

#### 4. Airport Runway Incursion Mitigation/Design Standards Analysis Study (Airport)

# Memorandum


**TO:** TRANSPORTATION AND  
ENVIRONMENT COMMITTEE

**FROM:** John Aitken

**SUBJECT:** AIRPORT RUNWAY INCURSION  
MITIGATION/ DESIGN  
STANDARDS ANALYSIS STUDY

**DATE:** November 13, 2017

Approved



Date

11/22/17

## Recommendation

Staff recommends that the Committee accept this status report on the Mineta San Jose International Airport's Runway Incursion Mitigation/Design Standards Analysis Study.

## Background

In June 2016, the Airport Department and its aviation consultant team initiated work on a FAA grant-funded Runway Incursion Mitigation (RIM)/Design Standards Analysis Study. The purpose of the study is to reduce the risk of runway incursions and to conform with current FAA airfield design standards and criteria to ensure a high level of airfield safety. A 17-member aviation stakeholder group representing the FAA, airline, and general aviation interests is providing technical input to the study.

## Analysis

Based on the technical work completed, a set of three proposed airfield configuration "project alternatives" has been identified for further study. The analysis of each alternative is now underway and includes a safety risk assessment, simulation modeling/capacity assessment, and cost estimates. The three alternatives will be presented at the Transportation and Environment Committee meeting on December 4, 2017.

Once the analysis of the project alternatives is completed and reviewed with the stakeholder group in early 2018, a preferred alternative will be presented to the City Council in the form of a proposed amendment to the City's Airport Master Plan. The proposed Airport Master Plan amendment will undergo CEQA analysis and public review prior to City Council review. The proposed amendment will also be submitted to the FAA for approval.

/s/

John Aitken, AAE  
Director of Aviation

For questions, please contact Judy Ross, Acting Assistant Director of Aviation, at 408-392-3620.

SILICON VALLEY'S AIRPORT



# Runway Incursion Mitigation & Design Standards Analysis Study

Transportation and  
Environment Committee

December 4, 2017

# Background

- RIM Study Objectives
  - Enhance Safety
    1. Eliminating or reducing airfield hotspots
    2. Conforming to the airfield dimensional design standards and geometric guidance criteria
- FAA Grant
  - \$1.5 Million



# Technical Working Group

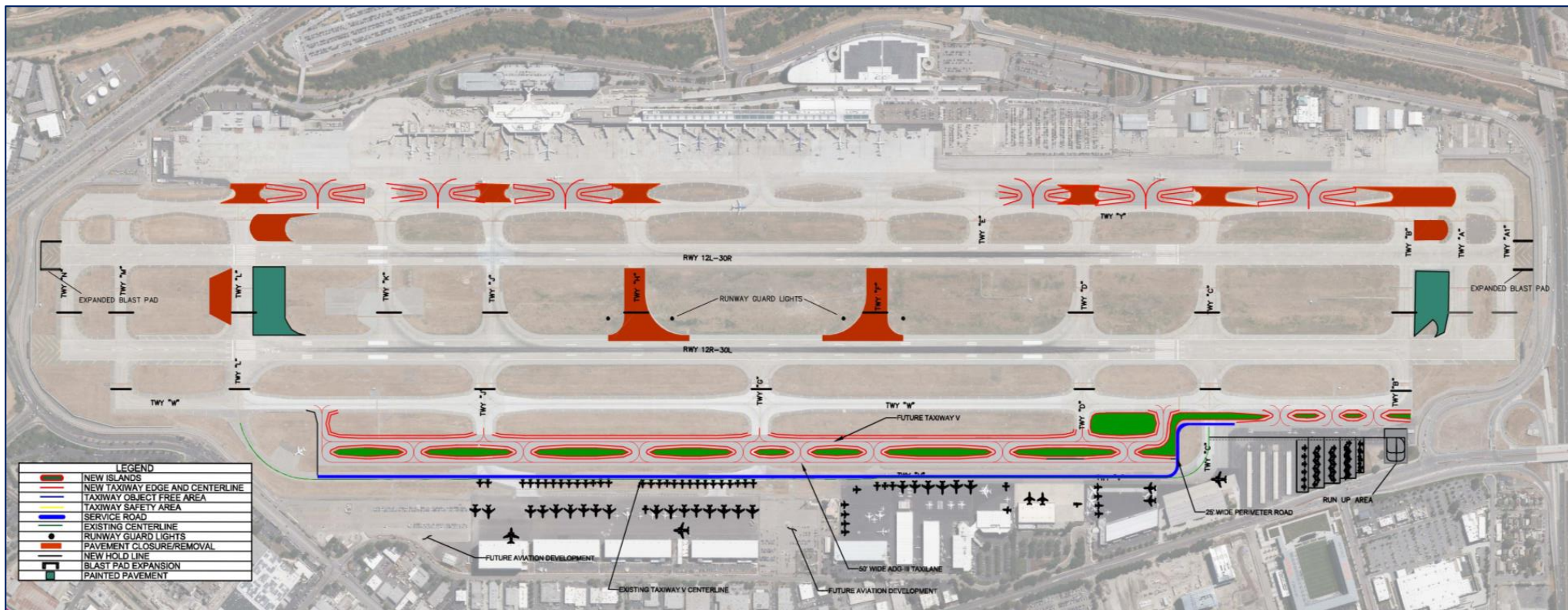
- |  |                             |
|--|-----------------------------|
| • FAA ATCT – Local Manager (1)               | • Domestic Airline (1)      |
| • ATCT – NATCA (Union) Rep (1)               | • International Airline (1) |
| • FAA ADO – Airports District Office (1)     | • Cargo Operators (2)       |
| • FAA Region – RIM Program (1)               | • FBO's (4)                 |
| • FAA Region – Runway Safety Action Team (1) | • NBAA (1)                  |
| • FAA Certification Inspector (1)            | • AOPA (1)                  |
| • Based Aircraft Tenant (1)                  |                             |

# Summary

- Consultant Team
- Work Completed to Date
- Key Issues

# Preliminary Consolidated Alternative 1

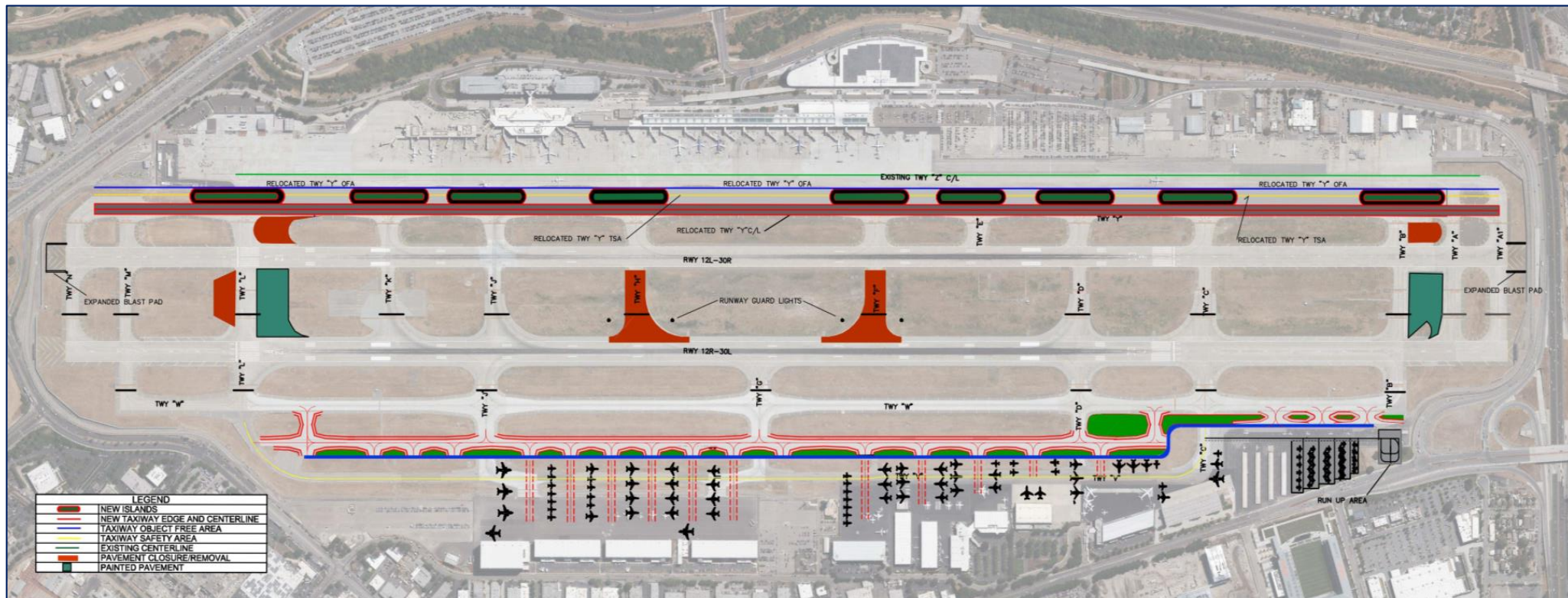
No Change to East Airfield (EA-7) reconfigure West Airfield (WA-2/WA-3)





# Preliminary Consolidated Alternative 2

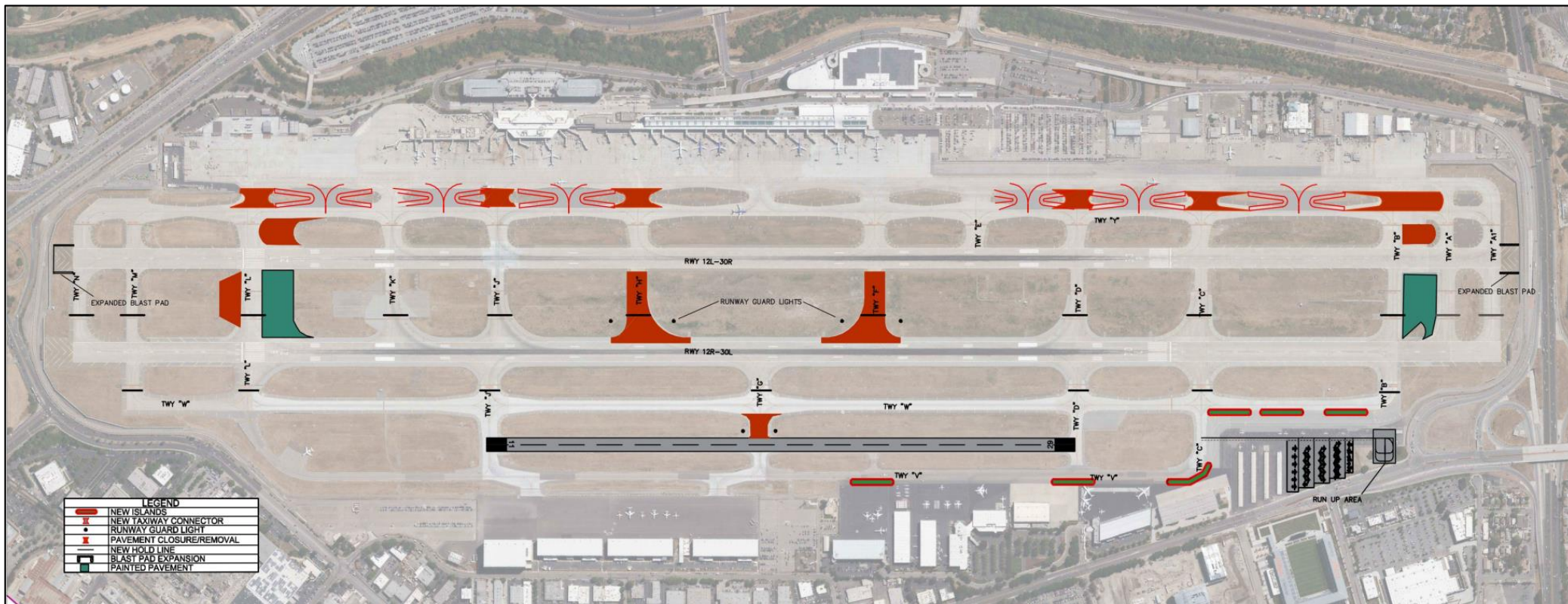
## Reconfigure East Airfield (EA-5) and West Airfield (WA-2/WA-3)





# Preliminary Consolidated Alternative 3

## Retain Current Layout, Re-Open Runway 11/29 (EA-7, WA-5)



## Next Steps

- Conduct analysis of alternatives
- Select preferred alternative
- Update Airport Master Plan (City) and Airport Layout Plan (FAA)



SILICON VALLEY'S AIRPORT



# Questions

Transportation and  
Environment Committee  
December 4, 2017