



PMI Southwest Ohio Annual Summit 2024

Too Many Projects, Too Little Space

COOL

November 16, 2024

Agenda

- COOL Organizational Structure
- COOL Concept and Background
- Key Components:
 1. Master Schedule
 2. GIS (Geographic Information System) Geodatabase
 3. Logistical Coordination
 4. Shutdown Coordination Center
 5. Communications
- Requirements, Standards and Guidelines
- Lessons Learned
- Questions

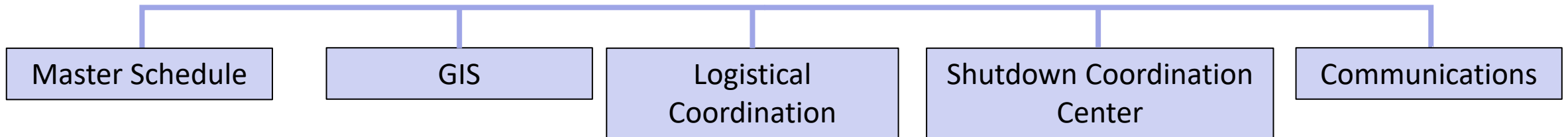
COOL Organizational Structure

Coordinated Oversight and Organizational Logistics

- Don Chinery – Program Logistics Manager
- Vernon Stultz – Director of Program Controls (Project Controls Management and Master Scheduling)

- Part of PM/CM contract
- Program Management Function
- Supports Executive Team and Project Management Team
- Enhances Guest Experience
- Minimize impacts to Passengers, Tenants and Airport Operations

COOL Concept and Background

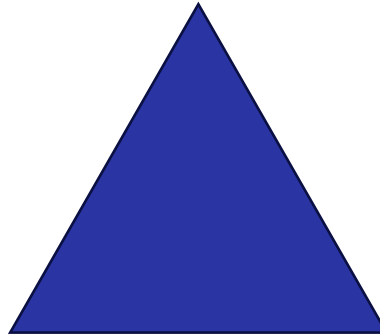


- Time and Space Management
- Program Data Tracking (Master Schedule and GIS)
 - All projects airport-wide including all divisions and financial considerations
- Logistical Coordination to prevent unexpected delays and conflicts
- Internal Communications
- Example used in Aviation but can be applied to other infrastructure programs

COOL Program Coordination



- Program Oversight
- Time and Space Management
- Data Resources – Master Schedule/GIS
- Internal Communications



Project Management Team

- Scope
- Schedule
- Budget
- Quality

Operations

- Terminals
- Landside
- Airfield

Program Components

1. Master Schedule
2. GIS Geodatabase
3. Logistical Coordination
4. Shutdown Coordination Center
5. Communications

Master Schedule

- Program-Level Schedule to coordinate projects and interfaces with Airport Stakeholders (Operations, Security, Maintenance, Tenants, Designers, and Contractors) at a high-level to monitor the progress of the Program.
- Identifies the interdependencies between the projects in a way that the program longest (critical) path can be established and tracked.
- Intended for summary reporting and intended for tracking projects, reporting progress, coordination and communication.
- Projects at varying stages of schedule development all under one tool - P6 Scheduling Software for more clarity, control, tracking and monitoring of the Program/projects.

Master Schedule

- Captures All Projects from Planning through Construction in P6
- All Project Types
- Capital
 - Tenant / Concessions
 - Planning
 - Infrastructure / Maintenance
 - Other Airport Projects (Procurement Purchases)
- Total Project Cost
- Project Contacts – Project Sponsors and Project Managers
- Published Monthly
- Scrubbing for accuracy on a Quarterly Basis with Planning, Project Managers, Operations

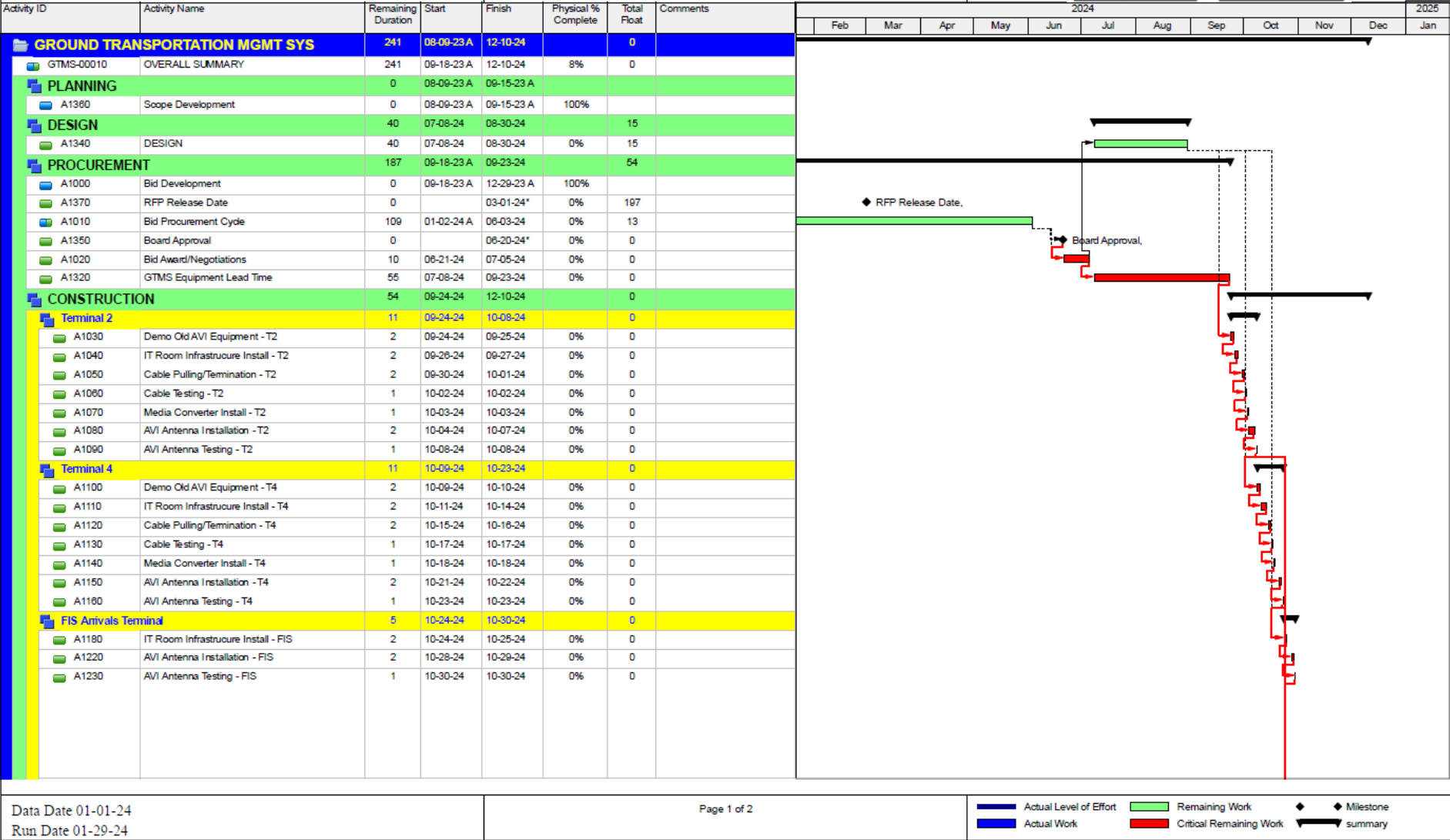
Master Schedule Components



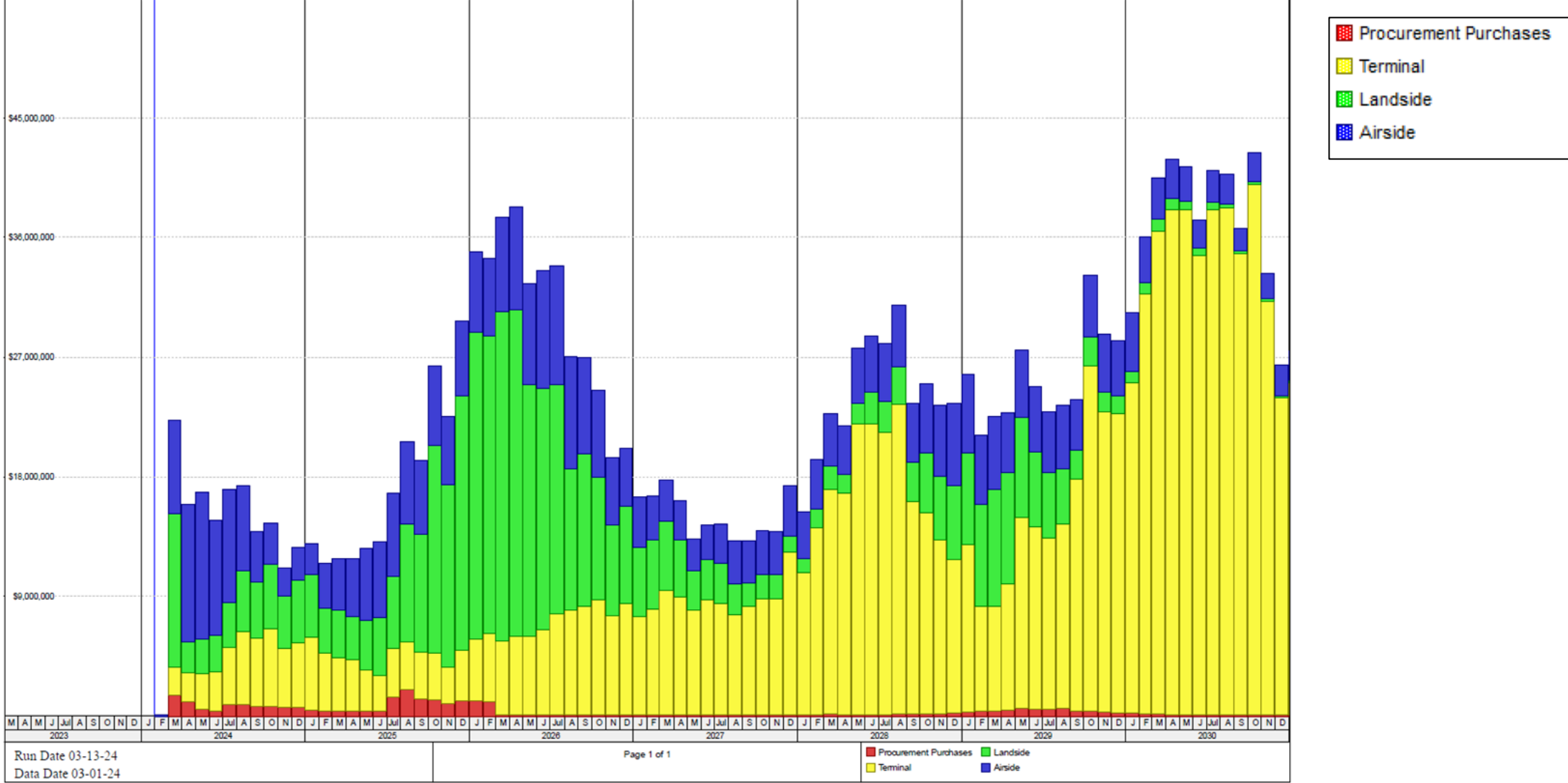
Project Schedules

- Tool for schedule management and control.
- It reports progress of all engineering, procurement, and construction activities as well as milestones.
- The primary management/tracking tool for the Project Manager and Construction Manager.

Project Schedule



COOL Histogram



COOL Dashboard

COOL Dashboard March 2024



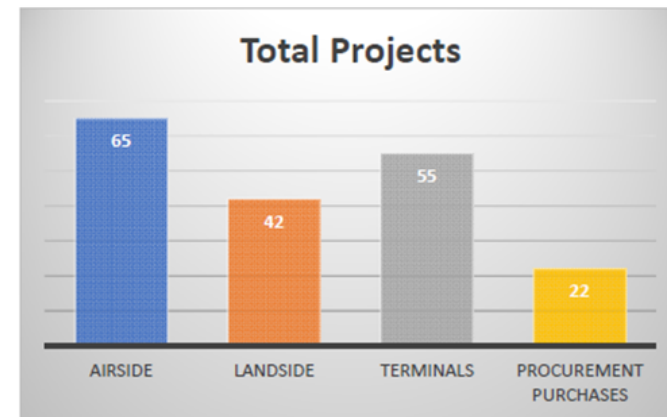
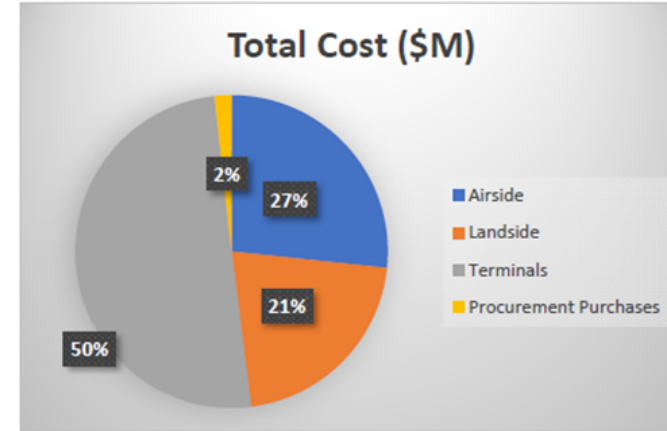
Element	Total Projects	Total Cost (\$M)
Airside	65	\$677
Landside	42	\$540
Terminals	55	\$1,275
Procurement Purchases	22	\$44
Totals	184	\$2,536

Total Projects Matrix (By Year)

Element	2024	2025	2026	2027	2028
Airside	19	21	18	19	17
Landside	26	23	14	10	9
Terminals	43	27	11	9	6
Procurement Purchases	17	7	4	4	5
Totals	105	78	47	42	37

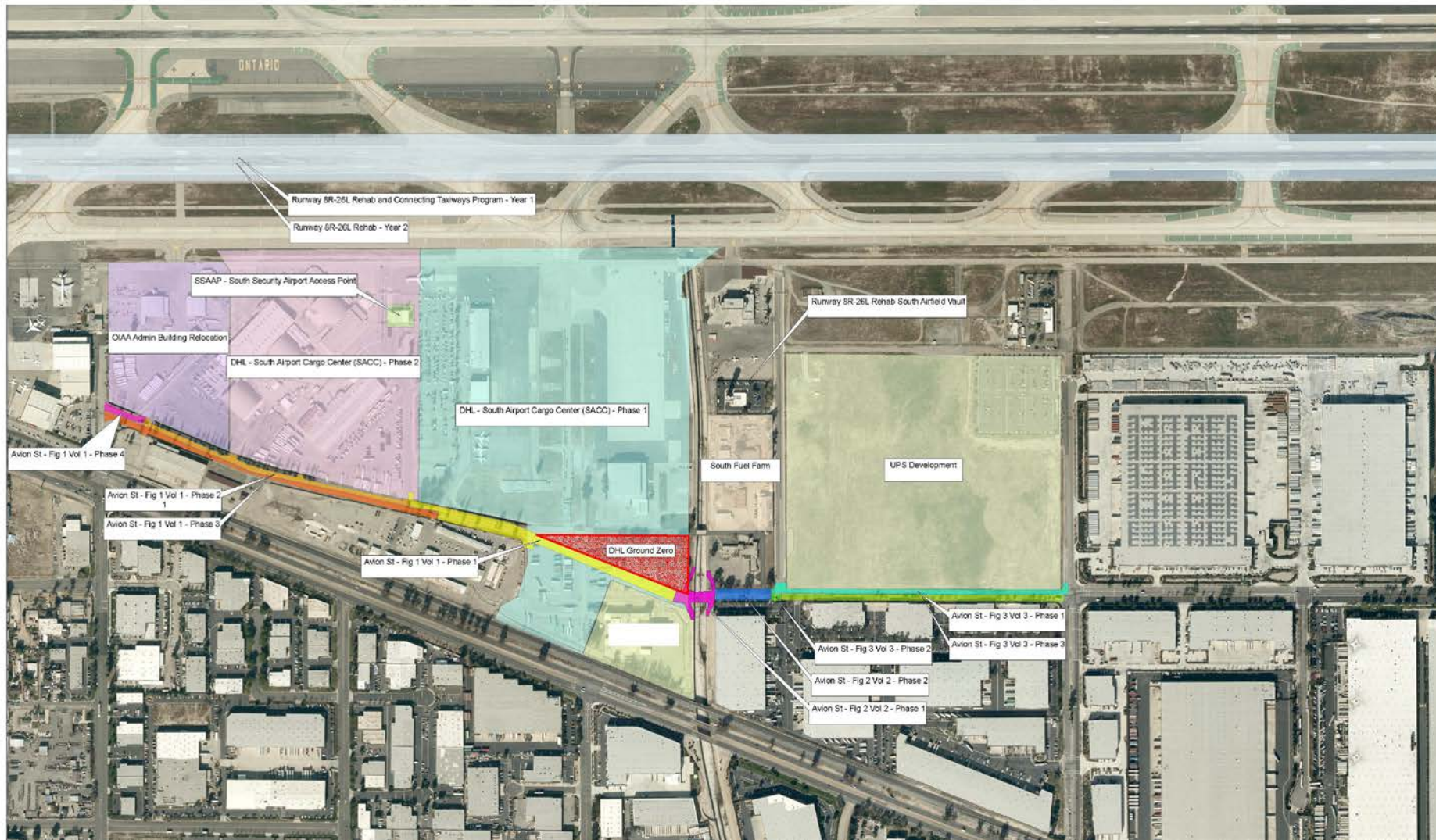
Total Cost (\$M) Matrix (By Year)

Element	2024	2025	2026	2027	2028
Airside	\$63,039,192	\$59,027,584	\$83,338,797	\$37,444,735	\$52,728,583
Landside	\$44,725,141	\$94,609,521	\$194,268,161	\$37,983,032	\$32,834,479
Terminals	\$40,077,177	\$44,227,598	\$81,804,833	\$103,385,416	\$201,874,179
Procurement Purchases	\$8,513,066	\$11,076,883	\$3,775,135	\$1,995,230	\$2,516,107
Totals	\$156,354,576	\$208,941,586	\$363,186,926	\$180,808,413	\$289,953,348

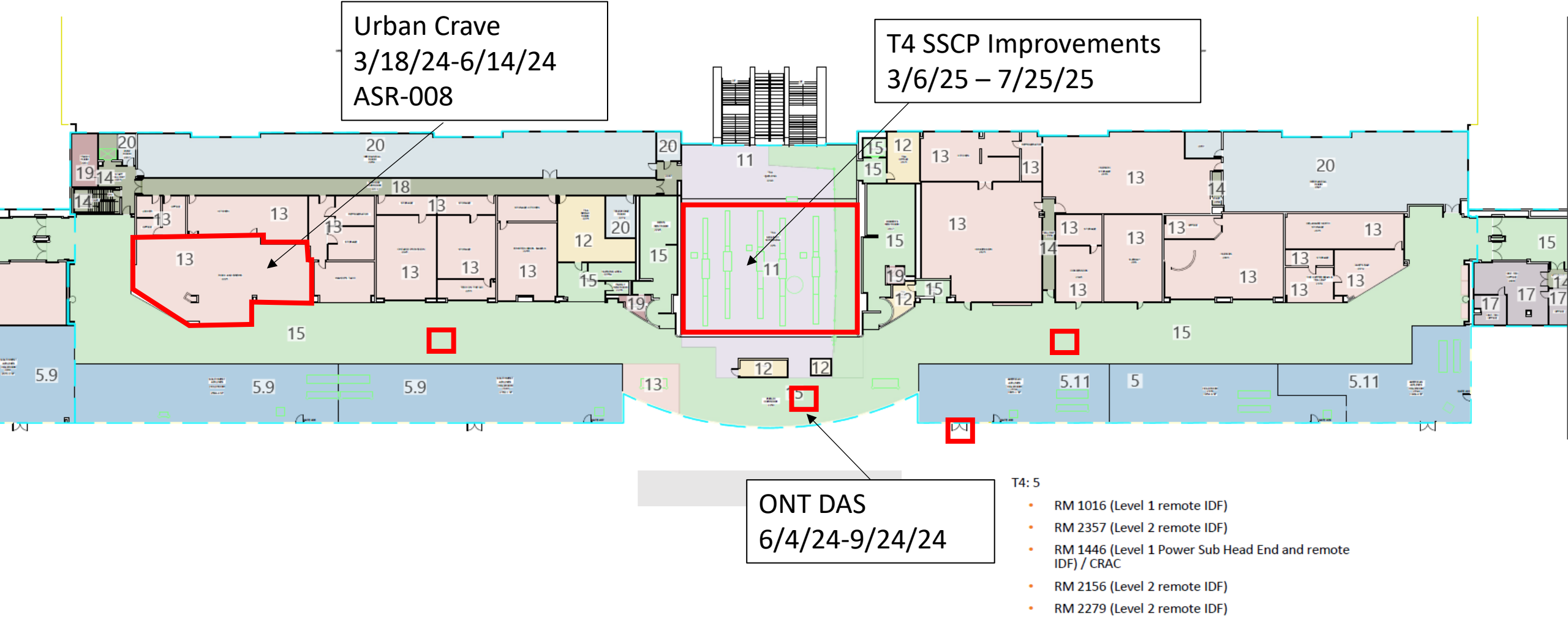


- Geographic Information System
- ESRI ArcPro Geodatabase (Spatial Database)
 - Identify Locations for All Projects in Master Schedule
- Project Locations and Construction Phases (Sub-phases)
- Provides Mapping for Logistical Coordination
 - Haul Routes, Laydown Areas, Contractor Parking, Batch Plants, Stockpiles, Trailer Locations

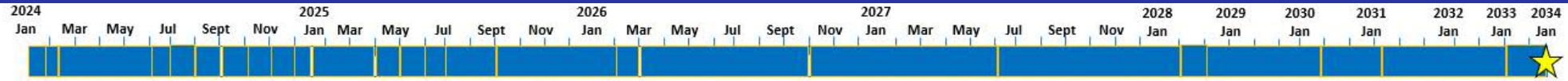
GIS Landside Example



GIS Terminals Example



GIS Animations



Ontario International Airport Authority

ONT Development Program
Timeline

Date of Information: January 2024



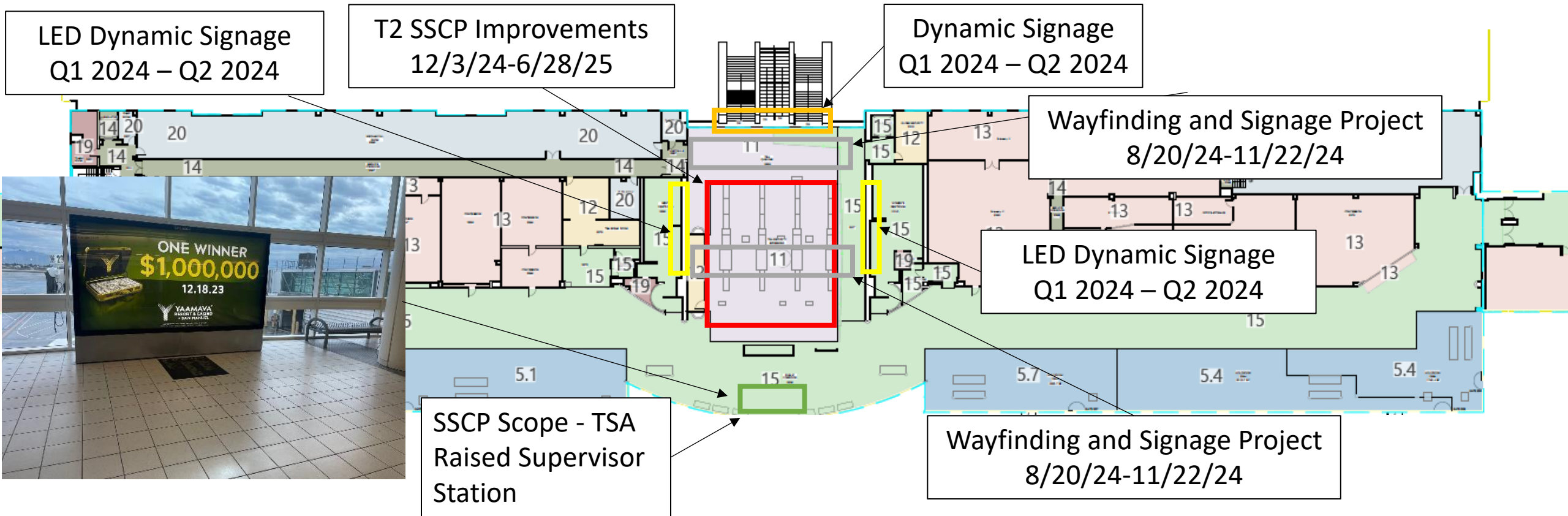
Confidential Draft for
Deliberative Purposes Only

Logistical Coordination

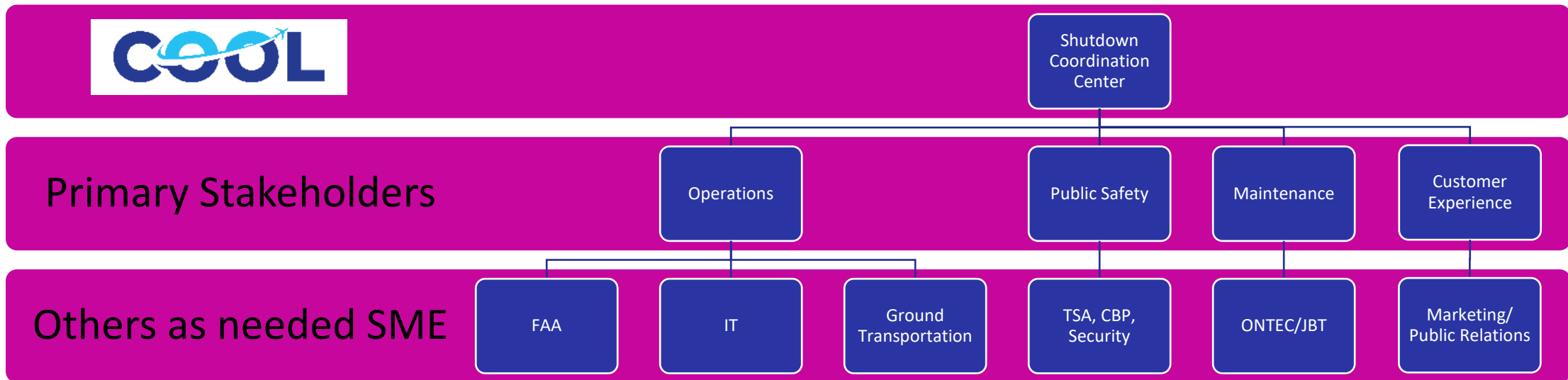
- Weekly Program-Level Coordination Meetings
 - Coordinate with Project Managers, Project Sponsors and Representatives, Operations, Tenants, and Airport Stakeholders
- Review COOL submittals for Space and Time Review
- Conduct Nightly “Huddles” to review scheduled construction activity and produce report
- Coordinate construction activities around operational impacts (e.g. late flights)
- Mitigate unscheduled events and deliveries

Case Study: Ontario Example

- Identify space and time conflict in terminals – coordination between SSCP, Wayfinding Project and Dynamic Signage



Shutdown Coordination Center



Shutdown Coordination Center

- Types of Shutdown:
 1. **Area Shutdown Request (ASR)** is needed if project activity produces a shutdown of any physical area located on ONT property that will cause an operational impact.
 - For example - traffic lanes, restriction to public access, elevator/escalator, restroom, etc.
 2. **Utility Shutdown Request (USR)** is needed if project activity will affect utilities or require utility shutdowns
- Tracked in SCC Database
- Notification sent to all Primary stakeholders and others (as needed) through listserve

Shutdown Coordination Center Forms



APPLICATION

AREA SHUTDOWN REQUEST

In Case of Emergency call (909) 937-1911

Contract No. [] Contractor ASR Tracking # [] OIAA ASR Tracking # []

Construction Project: [] OIAA Project Manager: []

24 hr Contact info: ONT, SAFETY BASE (ARFF) 909-544-5400

1. Email one (1) form for each area being requested for shutdown. You must fill out a separate forms for each shutdown request.
2. Shutdown information times shall be in half-hour increments.
3. Email completed form to the dcinery@kdgcc.com (Shutdown Coordination Center) and your Project Manager
4. Requests must be received **30 DAYS** prior to the area shutdown time - **NO EXCEPTIONS.**
5. Area will be shutdown and restored by CONTRACTOR'S personnel ONLY.
6. The shutdown will not occur unless the Contractor is present at the shutdown location and work area.
7. Please complete the form in its entirety.

INCOMPLETE FORMS WILL NOT BE PROCESSED AND TIMES MAY CHANGE DUE TO AIRPORT OPERATIONAL PRIORITIES
All emails received on SATURDAY, SUNDAY, or after 1:00pm (13:00) will be marked as "RECEIVED" on the following business day.

SHUTDOWN TIMES MAY CHANGE WITHOUT NOTICE DUE TO AIRPORT OPERATIONAL PRIORITIES

(Select all affected areas per task)

- | | | | | |
|---------------------------------------|------------------------------------|--|------------------------------|-------------------------------------|
| <input type="checkbox"/> Traffic Flow | <input type="checkbox"/> Elevator | <input type="checkbox"/> Parking lot | <input type="checkbox"/> AOA | <input type="checkbox"/> Crane Pick |
| <input type="checkbox"/> Sidewalk | <input type="checkbox"/> Escalator | <input type="checkbox"/> Customer Flow | <input type="checkbox"/> CUP | <input type="checkbox"/> Other [] |

Specific Location: [] Work Area Adjacent to: []

Affected Building/Systems: []

Purpose: []

Airfield: [] Terminal: [] Floor/Level: [] Landside: []
(Roadways and Parking Lots)

CONTACT INFORMATION:
Contractor: [] Contact Name: []

Phone: [] Fax: [] Email: []

SHUTDOWN INFORMATION: Date: [] Time: []

RESTORE INFORMATION: Date: [] Time: []

Comments: []

Contractor Requestor's Name: []

Phone: [] Email: [] Submitted: []

DO NOT WRITE BELOW THIS LINE, FOR SHUTDOWN COORDINATION CENTER USE ONLY

Date Received: [] Time: []

APPROVED: NOT APPROVED:

Comments: []

[] OIAA Construction Inspector Date []



APPLICATION

UTILITY SHUTDOWN REQUEST

In Case of Emergency call 911

Contract No. [] Contractor USR Tracking # [] OIAA USR Tracking # []

Construction Project: [] OIAA Project Manager: []

24 hr Contact info: ONT, SAFETY BASE (ARFF) 909-544-5400

1. Email one (1) form for each utility being requested for shutdown. You must fill out a separate forms for each shutdown request.
2. Shutdown information times shall be in half-hour increments.
3. Email completed form to the dcinery@kdgcc.com (Shutdown Coordination Center) and your Project Manager.
4. Requests must be received **30 DAYS** prior to the utility shutdown time - **NO EXCEPTIONS.**
5. Utilities will be shutdown and restored by Airport personnel ONLY.
6. The shutdown will not occur unless the Contractor is present at the shutdown location and work area.
7. Please complete the form in its entirety. INCOMPLETE FORMS WILL NOT BE PROCESSED.

INCOMPLETE FORMS WILL NOT BE PROCESSED AND TIMES MAY CHANGE DUE TO AIRPORT OPERATIONAL PRIORITIES
All emails received on SATURDAY, SUNDAY, or after 1:00pm (13:00) will be marked as "RECEIVED" on the following business day.

SHUTDOWN TIMES MAY CHANGE WITHOUT NOTICE DUE TO AIRPORT OPERATIONAL PRIORITIES

(Select ONE utility per form)

- | | | | | |
|--------------------------------|-------------------------------------|---|-------------------------------------|---|
| <input type="checkbox"/> Water | <input type="checkbox"/> Electrical | <input type="checkbox"/> Gas | <input type="checkbox"/> Fire Alarm | <input type="checkbox"/> Security / ACAMS |
| <input type="checkbox"/> Sewer | <input type="checkbox"/> Sprinkler | <input type="checkbox"/> Communications | <input type="checkbox"/> HVAC | <input type="checkbox"/> Other [] |

Specific Location: [] Work Area Adjacent to: []

Affected Building/Systems: []

Purpose: []

Airfield: [] Terminal: [] Floor/Level: [] Landside: []
(Roadways and Parking Structures)

CONTACT INFORMATION:
Contractor: [] Contact Name: []

Phone: [] Fax: [] Email: []

SHUTDOWN INFORMATION: Date: [] Time: []

RESTORE INFORMATION: Date: [] Time: []

Comments: []

Contractor Requestor's Name: []

Phone: [] Email: [] Submitted: []

DO NOT WRITE BELOW THIS LINE, FOR UTILITY SHUTDOWN CONTROL CENTER USE ONLY

Date Received: [] Time: []

APPROVED: NOT APPROVED:

Comments: []

[] OIAA Maintenance Manager Date [] [] OIAA Construction Inspector Date []

Shutdown Coordination Center Notification

Shutdown Coordination Center: ASR-006 (Ontario DAS - Terminal 2)

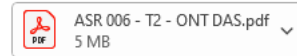


Don Chinery

To [Diaz, Mindy](#); [Miwa, Chuck](#); [Mena, Eric](#); [David Velasquez](#); [Kholosy, Fady](#); [Anderson, Dennis](#); [Brown, Dean](#); [Sampson, Cedric](#); [Martorana, Ricardo](#); [Acosta, Genesis](#); **+21 others**
Cc [Scott Feldmann](#); [Laura DV Smets](#); [Garza, Nathan](#); [jtahan@flyontario.com](#)

Reply Reply All Forward

Thu 2/22/2024 1:35 PM



The following **Shutdown Coordination Center Request** has been **APPROVED**:

ONT ASR/USR No:	ASR-006
Construction Project:	Ontario DAS Terminal 2
ONT PM:	Nathan Garza
Project Sponsor:	Chuck Miwa
Field Contact Number:	951-756-0579
Field Name:	Brian Garcia (Aztecs Telecom Inc.)
Airline Impact:	No
Area Shutdown Type:	Terminals – Traffic/Customer Flow and AOA
Location:	Terminal 2 – Concourse and Airside Levels 1 and 2
Scheduled Shutdown:	Monday, 2/26/24 24/7 closure
Scheduled Restart:	Tuesday, 12/31/24 24/7 closure

The ASR has been approved with no constraints. The contractor is responsible that all work is performed with no impacts to tenants, operations or building occupants.

Please review the attachments for more details on the shutdown including the site logistics plan. Please direct all questions to the Project Manager.

Thanks,
Don

Communications

- Internal Communication for Airport stakeholders
- Notifications of Impactful closures
- Quarterly Construction Briefings – BOAC, Steering Committee, Division Staff Meetings
- Reports and Presentations

Communications

Shutdown Coordination Center

April 2024

NEW						
ASR/USR Number	Project Name and Activity	Shutdown Location	Project Manager	Shutdown Start	Shutdown End	Contractor Information
ASR-009	Verizon DAS MMP for Back Haul Fiber	Terminal 4 and Parking Lot 4	Nathan Garza	4/15/24	5/1/24	Aztecs Telecom, Inc. Bryan Garcia 951-756-0579

ONGOING						
ASR/USR Number	Project Name and Activity	Shutdown Location	Project Manager	Shutdown Start	Shutdown End	Contractor Information
ASR-006	ONT DAS (DAS equipment installation)	Terminal 2	Nathan Garza	2/26/24	12/31/24	Aztecs Telecom, Inc. Bryan Garcia 951-756-0579
ASR-007	Tap & Pour (Concessions Renovation)	Terminal 2	Tayvin Saks	3/18/24 6am	6/14/24 11pm	Premier Cameron Phillips 805-551-4749
ASR-008	Urban Crave (Concessions Renovation)	Terminal 4	Tayvin Saks	3/18/24 6am	6/14/24 11pm	Premier Cameron Phillips 805-551-4749

Communications

Airport Drive Rehabilitation

Status: Design

Designer: Mead & Hunt

Contractor: TBD

Schedule: 2023-2024; Project Cost: \$8M

Project Overview

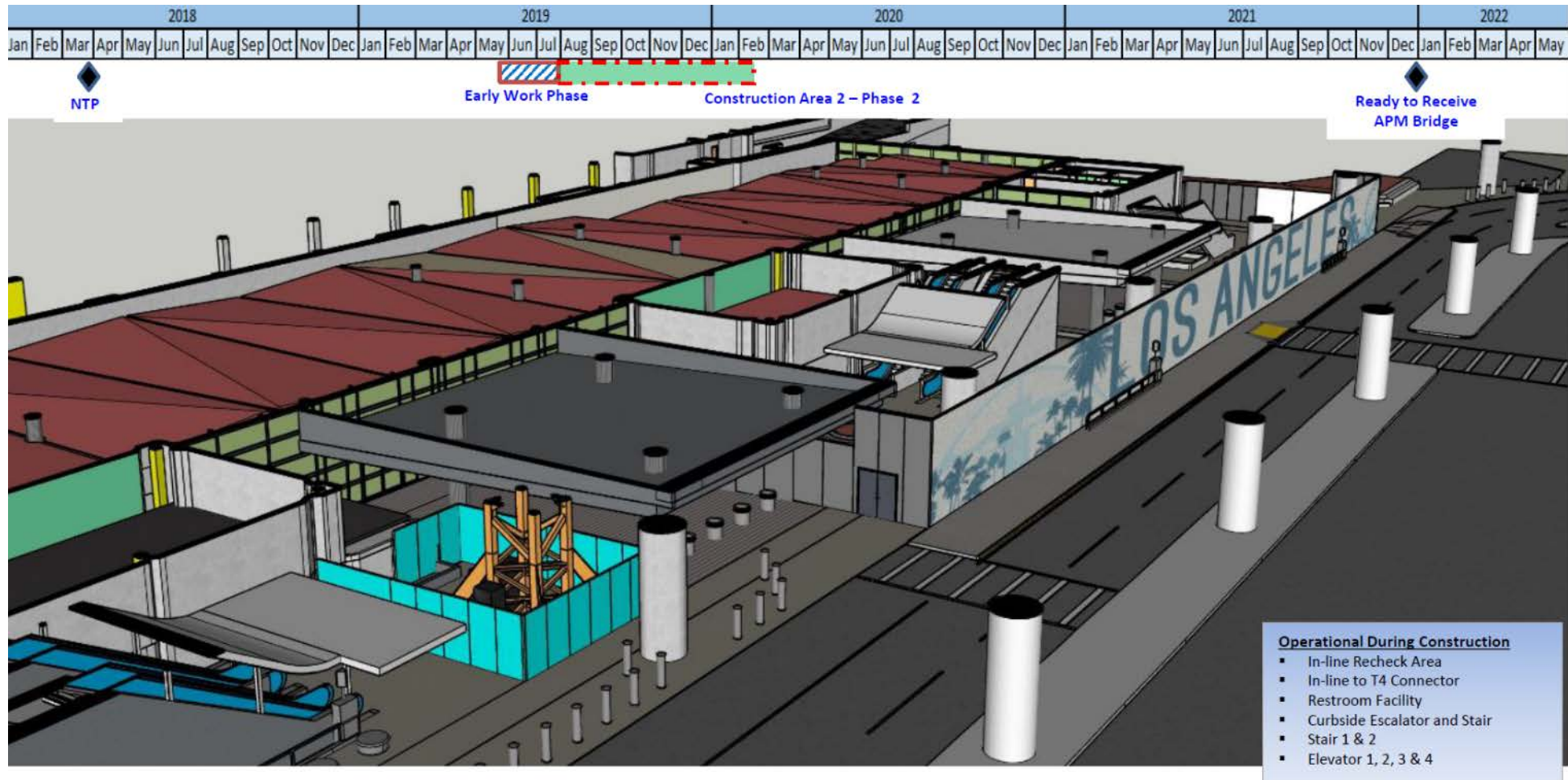
- Rehabilitation of the pavement along Airport Drive from Archibald Avenue to Haven Avenue on both the westbound and eastbound lanes.

Progress

- Design complete.
- Procurement scheduled for Q2 2024.



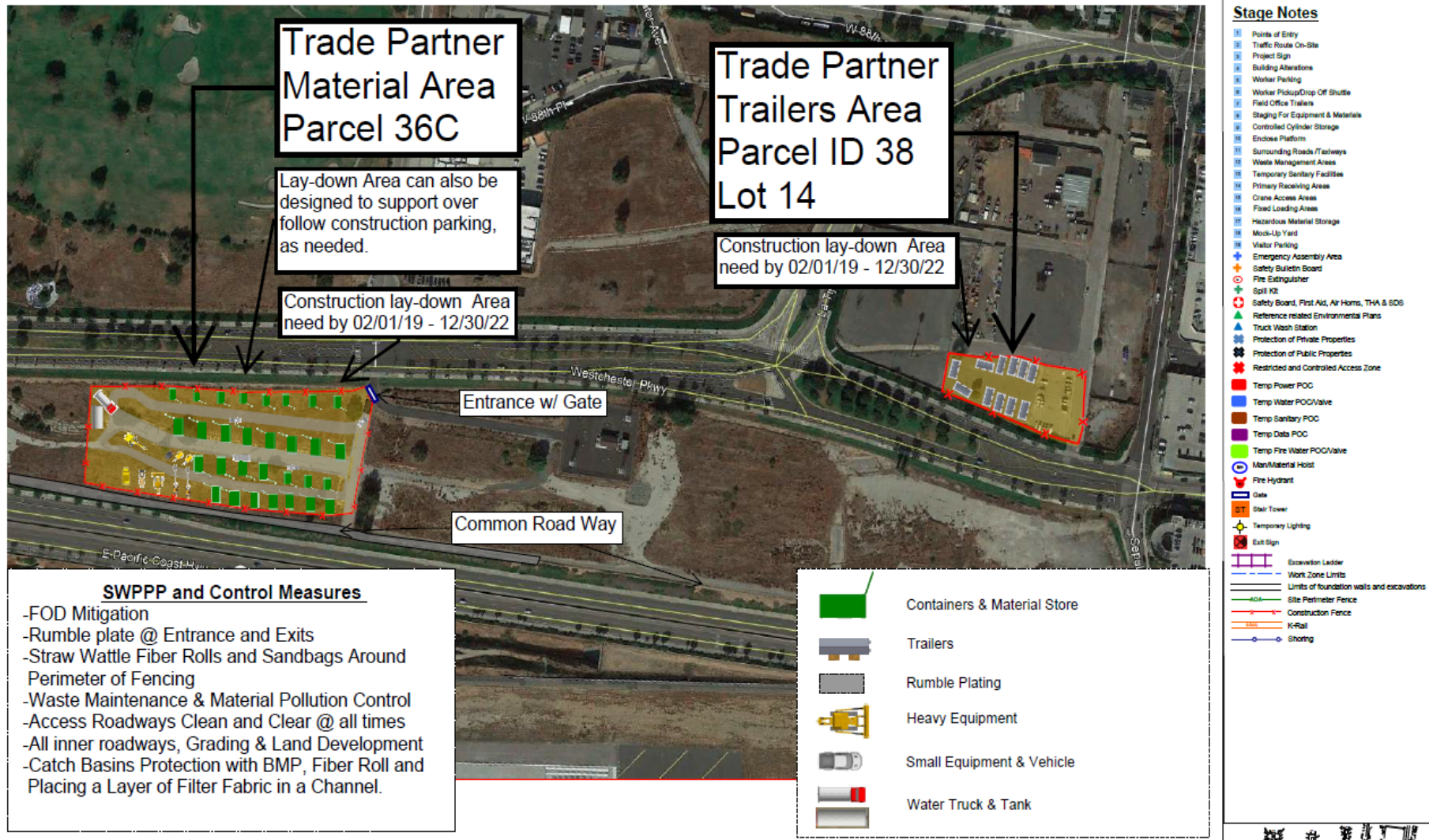
COOL Requirements – Project Phasing Plan



TBIT Core Level 1 – Barricade Plan (Looking Northeast)



COOL Requirements – Project Site Logistics Plan



COOL Standards and Guidelines

- Design and Construction Guidelines and Requirements
- Construction Site Standards – Barricades and Wayfinding
- Ensure the contractor is meeting coordination and communications contract requirements
- Central website where tools are updated and accessed on a regular basis

COOL Adaptability

- Applicable to various airport sizes
 - Large Hubs (LAX)
 - Medium Hubs (Ontario)
 - Small airports (Long Beach)
 - Ohio – Cleveland, Columbus, Cincinnati, Dayton, Akron/Canton
 - Multiple GA airports in a geographic region
- Applies to various volumes of passengers and cargo
- Proven model which can be instituted within months
- All Owner employees have situational awareness and visibility to all development projects

Keys to Success

- Executive Management Endorsement airport-wide
- Integrated Program Team Approach – Planning to Closeout
- Part of Contracts for Standards and Requirement
- Tool Accuracy and Reliability
- Strong Logistical coordination in the planning and design phases will lead to less construction change orders for Airport owners later in the process

Questions?