



**CONNECT**  
THE COASTSIDE



# Connect the Coastsides Presentation

## CTMP Technical Advisory Committee Meeting

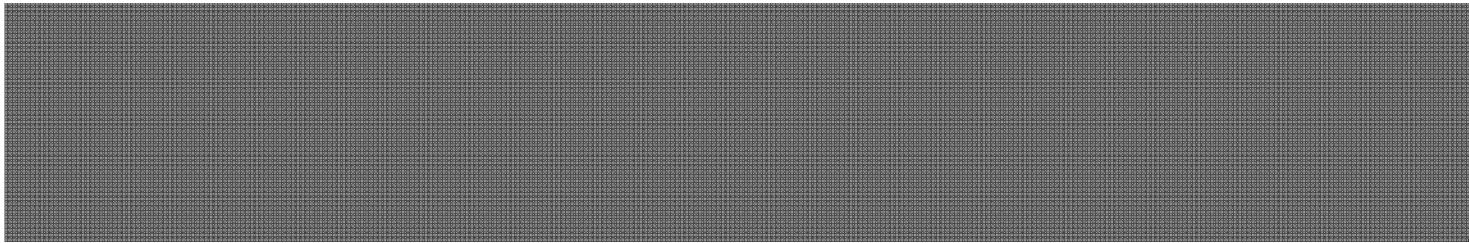


February 17, 2016



# Meeting Agenda

- Review of Project Objectives and Schedule
- Task 3 – Identification and Evaluation of Recommended Transportation and Land Use Alternative to Address Deficiencies
- Public and Stakeholder Outreach on Recommended Transportation Alternative
- Next Steps



# Project Objectives and Schedule

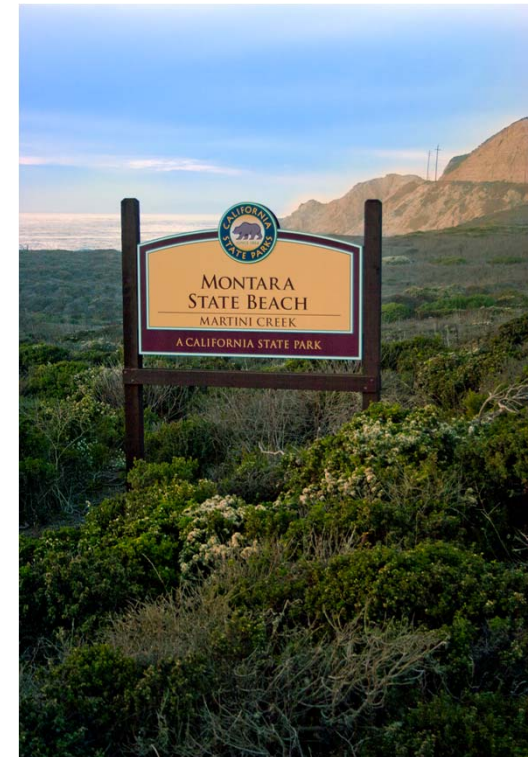






# What is Connect the Coastsides?

➔ The Plan will identify measures to ensure future residential and non-residential development can be supported by the future transportation system and infrastructure.



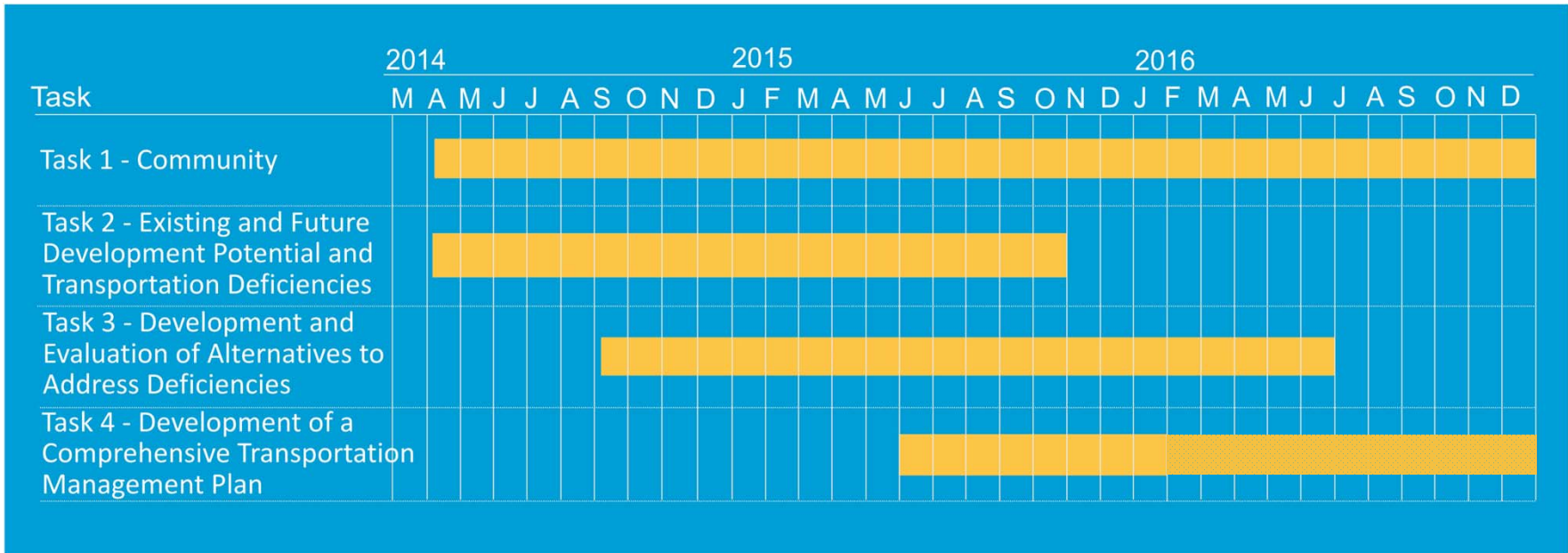


# Project Objectives

- Estimate the buildout development potential of the Midcoast and Half Moon Bay as permitted by the LCP, General Plan, zoning and pertinent regulations
- Identify the potential impacts of growth on traffic, mobility and safety
- Identify and evaluate measures to minimize and mitigate the impacts of growth
- Develop a plan for funding and implementing transportation improvements



# Project Schedule



Workshop #1: Opportunities and Constraints - November 2014

Workshop #2: Alternatives - March 2015

Workshop #3: Land Use Forecast & Alternative Performance Standards - October 2015

Workshop #4: Recommended Transportation and Land Use Alternative – March 2016

Workshop #5: Draft Plan - October 2016







# Recommended Alternative



## Task 3 - Recommended Alternative to Address Transportation Deficiencies





# Recommended Alternative

## ➤ Background

- Buildout and Constrained Development Forecast used to understand potential impacts on transportation system
- Recommended measures to minimize and mitigate the impacts of growth
  - Transportation improvements
  - Land use policies





# Intersection Deficiencies

## ➤ Midcoast Intersection Deficiencies

Unsignalized intersections that have a deficient LOS and meet a signal warrant (sufficient side street volume)

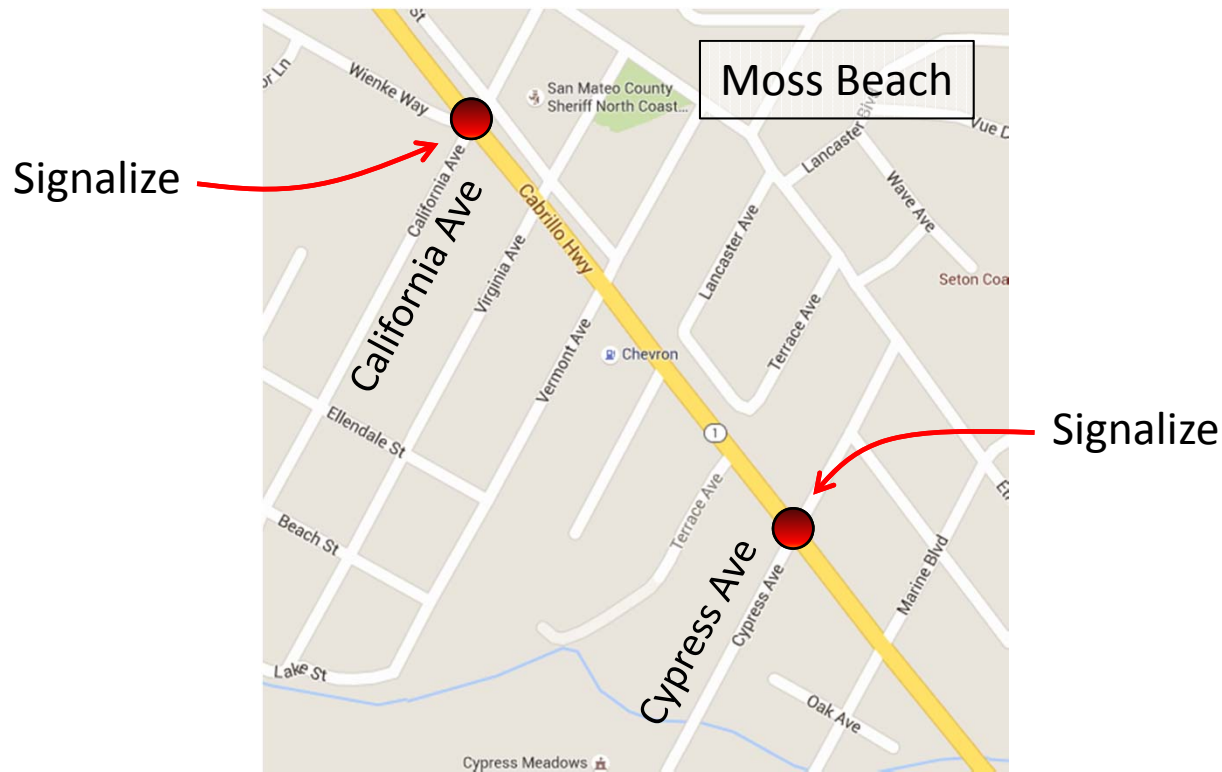
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Signalized LOS worse than LOS D



# Intersection Deficiencies

## ➤ Midcoast Intersection Deficiencies

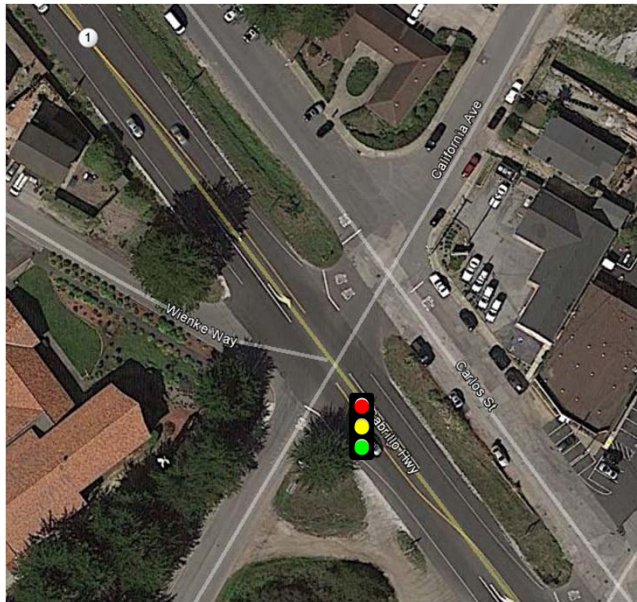




# Intersection Deficiencies

## ➤ Unsignalized Intersections

### ➤ Highway 1 & California Avenue

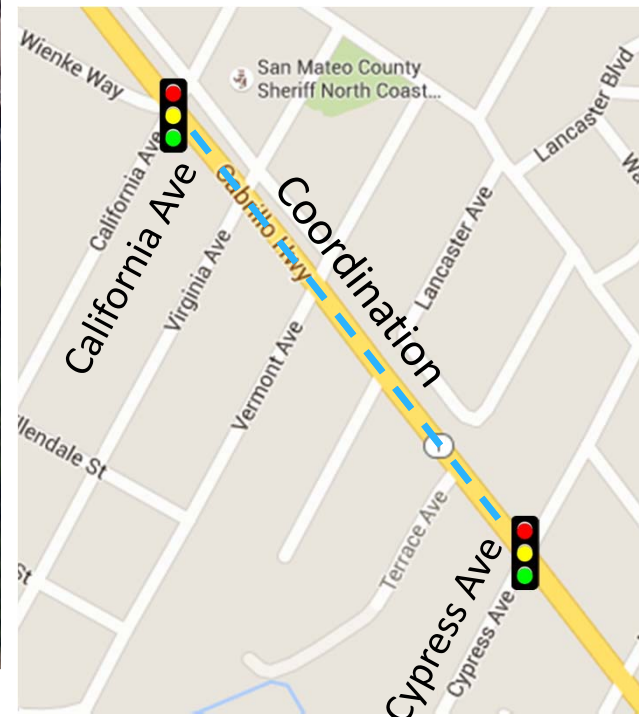






# Intersection Deficiencies

- Unsignalized Intersections
- Highway 1 & Cypress Avenue

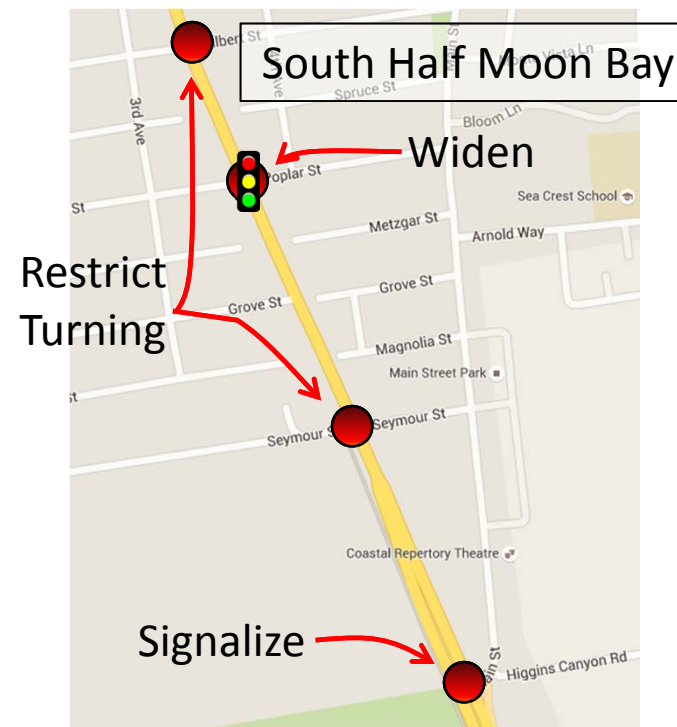
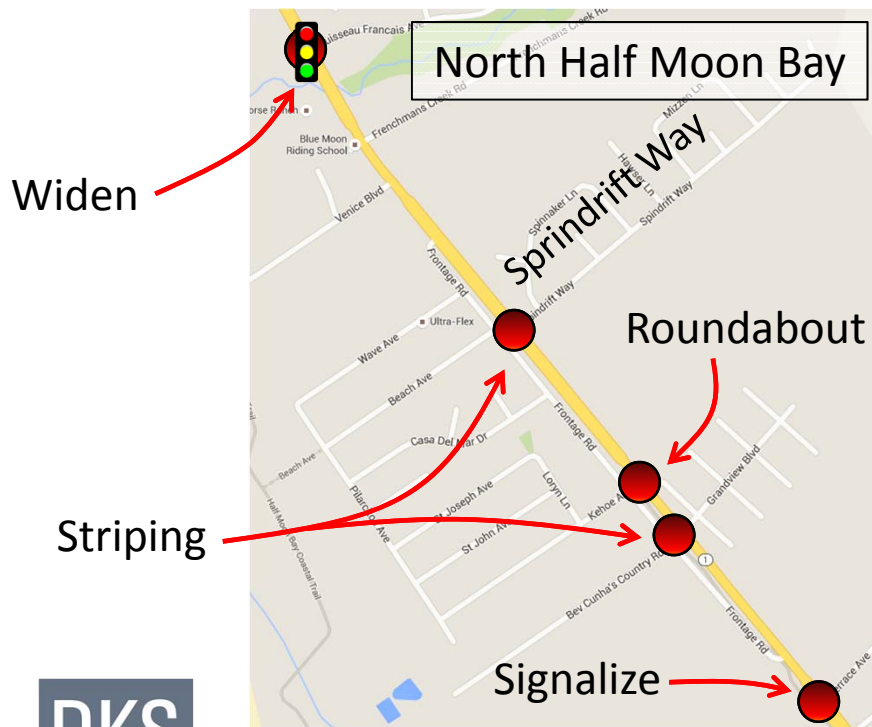


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# Intersection Deficiencies

## ➤ Half Moon Bay Intersection Deficiencies



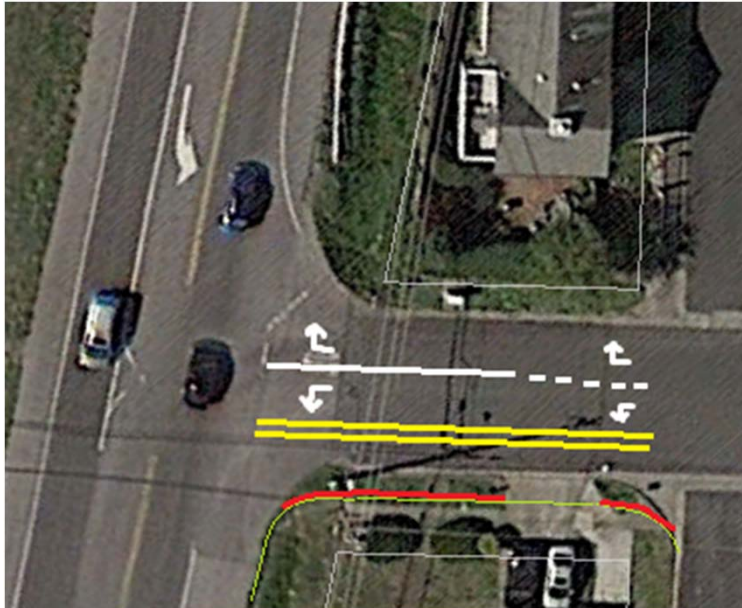


# Intersection Deficiencies

## ➤ Unsignalized Intersections

➤ Highway 1 & Spindrift Way

➤ Highway 1 & Grandview Boulevard



By separating the right- and left-turns, the signal warrant is no longer met.

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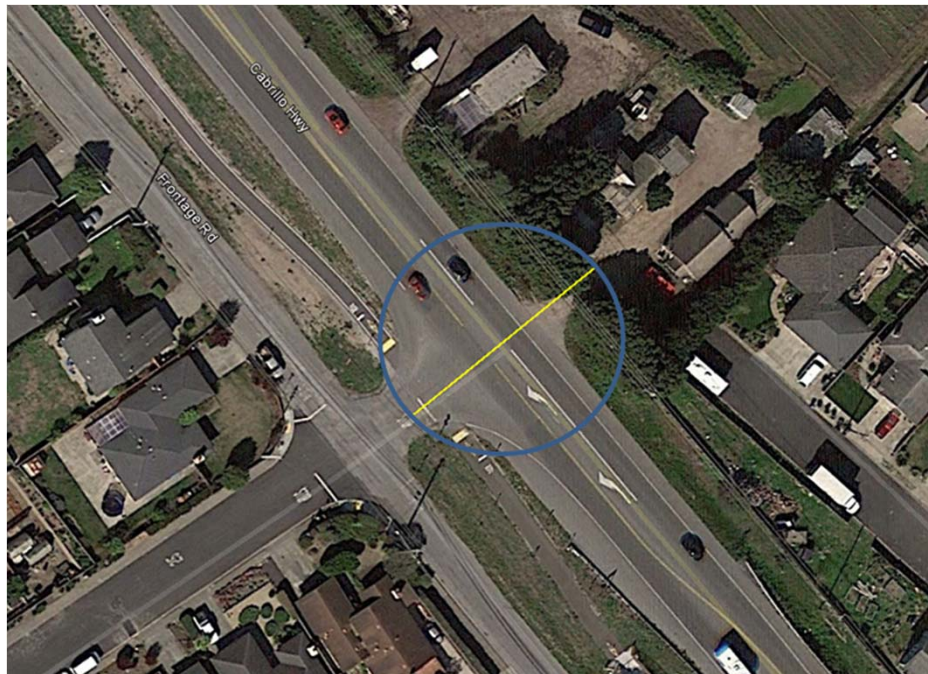




# Intersection Deficiencies

## ➤ Unsignalized Intersections

### ➤ Highway 1 & Kehoe Avenue

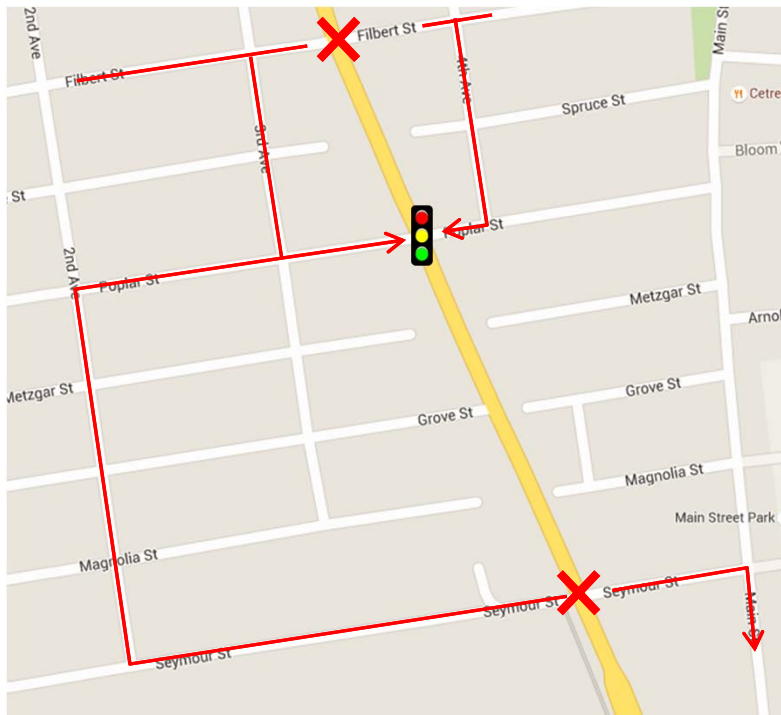




# Intersection Deficiencies

## ➤ Unsignalized Intersections

### ➤ Highway 1 & Filbert Street



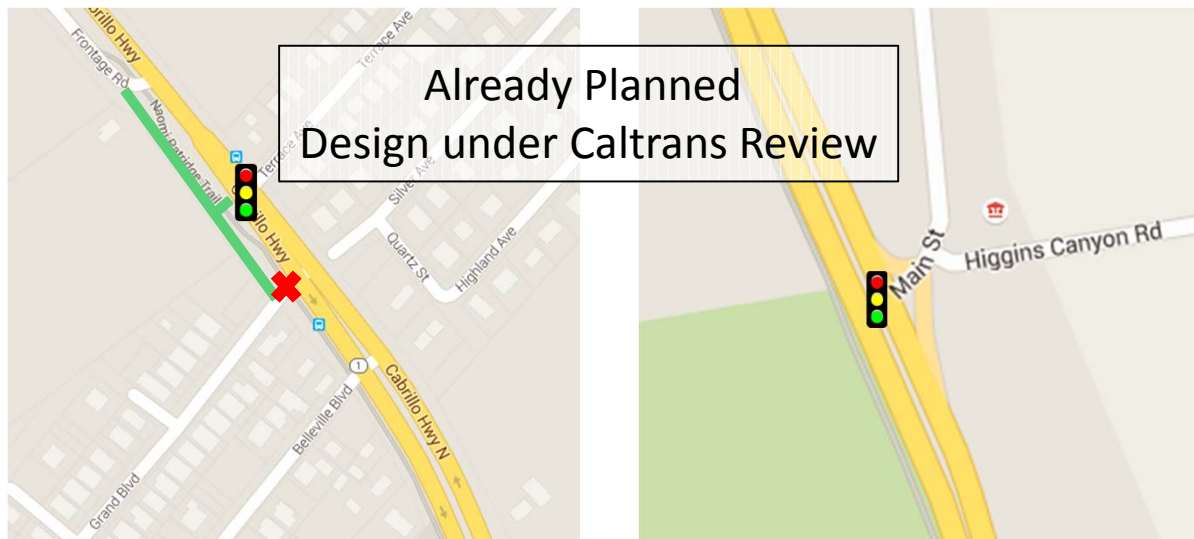
### ➤ Highway 1 & Seymour Street





# Intersection Deficiencies

- Unsignalized Intersections
  - Highway 1 & Terrace Avenue
  - Highway 1 & Main Street South



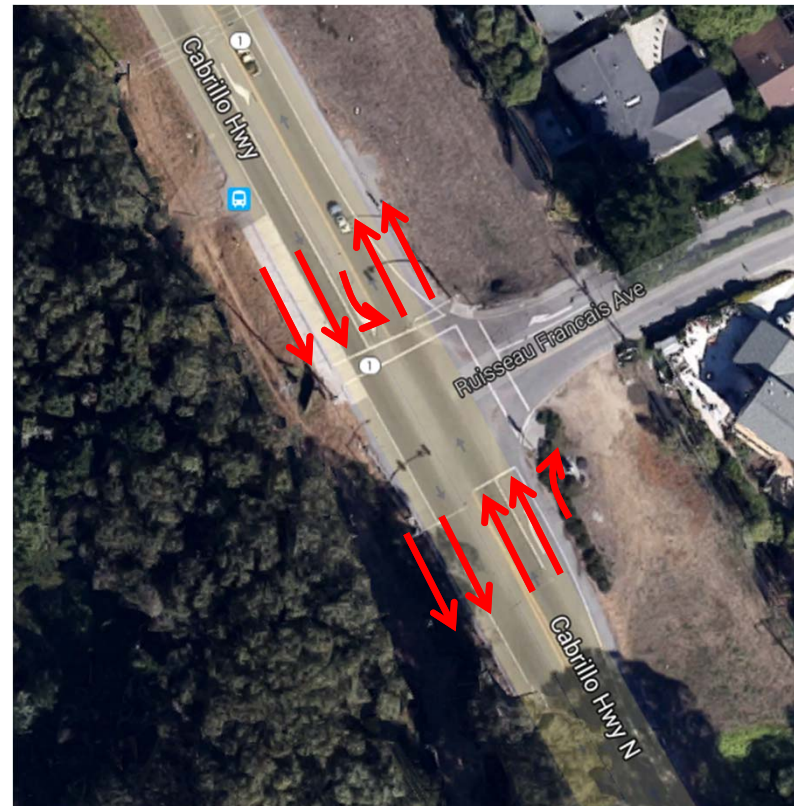




# Intersection Deficiencies

## ➤ Signalized Intersections

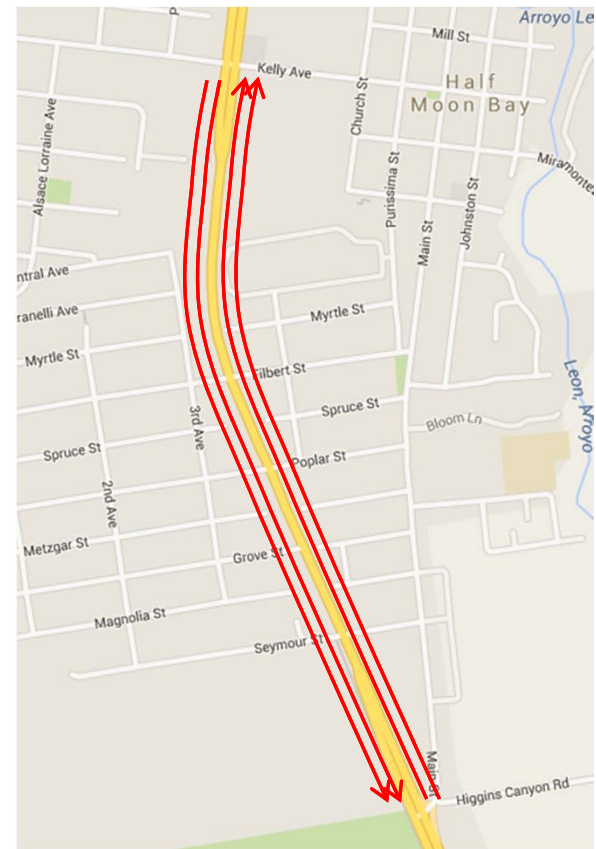
- Highway 1 & Ruisseau Francois Avenue
- 600' four-lane section plus taper





# Intersection Deficiencies

- Signalized Intersections
  - Highway 1 & Poplar Avenue
  - Connect four lane section at Kelly Ave and South Main





# Intersection Deficiencies

## ➤ Roadway Deficiencies

Travel time along a cars-only segment with longer than 2x freeflow travel time.

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Travel time along a multi-modal segment with longer than 3x freeflow travel time





# Roadway Deficiencies

Segment	Weekday AM Peak Delay Index	Weekday PM Peak Delay Index	Weekend Midday Peak Delay Index
1 <sup>st</sup> Street to Mirada Road	<b>2.18</b>	<b>2.32</b>	1.95
Mirada Road to SR 92	<b>9.77</b>	<b>8.19</b>	<b>3.19</b>
SR 92 to Miramontes Point Road	1.02	1.03	1.95
Combined Highway 1 Segment	<b>3.35</b>	<b>3.13</b>	<b>2.19</b>

**BOLD – Does not meet Standard (2.0)**



# Roadway Deficiencies

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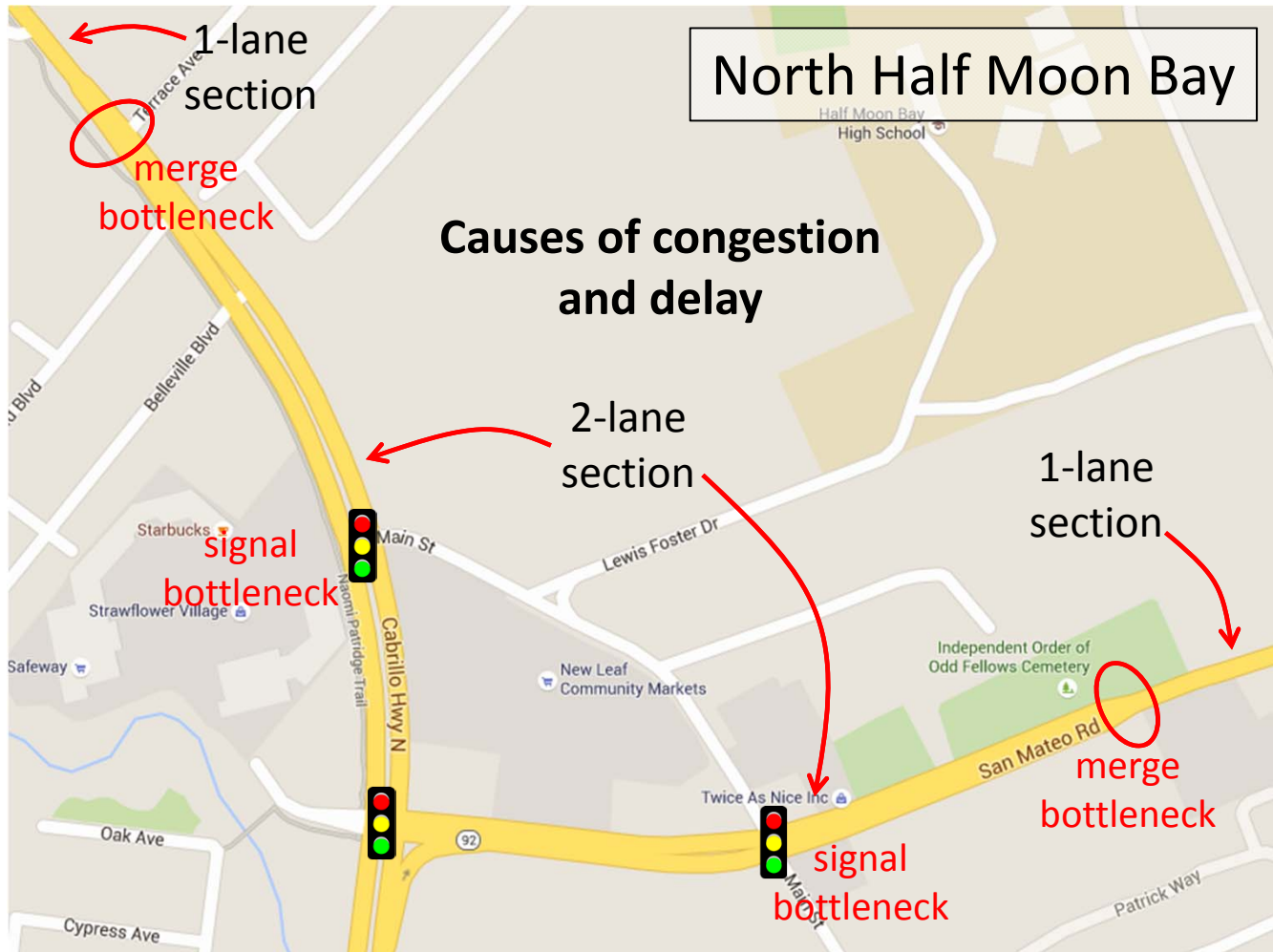
BOLD – Does not meet Standard (2.0)

Conversion of the roadway to a Multi-Modal Facility (Addition of a Class II Bicycle lane) will raise the standard to 3.0





# Roadway Deficiencies







# Roadway Deficiencies





# Roadway and Intersection Deficiencies

- ➔ Proposed Improvements will address all roadway and intersection deficiencies in the Midcoast and Half Moon Bay except for delay through downtown Half Moon Bay which will be partially mitigated by signal coordination.



# Roadway and Intersection Circulation and Safety

## ➤ Intersection Improvements

- Turn bay and acceleration lane at Gray Whale Cove
- Median and northbound turn bay and acceleration lane at 16<sup>th</sup> (Lighthouse)
- Stop signs added at unsigned locations



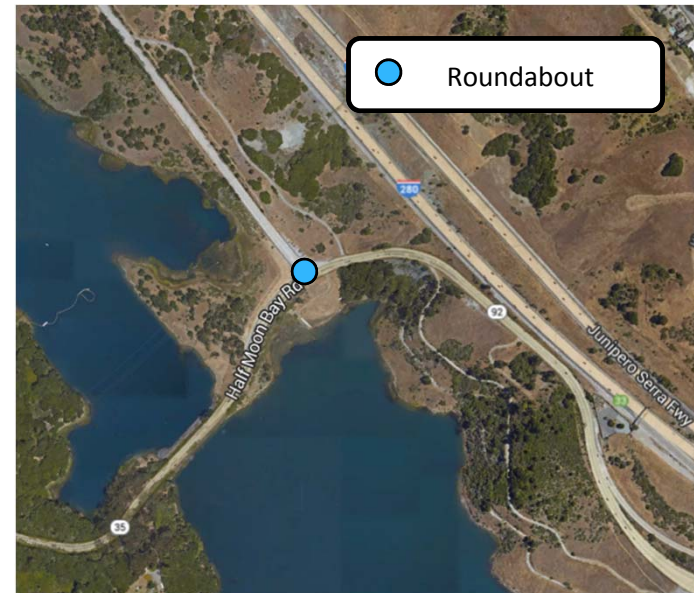




# Roadway and Intersection Circulation and Safety

## ➤ Intersection Improvements

- Roundabout at SR-92 and SR-35  
(will still be deficient, however it will improve operations at an LOS F intersection)





# Roadway and Intersection Circulation and Safety

## ➤ Roadway Improvements

- Defined curb and shoulder for consistent cross section
- Consolidation of access along Nurseryman's Exchange driveways between Mirada Road and Young Avenue



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# Roadway and Intersection Circulation and Safety

## ➤ Roadway Improvements

- Implementation of calming improvements along:
  - Main Street (Montara)
  - Carlos Street (Moss Beach)







# Roadway and Intersection Circulation and Safety

## ➤ Roadway Improvements

- Left-turn lanes at major businesses along SR 92 in Half Moon Bay
- SR-92 climbing lane between the quarry and existing lanes
- “Trucks use right lane” signs along climbing lane



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# Roadway and Intersection Improvement Cost

➤ Cost for Deficiency Projects

\$13.1 M

➤ Additional Cost for Circulation and Safety Projects

\$13.4 M



# Pedestrian Deficiencies

## ➤ Pedestrian Deficiencies

Segments along Highway 1 with potential for pedestrian demand that do not provide sufficient pedestrian facilities (PEQI score)

Segments along Highway 1 with potential for pedestrian demand without crossing opportunities every ½ mile





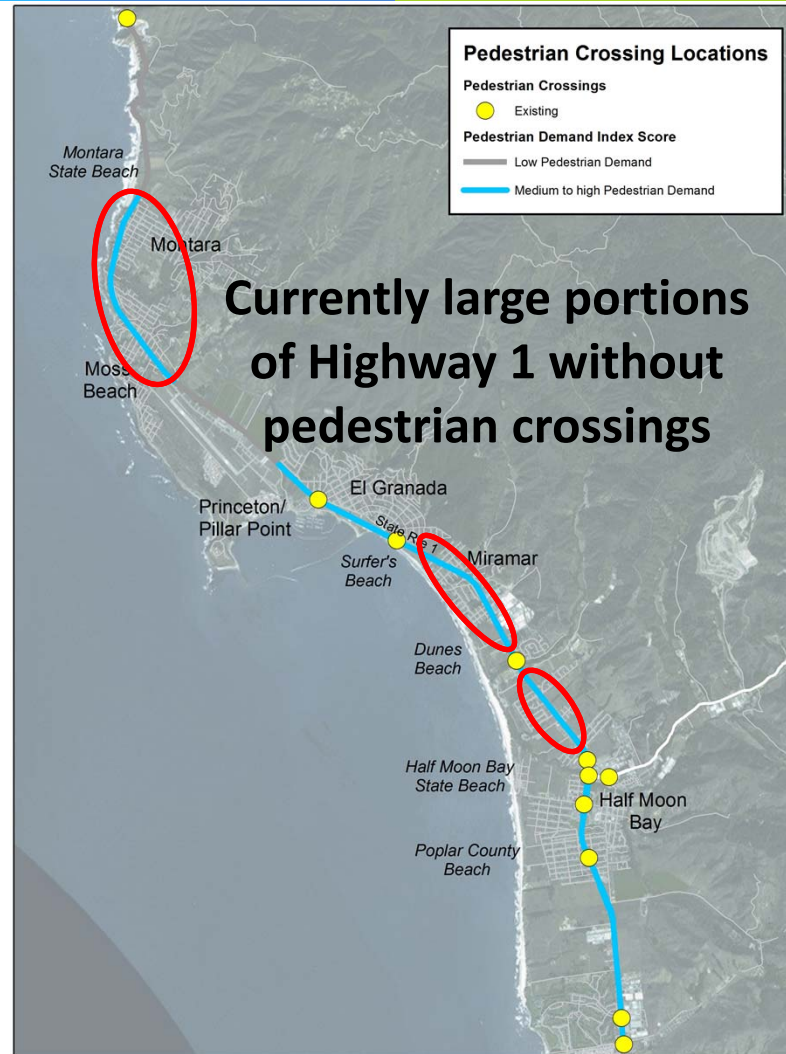
# Pedestrian Deficiencies

## ➤ Pedestrian Improvements

- Pedestrian count-down timers on signalized crosswalks
- Signal timing adjusted to meet 3.5 feet per second crossing speed MUTCD requirement
- Pedestrian refuges on wide crossings
- ADA compliant walking paths along Highway 1 in Montara, Moss Beach, Miramar, and downtown areas of Half Moon Bay with:
  - 6' wide obstruction-free path
  - Pedestrian scale lighting



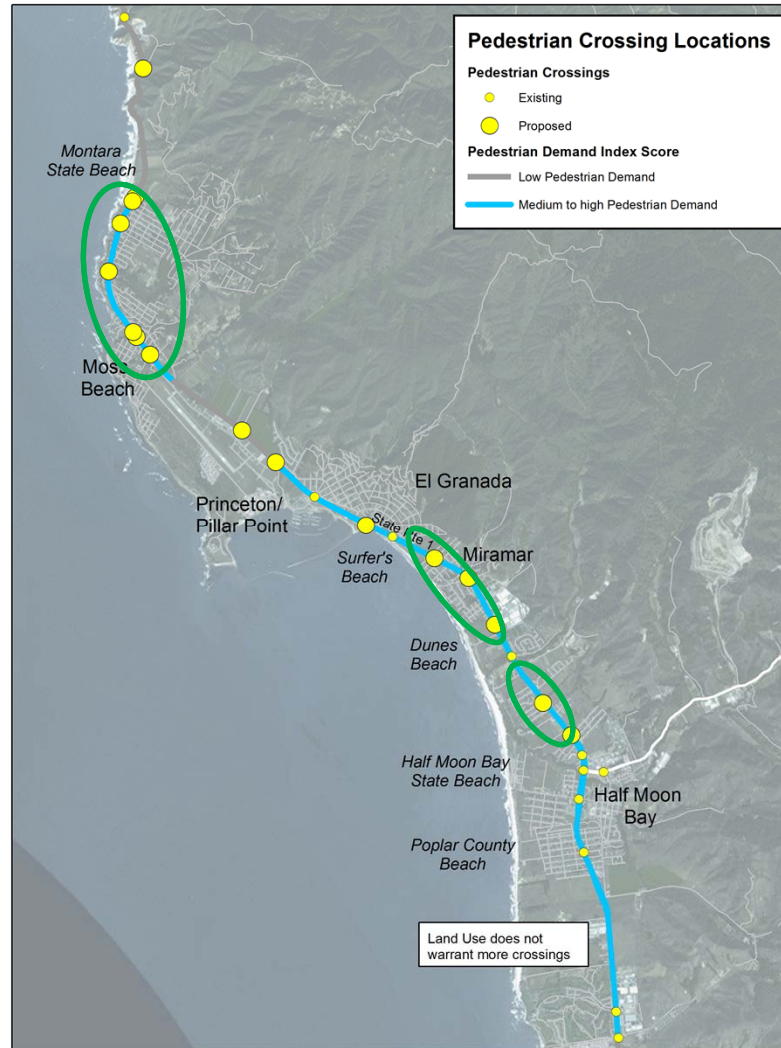
# Pedestrian Deficiencies





# Pedestrian Deficiencies

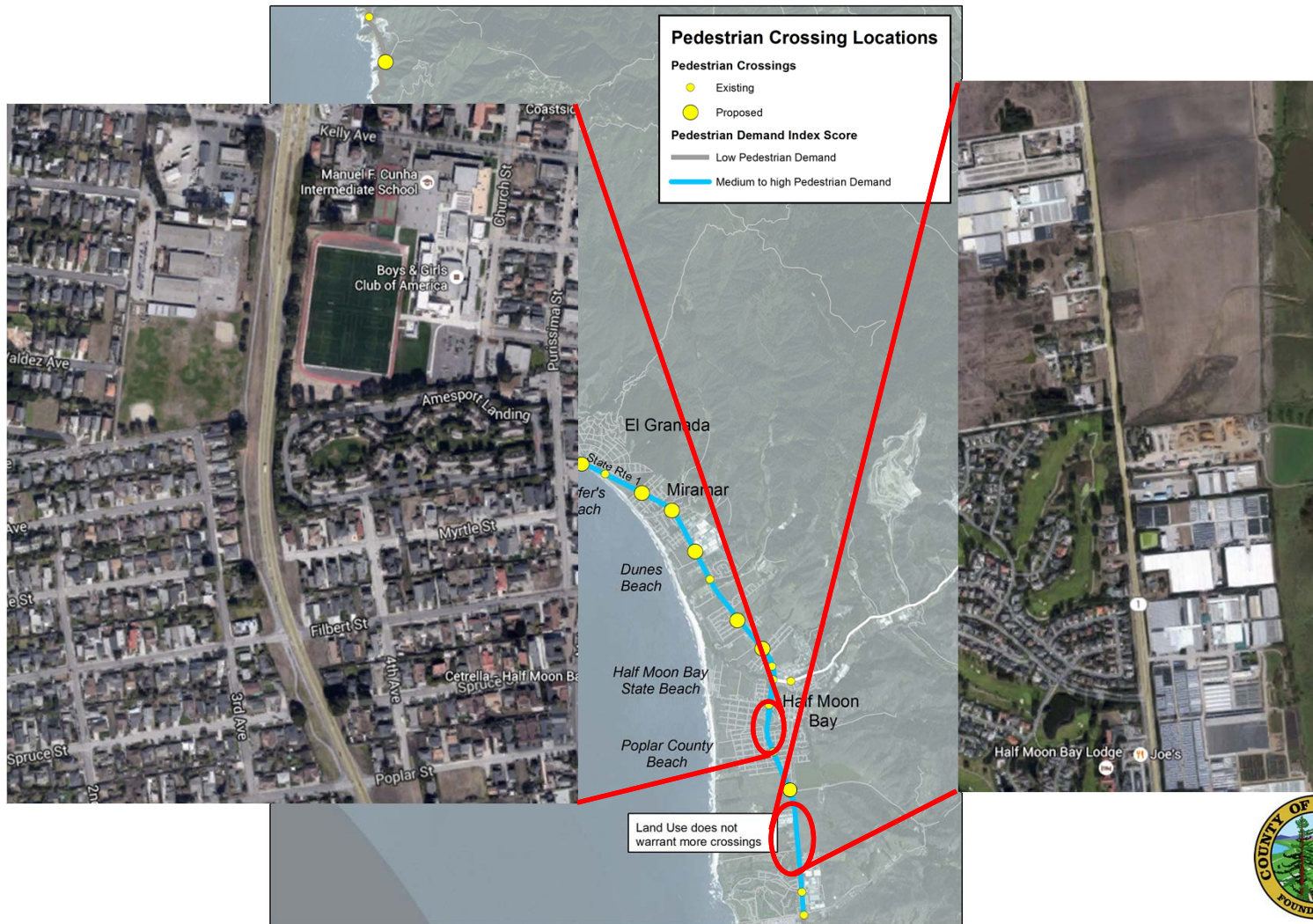
**Additional crossings to reduce the distance between crossings to ½ mile in pedestrian areas**







# Pedestrian Deficiencies





# Pedestrian Circulation and Safety

## ➤ Pedestrian Improvements

- ADA compliant walking paths along Coronado and Ave Alhambra in El Granada with:
  - 6' wide obstruction-free path
  - Pedestrian scale lighting



# Bicycle Deficiencies

## ➤ Bicycle Deficiencies

Segments along Highway 1 without sufficient bicycle facilities (BEQI score)

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Bicycle storage at beach access points and major trip generators that operate at more than 85% occupancy on average during the weekend midday peak





# Bicycle Deficiencies

## ➤ Bicycle Improvements

- Making the Parallel Trail continuous
  - 2<sup>nd</sup> Street to Ruisseau Francois Ave
  - Wavecrest Rd to southern HMB border
- Making the Coastal Trail continuous
  - Devil's Slide trail to 2<sup>nd</sup> Street
  - Cypress Avenue between highway 1 and Airport Street
  - Paving the dirt trail in south HMB
- Class II bicycle lane in both directions along Highway 1

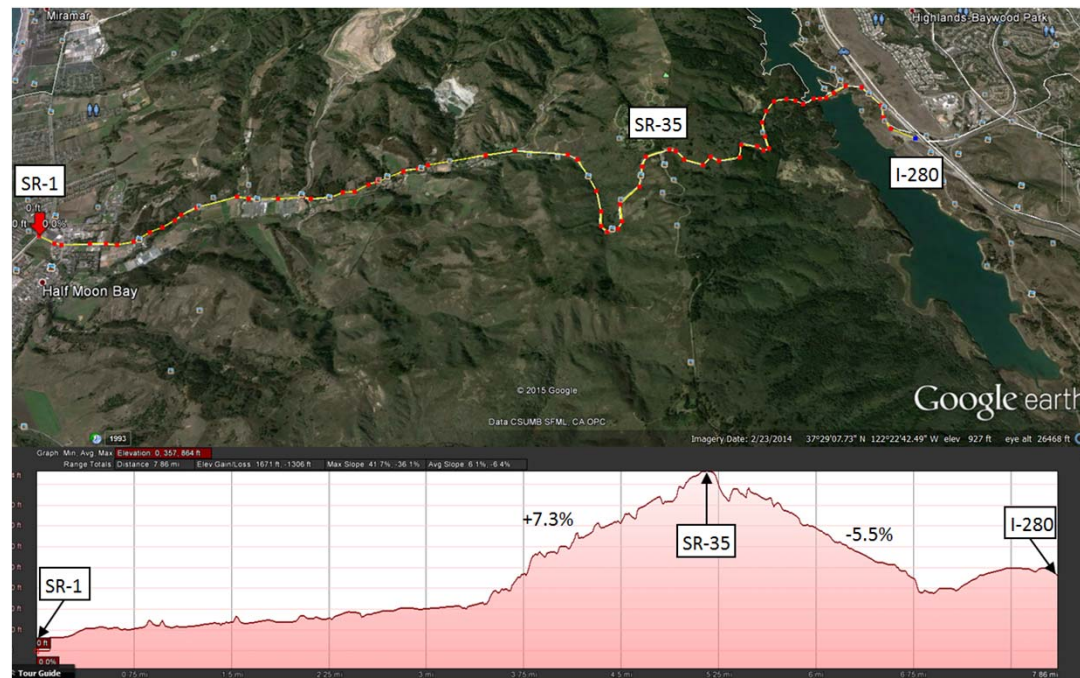




# Bicycle Circulation and Safety

## ➤ Bicycle Improvements

- Class II bicycle lane along SR-92
  - Class II bicycle lane or Class III bicycle route along Airport Street
- Both conditional on demand studies





# Pedestrian and Bicycle Improvement Cost

➤ Cost for Deficiency Projects

\$26.5 M

➤ Additional Cost for Circulation and Safety Projects

\$26.0 M







# Transit Deficiencies

## ➤ Transit Deficiencies

Utilization of buses standing capacity exceeding a 2-hour average of 85%

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Bus stops with an average of at least 25 daily boardings without a bench for riders.

Bus stops with an average of at least 100 daily boardings without a shelter



# Transit Deficiencies

## ➤ Transit Improvements

- Benches installed at the following locations:
  - Highway 1 & SR-92 (Average of 16 daily riders)
  - Strawflower Shopping Center (Average of 29 daily boardings)
  - Kelly Avenue & Church Street (Average of 24 daily boardings)
  - Main Street & Lewis Foster Drive (Average of 21 daily boardings)

Averages reflect 2015 ridership





# Transit Safety and Circulation

## ➤ Transit Improvements

- Shuttle bus service on summer and fall weekends during special events
- More frequent weekend service for exiting SamTrans routes 294 and 17
- Park-and-Ride shuttle for existing parking lots
- School Bus service for El Cabrillo Unified with storage and maintenance facilities





# Transit Improvement Cost

➤ Cost for Deficiency Projects

\$2000-\$3000

➤ Additional Cost for Circulation and Safety Projects

\$525 K annual operating



# Parking Deficiencies

## ➤ Parking Deficiencies

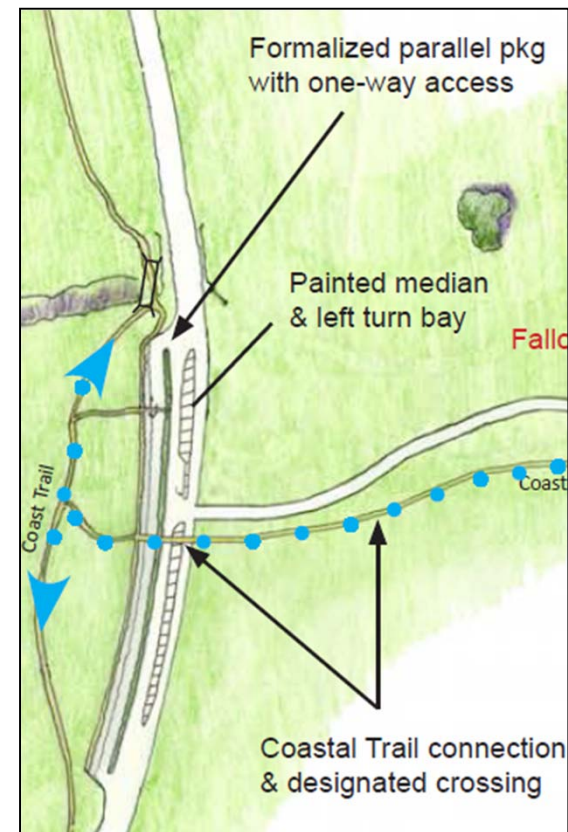
Utilization of beach access parking lot capacity exceeding an average of 85% during the weekend midday peak



# Parking Deficiencies

## ➤ Parking Improvements

- Formalized parallel parking for Montara State Beach with physical separation from Highway 1
- Diagonal separated parking for El Granada







# Parking Deficiencies

## ➤ Parking Improvements

➤ Park-and-Ride shuttle to serve over-capacity lots or collect a parking charge to bring occupancy to 85%

- Devil's Slide
- Fitzgerald Marine Reserve
- Pillar Point Bluff
- Young Avenue beach parking
- Venice Boulevard beach parking
- Kelly Avenue beach parking
- Poplar Street beach parking

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# Parking Safety and Circulation

## ➤ Parking Improvements

- Diagonal Parking along Carlos Street in Moss Beach
- Paving and Striping at the Gray Whale Cove Upper Lot
- Improved wayfinding signage



# Parking Improvement Cost

## ➤ Cost for Deficiency Projects

\$611 K + \$250 K annual operating

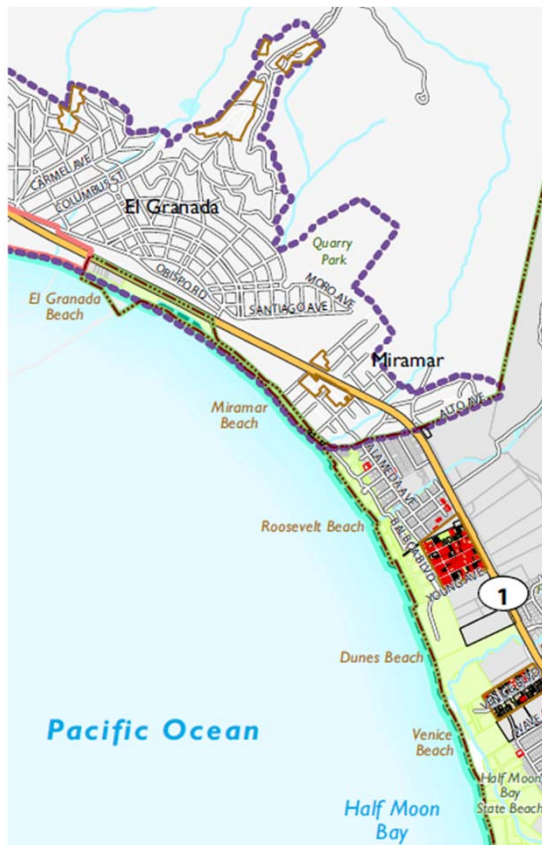
## ➤ Additional Cost for Circulation and Safety Projects

\$1.4 M





# Land Use Policy Concepts



## Land Use Policy Concepts





# Land Use Policy Concepts

## ➤ Paper subdivisions

- Revised Criteria for Legalization of Parcels Included Within Historic Recorded Subdivisions requires chain of title
- Estimated 183 parcels in County jurisdiction

## ➤ Substandard lots

- Lots that do not meet minimum lot size or lot width standards
- Use permit required where lot is very substandard (smaller than 3,500sf or 35 ft wide where 5,000sf and 50 ft minimums apply)



# Land Use Policy Concepts

## ➤ **Mandatory Lot Merger Program**

- Zoning, Subdivision Ordinance establish process for merger of contiguous parcels
- Board of Supervisors adopted policy in 2006 authorizing mandatory lot merger program
  - At least 2 contiguous parcels in same ownership
  - At least 1 parcel undeveloped
  - Area of at least one parcel <4,500sf in R-1 or R-3, <5,000sf in RM-CZ
  - Voucher for development bonus offered for voluntary merger
  - Process of hearing and appeals for mandatory merger







# Land Use Policy Concepts

## ➤ **Mandatory Lot Merger Program**

- Lot Merger program would support LCP policy 1.21: Lot Consolidation
- Lot Merger assumed in buildout calculation, consistent with methodology used for Midcoast LCP
- 216 lots estimated eligible in Unincorporated Midcoast
- Vacant substandard lots would decrease by 40%



# Land Use Policy Concepts

## ➤ **Mandatory Lot Retirement Program**

- Require 1:1 retirement of development rights on existing lots in exchange for new lots
- Coastal Commission has required this as Condition of Approval for some recent projects, recommended program for Midcoast LCP
- Proposed policy concept for CTMP:
  - Donor sites: located outside of existing developed areas; in areas containing sensitive habitat; or designated for Conservation, Open Space, Recreation or Agriculture
  - Apply only when new residential subdivision is proposed; do not apply to infill development





# Land Use Policy Concepts

## ➤ **Mandatory Lot Retirement Program**

- Lot Retirement program would follow Coastal Commission recommendation
- Estimated 148 eligible donor lots in unincorporated Midcoast, assuming Lot Merger program also in effect



### Lots Eligible for Potential CTMP Land Use Programs, Unincorporated Midcoast (Urban)

- Lots Eligible for Potential Lot Merger Program
- Lots Eligible for Potential Lot Retirement Program
- Paper Lots & Subdivisions
- Existing Parks, Open Space & Recreation

# Urban Midcoast



- Freeways
  - Major Highways
  - Major Streets
  - CTMP Study Area
  - City of Half Moon Bay
  - Midcoast LCP Project Area
  - Princeton Study Area Boundary
  - Half Moon Bay Planning Area
  - Lakes/Ocean
- Data Source: San Mateo County GIS, 2014; MTC, 2013; ESRI, 2014; Dyett & Bhatia, 2014



# Rural Midcoast





# Land Use Policy Concepts

## ➤ Traffic Fee Mitigation Program

- Traffic Impact Fee could be established to help fund recommended improvements
- Would apply to new housing and commercial, at rate based on proportion of need attributable to new development; estimated at 30 to 40%
- Not a growth management strategy, but could have the effect of lowering development







# Public and Stakeholder Outreach



## Outreach and Next Steps





# Public and Stakeholder Outreach on Transportation Alternatives

- Web Site Outreach
- Briefing to Half Moon Bay City Council –  
March 15
- Briefing to Midcoast Community Council –  
March 22
- Workshop # 4 – March 30



# Next Steps

- Public and Stakeholder Outreach
- Refine Preferred Alternative based on Outreach
- Presentation of Preferred Alternative to Planning Commission
- Presentation of Preferred Alternative to Board of Supervisors
- Conduct Environmental Review of Preferred Alternative
- Draft CTMP

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