includes renovation and major repairs, such as:

- Replace critical components of 50+ AHUs located at the International Terminal Building, Boarding Area A, and Boarding Area G.
- Replace aging fans, variable frequency drives (VFD), dampers, control valves, sensors, motors and actuators.
- Upgrade AHUs with additional filtration and redundancy.

ROM:

\$50M











# Station BB 12KV Infrastructure Reconfiguration

#### Scope:

Contract will install new underground duct bank and two new 12 kV lines from Station BB to facilities north of San Bruno Avenue. Project will also replace/upsize existing cables and upgrade 12KV equipment to enhance system reliability and prevent circuit overloading.

ROM:

\$12M



#### **Estimated Bid Date:** Q3 2024





# Constant Current Regulator Replacement (FLB#2)

Scope includes renovation and major repairs, such as:

- Replacement of Constant Current Regulator at Field Lighting Building #2
- Upgrade fire alarm system and tie into Airport main FA nodes
- Relocate sensitive electrical equipment from outdoor to indoor
- Reroute 5kV ductbank & replace
   5kV cables
- Address water intrusion in switchgear room & FEMA Flood Mitigation Requirements

ROM:

**\$8**M





Estimated Bid Date:

# **Airport Shoreline Protection Maintenance Repairs**

Scope includes repairs at select segments along the shoreline:

- Riprap replenishment, backfill depressions, replace damaged wale and backboards
- Concrete joint and crack repairs
- Debris and vegetation removal



### *ROM:* \$4.15*M*

### Estimated Bid Date: Q4



### Central Garage 5th Level Resurfacing

Scope includes renovation and major repairs, such as:

- Install new elastomeric coating to Central Garage 5<sup>th</sup> Level roof concrete deck
- Repair damaged concrete deck structure
- Repaint roadway markings and striping

ROM:

\$7M



#### Estimated Bid Date: Q4 2024



# Runway 19L, 28L & 28R Timber Trestle Improvement

Scope includes assessment of the condition of timber trestles supporting FAA lighting on Runways, 19L, 28L, and 28R and implement recommended repairs







#### ROM: \$6M

#### **Estimated Bid Date:** Q4 2024



# BA-TRTS 12kV Power Distribution – West of Bayshore

Scope within endangered speciessensitive area at West of Bayshore includes:

- Site access improvement such as widening of existing roads and installing new gravel roads, gravel access pads for the cable work
- Replace existing 12kV cables feeding the terminal complex

ROM:

\$12M



#### **Estimated Bid Date:** Q3 2025

12BA/TRTS-1A & 1B (WOB)

NIC



# eGSE Chargers, Phase 1



Scope includes:

Electrical infrastructure and metering to support chargers  $\bullet$ 

\$8M

Electric ground support equipment (eGSE) chargers 

ROM:

#### **Estimated Bid Date:** Q1 2024





# **Smart Water Meters**

Scope includes replacement and integration, such as:

- Retrofit all existing water meters (except for the newer installed badger meters) and all its appurtenances
- Replace valves and backflows as required by Plumbing Code
- Integration of new meters from Badger Beacon to SFO Data Lake and EMCS



#### ROM: \$4.1M

#### Estimated Bid Date: Q2 2024



# HVAC Replacement at Special System Rooms (SSRs)

Scope includes renovation and major repairs, such as:

- Replace HVAC equipment serving  ${\bullet}$ critical Special System Rooms (SSR)/ Data Centers in Terminals.
- Scope includes a total of ten (10) SSRs in the International Terminal, Terminal 3, and Terminal 2.

ROM:

\$6M





#### **Estimated Bid Date:** Q4 2024





# Sanitary Waste and Drainage Repairs at BA C

Scope includes renovation and major repairs, such as:

- Replace all sanitary sewer pipe in the BA C crawl space.
- Fill BA C crawl space with flowable lacksquareconcrete.





#### \$2.5M ROM:

Estimated Bid Date: Q4 2024



# **Upcoming Procurement – Project Management**

Project Name	ROM	RFP or Bid Date	Project Delivery Method	Pu
Airport Substation Transformer Upgrade	\$40M	March 2024	DB	<ul> <li>Replace and install high-voltage trar</li> <li>Install/upgrade 12kV duct bank and</li> </ul>
Boarding Area G Gate Enhancements	\$125M	Q2 2024	DB	<ul> <li>Replace Passenger Boarding Bridges</li> <li>Mitigate potential for gate closures</li> </ul>
Wayfinding Phase 2	\$110M	Q2 2024	DB	<ul> <li>Maximize guest experience and incr</li> <li>Install additional water filling station</li> </ul>
Project Management Support Services (PMSS) Prequalified Pool List	As-Needed	Q3 2024	Professional Services	Project Management Support Servio
Mel Leong Treatment Plant (MLTP) Process Upgrades	\$69M	Q3 2024	DB	<ul> <li>Add 4<sup>th</sup> Sequential Batch Reactor to</li> <li>Convert to AGS system for enhanced regulatory requirements</li> </ul>
Parking Access Revenue Control System (PARCS) Replacement	\$20M	Q4 2024	DB	<ul> <li>The existing PARCS has exceeded its frequent failures leading to revenue</li> <li>A new state of the art PARCS will en</li> </ul>
Superbay Renovation	\$130M	Q4 2024	DB	<ul> <li>Replacement of building envelope, elevator</li> <li>Building systems and fire alarm systems</li> </ul>

ırpose

ansformers d cabling to Substation BA

-

es (PBBs) at end of useful life es resulting from failing PBBs

crease dwell times ons to reduced plastic bottle use

vices for various Airport projects

to meet current/future flows ted nutrient removal to meet future

ts useful life and currently experiencing ue loss and poor guest experiences mable frictionless stress-free travel

roof and fall protection system, and

stem upgrade

# **Upcoming Procurement – Project Management**

Project Name	ROM	RFP or Bid Date	Project Delivery Method	Ρι
West Field Building 670	\$450M	TBD	DB	<ul> <li>Mixed Use/Multi-Tenant Building</li> <li>Relocates Building 575 and other mise</li> <li>Potential Tenant Lease Space</li> </ul>
Airport Security Improvements Program (ASIP) Phase 2	\$30M	Q1 2025	DB	<ul> <li>Replace older existing analog CCTV ca the high level of security</li> <li>Design, furnish, install, and integrate in</li> </ul>
Viaduct Pavement Replacement	\$30M	Q1 2025	DB	<ul> <li>Replace expansion joints and resurfac</li> <li>Provide bus shelters, lighted crosswal</li> </ul>
Commissioning, Activation, & Simulation (CAS) Support Services	\$30M	Q2 2024	Consultant Contract	<ul> <li>Provide commissioning, activation, &amp; Improvement Projects using the SFO of Standards. Contractor will work with of closeout to implement the airport spe CAS Standards can be found here: <u>htt</u> <u>tenant-improvement-guide</u></li> </ul>
Runway 1R-19L Rehabilitation & Taxiway W	\$120M	Q2 2024	CM/GC	<ul> <li>State of good repair</li> <li>Extend the life of runway and associate</li> <li>Realignment of non-standard taxiway</li> <li>Eliminate infield ponding</li> <li>Repair EMAS</li> </ul>
Taxiways E & J Realignment	\$55M	Q2 2025	CM/GC	<ul> <li>Realignment of non-standard taxiway</li> <li>Extend the life of taxiway pavement a</li> </ul>
Taxiways Z Rehabilitation	\$20M	Q1 2025	DBB	<ul> <li>State of good repair</li> <li>Extend the life of taxiway pavement a</li> </ul>
Noise Insulation Program – Various Projects	\$15M	Q3 2024	DBB	<ul> <li>Replace and install sound insulati</li> <li>Install Energy Recovery Ventilator components</li> </ul>

#### urpose

isc. Commission Offices

cameras with new digital cameras in keeping with

e new cameras with SFO's existing system

ace pavement alks, and pedestrian bollards

& simulation support services for SFO Capital O Commissioning, Activation, & Simulation In CIP teams from project inception through Decific CAS program customized for each project. <u>https://www.sfoconnect.com/abr-ae-standards-</u>

ated taxiway pavement and lighting system ay geometry and meet the latest FAA standards

and lighting system

and lighting system tion quality doors and windows ors and accompanying electrical

# **Airport Substation Transformer Upgrade**

- Replace aging (near end of life) transformers. Add one spare.
- No change in transmission capacity.
- Replace existing high voltage transformers with 2 + 1 spare
- Upgrade capacity from 55 to 110MVA

ROM:

\$40M

Medium voltage duct bank and feeders



### **Estimated RFP Date: March 2024**



# **Boarding Area G Gate Enhancements**

- Replace all existing Passenger **Boarding Bridges**
- Upgrade infrastructure feeding fire hydrants
- Repair concrete apron pavement
- Install new Advanced Visual Docking Guidance System at each gate
- Maintain minimal disruptions to existing and future flight schedules while accommodating eGSE charging positions



#### ROM: \$125M

Estimated RFP Date: Q2 2024



# Prequalification Pool List for PMSS

The Project Management Support Services will be utilized for a wide variety of Airport projects.

- Project controls and reporting
- Project schedule services
- Project budget and estimating services
- Document Control Services
- Specialized Technical Services
- Commissioning, Activation, and Simulation





### Estimated RFP Date: Q3 2024

# Viaduct Pavement Replacement

- This project will make repairs to the existing expansion joints
- Construct new surface overlay to the elevated  $\bullet$ roadway viaduct structure
- Repair the concrete roadway in front of Terminal 2.
- Upgrade road barrier rails.
- Install flashing lights at Terminal 1 & 3 lacksquarecrosswalks.

ROM:

\$30M

- Provide new bus shelters at Terminal 1 & 3.
- And install bollards at Terminal 3.





### Estimated RFP Date: Q2 2024



# Mel Leong Treatment Plant Process Upgrades

- Construct 4<sup>th</sup> Sequential Batch Reactor
- Convert treatment process to AGS for enhanced nutrient removal (nitrogen) and capacity



#### ROM: \$69M

Estimated Bid Date: Q3 2024





# Wayfinding Phase 2

- Implementation of wayfinding at AirTrain stations, terminals, garages and curbside environments
- Installation of additional water filling stations throughout the Airport





#### Estimated RFP Date: Q2 2024 ROM: \$110M



# Parking Access and Revenue Control System

- The replacement of existing PARCS including infrastructure, equipment, software, hardware at all entry/exit lanes, and head end software/hardware
- Expansion of parking guidance system
- License Plate Recognition
- Enhanced data analytics  $\bullet$
- 100% Compliance with Payment Card Industry Data Security Standard

ROM:

\$20M





### Estimated RFP Date: Q4 2024





# Superbay Renovation

Scope includes renovation and major repairs, such as:

- Replace roofing, fall protection  ${\color{black}\bullet}$ system, exterior wall siding panels, passenger elevator
- Upgrade fire alarm system  ${\color{black}\bullet}$
- Install new photovoltaic (PV solar) system



#### \$130M ROM:

### Estimated Bid Date: Q4 2024



# West Field Building 670

### Scope:

Completion of the Consolidated Administration Campus with a second office building

644

674 676

682

679

\$450M

632

612

- 11-Story, multi-tenant building
- Elevated walkways to Garage & Building 674

710

ROM:



**Estimated RFP Date: TBD** 

101

# ASIP Phase 2 CCTV Assessment

- Replace existing analog CCTV Cameras with new digital CCTV Cameras
- Integration of new cameras into existing SFO system

ROM:

\$30M



**Airport Wide** 

#### Estimated RFP Date: Q1 2025



# Airfield Program Various Projects

#### Runway 1R-19L Rehabilitation & Taxiway W

Scope: Asphalt Overlay and Reconstruction, Airfield Lighting, Drainage, Signage and Markings and EMAS repairs Est. ROM: \$120M Est. RFP Date: 2024

#### **Taxiways E & J Realignment**

Scope: Asphalt Pavement Reconstruction, Airfield
Lighting, Drainage, Signage and Markings.
Est. ROM: \$55M
Est. RFP Date: 2025

#### **Taxiways Z Rehabilitation**

Scope: Asphalt Overlay and Reconstruction, Airfield
Lighting, Signage and Markings.
Est. ROM: \$20M
Est. RFP Date: 2025



### Noise Insulation Program Expanded Eligibility Initiative 2022 Grant - Group 2 Various Projects

Insulation of residential homes impacted by airplane noise. Various improvements may include:

- Installation of acoustical windows and prehung acoustical doors
- Installation of Energy Recovery Ventilators (ERV) and associated electrical work

ROM:

\$15M

• Hazardous materials abatement





SFO D&C – New Construction e-Procurement Portal (OpenGov)

#### **New Features**

- Simple Intuitive Design
- Click "Subscribe" to receive notifications of all publishing of opportunities.
- See all current, future, and past opportunities.
- Simple Sign-Up process.



https://procurement.opengov.com/portal/sfoconstruction

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All			1~
			Advanced Search
Project ID	Addenda	Release Date	Due Date
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11757.61	÷	ω.	
11812.61	-	(†)	
10401.46	0	2/9/2024	3/21/2024
11742.61	0	1/25/2024	2/29/2024
6 - Trade Pack	0	1/31/2024	2/28/2024
5 Trade Bid Pa	0	1/22/2024	2/16/2024
each Event 2	0	2/5/2024	2/13/2024

SFO D&C – New Construction e-Procurement Portal (OpenGov)

#### Follow Projects:

- Click "Follow" to receive all updates on the opportunities that interest you.
- Read the Project Overview, Download RFP Documents, See addenda, Submit Questions and See Answers, and See others who follow the opportunity.



### Resources

### **Delivering Exceptional Projects:**

https://www.sfoconnect.com/formsdocuments/delivering-exceptional-projects

### **SFO Procurement Portal at OpenGov:**

https://procurement.opengov.com/portal/sfo construction

### SFO Strategic Plan 2023-2028:

https://www.sfoconnect.com/formsdocuments/strategic-plan-2023-2028

### **Principles of R.E.A.C.H.:**

https://www.flysfo.com/sites/default/files/pdf /about/b2b/SFO-principles-of-REACH.pdf



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