The seal of the City of Santa Clara, California, is displayed on the left side of the slide. It is a circular emblem with a blue outer ring containing the text "CITY OF SANTA CLARA CALIFORNIA" at the top and "1852" at the bottom. Inside the ring is a green field with a white building, a palm tree, and a blue sky with clouds. Below the building, the words "THE MISSION CITY" are written.

City Council

Item No. 1, RTC 25-1525

Study Session on New Traffic Signal at Great America Parkway and Hichborn Drive

December 16, 2025

1

The City of Santa Clara seal is located in the top right corner of the slide. It features a circular design with the city's name and a building illustration. To the right of the seal, the text "City of Santa Clara" is written in a serif font, with the tagline "The Center of What's Possible" in a smaller font below it.

Agenda

- Background
- Project Traffic Impacts
- Project Traffic Improvement – New Traffic Signal
- Traffic Operation Simulations with New Signal and Freedom Circle Build-Out Condition
- Stadium Event Operations
- Summary

2

POST MEETING MATERIAL

Background

- June 7, 2022 - Council approved the Freedom Circle Focus Area Plan, which identifies a new signal at Great America Parkway (GAP) and Hichborn Drive to support higher-intensity development in the area.
- March 25, 2025 - Council approved the Irvine Company residential apartment community project at 2518 Mission College Boulevard.
 - 1,792 residential units & 3,500 square feet of retail

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Background

- Project transportation operations analysis, while not part of CEQA requirements, determined a signal at GAP/Hichborn Dr. as necessary to address project-related traffic impacts.
 - LOS F, PM Peak, GAP/Mission College Blvd.
 - LOS F, PM Peak, Mission College Blvd./Freedom Circle (West)
- Study Session to review area traffic circulation with new signal.

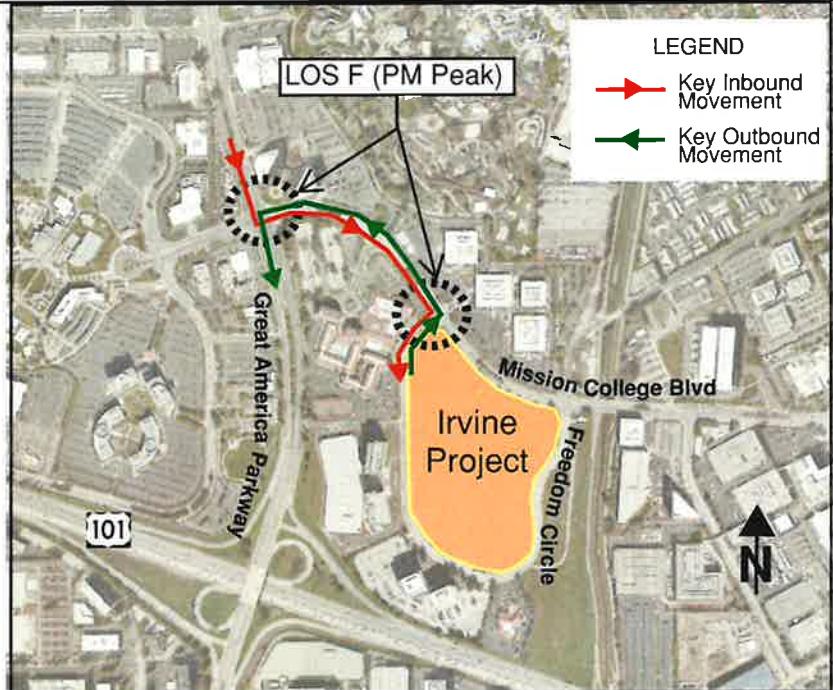
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Project Traffic Impacts



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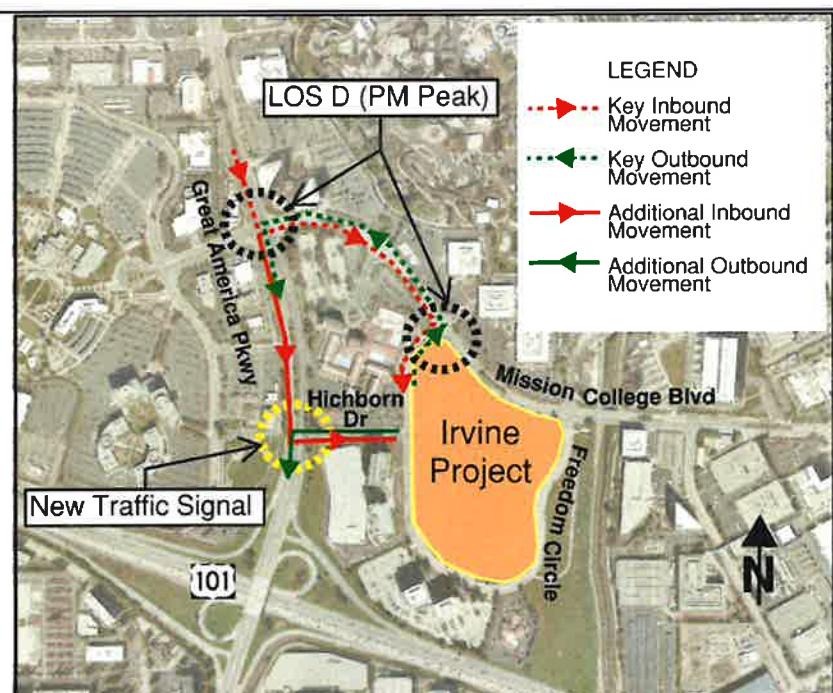
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Project Traffic Improvement

**New Traffic
Signal
at
GAP/Hichborn**



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The Center of What's Possible



6

Conditions with New Traffic Signal

- Great America Parkway at Mission College Boulevard
 - PM Peak from LOS F to D
- Mission College Boulevard at Freedom Circle
 - PM Peak from LOS F to D

7

Traffic Operation Simulations

- New GAP/Hichborn signal
 - AM and PM peak hour scenarios
- Freedom Circle Build-Out traffic volumes at GAP/Hichborn
 - AM and PM peak-hour scenarios

8

AM Peak with New Signal

Area Overview



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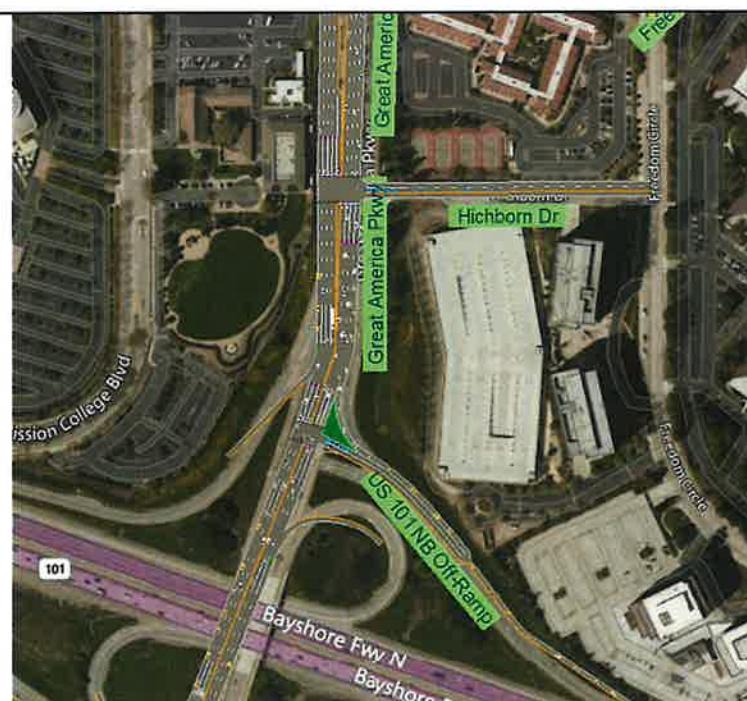
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AM Peak with New Signal

Hichborn Dr. & NB101 off-ramp



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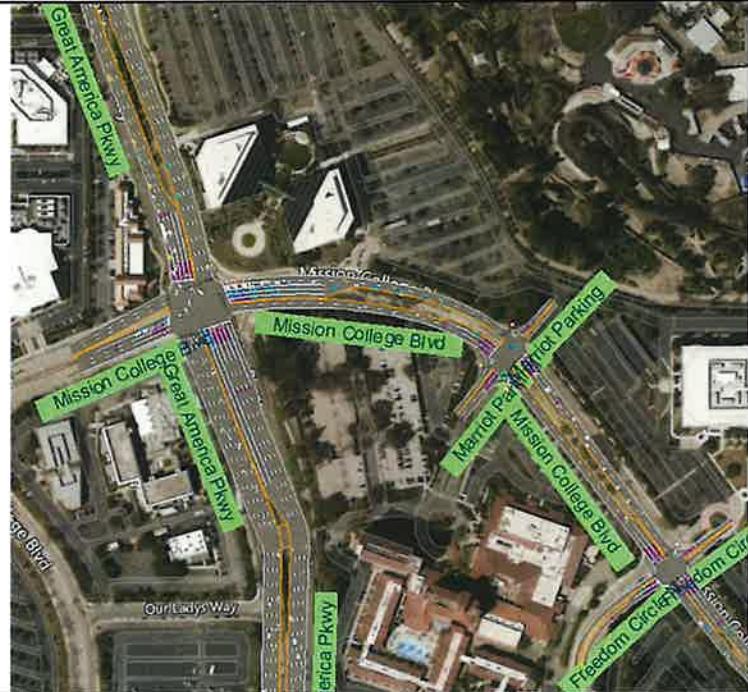


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AM Peak with New Signal

GAP/Mission
College Blvd



11

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PM Peak with New Signal

Area Overview

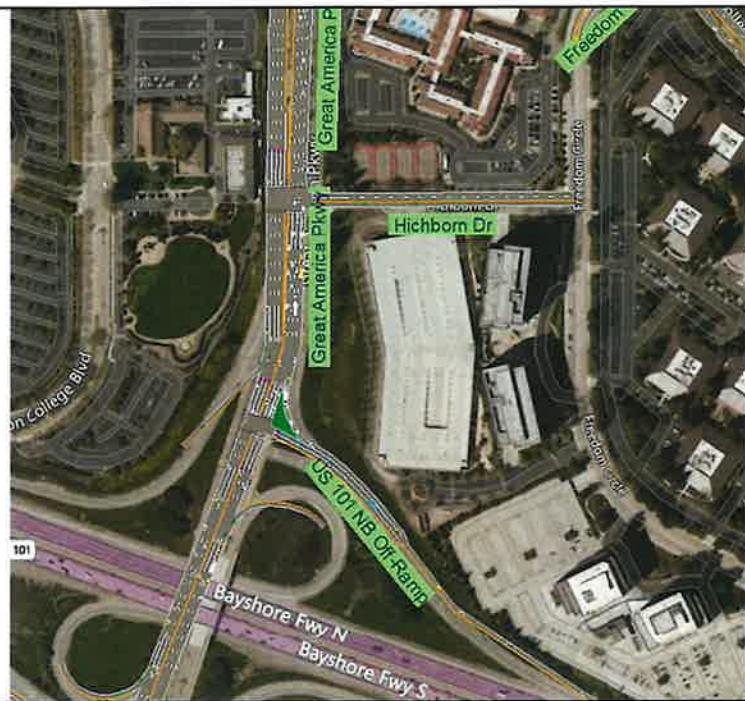


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PM Peak with New Signal

Hichborn Dr. &
NB101 off-ramp



13

PM Peak with New Signal

GAP/Mission
College Blvd

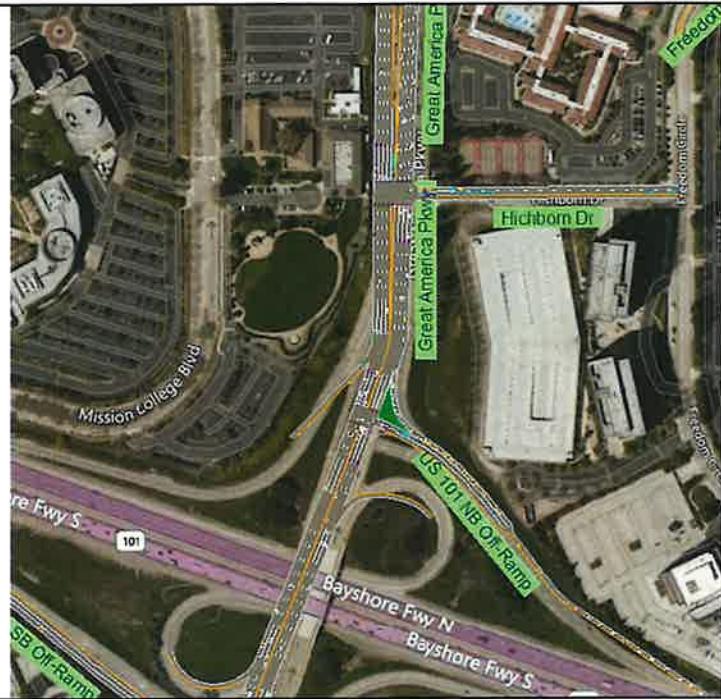


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AM Peak with Build-Out Traffic Volume

Hichborn Dr. &
NB101 off-ramp



15

PM Peak with Build-Out Traffic Volume

Hichborn Dr. &
NB101 off-ramp



16

16

**AM Peak
with
Build-Out**

**Traffic
Queue**

GAP/Hichborn

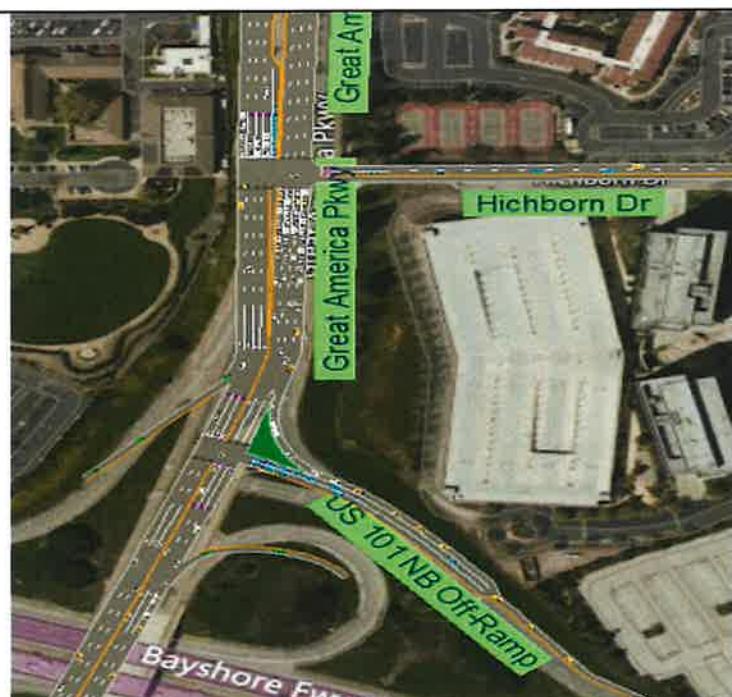


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**PM Peak
with
Build-Out**

**Traffic
Queue**

GAP/Hichborn



18

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Stadium Event Operations

- Prioritize stadium ingress/egress traffic along GAP.
- Electronic message boards advise public to use alternate routes.
- Ingress traffic spread over multiple hours to lessen congestion.
- Egress focuses on moving traffic away from the stadium.
- Minor traffic movements are temporarily closed during egress.
- Hichborn Drive movements at GAP to be closed during events.

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Stadium Event Egress Operations



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Summary

- GAP/Hichborn Dr. traffic signal is an improvement identified in both:
 - Freedom Circle Focus Area Plan
 - Irvine Project Transportation Operations Analysis
- New traffic signal
 - Alternative access route for area traffic
 - Relieves congestion at surrounding intersections
- No adverse traffic impacts are anticipated from the new signal installation.

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Questions/Comments

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