San Francisco-Oakland Bay Bridge East Span Seismic Safety Project **Transportation Management Plan** For WTI Phase I **YBI** Viaduct Demolition and Replacement



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Presentation Outline

Project Description
Construction Activities
Transportation Changes
Transportation Management Plan (TMP) Strategies
Post-Evaluation Study



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Project Description



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BAY BRIDGE SEISMIC SAFETY PROJECTS

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YBI Transition Structures



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South-South Detours

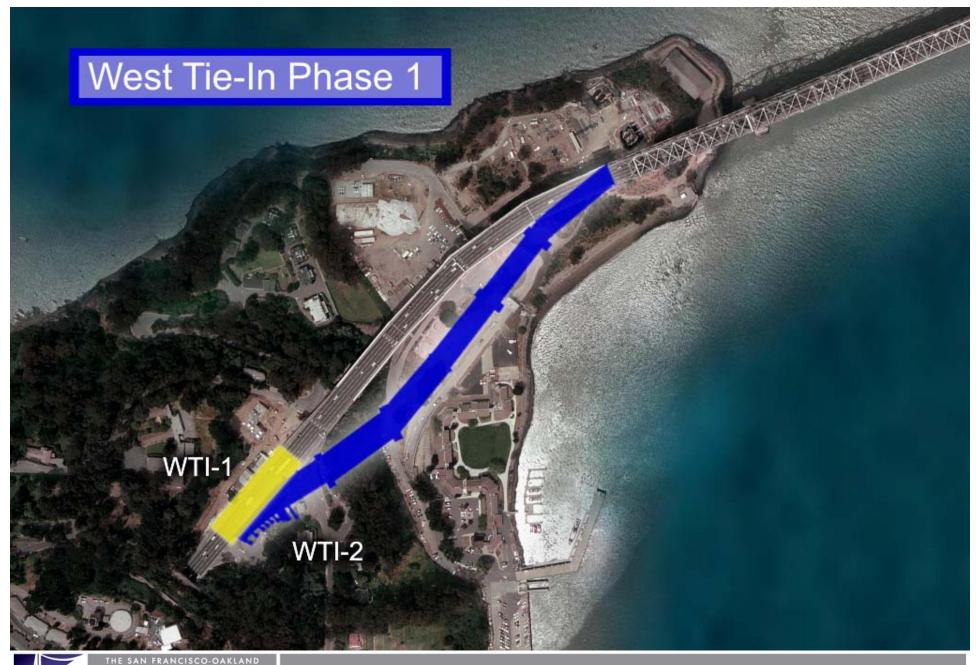
SSD Required During Demo of Existing Structure and Construction of YBITS



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West Tie-In Phase 1

Retrofit of YBI Viaduct Required for Structural Safety of SSD WTI-2

Retrofit is Essential Step for Overall Seismic Safety of East Span

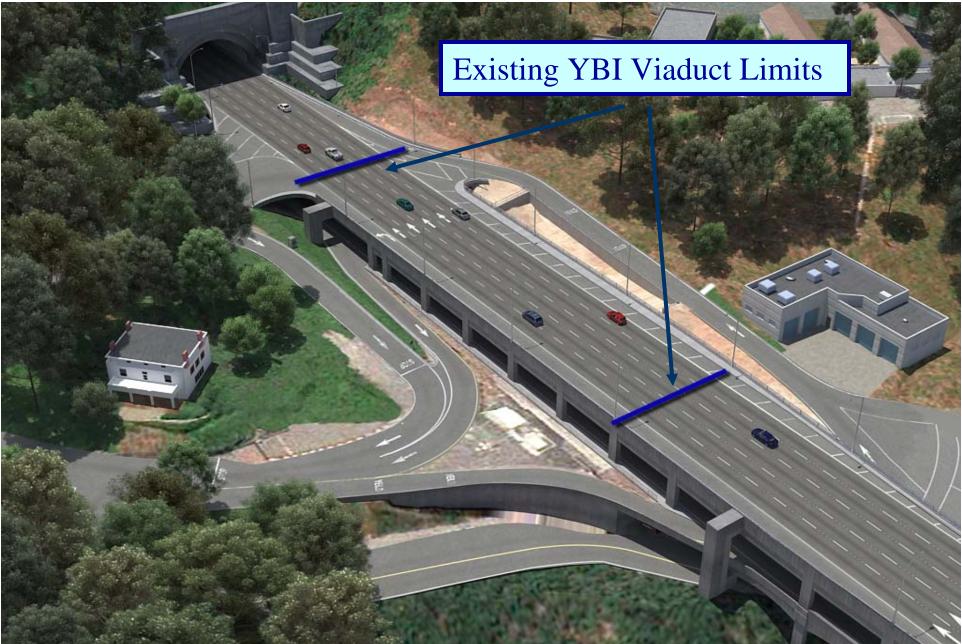
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THE SAN FRANCISCO-OAKLAND BAY BRIDGE SEISMIC SAFETY PROJECTS CALTRANS

WTI-1

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WTI-2





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YBI Viaduct Retrofit

- Retrofit by Replacement of Structure
- Design, Constructability, and Seismic Safety Advantages
- Construction Period
 - January to September 2007
- FULL BRIDGE CLOSURE REQUIRED
 LABOR DAY WEEKEND 2007



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Local Traffic Changes on YBI

Beginning January 2007

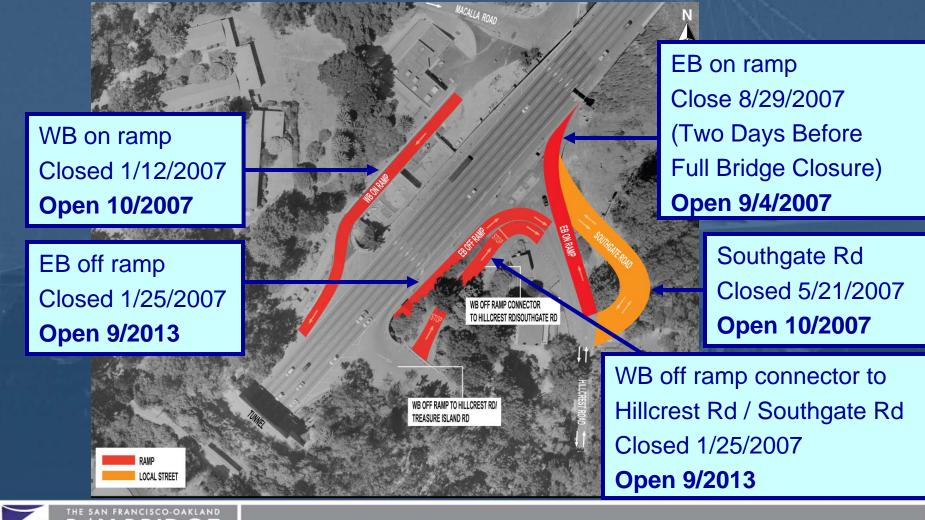


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YBI Ramp and Local Road Closures

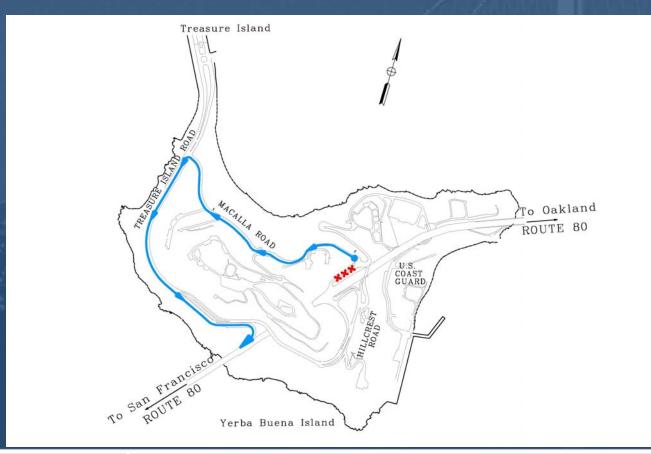


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Local Traffic Detour Westbound On Ramp

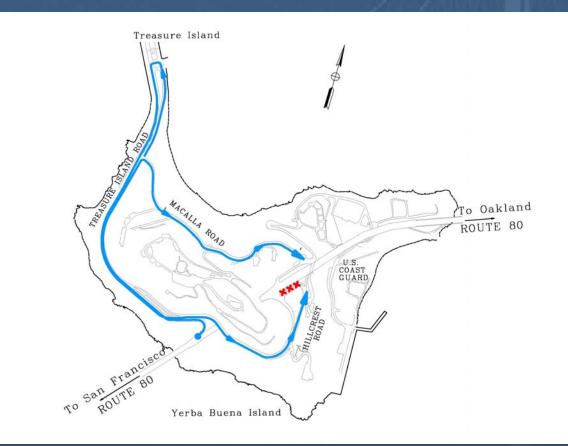




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Local Traffic Detour Eastbound Off Ramp

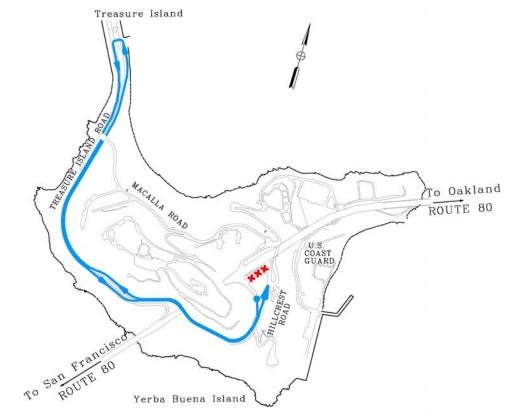




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Local Traffic Detour Westbound Off Ramp Connector to Hillcrest Road



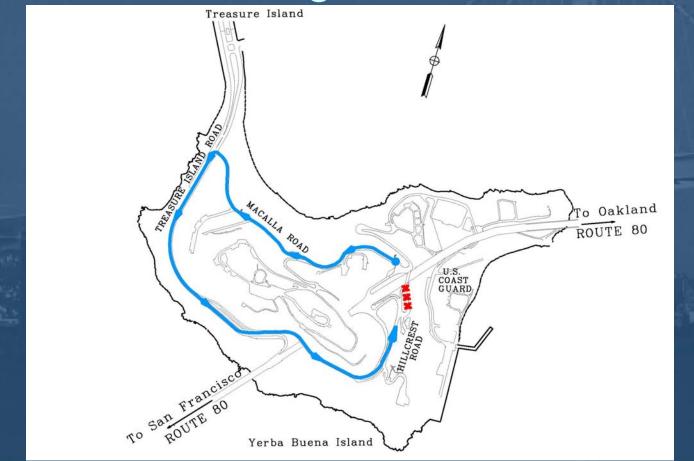


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Local Traffic Detour Southgate Road



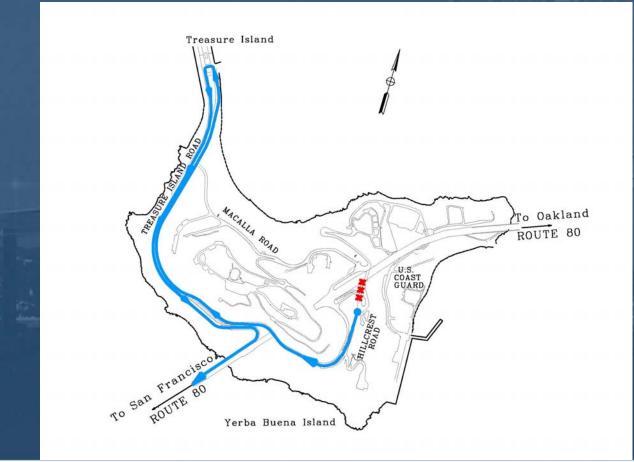


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Local Traffic Detour Eastbound On Ramp

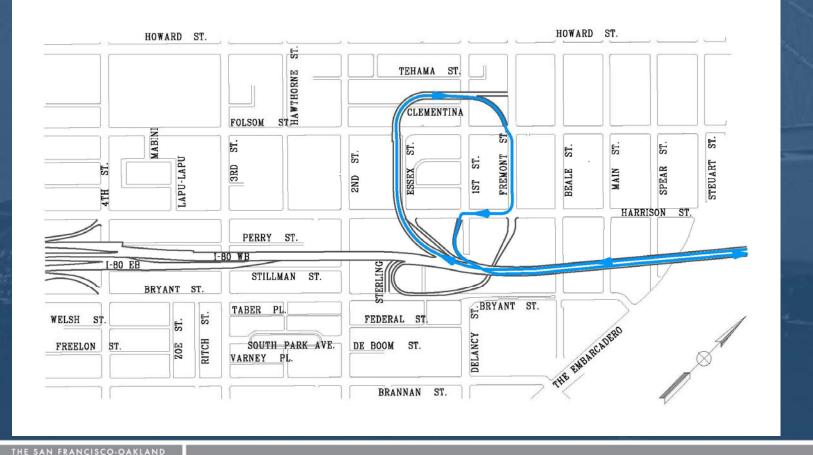




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Local Traffic Detour Eastbound On Ramp (Continued)



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Local Transit Changes

MUNI 108 Bus

Continued service on West Span
New route
Use on/off ramps on west side of YBI
YBI via shuttle service (between Treasure Island Main Gate, Macalla Road, and USCG



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Station Gate)

Construction Activities

Demolition and Replacement (Labor Day Weekend 2007)



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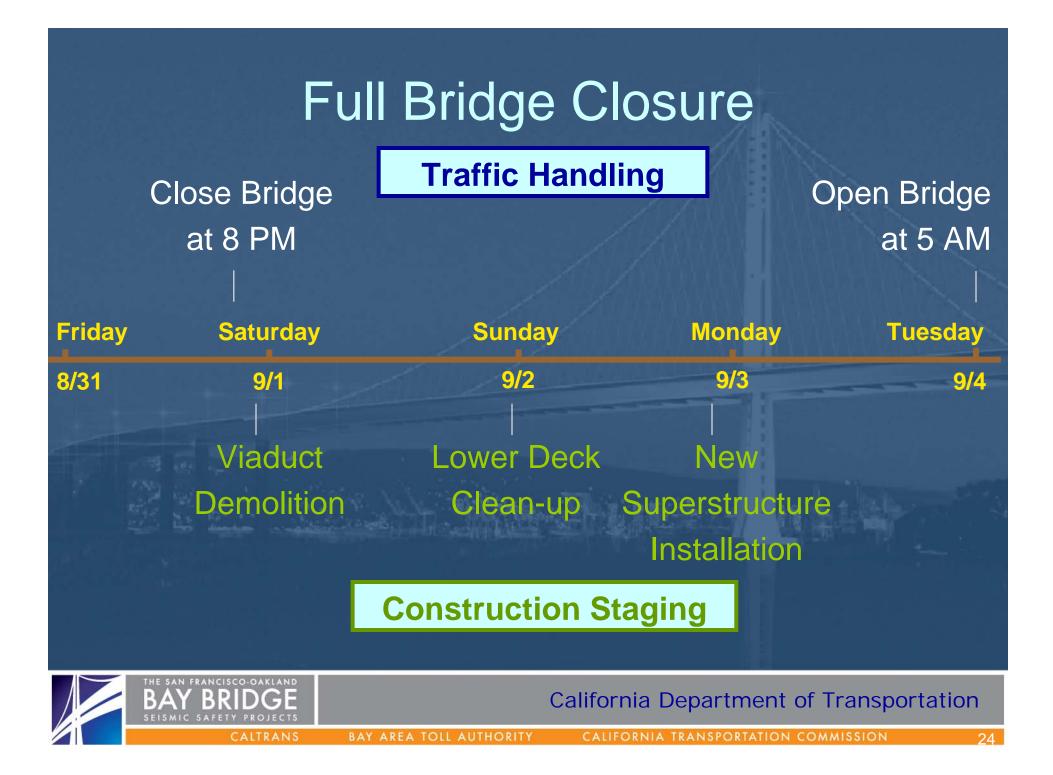
81-HOUR FULL BRIDGE CLOSURE FRI 8/31/07 8 PM to TUE 9/4/07 5 AM

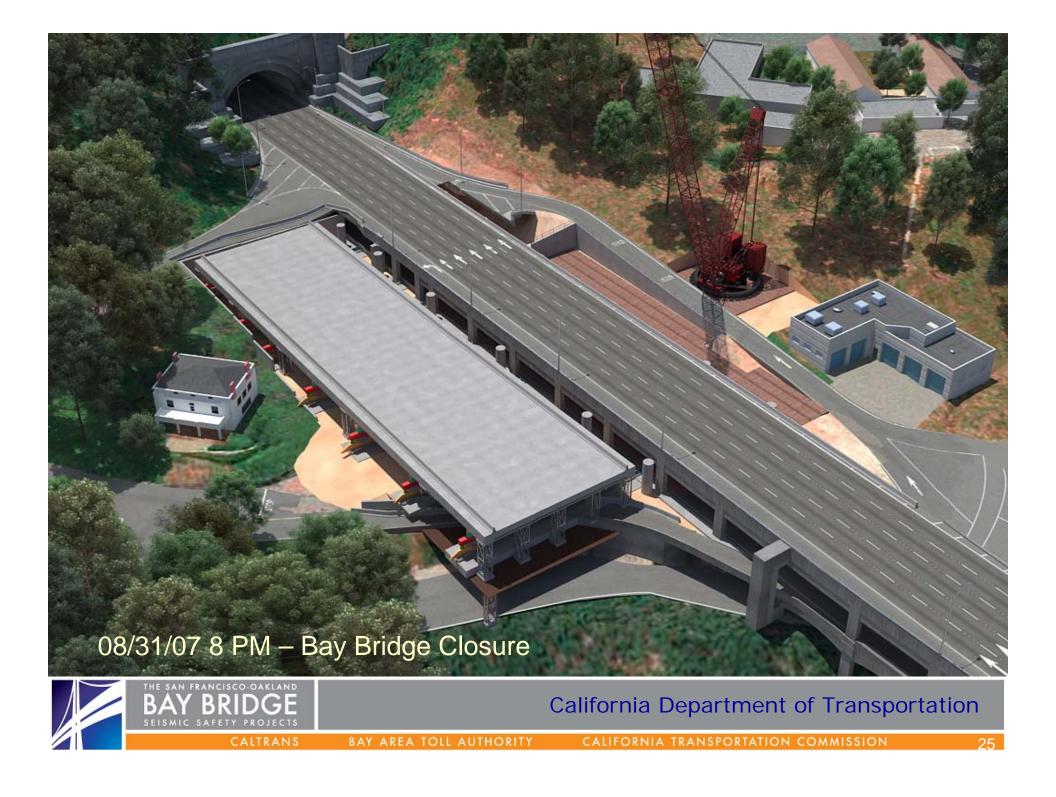


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Remaining Moving Apparatus Installation



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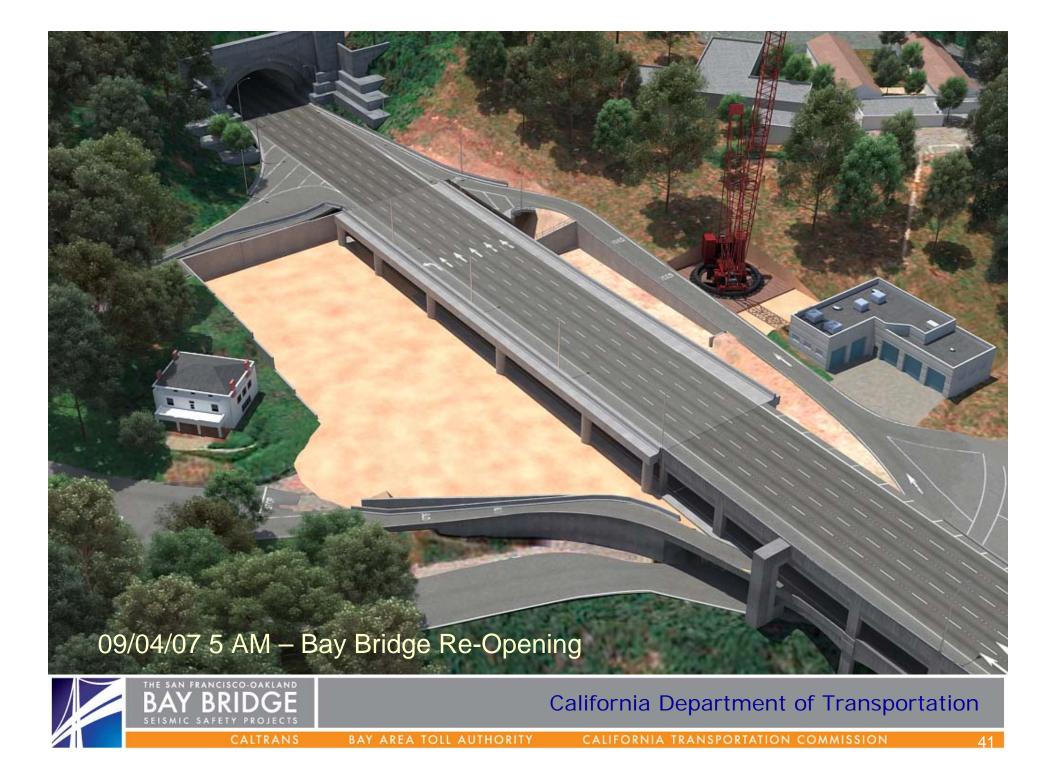


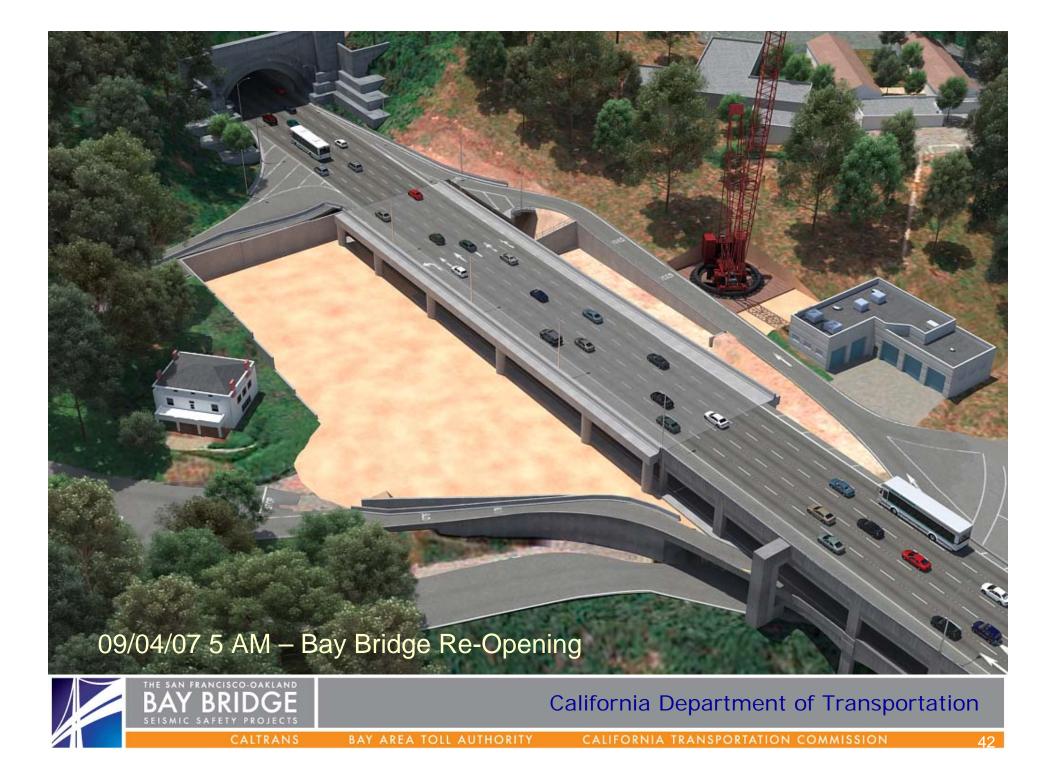


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Regional and Local Traffic Changes

FULL BRIDGE CLOSURE Labor Day Weekend 2007



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Regional Traffic Detours



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Regional Traffic Conditions



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Regional Traffic Conditions

 Traffic diversion patterns observed in the eastbound direction during the Labor Day Weekend 2006 Bay Bridge eastbound closure, are expected to occur during the Labor Day Weekend 2007

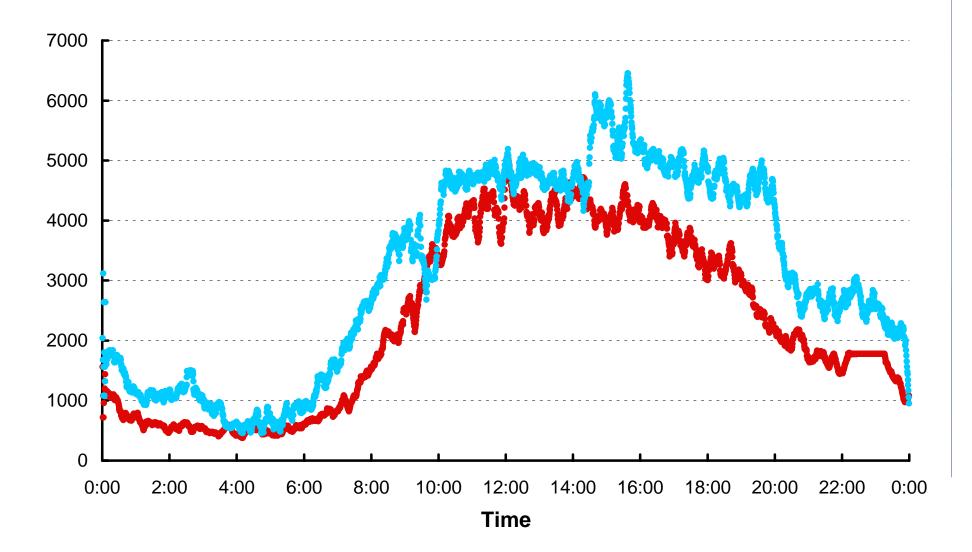


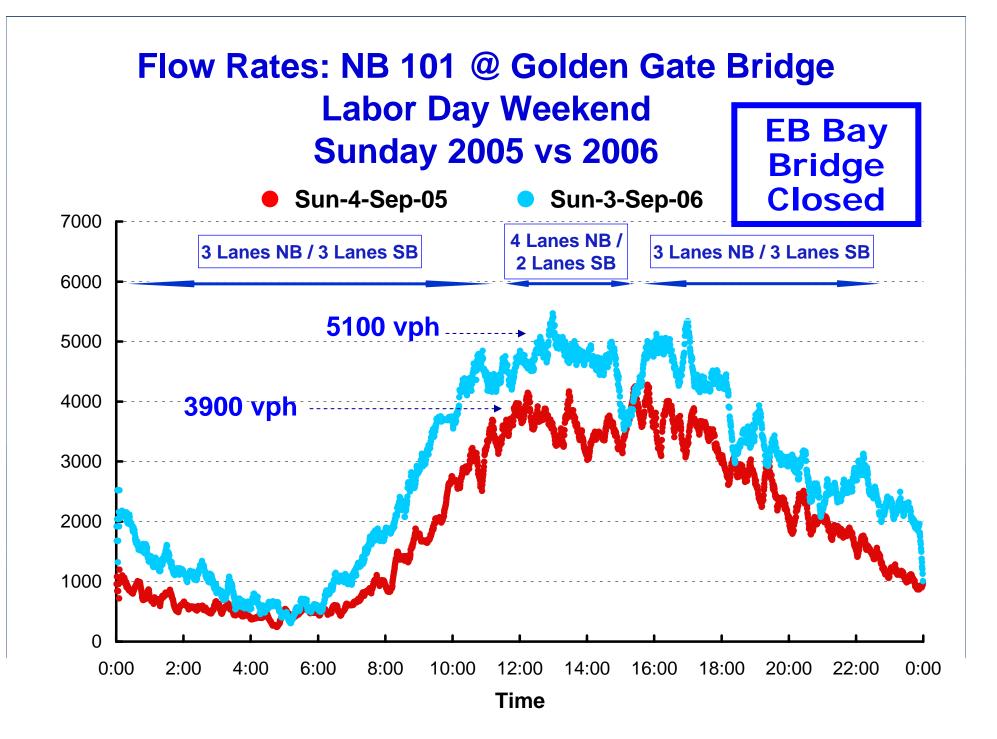
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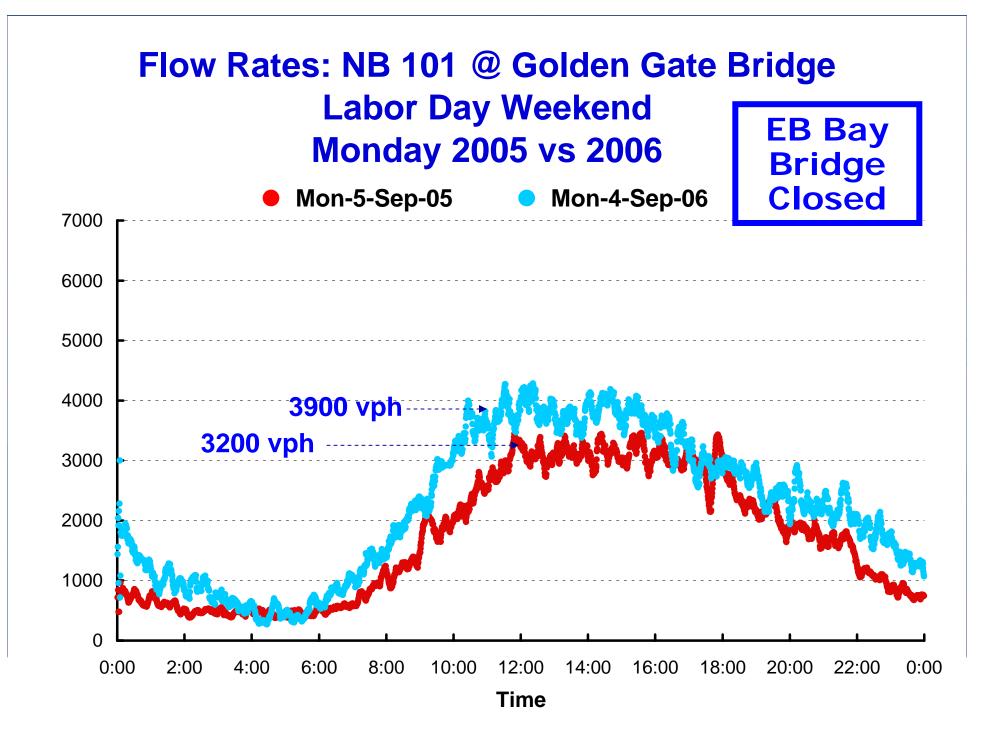


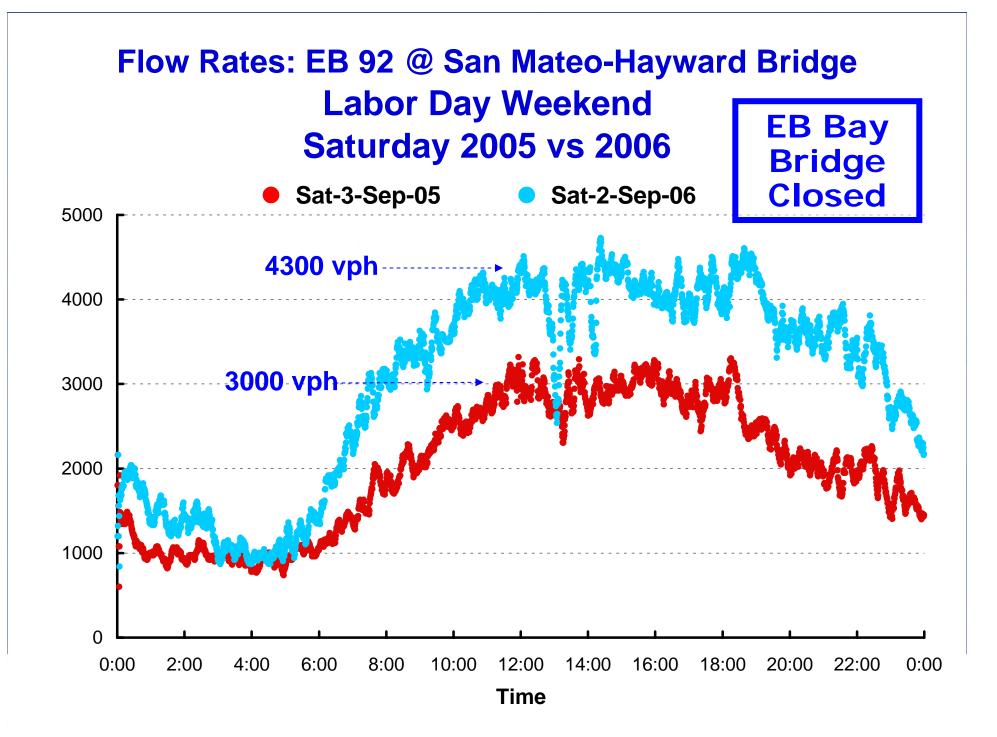
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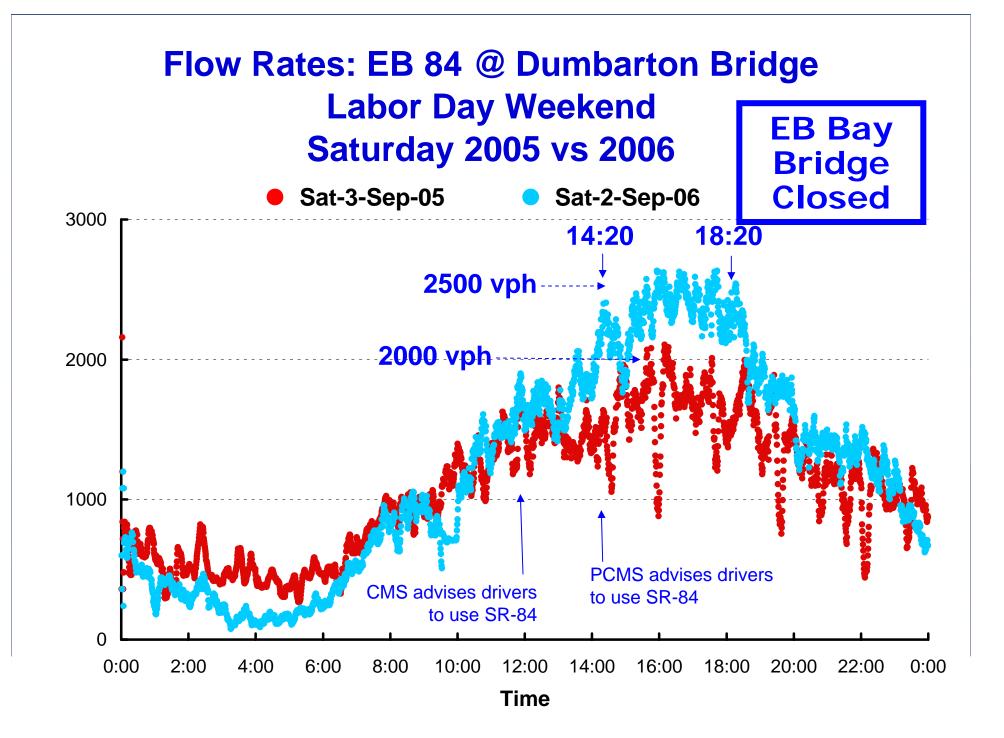
Flow Rates: NB 101 @ Golden Gate Bridge Labor Day Weekend Saturday 2005 vs 2006

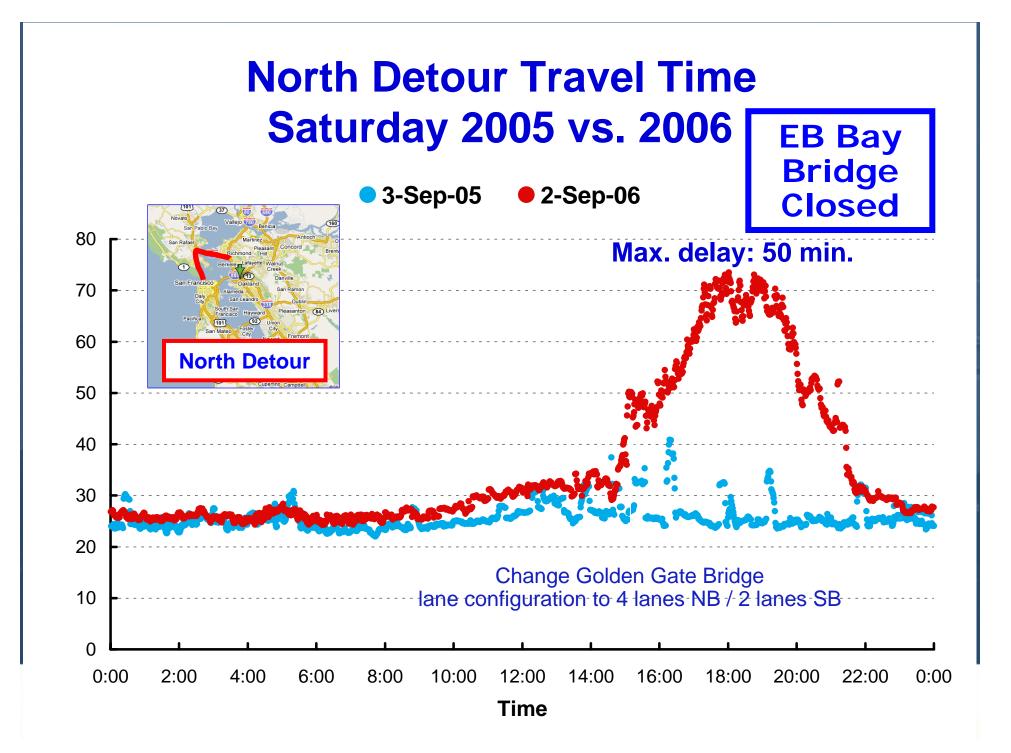


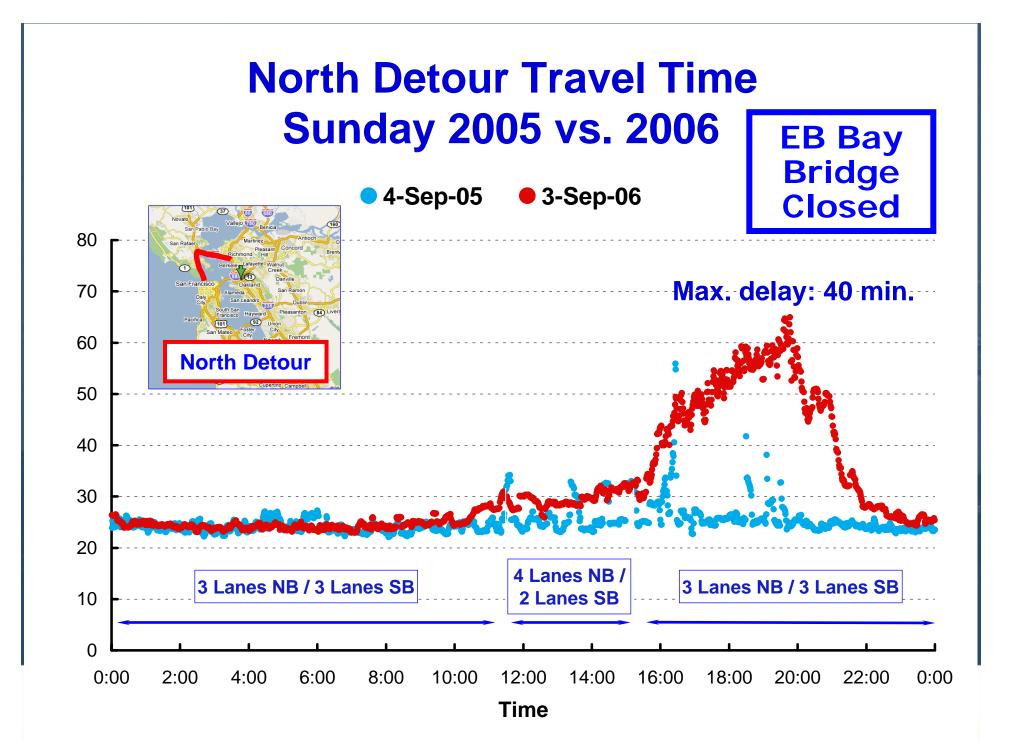


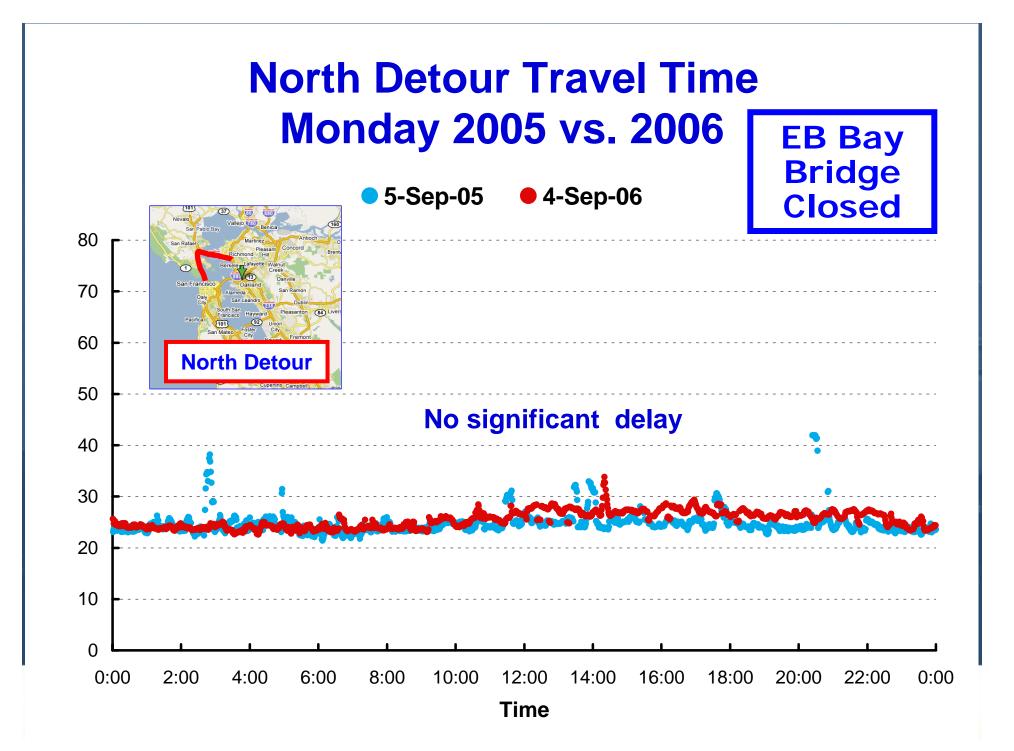


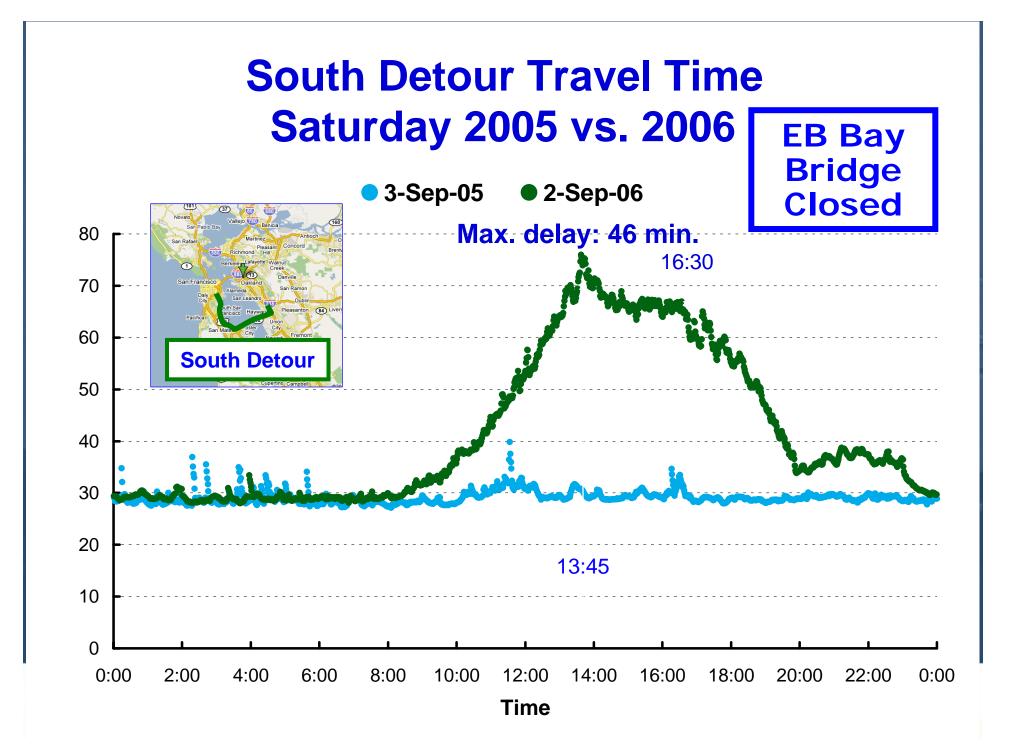


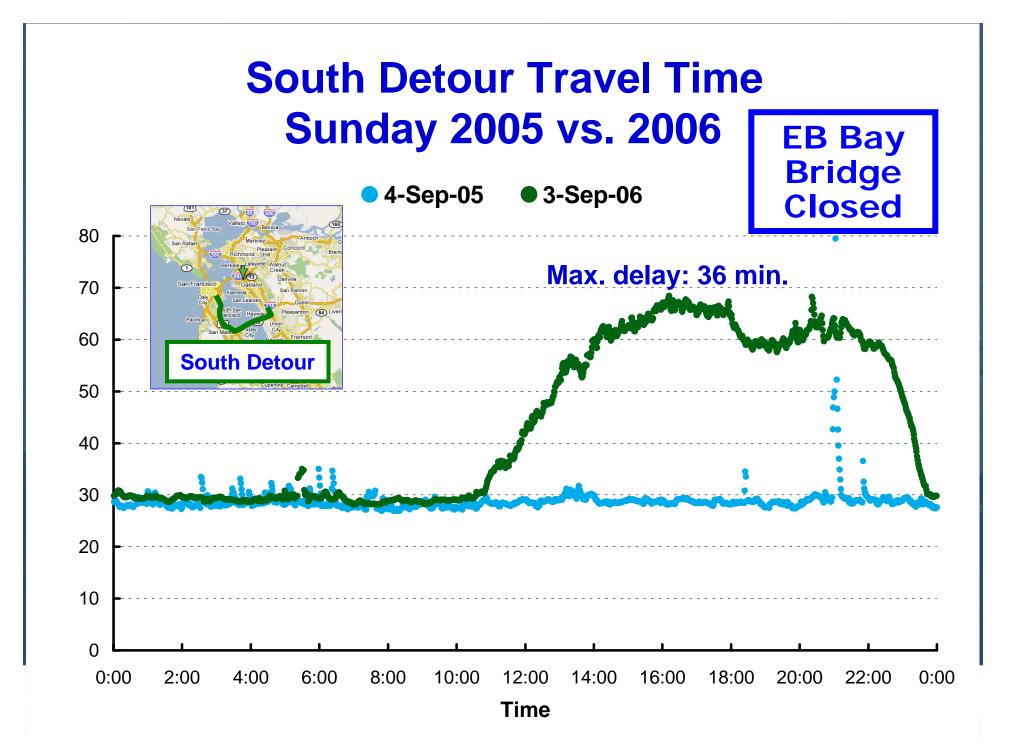


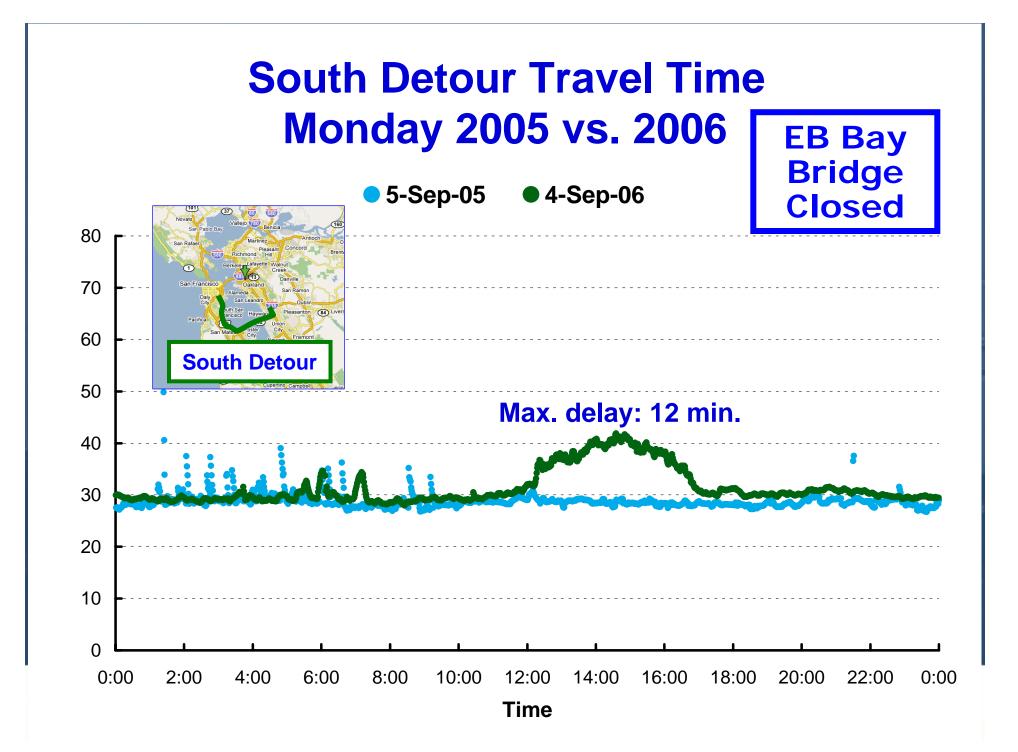












Maintaining YBI Access

Between YBI and San Francisco via Bay Bridge West Span
Between YBI and East Bay via San Francisco and Regional Traffic Detours or BART



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Maintaining YBI Access

East Span Closed

West Span Open for YBI Residents and Weddings Access through Sterling St on-ramp

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Transbay Transit Changes

 Additional Services

 BART and Ferry (more information in the TMP Strategies – Demand Management section)

MUNI 108 bus on regular weekday schedule, with YBI shuttle service

Cancelled Services

 AC Transit transbay trips

THE SAN FRANCISCO OAK BAY BRIDO SEISMIC SAFETY PROJ

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Transportation Management Plan (TMP) Strategies

FULL BRIDGE CLOSURE Labor Day Weekend 2007



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TMP Strategies

Public Information
Motorist Information
Transportation Management
Construction Strategies
Demand Management
Alternate Route Strategies



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Public Information



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Public Information

Outreach Sequence

 Key Stakeholders
 Elected Officials
 Media
 Public



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Key Stakeholders Outreach Beginning March 2007

- Key Stakeholders
 - County Transportation Authorities
 - City and County of San Francisco (CCSF)
 - City of Oakland
 - Treasure Island Development Authority (TIDA)
 - Cities of Hayward, Marin, Larkspur, San Rafael
 - Golden Gate Bridge
 - Major Professional Sport Teams
 - Oakland Art and Soul Festival



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Elected Officials Outreach Beginning April 2007

 Two Outreach Meetings

 Invitations to the offices of Senators, all members of the Bay Area Congressional delegation, all Bay Area state Senators, all Assembly members from the Bay Area, Supervisors in all nine Bay Area counties, mayors in key Bay Area cities

• E-Alerts



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The Bay Bridge Will Be Closed In Both Directions Over **Labor Day Weekend!**

Fact Sheet Sample

THE SAN FRANCISCO-OAKLAND BRIDGE SEISMIC SAFETY PROJECTS

rba Buena Isla

EXPECT REGIONAL TRAFFIC DELAYS

CLOSURES WILL AFFECT TRAFFIC INTO AND OUT OF SAN FRANCISCO AND OAKLAND

The entire Bay Bridge will be closed over Labor Day weekend 2007 in order to perform important seismic safety work on a section of the bridge slightly east of Yerba Buena Island.

We recognize that you may be planning ahead and would like to notify you about major work related to the Bay Bridge Seismic Safety Projects. This work will impact traffic coming into and going out of San Francisco and Oakland over the long weekend.

We will provide more details about the closure and other information within the coming months.

HOW YOU CAN PLAN AHEAD

Avoid driving between San Francisco and the East Bay during Labor Day weekend.

Allow extra time for travel Use public transit.

Use alternate bridges: Golden Gate Bridae Richmond-San Rafael Bridge

San Mateo-Hayward Bridge

HOW WE ARE PLANNING

We are coordinating with numerous public transit agencies, including Bay Area Rapid Transit (BART) and the San Francisco Municipal Railway (MUNI), as well as with local and regional bus and ferry service providers to plan scheduling and route changes. We are also actively exploring opportunities for augmenting service and providing as many transit alternatives as possible during the closure.

- BART will be running overnight service to select stations.
- Ferry service will be expanded on select routes

 Treasure Island residents, employees, and visitors will be granted access to and from San Francisco by special permit. Transbay bus service will not be available.

SOME PEOPLE HAVE ASKED, "WHY LABOR DAY WEEKEND?"

Last year we were able to complete a complex phase of work during Labor Day weekend, while minimizing disruptions to motorists and the community.

This year, the work is even more challenging —requiring a closure of the bridge in both directions. We will use our experience from last year's closure to perform this essential seismic safety work efficiently and with minimal inconvenience to the public.

PUBLIC OUTREACH

We will be making a concerted effort in the months ahead to keep the public informed about the upcoming bridge closure

We will be reaching out to motorists, transit riders, holiday travelers, and affected residents and businesses through fact sheets. public service announcements, posters, banners, and signs. A telephone hotline number will be established during the closures.

The media will also be kept up-to-date before, during, and after the work.

As Labor Day weekend approaches, baybridgeinfo.org will provide important construction updates. 511 will be the official source for trip planning and traffic conditions.

Please stay tuned for more information!

Stay Informed!

Updated Closure Information available at: www.baybridgeinfo.org Be sure to sign up to receive our eNewsletter and eAlerts.

CONTACT US **Bay Bridge Public Information Office** 311 Burma Road, Oakland CA, 94607 (510) 286-7167 info@baybridgeinfo.org







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Fact Sheet Sample (Continued)

RETROFITTING THE EAST SPAN OF THE BAY BRIDGE

why are we doing THIS?

SECTION TO BE DEMOLISHED AND REPLACED

THE YERBA BUENA ISLAND ROADWAY REPLACEMENT

A section of roadway—approximately the length of a football field—will be constructed on a moveable support system south of the existing bridge. After the bridge has been closed to traffic in both directions, the existing portion of roadway will be demolished and the debris will be removed. Then tracks will be laid across the bridge's lower deck and the new structure will be rolled into position.

When the bridge reopens to traffic, motorists will probably not notice any visible difference. They will be driving on a seismically upgraded section of roadway that will eventually connect the bridge's new East Span, which is currently under construction, to the Yerba Buena Island Tunnel.



FULL BRIDGE CLOSURE The bridge will be closed to traffic in both directions. The new section of roadway has been constructed south of the existing bridge.



EXISTING ROADWAY DEMOLITION Demolition is completed on a 350-foot section of the bridge's upper deck.



SPECIAL TRACKS ARE INSTALLED Tracks are laid horizontally across the bridge's lower deck, in alignment with tracks installed beneath the new roadway.

NEW ROADWAY INSTALLATION The new roadway will be rolled into place along the tracks using a computer-controlled hydraulic system.

BRIDGE REOPENED TO TRAFFIC The bridge will reopen to traffic after all of the work has been completed.

The Bay Bridge has served commuters for 70 years. A series of massive retrofit projects is now bringing it up to current earthquake standards.

We will be demolishing approximately 350 feet of the original westbound upper deck roadway to the Yerba Buena Island Tunnel and installing a permanent, seismically upgraded structure. Both the upper and lower decks of the Bay Bridge will be closed to traffic during this work.

This work is similar in many ways to the work that was successfully performed over Labor Day weekend in 2006. However, this year, in addition to removing a section of the existing bridge, we will also be moving a new structure into place. All of this work must be completed before the bridge can reopen to traffic. When the bridge does reopen, most motorists will probably not notice any difference, but they will be driving on a new, seismically upgraded section of the bridge.

This work is part of the Bay Bridge Seismic Safety Projects to strengthen the bridge.

Our website, www.baybridgeinfo.org, has a wealth of information about the Bay Bridge Seismic Safety Projects. Bookmark the site for traffic updates, photos, videos, and more! Be sure to sign up to receive our eNewsletter and eAlerts.

www.baybridgeinfo.org







SAN FRANCISCO-OAKLAND

BAY AREA TOLL AUTHOR

Media Outreach Beginning April 2007

- Media Outreach Sessions
 - San Francisco-Oakland Bay Area
 - Sacramento-San Joaquin Area
 - Southern California as requested
- Press Releases
 - Two weeks in advance
 - At completion of closure
- Public Information Officer Live Update
 - One week in advance
 - During Labor Day closure
 - After completion of closure



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BAY AREA TOLL AUTHORITY

State-wide Public Outreach Beginning April 2007

- Community Meetings
- Website
- Mailers and Flyers
- Banners
- Local Notification
- Telephone Hotline
- E-Alerts
- Public Service
 Announcements

- Out-of-Town Traveler Notification
- Transit Agency
 Coordination
- MTC 511 Coordination
- Information Letter to Caltrans Employees
- Coordination with Other Caltrans Districts

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Community Meetings

• Oakland / East Bay

- Chambers of Commerce
- Event arenas
- Emergency services
- Hotel, Bar and Restaurant Associations
- Port of Oakland
- City of Oakland Event Planning Commission
- Hospital HR

- San Francisco
 - Chambers of Commerce
 - Event arenas
 - Emergency services
 - Hotel, Bar and Restaurant Associations
 - SF Businesses at the Piers
 - SF Businesses
 - City of San Francisco
 Event Planning
 Commission
 - Hospital HR





CALTRANS BAY AREA TOLL AUTHORITY

Community Meetings

• Airports

- Oakland International
- San Francisco International
- Mineta San Jose International
- Sacramento International and Sonoma County
- Treasure Island
 - TIDA Board of Directors meetings
 - Monthly Treasure Island Community meetings
 - Monthly Job Corps

- Key Businesses
 - Genetech of South San Francisco
 - ATT & SBC
 - Charles Schwab
 - One Market
 - Equity Office
 - Boston Properties
 - Delivery, Mail, and Trucking Services
 - Other agencies as needed

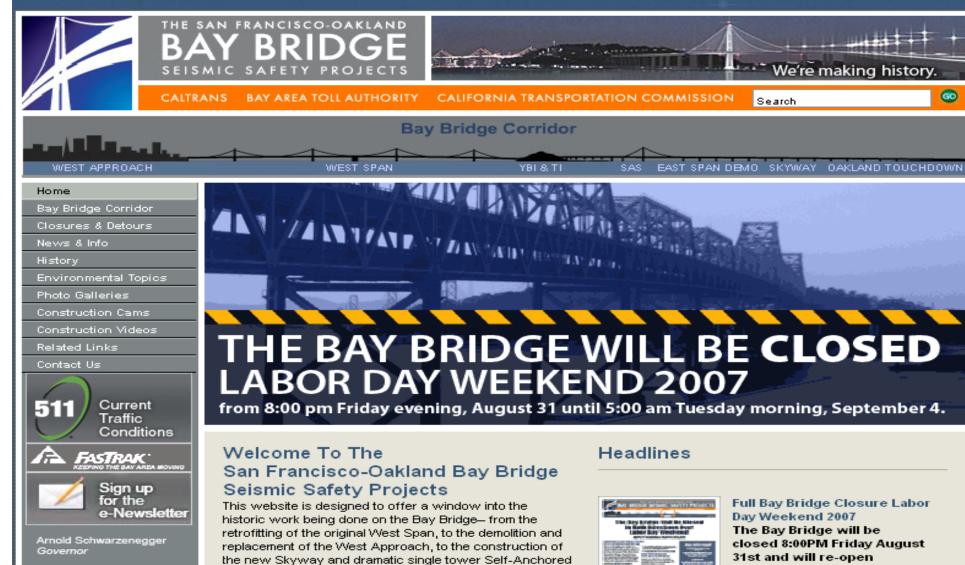
SAFETY PROJECTS

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Project Website



Tueeday 5-00AM Sentember



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 Greater Emphasis on East Bay than in **Previous Eastbound Only Closure**

Distribution to

- Local / corridor businesses
- Neighborhood newsletters and other publications
- TIDA and Mayor's Office staff
- Residential neighbors, including Treasure Island / **YBI** residents



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BAY AREA TOLL AUTHORITY

Distribution to (Continued)

 Taxis and shuttle services, airports, hotels, car rental agencies, visitor's bureaus, the State Tourism Office, Chambers of Commerce and automobile associations
 Hospitals, major employers, funeral homes, farmers markets, carpool centers, parking garages, shopping malls



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BAY AREA TOLL AUTHORITY

- Distribution to (Continued)

 Major regional and local entertainment and sports venues
 - Cities from San Luis Obispo to Sacramento in the target areas
 - Ferry, bus transit, and rail operators, transit centers, BART, the Water Transit Authority, and the San Francisco Metropolitan Transportation Agency

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Distribution to (Continued)

 State and local offices of the California tourism agencies and convention bureaus
 Approximately 5,000 organizations and private citizens on the Bay Bridge Public Information Office contact list



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Transit Agency Coordination

- BART
- Muni
- AC Transit
- Caltrain
- Samtrans
- Golden Gate Transit

- Vallejo Ferry
- Alameda / Oakland Ferry
- Greyhound
- Amtrak
- Airport Shuttle Service



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Motorist Information



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Traveler Information

Changeable Message Signs (CMS's)
Highway Advisory Radio (HAR)

Two weeks in advance
During full bridge closure: Real-time modification based on traffic conditions



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Traveler Information

- 511 Services for Real-Time Traveler Information
- Updated Transit Information



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Changeable Message Signs

 Regional Deployment

 Fixed and portable CMS in San-Francisco-Oakland Bay Area (District 4) and neighboring Districts (1, 3, 5, 10)

 Local Deployment

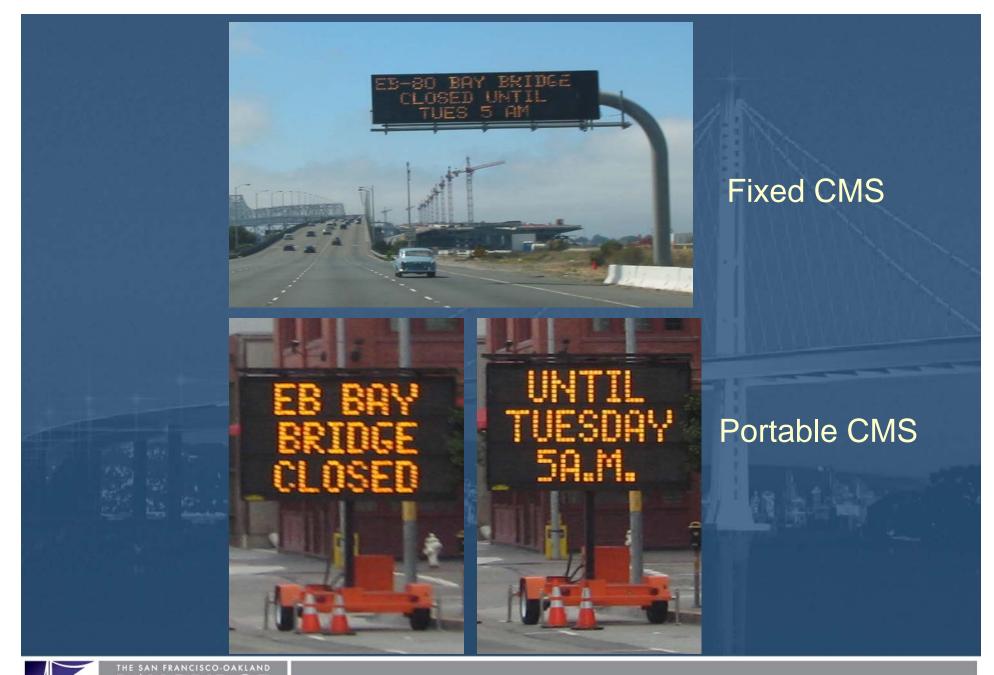
 Portable CMS on surface streets in various Cities



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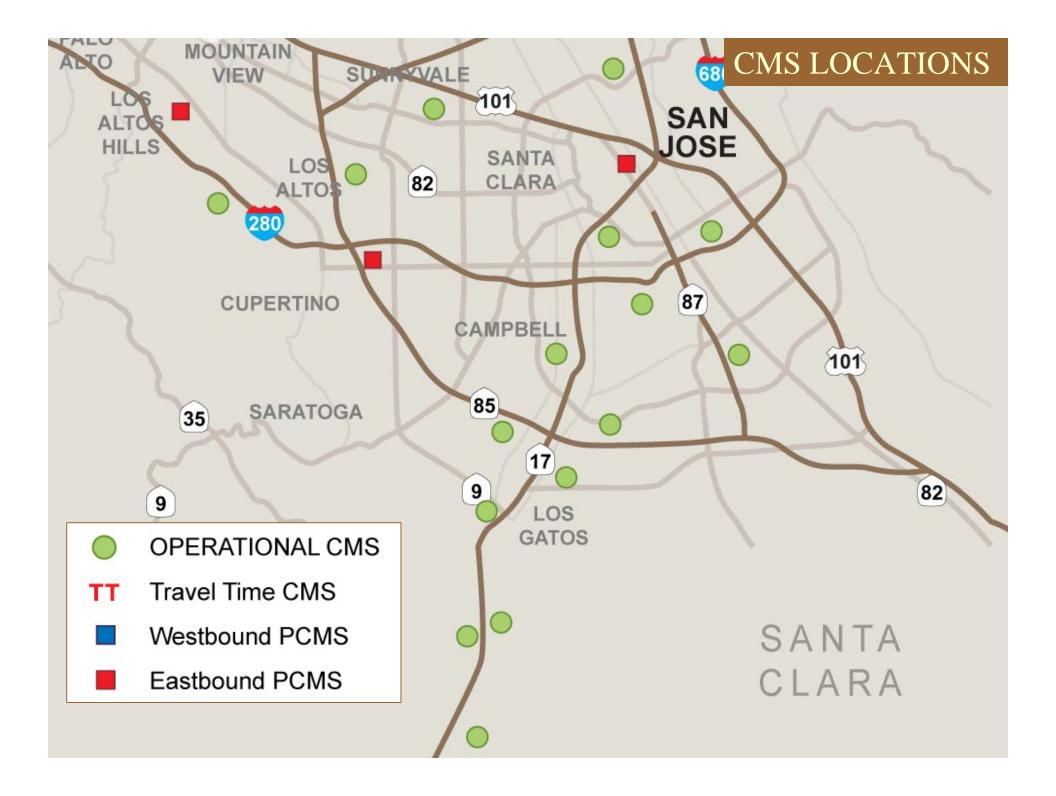


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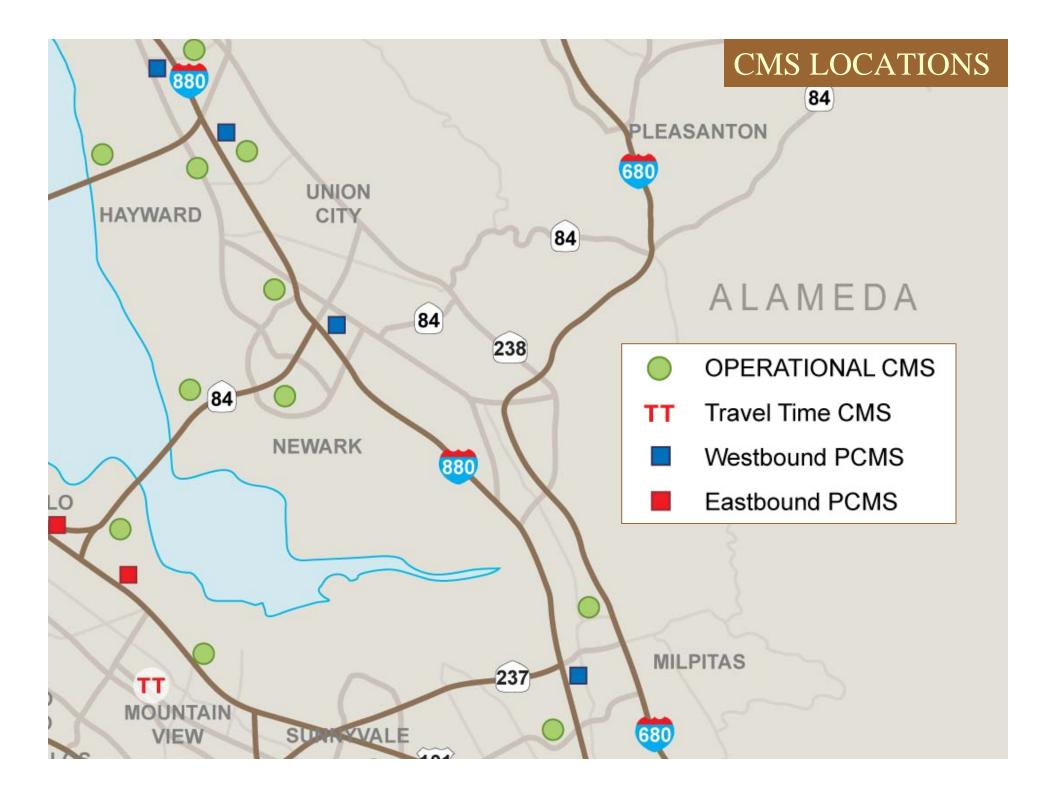
















Highway Advisory Radio (HAR)

- 2 to 5 Mile Range
- 1-minute message
- Deployment in San-Francisco-Oakland Bay Area (District 4) and Neighboring Districts (1, 3, 10)



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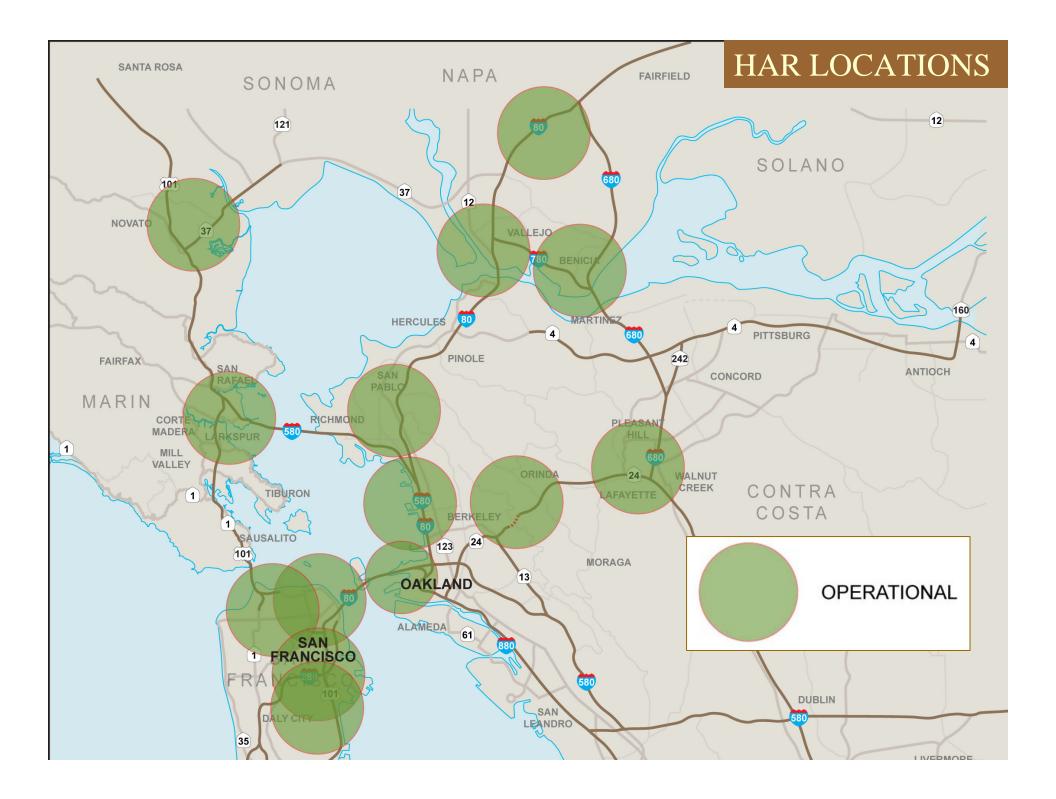




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Transportation Management



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Two Command Centers

 San Francisco SFgo Transportation Management Center
 SFOBB Command Center in Oakland



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Command Center Staffing

Caltrans

- Executive Management
- Transportation
 Management
- Highway Operations
- Construction
- Public Information

- Police Departments
- Traffic Control Entities (CHP, SF Department of Parking & Traffic, City of Oakland, etc.)
- Emergency Services
- MTC / Bay Area Toll Authority (BATA)

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Command Center Activities

- Real-time Traffic Detours Monitoring
- Near Real-time Traffic Impact Analysis
- Incident Monitoring
- Real-time Motorist Information
- Coordination & Information Exchange with Transportation Management Center (TMC)
- Daily Communication with Other Bridges on Detour Routes



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Traffic Detours Monitoring Traffic Volumes (via Vehicle Detector Stations)

- Eastbound
 - NB US-101 just north of Golden Gate Bridge
 - NB US-101 just south of Sir Francis Drake Blvd off ramp
 - EB SR-92 just west of San Mateo-Hayward Bridge
 - EB SR-84 just west of Dumbarton Bridge
- Westbound
 - SB US-101 just north of Golden Gate Bridge
 - SB US-101 just south of Sir Francis Drake Blvd on ramp
 - WB SR-92 near San Mateo-Hayward Bridge toll plaza
 - WB SR-84 near Dumbarton Bridge toll plaza



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Traffic Detours Monitoring Travel Time (via 511)

• Eastbound

- North detour: via NB US-101 @ Golden Gate
 Bridge toll plaza to EB I-580 to I-580/I-80 I/C
- South detour: via SB US-101 @ I-280 I/C to EB
 SR-92 to NB I-880 to I-880/I-238 I/C

• Westbound

 North detour: via NB I-580 @ I-80 I/C to WB I-580 to SB US-101 @ Golden Gate Bridge toll plaza

 South detour: via SB I-880 @ I-238 I/C to WB SR-92 to NB US-101 @ I-280 I/C



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Traffic Impact Analysis

- Based on detour routes monitoring results
 - Divert traffic from San Mateo-Hayward
 Bridge to Dumbarton Bridge
 - Advise EB SR-92 traffic to use alternate routes on surface streets
 - Advise NB US-101 traffic to use Bellam
 Blvd off ramp to EB I-580



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Incident Monitoring

• During the full bridge closure, TMC will:

- Review District-wide CHP / CAD incident logs
- Identify logs for incidents along the mainline detour routes that are impacting traffic (stalls, accidents, debris, etc.)
- Identify those that require action by Maintenance / field personnel
- Coordinate and exchange information with the SFOBB Command Center and media
- Activate / modify CMS / HAR messages
- Use 511 to update motorists of traffic conditions
- Issue Sigalerts as needed



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Incident Management Tools

- Closed Circuit Television Cameras (CCTVs)
- Construction Zone Enhanced Enforcement Program (COZEEP)
- Caltrans Bridge Tow Truck Service
- Freeway Service Patrol (FSP)
- Local Traffic Control



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Construction Strategies



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Construction Strategies

Experienced Contractors
Construction Staging
Continuous Construction Schedule Monitoring
Command Center for Information Update



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Contingency Plan

- Additional Construction Equipment on Standby (Construction Contingency Plan)
- Emergency Public Information and Media Outreach Plan
- Emergency Transportation Response Plan



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Demand Management



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Additional BART Service

 Enhanced Daytime Service During BART regular hours of operation All Night Service During the hours when BART does not normally operate Saturday 1 AM to 6 AM Sunday 1 AM to 8 AM Monday Holiday 1 AM to 6 AM – Hourly service to 14 stations



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Additional Ferry Service

- Alameda-Oakland Ferry

 Between Alameda, Oakland, and San Francisco
- Vallejo BayLink Ferry
 - Between Vallejo and San Francisco
 - Supplemental Vallejo Baylink 200 bus service



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Additional Ferry Service

Golden Gate Ferry

 Between Larkspur and San Francisco
 With added direct transit service (Route 42) between East Bay and the Golden Gate Larkspur Terminal
 Between Sausalito and San Francisco
 Between Larkspur and Sausalito
 New direct ferry service



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Alternate Route Strategies



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Alternate Route Strategies

- Additional Temporary Traffic Capacity on Alternate Routes
- Additional Toll Collectors at Other Bridges



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Temporary Additional Traffic Capacity
SB I-880 / WB SR-92 Ramp

Add a lane on the ramp
Use inside shoulder for WB SR-92 through traffic
Close Hesperian Blvd off ramp



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Post-Evaluation Study Summary of Changes to Scheduled **Events** Traffic Volumes Travel Time Delays Transit Ridership Operational Impacts Caused by Accidents Lessons Learned



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Special Thanks

• Toll Bridge Program Oversight Committee

- Will Kempton, Director, Caltrans
- Andre Boutros, Acting Executive Director, California Transportation Commission
- Steve Heminger, Executive Director, Metropolitan Transportation Commission/Bay Area Toll Authority

Project Management Team

- Tony Anziano, Toll Bridge Program Manager, Caltrans
- Brian Maroney, Toll Bridge Program Deputy Manager, Caltrans
- Stephen Maller, Deputy Director, California Transportation Commission
- Andrew Fremier, Deputy Executive Director, Metropolitan Transportation Commission/Bay Area Toll Authority
- Caltrans Project Manager, Ken Terpstra



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