

# Transportation Management Plan (TMP)

## Golden Gate Bridge Moveable Median Barrier Project

Prepared for the Golden Gate Bridge Highway and Transportation District

Federal Project Number STPL-6003(037)



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December 2014

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- Attachment A: Project Vicinity Map and Existing GGB Roadway Configurations
- Attachment B: Long-Term and Short-Term Stage Construction, Traffic Handling and Traffic Control Plans and Short-Term Construction Area Signs
- Attachment C: Lane and Ramp Closure and Damage Summary and Calculations
- Attachment D: Typical District Daily Lane Arrangement Schedule
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## List of Abbreviations

2N/4S – Two Northbound lanes/Four Southbound lanes  
 3N/3S – Three Northbound lanes/Three Southbound lanes  
 4N/2S – Four Northbound lanes/Two Southbound lanes  
 AC – Asphalt Concrete  
 AC Transit – Alameda-Contra Costa County Transit  
 ADT – Average Daily Traffic  
 AET – All Electronic Tolling  
 BART – Bay Area Rapid Transit  
 BATA – Bay Area Toll Authority  
 BTM – Barrier Transfer Machine  
 CAD – Computer Aided Dispatching  
 CHIN – Caltrans Highway Information Network  
 CHP – California Highway Patrol  
 CMS – Changeable Message Signs  
 COZEEP – Construction Zone Enhanced Enforcement Program  
 DD – Deputy Directive  
 District – Golden Gate Bridge Highway and Transportation District  
 DTM – District Traffic Manager  
 EMS – Emergency Medical Services  
 FHWA – Federal Highway Administration  
 FSP – Freeway Service Patrol  
 ft – feet  
 GGB – Golden Gate Bridge  
 HAR – Highway Advisory Radio  
 HMA – Hot Mix Asphalt  
 in – inch  
 MBGR – Metal Beam Guard Rail  
 MGS – Midwest Guard Rail System  
 MMB – Moveable Median Barrier  
 MRN – Marin  
 MTC – Metropolitan Transportation Commission  
 MUNI – San Francisco Municipal Railway  
 NB – northbound  
 PCMS – Portable Changeable Message Signs  
 PIO – Public Information Office  
 PM – Post Mile  
 RE – Resident Engineer  
 ROW – right-of-way  
 SB – southbound  
 SF – San Francisco  
 SFMTA – San Francisco Municipal Transportation Agency  
 SHS – State Highway System  
 TAM – Transportation Authority of Marin  
 TASAS – Traffic Accident Surveillance and Analysis System  
 TDM – Transportation Demand Management  
 TMC – Traffic Management Center  
 TMT – Traffic Management Team  
 TSP – Tow Service Patrols  
 TV – Television  
 UC – undercrossing  
 USCG – United States Coast Guard  
 vph – vehicles per hour  
 VTA – Santa Clara Valley Transportation Authority



## Executive Summary

This Transportation Management Plan (TMP) was prepared by AECOM with input from the California Department of Transportation (Caltrans) and The Golden Gate Bridge Highway and Transportation District (District) to assess work zones and summarize the process of minimizing traffic impacts and delays associated with the construction of the Golden Gate Bridge (GGB) Moveable Median Barrier (MMB) Project (herein referred to as the Project) on Route 101. This plan provides a framework for the implementation of traffic control mitigation strategies and distribution of traffic related information to local motorists, emergency services, and businesses.

Most of the proposed work for the Project is within the Route 101 and Golden Gate Bridge corridor, which is a six-lane facility that serves traffic between the City and County of San Francisco (SF) and Marin (MRN) County. Roadway lane and ramp closures will be required to accommodate Project construction activities. The proposed roadway lane and ramp closures are scheduled to prevent significant impacts to traffic operations across the Golden Gate Bridge. The following TMP strategies and components are utilized in this plan and will be implemented to mitigate any potential impacts during construction:

- Construction management focuses on the use of appropriate work windows, that ensure proposed detours and lane and ramp closures occur during periods of time with low traffic volumes, thereby reducing motorist delays and protecting worker and public safety.
- Public information outreach strategies are used to inform the public about construction activities and to provide an opportunity for the public to voice any concerns.
- Traveler information outreach, similar to public information outreach, consists of communication with the public regarding construction activities and allows motorists to adjust travel plans to allow for possible delays and/or detours around the construction work zone.
- Incident management focuses on quickly addressing incidents that occur as a result of the construction activities. Incident management strategies rely on real-time communication from the construction work zone to various stakeholders within the region.
- Traffic monitoring allows for adjustments to the construction schedule and work windows in order to offset any unforeseen results of construction activities that may cause significant traffic delays.
- Contingency planning also allows adjustments when congestion or delays exceed the original estimates. The contingency planning strategies establish a chain of command and list important contacts that are to be notified of incidents as they occur.
- Demand management strategies are intended to alleviate demand along the corridor by encouraging motorists to use other routes and/or other forms of transportation during the construction period in order to reduce the delays that they may encounter as a result of the ongoing construction activities.

## 1.0 Introduction

This Transportation Management Plan has been prepared in compliance with the Caltrans Deputy Directive (DD)-60 that requires TMPs to be prepared for all projects on the State Highway System (SHS). The purpose of this TMP is to provide a comprehensive strategy for minimizing traffic disruption, reducing motorist delays, and increasing the safe movement of vehicles through and around the construction area of the proposed Golden Gate Bridge Moveable Median Barrier without compromising public safety, worker safety, or the quality of work. This goal will be achieved through the effective application of traffic mitigation strategies, including:

- **Construction Management** – This strategy will focus on construction phasing and staging, detour routes, lane closure restrictions, off-peak work hours, and effective coordination among related projects within the vicinity that are expected to have overlapping schedules.
- **Public Information Outreach** – This strategy will focus on informing local agencies and the traveling public about construction activities and will encourage motorists to travel during off-peak periods, modify travel plans by using alternate routes, or allow for more time when passing through the work zones. Project information will be disseminated to local public officials, California Highway Patrol (CHP), sheriff, fire department, transit agencies, schools, and the general public using various media and resources as identified in Chapter 4.
- **Traveler Information Outreach** – This strategy will focus on providing construction and traffic condition information while drivers are en-route to their destination, with the goal of shifting traffic away from the work zone. Traveler information outreach will be disseminated through the use of Changeable Message Signs (CMS), static ground mounted signs, and Highway Advisory Radio (HAR).
- **Incident Management** – This strategy will focus on methods to quickly clear work zone collisions, stalls, excessive congestion, or other incidents through the use of tow services, field monitoring, and Construction Zone Enhanced Enforcement Program (COZEEP), a tool used to improve Project safety through the use of supplemental CHP Units to assist in the management of traffic passing through the work zone.
- **Traffic Monitoring** – The monitoring of traffic condition plays two roles. First and foremost, traffic conditions approaching and traveling through the work zone are monitored during periods of lane closures to detect excessive queuing and delay, crashes, and other problems which would trigger an early pick-up. Secondly, traffic monitoring is conducted periodically throughout Project construction to determine the effect of longer-term/extended closures and whether detour routes or management strategies should be modified.
- **Contingency Planning** – The contingency plan outlines specific actions that should be implemented to restore or minimize effects on traffic when congestion or delays exceed original estimates, or when other unanticipated problems arise. A contingency plan would be triggered due to work zone accidents, higher than estimated traffic demand, delayed work closures, or other unforeseen events that cause excess congestion or delay. The contingency plan provides a chain of command and list of important contacts to be notified in the event an early pick-up is triggered.
- **Demand Management** – Demand management strategies are aimed at alleviating traffic congestion through the management of travel characteristics. Demand management focuses on increasing transportation choices, encouraging the use of alternative forms of transportation or travel during off-peak times, trip reduction and carpooling programs.

In addition to outlining specific actions and traffic management strategies for use during construction, this TMP identifies when actions should be completed, agencies responsible for the completion of the actions and an evaluation of the appropriate construction work windows as well as a discussion of recommended mitigation measures to reduce potential traffic impacts.



## 2.0 Project Information

### 2.1 Project Background

Route 101 and the Golden Gate Bridge are the main transportation link between Marin County and the City and County of San Francisco. The GGB is a six-lane undivided highway administered by the District. The GGB spans 9,000 feet (ft) from the northern San Francisco peninsula to the south-facing Marin County headlands, near the town of Sausalito. The GGB is under the jurisdiction of the District and Route 101 is under the jurisdiction of Caltrans, District 4. Average Daily Traffic (ADT) volumes along this segment of the highway are currently in excess of 110,000 vehicles. As of March 27, 2013 the GGB is operating under an all-electronic tolling (AET) system that allows for continuous movement of traffic through the tollbooths.

The District currently reverses lanes with plastic-tubular pylons to increase the capacity of the GGB in the direction of peak traffic volumes. A MMB would enhance safety and reduce the potential for cross-over collisions on the GGB and its approaches by installing a physical barrier to replace the plastic-tubular pylons, which are currently used to delineate opposing directions of traffic on the GGB, and to transition traffic from the approach traffic lanes to the six GGB traffic lanes. The MMB system consists of a continuous chain of one meter long, steel-encased concrete barrier units that can be moved laterally across one lane of traffic at a time by a Barrier Transfer Machine (BTM). This system would provide a semi-rigid barrier between opposing traffic on the GGB while, at the same time, allowing the District the flexibility to reconfigure the lanes on the GGB to optimize traffic operations in each direction. A map of the Project vicinity is presented in **Attachment A1**.

### 2.2 Project Description

The District proposes to install a MMB on the 1.7 mile-long GGB and on the approach portion of Route 101, north of the GGB, for a total length of 11,500 feet. Construction activities will take place along the District and Caltrans right-of-way (ROW). The Project will modify the existing GGB Toll Plaza and replace the existing 19 inch high plastic-tubular pylon dividers (spaced every 25 ft) with a MMB system. A BTM will transition the MMB system between lanes to accommodate the variable traffic demands across the GGB.

To implement the MMB system, improvements at each end of the GGB are required to safely terminate the MMB and transition to the existing freeway geometry. In this installation, as typically occurs with these systems, the BTMs would be parked in the median of the freeway when not in use. The only periods when the BTMs would leave the freeway ROW would be for maintenance or fueling. At the northern approach segment on Route 101, the Project proposes to remove approximately 770 ft of existing concrete median barrier and construct a pavement section where the barrier is removed.

Due to the construction of the Presidio Parkway Project (Caltrans EA #1637U1), the MMB Project would be implemented in two contracts – a Short-Term Project and a Long-Term Project. The first contract (Short-Term Project) includes the majority of the work required for installation of the MMB. The Short-Term Project will terminate at a temporary MMB location north of the GGB Toll Plaza (within District right-of-way) and the final MMB location just south of the Sausalito Road undercrossing (UC) at the northern approach segment of Route 101. This contract is anticipated to be constructed prior to the completion of the Presidio Parkway Project. Construction activities for the first contract will require temporary lane closures on the GGB and on Route 101 within Caltrans ROW.

The MMB and BTM installation on the GGB and its approaches will involve the placement of the MMB on the roadway with the use of heavy construction equipment; in addition, the contractor will test the performance on the system along the GGB. To ensure the safety of both the public and construction workers a full closure of the GGB will be required. This closure will begin at midnight on January 9, 2015 and, is scheduled to end at 4:00 AM on January 12, 2015.

The second contract will take place after the Presidio Parkway Project is complete and will involve work within the District ROW. With the exception of pavement markings and installation of roadside signs, no work will be conducted within Caltrans ROW during the Long-Term Project construction. Under the Long-Term Project, the MMB will be extended south to terminate approximately 750 ft south of the tollbooths within the District ROW. Although no work will be conducted with the Caltrans ROW, construction activities for the second contract will require temporary lane closures within both the District and Caltrans ROW.

## 2.3 Historical Average Daily Traffic Volumes

A detailed analysis of annual average daily traffic volumes on the GGB obtained from the District was included as part of the *Traffic Report* (AECOM, 2014). Existing Conditions in the year 2012 were collected on the GGB and ramps within the evaluated area. The data included peak hour traffic volumes, heavy vehicle volumes, hourly volumes, and historical average daily traffic volumes.

Hourly weekday, Saturday, and Sunday traffic volumes are summarized in **Figure 1**. During the weekday AM peak hour (8:00 AM to 9:00 AM), the southbound traffic volume is approximately 5,200 vehicles per hour (vph) and northbound traffic volume is approximately 3,000 vph. The total traffic volume in both directions was approximately 8,400 vph. During the weekday PM peak hour (5:00 PM to 6:00 PM), the southbound traffic volume is approximately 4,500 vph and northbound traffic volume is approximately 5,150 vph. The total traffic volume in both directions was approximately 9,650 vph.

During the Saturday peak hour (4:00 PM to 5:00 PM), the southbound traffic volume is approximately 4,500 vph and northbound traffic volume is approximately 4,500 vph. The total traffic volume is approximately 9,000 vph and represents the maximum hourly traffic volume on the Golden Gate Bridge on a Saturday.

During the Sunday peak hour (4:00 PM to 5:00 PM), the southbound traffic volume is approximately 4,300 vph and northbound traffic volume is approximately 3,700 vph. The total traffic volume is approximately 8,000 vph and represents the maximum hourly traffic volume on the Golden Gate Bridge on a Sunday.

Annual daily traffic volumes were also obtained from the District. The average annual daily traffic volumes on the GGB from fiscal year 1980 to 2011 are shown in **Figure 2**. The highest average daily traffic volume on the Golden Gate Bridge was 120,276 daily vehicles, which occurred in the year between July 1 1989 and June 30 1990. Between 1980 and 1989 the average daily traffic volume on the GGB increased from 97,080 daily vehicles to 120,276 daily vehicles – an annual increase of 2.7 percent. Since 1989, the average daily traffic on the GGB has decreased from 120,276 daily vehicles to 110,113 daily vehicles – an annual decrease of 0.4 percent.

Figure 1: Existing (2012) Conditions Freeway Traffic Volumes

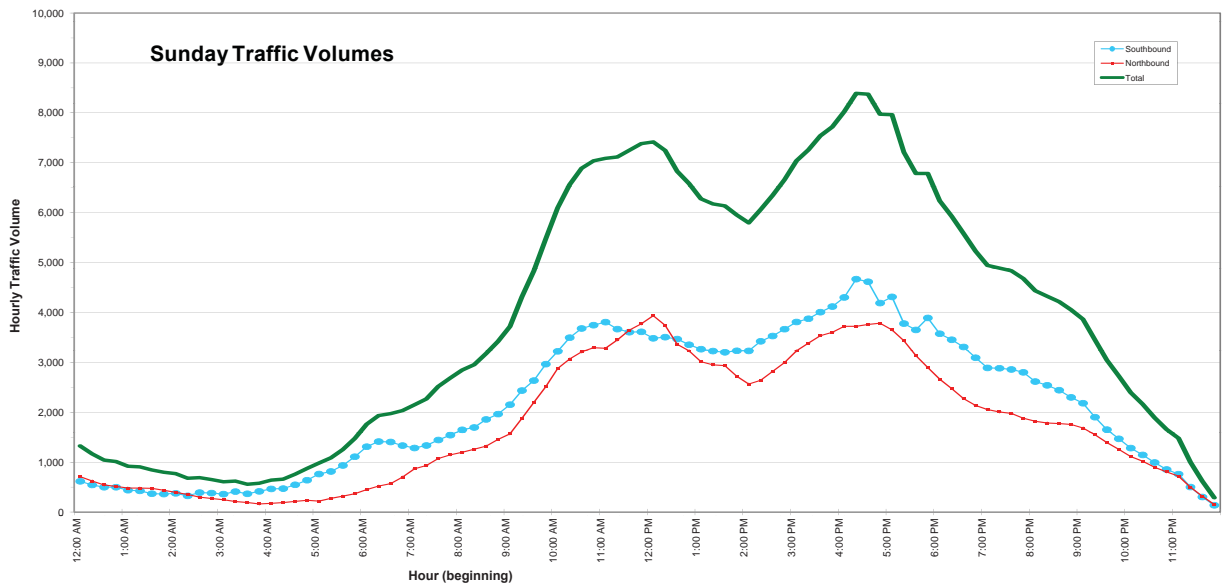
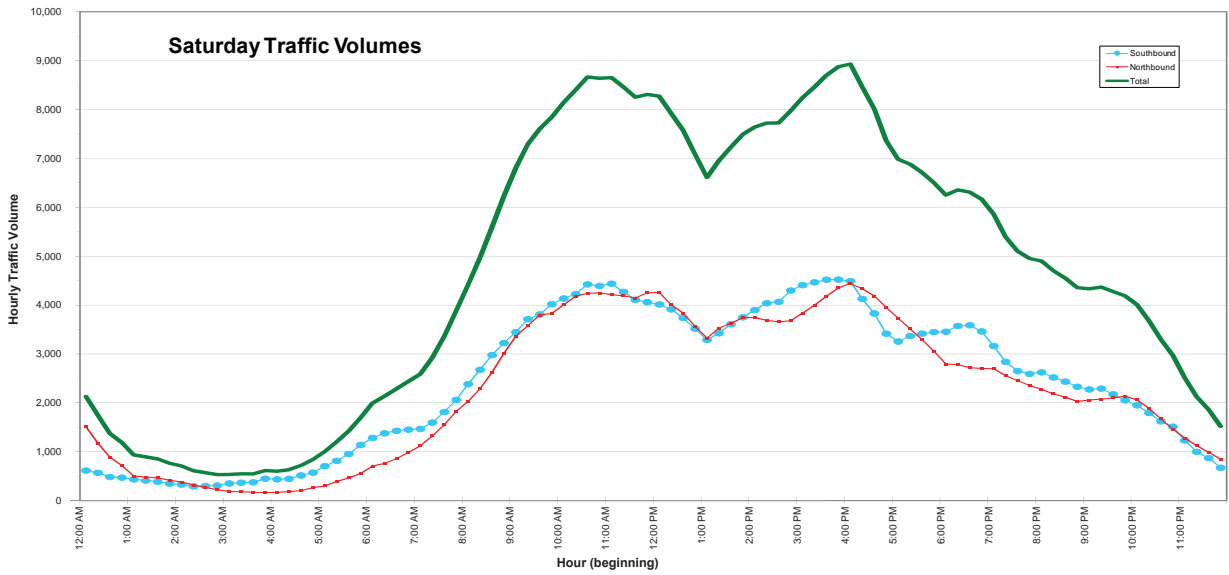
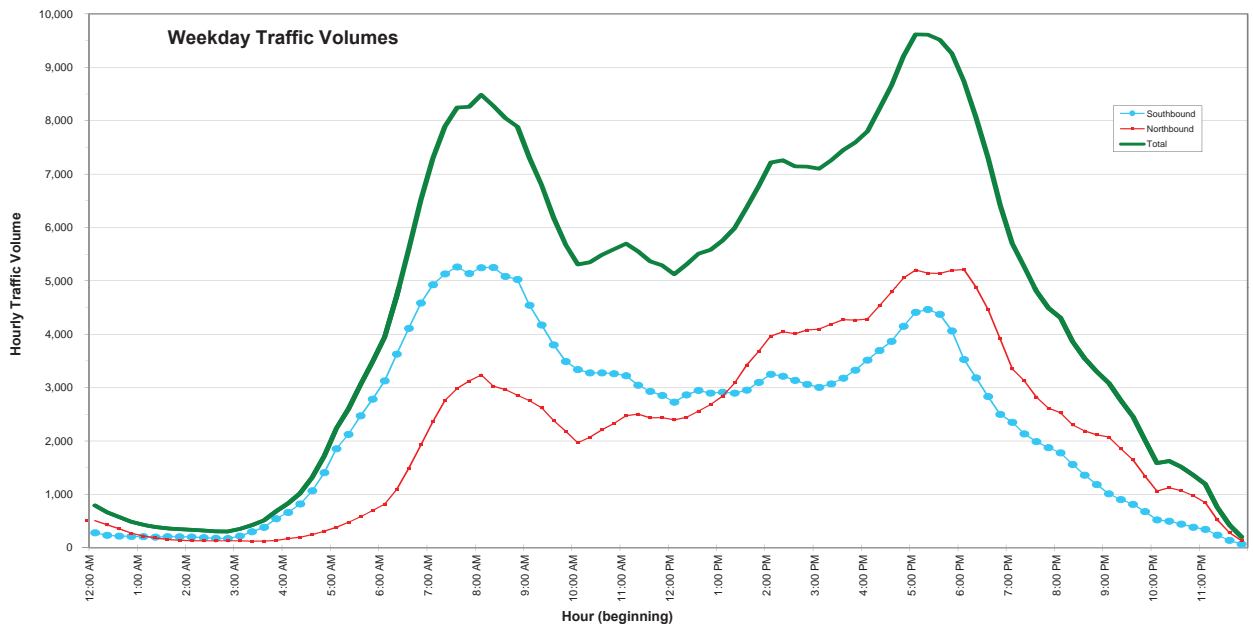
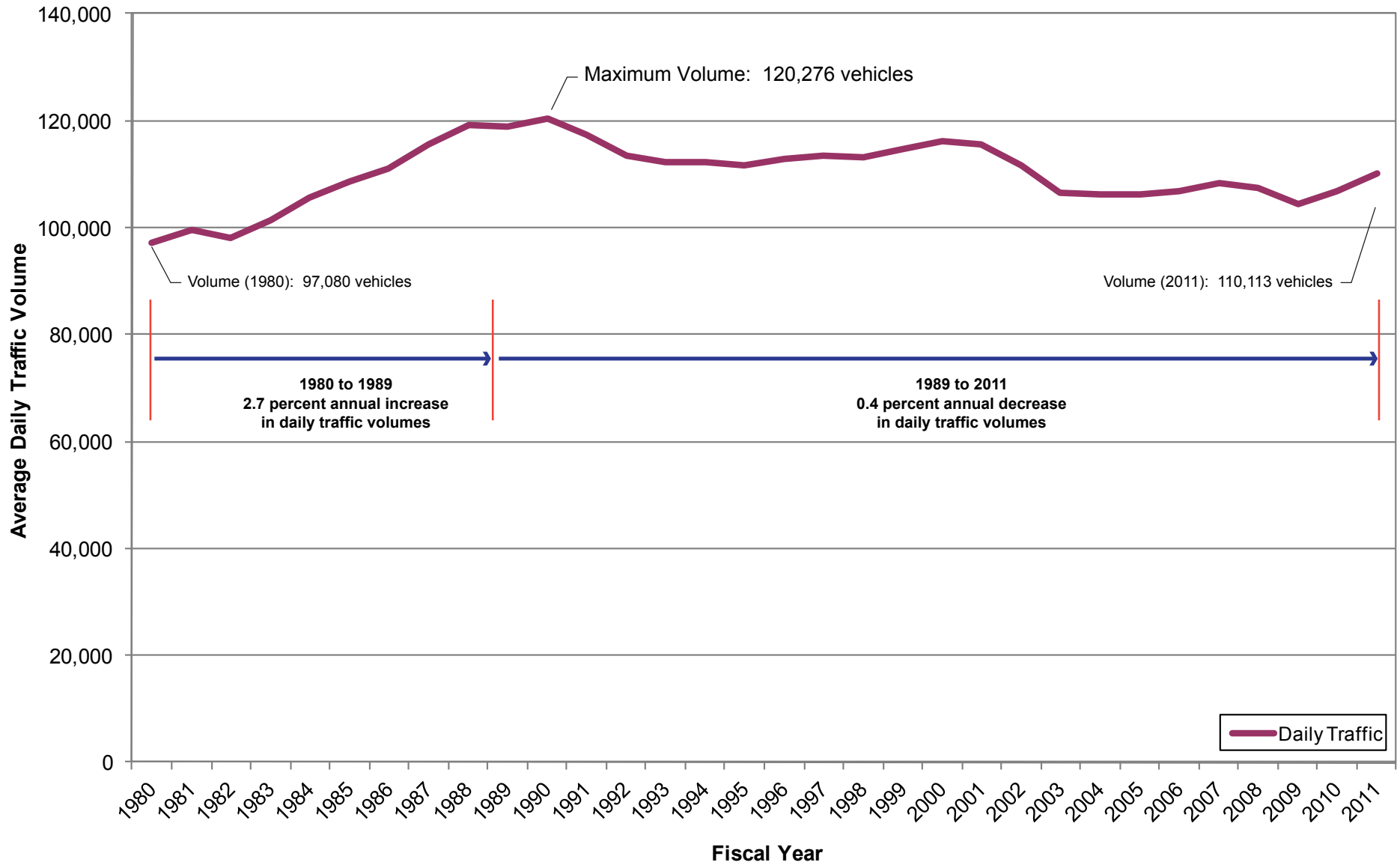


Figure 2: Historical Average Daily Traffic Volumes

## Average Daily Traffic Volumes

From 1980 to 2011

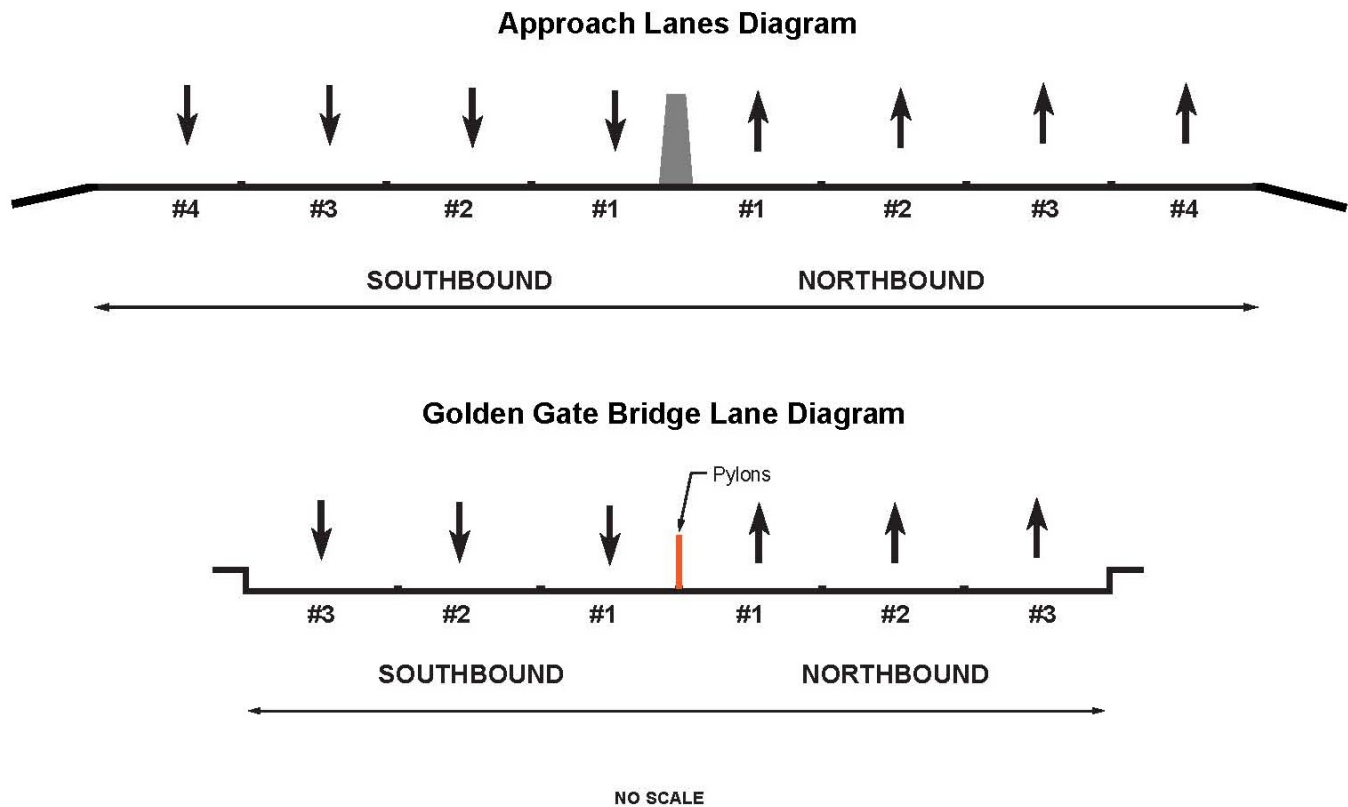


### 3.0 Construction Activities and Related Transportation Impacts

This section of the TMP addresses the construction activities and potential traffic impacts that may result from these activities. Work zone and traffic impacts vary for each of the four stages of construction. An assessment of the proposed stage construction and traffic handling plans is made in this TMP to determine the work zone and traffic impacts for each stage. Most lane closures are expected to take place during off-peak hours, with the exception of one 52-hour full freeway closure that will occur over the duration of one weekend. The closure is expected to begin on a Friday night at 12:00 PM (midnight) and end no later than the following Monday morning at 4:00 AM.

For the purposes of this TMP, a numbering scheme was developed to identify the eight lanes within the Project study area (on the GGB and on both the northern and southern approach). This lane numbering scheme is illustrated in **Figure 3**. The lane closest to the median (in both the northbound [NB] and southbound [SB] direction) is designated as Lane #1, the lane immediately adjacent (to the right of Lane #1) is designated as Lane #2, and so on.

Figure 3: Lane Diagrams



The following sub-sections describe the Project stage construction and traffic handling sequence requiring temporary closures and detours in each area that will be impacted. **Attachment B1** contains the detailed Construction Staging Plans, and **Attachment B2** and **B3** contain the Traffic Handling and Traffic Control Plans, respectively, for the Short-Term Project.

#### 3.1 Construction Activities

The Project requires two construction contracts: the first contract or Short-Term Project is anticipated to begin in June 2014 and end in late August 2014, the second contract or Long-Term Project, is anticipated to begin in early 2017. The first contract is anticipated to take 60 days to construct and the second contract is anticipated to take 30 days to construct.

Construction of the Project would occur in several stages with required improvements at each end of the GGB. At the northern approach of the GGB, during the Short-Term Project, a portion of the existing concrete median barrier on Route

101 will be removed to provide enough space for the MMB to terminate safely and store the BTM when not in use. Once completed, lane striping will be applied to the roadway.

Lane closure and ramp closure charts, identifying the number of lanes and/or ramps that must be open to accommodate existing traffic for each hour of the day to minimize delay when work activities are being conducted are included as **Attachment C1**. These charts restrict work hours so that traffic is not significantly impacted during periods of peak travel demand and congestion (i.e., peak traffic periods, which typically occur between 6:00 AM and 9:00 AM and 4:00 PM and 7:00 PM). Construction activities are required to be performed during off-peak periods, such as at night and on weekends, to minimize impacts to motorists.

### Construction Conditions

The lane requirements and lane closures prepared for the Project are consistent with the lane closure charts prepared for the Golden Gate Bridge Seismic Retrofit Project (Contract No. 2006-B-1) included in Special Provisions Section 10-1.10 “Maintaining Traffic”, of the *Seismic Golden Gate Bridge Seismic Retrofit Phase IIIA North Anchorage Housing/North Pylon in The City and County of San Francisco and Marin County California* (February 19, 2008).<sup>(i)</sup> These Lane closure charts identify work windows (i.e., time of day and day of week when construction activities could occur, when lanes may be closed, the number of lanes that may be closed). Lane closure charts are included as **Attachment C1**.

The lane closure charts/calculations determined that lane closures along the Project site could occur during the following hours:

Northbound:

- Weekdays from 10:00 AM to 2:00 PM.
- Monday to Thursday from 8:00 PM to 5:00 AM the following day.
- Friday from 9:00 PM to Saturday at 7:00 AM.

Southbound:

- Weekdays from 10:00 AM to 3:00 PM.
- Monday to Thursday from 8:00 PM to 5:00 AM the following day.
- Friday from 9:00 PM to Saturday at 7:00 AM.

Construction of the Toll Plaza consists of the demolition and replacement of the tollbooths and the re-striping of the roadway. Work will occur continuously for a minimum of one week. All work in the southern approach would occur within District ROW. The Toll Plaza will be reduced to five tollbooths during short periods of time (less than eight hours per occurrence). Construction would require that the GGB be reduced to six or seven lanes at the Toll Plaza for more than a one week period and to five lanes for short periods of time (less than eight hours per occurrence).

Stage Construction, Traffic Handling and Traffic Control plans are included as **Attachment B1** through **B3** for the Short-Term Project. The Construction Area Signs for the Short-Term Project are included as **Attachment B4** and serve as the detour plans. Stage Construction, Traffic Handling and Traffic Control plans are included as **Attachment B5** through **B7** for the Long-Term Project.

## 3.2 Construction Staging and Traffic Handling— Short-Term Project

Brief descriptions of each stage of construction and traffic handling for the short-term project are provided in **Table 1** and **Table 2**.

Table 1: Stage Construction—Short-Term Project

Southern Approach	GGB	Northern Approach
Stage 1S	Stage 1B	Stage 1N
<p>Remove existing striping and markers.</p> <p>Install temporary pylon mounting holes and temporary striping (paint) north of the toll plaza.</p> <p>Remove Toll Plaza canopy from Lanes #8 to #11.</p> <ol style="list-style-type: none"> <li>a. Remove Tollbooth #11. Remove concrete island and crash cushion at Tollbooth #11 and place temporary delineators in lieu of concrete island at Tollbooth #11 prior to opening lanes to traffic.</li> <li>b. Remove Tollbooth #10. Remove concrete island and crash cushion at Tollbooth #10 and place temporary delineators in lieu of concrete island at Tollbooth #10 prior to opening lanes to traffic.</li> <li>c. Remove Tollbooth #9. Remove concrete island and crash cushion at Tollbooth #9 and place temporary delineators in lieu of concrete island at Tollbooth #9 prior to opening lanes to traffic.</li> <li>d. Remove Tollbooth #8. Remove concrete island and crash cushion at Tollbooth #8 and place temporary (Type K) railing in Lane #9 and Lane #7 with temporary crash cushions prior to opening lanes to traffic.</li> </ol> <p>Place temporary railing (Type K) in Lane #7 and Lane #9 with temporary crash cushions.</p> <p>Install temporary traffic stripe (paint) and remove temporary delineators or pylons placed in a. or b. above and remove existing channelizers south of toll booth #10 and #11 prior to opening lanes to traffic.</p>	<p>Remove pavement markers.</p> <p>Install permanent lane striping from STA “G” 1000+00 to STA “G” 1076+40.79.</p> <p>Install BTM guide striping from STA “G” 1000+00 to STA “G” 1076+40.79.</p>	<p>Install temporary railing (Type K) and crash cushions.</p> <p>Remove portion of existing Metal Beam Guard Rail (MBGR) and Asphalt Concrete (AC) dike. Install Drainage System #1. Reconstruct removed MBGR and reconstruct removed AC dike.</p> <p>Install Midwest Guard Rail System (MGS) and Hot Mix Asphalt (HMA) dike.</p> <p>Remove temporary railing (Type K) and crash cushions.</p>

Southern Approach	GGB	Northern Approach
Remove toll booth, concrete island, and crash cushion at Tollbooth #8.		
Stage 2S	Stage 2B	Stage 2N
<p>Retrofit Tollbooth #7. Modify concrete island and replace crash cushions at Tollbooth #7.</p> <p>Construct foundation, island, columns, crash cushion and booth for new Lane #8.</p> <p>Construct canopy over new Lane #8.</p> <p>Install AET equipment on canopy over new lane #8 (by others). Install treadle across new lane #8 (by others).</p> <p>Replace crash cushions at Lanes #1 to #7.</p> <p>Replace existing concrete expansion joint and sealant.</p> <p>Repair concrete cracks at the Toll Plaza.</p>	Install Moveable Median Barrier (by others). This work will be coordinated with Stages 4S and 5N.	Remove median concrete barrier and crash cushion and replace with temporary railing (Type K) and temporary crash cushion.
Stage 3S	Stage 3B	Stage 3N
<p>Install BTM Guide striping.</p> <p>Install pylon mounting holes.</p>	Remove obsolete pylon holders and fill holes.	<p>Shift temporary railing (Type K) and temporary crash cushions to provide workspace during night time construction of drainage systems #3 and #4.</p> <p>Remove and modify drainage systems #3 and #4.</p> <p>Shift temporary railing (Type K) and temporary crash cushions at end of shift.</p>
Stage 4S		Stage 4N
<p>Install Moveable Median Barrier (by others). This work will be coordinated with Stages 2B and 5N.</p> <p>Remove existing striping and markers from STA "G" 980+24 to STA "G" 1000+00..</p> <p>Install permanent lane striping from STA "G" 984+24 to STA "G" 1000+00.</p> <p>Replace crash cushions at Tollbooth #1 to Tollbooth #6.</p> <p>Install Concrete Barrier (Type K).</p> <p>Remove temporary railing (Type K), temporary crash cushions and channelizers south of Tollbooth #8 and Tollbooth #9.</p>		<p>Remove median pavement. Construct roadway pavement. Shift temporary railing (Type K) and temporary crash cushions to provide workspace during pavement excavation and weekend construction work.</p> <p>Shift temporary railing (Type K) and temporary crash cushions at end of weekend construction to clear travel lanes.</p> <p>Install BTM guide striping from STA "G" 1076+41 to STA "G" 1083+44.</p> <p>Install temporary BTM guide striping from STA "G" 1083+44 to STA "G" 1096+55.</p>



Southern Approach	GGB	Northern Approach
<p><b>Stage 5S</b></p> <p>Complete toll booth and canopy retrofit.</p> <p>Retrofit a section of the administrative building.</p> <p>Remove obsolete pylon holders and fill holes.</p>		<p><b>Stage 5N</b></p>
		<p>Install Moveable Median Barrier (by others). This work will be coordinated with Stages 3S and 2B.</p> <p>Remove temporary railing (Type K) and crash cushions.</p> <p>Remove existing striping and pavement markers.</p> <p>Install temporary striping (paint) from STA "G" 1083+44 to STA "G" 1098+46.65.</p> <p>Install permanent striping from STA "G" 1076+40.79 to STA "G" 1083+44</p>
		<p><b>Stage 6N</b></p> <p>Remove obsolete pylon holders and fill holes.</p> <p>Cold plane AC pavement and place HMA overlay along mainline from STA "G" 1083+44 to STA "G" 1098+47 and at NB Sausalito Lateral off-ramp and bus pull-off area.</p> <p>Install temporary stripe (paint) from STA "G" 1083+44 to STA "G" 1098+47.</p> <p>Install temporary BTM guide stripe (paint) from STA "G" 1083+44 to STA "G" 1096+55.</p>
		<p><b>Stage 7N</b></p> <p>Remove temporary stripe (paint) and temporary BTM guide strip (paint).</p> <p>Install permanent stripe along mainline and ramps from STA "G" 1083+44 to STA "G" 1098+47 and NB Sausalito Lateral off-ramp bus pull off area.</p> <p>Install permanent BTM guide stripe from STA "G" 1083+44 to STA "G" 1096+55.</p>

Source: AECOM, 2014

Table 2: Traffic Handling Stage Description—Short-Term Project

Southern Approach	GGB	Northern Approach
<b>Stage 1S</b>	<b>Stage 1B</b>	<b>Stage 1N</b>
<p>Close SB toll Lanes #7, #8, #9 and #10 during both construction and non-construction hours.</p> <p>NB toll Lanes #11 to remain open during non-construction hours.</p>	<p>All NB and SB lanes to remain open during non-construction hours.</p>	<p>Close NB outer shoulder between the Vista point on-ramp and the Sausalito Lateral off-ramp during both construction and non-construction hours.</p> <p>Close SB outer Shoulder between STA 1086 +00 and STA 1084 +41.56 during both construction and non-construction hours.</p> <p>NB auxiliary lane and SB Lane #4 to remain open during both construction and non-construction hours, except during the installation of temporary railing (Type K) and crash cushions.</p> <p>Close NB Vista Point on-ramp and off-ramp, NB Sausalito Lateral off-ramp during the cold plane AC Pavement and HMA overlay.</p>
<b>Stage 2S</b>	<b>Stage 2B</b>	<b>Stage 2N</b>
<p>Close SB toll Lanes #7, #8 #9 and #10 during both construction and non-construction hours.</p> <p>NB toll Lanes #11 to remain open during non-construction hours.</p> <p>All NB and SB lanes to remain open during non-construction hours.</p>	<p>This stage will occur simultaneously with the weekend closure of the GGB.</p> <p>All lanes on the GGB will be closed to traffic.</p>	<p>Close NB inner shoulder between Vista Point on-ramp and Sausalito Road Undercrossing during both construction and non-construction hours.</p> <p>Close SB inner shoulder between Vista Point on-ramp and Sausalito Road Undercrossing during both construction and non-construction hours.</p>
	<b>Stage 3B</b>	<b>Stage 3N</b>
	<p>All NB and SB lanes to remain open during non-construction hours.</p>	<p>Close NB inner shoulder between Vista Point on-ramp and Sausalito Road Undercrossing during both construction and non-construction hours.</p> <p>Close SB inner shoulder between Vista Point on-ramp and Sausalito Road Undercrossing during both construction and non-construction hours.</p>
<b>Stage 4S</b>		<b>Stage 4N</b>
<p>This stage will occur simultaneously with the weekend closure of the GGB.</p>		<p>Close NB inner shoulder between NB Vista Point on-ramp and Sausalito Road Undercrossing during both construction and non-construction hours.</p> <p>Close SB inner shoulder between Vista Point on-ramp and Sausalito Road Undercrossing during both construction and non-construction hours.</p>

Southern Approach	GGB	Northern Approach
		<p style="text-align: center;"><b>Stage 5N</b></p>
		<p>This stage will occur simultaneously with the weekend closure of the GGB.</p>
		<p style="text-align: center;"><b>Stage 6N</b></p>
		<p>All NB and SB lanes to remain open during non-construction hours.</p>
		<p style="text-align: center;"><b>Stage 7N</b></p>
		<p>All NB and SB lanes to remain open during non-construction hours.</p>

Source: AECOM, 2014.

**3.2.1 Short-Term Project – Southern Approach**

**Stage 1S**

Stage 1S construction activities at the southern approach include the removal of existing striping and markers, the installation of temporary pylon mounting holes, and temporary striping (paint) north of the Toll Plaza. As well as the removal of the Toll Plaza canopy from Lanes #8 through #11. In addition the islands, crash cushions and booths in Lanes #8, #10 and #11 will be demolished. Prior to opening the lanes to traffic temporary delineators will be placed in lieu of the concrete island at the tollbooths and (Type K) temporary railing and crash cushions will be installed in Lane #9 and Lane #7.

Additionally, Stage 1S construction activities will include the placement of temporary (Type K) railing on Lane #7 and Lane #9. The installation of temporary traffic striping (paint) and the removal of temporary delineators or pylons placed during removal of either Tollbooth #11 and or Tollbooth #10, and removal of existing channelizers south of Tollbooth #10 and Tollbooth #11 prior to opening these lanes to traffic.

During Stage 1S construction on the southern approach, the NB toll Lane #11 will remain open during non-construction hours, and the SB toll Lanes #7, #8, #9and #10 will be closed during both construction and non-construction hours.

**Stage 2S**

Construction activities at the southern approach during Stage 2S consist of retrofitting Tollbooth #7, and the modification of a concrete island and crash cushions at Tollbooth #7. Additionally, construction activities will include the construction of the foundation, island, columns, crash cushions and a booth for a new lane, Lane #8. A new canopy will be constructed over the new Lane #8 and AET equipment will be installed over the new canopy. Additionally, treadle will be installed (by others) across Lane #8. There will be replacement of the crash cushions at Lanes #1 to #7. In addition, there will be replacement of existing concrete expansion joint and sealant, and repair of concrete cracks at the Toll Plaza.

During Stage 2S construction on the southern approach, the NB toll Lanes #10 and #11 will remain open during non-construction hours, and the SB toll Lanes #7, #8 and #9 will be closed during both construction and non-construction hours. All NB and SB lanes on the southern approach and on the GGB will remain open during non-construction hours.

**Stage 3S**

At the southern approach construction activities include the installation of the BTM striping guide. Construction activities will also include the installation of pylon mounting.

All NB and SB lanes on the southern approach, GGB and northern approach will remain open during non-construction hours.

**Stage 4S**

The MMB will be installed at the southern approach during this stage, and the work will be coordinated with Stage 2B and Stage 5N.

During Stage 4S construction activities at the southern approach include, the removal of existing striping and markers from STA "G" 980+00 to STA "G" 1000+00, and installation of permanent lane striping from STA "G" 984+24 to STA "G" 1000+00. Activities will also include the replacement of crash cushions at Tollbooth #1 through Tollbooth #6, and removal of temporary (Type K) railing, temporary crash cushions and temporary delineators in Lane #7 and Lane #9. Additionally, this will be followed by the installation of a Concrete Barrier (Type K).

Construction activities during this stage will occur during the weekend closure of the Golden Gate Bridge. See Section 3.2.1 for discussion of traffic handling elements during the weekend closure of the Golden Gate Bridge.

**3.2.2 Short-Term Project – Golden Gate Bridge****Stage 1B**

Stage 1B construction activities at the Golden Gate Bridge include removal of the pavement markers and the installation of permanent lane striping and BTM guide striping from STA "G" 1000+00 to STA "G" 1076+40.79. All NB and SB lanes on the GGB will remain open during non-construction hours. During this stage, pedestrian access on the East Sidewalk will be maintained; similarly, bicycle access on both the east and west sidewalks will be maintained.

**Stage 2B**

During Stage 2B construction activities along the GGB will consist of the installation of the moveable median barrier, this stage will be coordinated with Stage 4S and Stage 5N.

Construction activities during this stage will occur during the weekend closure of the Golden Gate Bridge. See Section 3.2.1 for discussion of traffic handling elements during Golden Gate Bridge Weekend Closure.

**Stage 3B**

At the GGB construction activities will consist of the removal of obsolete pylon holders and filling of the pylon holes. All NB and SB lanes on the GGB, southern and northern approaches will remain open during non-construction hours. During this stage, pedestrian access on the East Sidewalk will be maintained; similarly, bicycle access on both the east and west sidewalks will be maintained.

**3.2.3 Short-Term Project – Northern Approach****Stage 1N**

Stage 1N construction activities at the northern approach include the installation of temporary (Type K) railing and crash cushions and the removal of the existing metal beam guard rail and asphalt concrete dike barrier. This will be followed by construction of Drainage System #1 and replacement of the removed MBGR and reconstruction of the removed AC dike. Additionally, during this stage the temporary (Type K) railing and crash cushions will be removed.

During Stage 1N construction activities, the NB outer shoulder between the Vista Point on-ramp and the Sausalito Lateral off-ramp will be closed during both construction and non-construction hours. The SB outer shoulder between STA 1086+00 and STA 1084+41.56 will be closed during construction and non-construction hours. The NB auxiliary lane will remain open during both construction and non-construction hours. All NB and SB lanes on the GGB will remain open during non-construction hours. Additionally, the Vista Point/NB Sausalito Lateral off-ramp bicycle path and bus pull-out bus area will remain open. NB Vista Point on- and off-ramps, NB Sausalito Lateral off-ramp and SB Sausalito Lateral on-ramp will be closed during installation of temporary railing (Type K) and crash cushions.

**Stage 2N**

Stage 2N construction activities at the northern approach consist of the removal of the median concrete barrier and crash cushion with temporary (Type K) railing and temporary crash cushions.

During Stage 2N construction activities, the NB and SB inner shoulders between the NB Vista Point on-ramp and Sausalito Road Undercrossing will be closed during both construction and non-construction hours. All NB and SB lanes on the GGB will remain open during non-construction hours. Additionally, the Vista Point/NB Sausalito Lateral off-ramp bicycle path and bus pull-out bus area will remain open.

**Stage 3N**

Stage 3N construction activities at the northern approach will involve shifting the temporary (Type K) railing and crash cushions in order to provide workspace for Drainage Systems #3 and #4 night-time work, as well as the removal and modification of drainage systems #3 and #4.

During Stage 3N construction activities, the NB and SB inner shoulders between the Vista Point on-ramp and Sausalito Road Undercrossing will be closed during both construction and non-construction hours. All NB and SB lanes on the GGB will remain open during non-construction hours. Additionally, the Vista Point/NB Sausalito Lateral off-ramp bicycle path and bus pull-out bus area will remain open.

**Stage 4N**

During Stage 4N construction activities at the northern approach will include the removal of the median pavement, construction of roadway pavement, and shifting the temporary (Type K) railing and temporary crash cushions to provide workspace during the pavement excavation and weekend construction work. At the end of the weekend construction work, there will be shifting of the temporary (Type K) railing and crash cushions in order to remove temporary (Type K) railing and crash cushions from travel lanes. During this stage construction work will also include the installation of BTM guide striping from STA "G" 1076+41 to STA "G" 1083+44 and temporary BTM guide striping from STA "G" 1083+44 to STA "G" 1096+55

During Stage 4N construction activities, the NB and SB inner shoulders between the Vista Point on-ramp and Sausalito Road Undercrossing will be closed during both construction and non-construction hours. All NB and SB lanes on the GGB will remain open during non-construction hours. Additionally, the Vista Point/NB Sausalito Lateral off-ramp bicycle path and bus pull-out bus area will remain open.

**Stage 5N**

The MMB will be installed at the northern approach during this stage, and the work will be coordinated with Stage 4S and Stage 2B.

Stage 5N construction activities at the northern approach, will include the removal of temporary (Type K) railing and existing striping and pavement markers, and the installation of temporary striping from STA "G" 1083+44 to STA "G" 1098+46.65, the installation of permanent striping from STA G 1076+40.79 to STA "G" 1083+44.

Construction activities during this stage will occur during the weekend closure of the Golden Gate Bridge. See Section 3.2.1 for discussion of traffic handling elements during Golden Gate Bridge Weekend Closure. Additionally the NB Sausalito Lateral off-ramp bike path and bus pull-out area will be closed during this stage. Bicycles and pedestrians may travel to Conzelman Road through Fort Baker to East Road.

**Stage 6N**

Construction activities at the northern approach during this stage will involve the removal of obsolete pylon holders and filling of the pylon holes. There will be a cold plan AC pavement and placement of HMA overlay along the mainline from STA "G" 1083+44 to STA "G" 1098+47 and at the NB Sausalito Lateral off-ramp and bus pull-off area. Additionally this stage will involve the installation of temporary striping from STA "G" 1083+44 to STA "G" 1098+47, and the installation of temporary BTM guide Striping from STA "G" 1083+44 to STA "G" 1096+55.

During Stage 6N construction activities, all NB and SB lanes on the GGB and the northern and southern approaches will remain open during non-construction hours. Additionally, the Vista Point/NB Sausalito Lateral off-ramp bicycle path and bus pull-out bus area will remain open. The Vista Point on- and off-ramps, NB Sausalito Lateral off-ramp, and SB Sausalito Lateral on-ramp will be closed as needed during construction hours. Vehicles will be detoured to the Spencer Avenue Interchange.

**Stage 7N**

Construction activities during this stage will involve the removal of temporary striping and the installation of permanent striping along mainline ramps from STA "G" 1083+44 to STA "G" 1098+47 and the NB Sausalito Lateral off-ramp bus pull off area. Additionally this stage will involve the installation of permanent BTM guide striping from STA "G" 1083+44 to STA "G" 1096+55.

During Stage 7N construction activities, all NB and SB lanes on the GGB and the northern and southern approaches will remain open during non-construction hours. Additionally, the Vista Point/NB Sausalito Lateral off-ramp bicycle path and bus pull-out bus area will remain open. The Vista Point on- and off-ramps, NB Sausalito Lateral off-ramp, and SB Sausalito Lateral on-ramp will be closed as needed during construction hours. Vehicles will be detoured to the Spencer Avenue Interchange.

**3.2.4 Traffic Handling— Golden Gate Bridge Weekend Closure**

Construction activities along the GGB will require a complete closure of the Golden Gate Bridge to all traffic in both the northbound and southbound directions to facilitate the safe installation and testing of the MMB. The closure will occur during a weekend and will last for a period of no longer than 52 hours, beginning on Friday at midnight and ending no later than Monday at 4:00 AM. Detailed traffic handling plans for the weekend closure of the Golden Gate Bridge are included as part of **Attachment B2**. The weekend closure of the Golden Gate Bridge will occur during Stages 3S, 2B and 5N of the short-term project. Brief descriptions of the traffic handling for the weekend closure of the GGB are provided in **Table 3**.

Table 3: Traffic Handling– Golden Gate Bridge Weekend Closure

Southern Approach- Stage 4S	GGB – Stage 2B	Northern Approach- Stage 5N
<p>Close all lanes on NB Route 101 from Marina Blvd to the GGB. Provide flaggers to allow buses and authorized vehicles to enter closure.</p> <p>All lanes on SB Route 101 south of Merchant Rd to remain open.</p> <p>Close SB Route 101 left-turn lanes at Route 101/Marina Blvd intersection. Provide flaggers to allow buses and authorized vehicles to enter closure.</p> <p>Close EB Marina Blvd left-turn lane at Route 101/Marina Blvd intersection. Provide flaggers to allow buses and authorized vehicles to enter closure.</p> <p>Close all lanes on NB Route 1(Park Presidio Blvd) from Lake Street to Route 101. Provide flaggers to allow buses and authorized vehicles to enter closure.</p> <p>All lanes on SB Route 1 south of Route 101 open to traffic.</p> <p>Close NB GGB Merchant Rd on and off-ramps to traffic. Provide flaggers to allow buses and authorized vehicles to enter closure.</p> <p>Close SB GGB Merchant Rd off-ramp to traffic.</p> <p>SB GGB Merchant Rd on-ramp open to traffic.</p>	<p>Close All NB and SB lanes.</p> <p>Provide flaggers to allow buses and authorized vehicles to enter closure.</p>	<p>Close all lanes on SB Route 101 to traffic from the GGB to Donahue Street (Marin City / Sausalito Exit).</p> <p>Close all lanes on NB Route 101 to traffic from the GGB to the NB Sausalito Lateral on-ramp.</p> <p>Close NB Vista Point on and off-ramps to traffic.</p> <p>Close NB Sausalito Lateral on and off-ramps to traffic.</p> <p>Close SB Sausalito Lateral on and off-ramps to traffic.</p> <p>NB Sausalito Lateral on-ramp open to traffic.</p> <p>Close SB Spencer Avenue on-ramp to traffic.</p> <p>Close SB Rodeo Avenue on-ramp to traffic.</p> <p>Close SB Donahue Street (Marin City Exit) on-ramp to traffic.</p> <p>Close EB Donahue Street left-turn lane onto Route 101SB on-ramp to traffic.</p> <p>NB Sausalito Lateral off-ramp bike path will be open to bicycle traffic.</p>

Source: AECOM, 2014.

### Southern Approach

At the southern approach, all lanes on NB Route 101 will be closed to traffic from Marina Blvd to the GGB. All lanes on SB Route 101, south of Merchant road, will remain open to traffic. SB Route 101 left-turn lanes to Marina Blvd will be closed. The EB Marina Blvd left-turn lane to SB Route 101 (Richardson Ave) will be closed to traffic. All lanes on NB Route 1 (Park Presidio Blvd) from Lake Street to Route 101 will be closed to traffic. All lanes on SB route 1 south of Route 101 will be open to traffic. NB GGB Merchant Road on and off-ramps will be closed to traffic. SB Merchant Road off-ramp will be closed to traffic. SB GGB Merchant Road on-ramp will be open to traffic. Flaggers will be provided during this stage to allow buses and authorized vehicles to enter closed roadways.

### Golden Gate Bridge

At the GGB, all NB and SB lanes will be closed to traffic. Pedestrian access on the East Sidewalk will be maintained; similarly, bicycle access on both the East and West Sidewalks will be maintained. Flaggers will be provided during this stage to allow buses and authorized vehicles to enter closed lanes on the GGB.

### Northern Approach

At the northern approach, all lanes on SB Route 101 will be closed to traffic between the GGB and Donahue Street (Marin City / Sausalito Exit). All lanes on NB Route 101 will be closed between the GGB and the NB Sausalito Lateral on-ramp. NB Vista Point on and off-ramps will be closed to traffic. SB Sausalito Lateral on and off-ramps will be closed to traffic. NB Sausalito Lateral on and off-ramps will be closed to traffic. SB Spencer Avenue on-ramp, SB Rodeo Avenue on-ramp and SB Donahue Street (Marin City Exit) will be closed to traffic.

Pedestrian access on the East Sidewalk will be maintained; similarly, bicycle access on both the East and West Sidewalks will be maintained. The eastern bicycle path between the Vista Point and Alexander Avenue will remain open to bicycle traffic.

## 3.3 Construction Staging and Traffic Handling— Long-Term Project

Brief descriptions of each stage of construction and traffic handling for the Long-Term Project are provided in **Table 4** and **Table 5**.

**Table 4: Stage Construction— Long-Term Project**

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### Southern approach

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#### Stage 1

Install concrete barrier

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#### Stage 2

Remove existing striping and markers

Remove pylon mounting holes

Install pylon mounting holes

Install traffic striping

Install BTM guide striping

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#### Stage 3

Realign existing MMB

Install MMB and connect to existing

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Source: AECOM, 2014.

Table 5: Traffic Handling Stage Description— Long-Term Project

Southern approach
<b>Stage 1</b>
All NB and SB lanes to remain open during both construction and non-construction hours
<b>Stage 2</b>
All NB and SB lanes to remain open during non-construction hours
<b>Stage 3</b>
All NB and SB lanes to remain open during non-construction hours

Source: AECOM, 2014.

### Stage 1

During Stage 1 construction activities, a concrete barrier will be installed on the southern approach. In the NB direction on the mainline Lane#1 will be merged with Lane #2.

There will be no construction activities on the GGB and all NB and SB lanes on both the GGB and on the northern approach will remain open during both construction and non-construction hours.

### Stage 2

Stage 2 construction activities at the southern approach include the removal of existing striping and pavement markers and pylon mounting holes within the District ROW. Additionally, it includes the installation of pylon mounting holes, traffic striping and BTM guide striping.

During Stage 2, there will be no construction activity on the GGB all NB and SB lanes on the GGB, southern and northern approach will remain open during non-construction hours.

### Stage 3

At the southern approach, Stage 3 construction activities include the realignment of the existing MMB and the installation of the new MMB. During Stage 3 construction activities all NB and SB lanes on the GGB and southern will remain open during non-construction hours.

## 3.4 Transportation Impacts— Short-Term Project

With the exception of the weekend closure of the GGB, all NB and SB lanes at the southern and northern approach as well as at the GGB, will be open to traffic during all stages of construction. The lane closure and damage calculations presented in **Attachment C2** determined that this closure would only have a significant impact during the following time periods:

Northbound direction:

- Monday – Thursday from 5:00 PM to 7:00 PM
- Friday from 2:00 PM to 3:00 PM, and from 5:00 PM to 6:00 PM

Southbound direction:

- Monday – Thursday from 7:00 AM to 9:00 AM

However, there will be no lane closures during these time periods. All construction work will be conducted during the identified work windows, as presented in Section 3.1, (i.e., late at night, during the early morning hours and on weekends when traffic demands on the GGB are at a minimum). Lane closures will be temporary. Detailed lane closure charts are provided as **Attachment C1**.

The following are the traffic control plans for various stages of construction on the GGB, northern and southern approach. Detailed Traffic Control plans and Construction Area Sign plans that include detour plans are provided as **Attachment B3** and **B4** respectively.

### 3.4.1 Southern Approach

#### Stage 1S



During Stage 1S construction activities, on the southern approach the SB toll Lanes #7, #8 and #9 will be closed during both construction and non-construction hours. These toll lane closures are not expected to cause significant traffic delays.

All NB and SB lanes on the GGB will remain open during this stage of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

#### **Stage 2S**

During Stage 2S construction activities, all lanes on the southern approach and on the GGB will remain open to traffic during non-construction hours and as such, no significant traffic impacts are expected to occur. Additionally, the SB toll Lanes #7, #8 and #9 will be closed during both construction and non-construction hours. These toll lane closures are not expected to cause significant traffic delays.

#### **Stage 3S**

See Section 3.4.1 for discussion of transportation impacts during this stage.

#### **Stage 4S**

During Stage 4S construction activities, all lanes on the southern approach and on the GGB will remain open to traffic during non-construction hours and as such, no significant traffic impacts are expected to occur.

### **3.4.2 Golden Gate Bridge**

#### **Stage 1B**

All NB and SB lanes on the GGB will remain open during this stage of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

#### **Stage 2B**

See Section 3.4.1 for discussion of transportation impacts during this stage.

#### **Stage 3B**

All NB and SB lanes on the GGB will remain open during this stage of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

### **3.4.3 Northern Approach**

#### **Stage 1N**

During Stage 1N construction activities, at the northern approach, the NB auxiliary lane shoulder and SB outer shoulder between the Marin Abutment and SB Sausalito Lateral off-ramp will be closed during construction and non-construction hours. This closure will not affect any of the traffic lanes and will not reduce roadway capacity in either direction; as a result no significant traffic impacts are expected to occur.

The NB Vista Point on- and off-ramps, NB Sausalito Lateral off-ramp and the SB Sausalito Lateral on-ramp will be closed during the installation of temporary railing (Type K). These closures will occur late at night and are not expected to have significant impacts due to the low traffic volumes during these hours.

All NB and SB lanes on the GGB will remain open during this stage of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

#### **Stage 2N to 4N**

During Stages 2N to 4N, at the northern approach, the NB and SB inner shoulders between the NB Vista Point off-ramp and Sausalito Road Undercrossing will be closed. These closures will not affect any of the traffic lanes and will not reduce roadway capacity in either direction; as a result no significant traffic impacts are expected to occur.

All NB and SB lanes on the GGB will remain open during these stages of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

#### **Stage 5N**

See Section 3.4.1 for discussion of transportation impacts during this stage.

**Stage 6N**

All NB and SB lanes on the southern approach, GGB and northern approach will remain open during this stage of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

**Stage 7N**

All NB and SB lanes on the southern approach, GGB and northern approach will remain open during this stage of construction during non-construction hours, and as such, no significant traffic impacts are expected to occur.

**3.4.4 Transportation Impacts –Golden Gate Weekend Bridge Closure**

As discussed earlier, during construction of the short-term project, a full closure of the GGB that will not last more than 52 hours and will occur over one weekend. This closure is expected to cause significant delays to motorists travelling between Marin County and the City of San Francisco; however it is necessary in order to ensure the safe installation of the MMB and to allow for free movement of works and equipment during these operations. A detailed description of the detour routes to be used during this closure as well as an analysis of the travel time delay and associated costs for vehicles is included as part of Section 3.9.

It is recommended that the public is informed to use alternate freeways, Ferry Services and/or avoid the use of Route 101 during this weekend. Further recommendations on TMP strategies that can be employed to mitigate lane closure impacts can be found in Section 4.4 and 4.5.

**3.5 Transportation Impacts— Long-Term Project**

During construction of the Long-Term Project, all lanes on the GGB and on the northern approach will remain open. On the southern approach, at least two lanes in each direction and five toll lanes at the Toll Plaza will remain open to traffic both during all stages of construction. Work will be conducted during the identified work windows, (as presented in Section 3.1, i.e., late at night and during the early morning hours) when traffic demands on the GGB are at a minimum. Lane closures will be temporary. Detailed lane closure charts for the Long-Term Project are provided as **Attachment C1**. While the temporary lane closures will reduce the capacity of the GGB minor traffic delays are expected during construction staging and lane closures, and no significant traffic impacts are expected to occur.

The following are the traffic control plans for various scenarios expected during construction on the southern approach. Detailed traffic control plans for the Long-Term Project are provided as **Attachment B7**.

**Two NB and SB lanes Closed**

On the southern approach, the inner NB lanes will be closed and the outer two NB lanes will be open in this scenario. In the SB direction, the two outer lanes will remain open and the two inner SB lanes will remain closed to traffic. At the Toll Plaza, toll Lane #1 to Lane #5 will remain open during construction. On the GGB all lanes will remain open and the MMB will be in the at 4N/2S configuration.

During construction, the toll lane closures will result in a decrease in capacity at the Toll Plaza in both directions; however, traffic volumes are not expected to exceed available capacity and as such significant traffic delays are not expected to occur.

**Three NB Lanes closed**

At the southern approach, the NB Lane #2 and #3 will be closed to traffic in this scenario. The Route 1 on-ramp lanes will be merged with the NB Lane #1. All SB lanes will remain open to traffic in the SB direction. At the Toll Plaza toll Lanes #1 through Lane #8 will remain open. All the GGB lanes will remain open and the MMB will be in the 4N/2S configuration.

Limiting traffic to the use of one lane in the NB direction at the southern approach reduces the roadway capacity. However, the lane closures occur late at night and in the early morning traffic volumes are not expected to exceed available capacity during construction conditions and significant traffic delays are not expected to occur.

**Two SB Lanes Closed**

On the southern approach, the two SB inner lanes will remain closed to traffic during construction. Toll Lanes #4, #5 and #6 will remain closed to traffic. During this scenario, all the NB lanes will remain open to traffic in the NB direction. All the GGB lanes will remain open and the MMB will be set in the 2N/4S configuration.

Limiting traffic to the use of only five of the eight toll lanes and two SB lanes south of the Toll Plaza reduces the capacity at the Toll Plaza. However, the lane closures occur late at night and in the early morning traffic volumes are not expected to exceed available capacity during construction conditions and significant traffic delays are not expected to occur.

#### **Two SB Lanes Closed**

At the southern approach, two outer SB lanes and toll Lane #1 through #3 will remain closed to traffic. Toll Lanes #4 through #8, will remain open to SB traffic. During this scenario, all the NB lanes will remain open to traffic. All the GGB lanes will remain open and the MMB will be in the 3N/3S configuration.

Limiting traffic to the use five of the eight toll lanes, and two SB lanes south of the plaza reduces the capacity at the Toll Plaza. However, the lane closures occur late at night and in the early morning traffic volumes are not expected to exceed available capacity during construction conditions and significant traffic delays are not expected to occur.

### **3.6 Lane Closures**

#### **Short-Term Project**

All lanes in each direction will remain open throughout all stages and phases of construction during the Short-Term Project, with the exception of the weekend closure of the Golden Gate Bridge. Lane closures will take place during late evening and early morning hours when traffic demands on the GGB (and its approaches) are at a minimum.

Minor traffic delays are expected during construction staging and lane closures, and no significant traffic impacts are expected to occur. The defined work windows defined ensure that vehicle demand does not exceed the lane capacity. Traffic conditions during construction activities will be monitored and the work windows may be adjusted if need be.

#### **Long-Term Project**

During the Long-Term Project all lanes on the GGB and the northern approach will remain open. On the southern approach at least two lanes and five toll lanes will remain open to the public during and after construction. Traffic delays are expected to be minor, as construction will occur late at night when traffic volumes are at a minimum.

#### **Golden Gate Bridge Weekend Closure**

A full closure of the Golden Gate Bridge will be necessary during the short-term construction activities. This closure will begin at midnight on January 9, 2015 and will end at 4:00 AM on January 12, 2015. The closure is not expected to exceed 52 hours. While this will cause significant delays to motorists travelling between the City of San Francisco and Marin County, the weekend closure is unavoidable to ensure both public and worker safety during construction. It is recommended that the public is informed to use alternate freeways, ferry services and/or avoid the use of Route 101 during this weekend. Further recommendations on TMP strategies that can be employed to mitigate lane closure impacts can be found in Section 4.4 and 4.5.

### **3.7 Ramp Closures**

As discussed in Section 3.2, there will be ramp closures that will occur during the weekend closure of the GGB. Detailed ramp closure charts are provided as **Attachment C1**. Ramp closures will occur at the following locations:

- Northbound Golden Gate Bridge Merchant Road on-ramp;
- Northbound Golden Gate Bridge Merchant Road off-ramp;
- Southbound Golden Gate Bridge Merchant Road off-ramp;
- Northbound Route 101 Vista Point on-ramp;
- Northbound Route 101 Vista Point off-ramp;
- Northbound Route 101 Sausalito Lateral on-ramp;
- Northbound Route 101 Sausalito Lateral off-ramp;
- Southbound Route 101 Sausalito Lateral on-ramp;
- Southbound Route 101 Sausalito Lateral off-ramp;
- Southbound Route 101 Spencer Avenue on-ramp;
- Southbound Route 101 Rodeo Avenue on-ramp; and,

- Southbound Route 101 Donahue Street on-ramp.

In addition to ramp closures that will occur during the weekend closure of the GGB, nighttime ramp closures will occur as needed during construction stages 6N and 7N at the northbound Vista Point on- and off-ramps, northbound Route 101 Sausalito Lateral off-ramp, and southbound Route 101 Sausalito on-ramp.

### 3.8 Lane and Ramp Closure Late Pick-up Delay Costs

In the event that construction activities exceed the allotted time and result in late lane closure pick-ups, delay costs and damage calculations have been assessed as part of this TMP.

#### 3.8.1 Lane and Ramp Closure

The District determined that except for the 52-hour weekend bridge closure, liquidated damages for failing to open the required bridge or mainline traffic lanes to public traffic at the times specified shall be \$5,000 for each full ten minute period or part thereof after the first ten minute period. The total liquidated damages for each 12 hours of such delay shall not exceed \$150,000.

#### 3.8.2 Golden Gate Bridge Weekend Closure

Failure to complete all the work for stages 4S and 5N in all parts and requirements and to reopen the GGB at the specified time is expected to have a significant impact on regional activities; a detailed description of the liquidated damages determined by the District is presented in **Attachment C2** and is summarized in **Table 6**, which shows the delay costs of the first hour after the planned 4:00 AM reopening on the GGB.

Table 6: Golden Gate Bridge Weekend Closure Late Pick-Up Delay Costs

Time Period	Charge
After first 10 minutes and up to 20 minutes (4:10:01 AM to 4:19:59 AM)	\$10,000
20 to 30 minutes (4:20:00 AM to 4:29:59 AM)	\$20,000
30 to 40 minutes (4:30:00 AM to 4:39:59 AM)	\$30,000
40 to 50 minutes (4:40:00 AM to 4:49:59 AM)	\$40,000
50 to 60 minutes (4:50:00 AM to 4:59:59 AM)	\$50,000
Liquidated damages each additional 10 minutes after initial first hour	+ \$25,000

Source: Golden Gate Bridge Highway and Transportation District, 2014.

**Notes:**

- The total liquidated damages for failing to open the bridge or mainline traffic lanes to public traffic at the times specified for the 52-hour weekend closure shall not exceed three hundred thousand (\$300,000) dollars.

Late lane closure pickup delay costs were also determined for the detour routes on the Richmond—San Rafael Bridge (Interstate 580) and the San Francisco—Oakland Bay Bridge (Interstate 80), and are included in **Attachment C2**. Late lane closure pickup delay costs were determined by comparing the minimum delay damage costs presented in Section 2.5.3 of the *Caltrans Transportation Management Plan Guidelines* (Caltrans, 2009)<sup>(ii)</sup>, with the costs determined using a volume-based approach and selecting the higher delay cost. Due to the low traffic volumes during the hours immediately succeeding the construction hours, damage calculations were performed using a worst-case scenario of a five-hour late lane closure pick-up. Detailed damage calculations for the late reopening of the GGB, with respect to the Richmond—San Rafael Bridge and the San Francisco—Oakland Bay Bridge are presented in **Attachment C2**. The methodology used calculated the delay costs based on the expected volumes on each bridge with the addition of the GGB detour traffic. Both bridges operated over capacity in both directions within the first five hours after the anticipated GGB reopening with an estimated average delay cost of between \$410 and \$1,760 for each 10 minute period. As determined by the District, the minimum damages of \$5,000 for the first ten minutes, regardless of traffic volumes, may be applied to each bridge.

### 3.9 Lane Closure Detours and Detour Delay Cost Analysis

Motorists travelling between Marin County and San Francisco during the weekend closure of the GGB will be required to use alternate routes. A description of the proposed detour routes is included below and a summary of the detour routes can be found in **Figure 4**, detailed plans of the detour can be found in **Attachment B4**.

Figure 4: Proposed Detour Routes for the Golden Gate Bridge Weekend Closure



The delay costs for these detours was determined by using the benefit valuation for in-vehicle travel for both auto, transit and freight vehicles included in the *Plan Bay Area Project Performance Assessment* (Association of Bay Area Governments, 2012)<sup>(iii)</sup>. The benefit valuation represents both the discomfort experienced by travelers enduring transportation-related delays and the loss in regional productivity of on-the-clock travelers and commuter. The benefit valuation used is \$16.03 per person hour of travel for in-vehicle travel time for auto and transit vehicles and is set equal to one-half of the mean regional wage rate (\$32.06). The benefit valuation used for freight and trucks is \$26.24 per person hour of travel for in-vehicle travel time. It should be noted that the mileage used, to determine these costs is an approximation and actual mileage and travel time will vary for motorists based on their personal origin, destinations and detour route preferences.

### **Southern Approach**

Motorists travelling on NB Route 1 will be directed to turn right and drive east along local roadways, toward Geary Boulevard and Fell Street and follow detour signs that will direct them to the San Francisco—Oakland Bay Bridge (EB Interstate 80) and the Richmond—San Rafael Bridge (WB Interstate 580), from there motorists can merge onto SB Route 101 and continue on to their final destination. This detour results in an increased travel distance of approximately 33 miles and an additional 0.81 hours (49 minutes) of travel time, the cost of this detour is approximately \$17.98 for auto/transit vehicles and \$26.25 for freight trucks. This cost includes a \$5.00 per-axle toll that travelers will have to pay at the Richmond-San Rafael Bridge. Motorists travelling northbound on Marina Boulevard and on Richardson Avenue (Route 101) will be directed to merge onto SB Route 101 and follow detour signs that will direct them to the San Francisco—Oakland Bay Bridge (EB Interstate 80), and the Richmond-San Rafael Bridge (WB Interstate 580), from there motorists can merge onto SB Route 101 and continue on to their final destination. This detour results in an increased travel distance of 30 miles and an additional 0.67 hours (40 minutes) of travel time, the cost of this detour is approximately \$15.69 for auto/transit vehicles and \$22.49 for freight trucks. This cost includes a \$5.00 per-axle toll that travelers will have to pay at the Richmond-San Rafael Bridge.

### **Northern Approach**

Motorists travelling Southbound on Route 101 will be directed to take the Spencer Avenue exit and merge onto NB Route 101. Detour signs will direct them to the Richmond—San Rafael Bridge (EB Interstate 580) and later merge onto WB Interstate 80 which will lead them to the San Francisco—Oakland Bay Bridge; from there motorists can merge onto NB Route 101 and continue on to their final destinations. This detour results in an increased travel distance of 33 miles and an additional 0.78 hours (47 minutes) of travel time, the cost of this detour was determined as approximately \$12.56 for auto/transit vehicles and \$20.55 for freight trucks.

## **3.10 Local and Regional Impacts**

Construction activities at the GGB and its northern and southern approaches are expected to have both local and regional impacts within the San Francisco Bay Area. The most significant impacts are expected to occur during the full closure of the GGB, which will occur during the weekend closure of the GGB beginning on January 9, 2015 at midnight (12:00 AM) and ending on January 12, 2015 at 4:00 AM. The closure is not expected to exceed these 52 hours. Assumptions regarding traffic volumes during the weekend closure of the GGB are based on experience with the five-day weekend full closure of the San Francisco—Oakland Bay Bridge. During the closure an estimated 30 percent of San Francisco—Oakland Bay Bridge traffic chose to forego driving in favor of alternate modes of transportation (bus, ferry etc.) or avoided travelling altogether. It is anticipated that approximately 30 percent of GGB traffic will opt to use transit to travel between Marin County and the City and County of San Francisco, while the remaining 70 percent of GGB traffic will use detour routes. These detour routes will consist of both local roadways such as Sir Francis Drake Boulevard in Marin County, and Presidio Parkway, and Fell Street, and Geary Boulevard in the City and County of San Francisco, as well as regional highways, Interstate 580 and Interstate 80 which will include the use of the Richmond—San Rafael Bridge, and the San Francisco—Oakland Bay Bridge respectively.

The impacts discussed in this section are a direct result from the unavoidable weekend closure of the GGB, and while they will inconvenience travelers, the closure, subsequent detours and alternative transportation options are necessary to ensure both public and worker safety during the installation of the MMB on the GGB.

### 3.10.1 Northern Approach Sir Francis Drake Boulevard

Sir Francis Drake Boulevard is a major east-west roadway in Marin County, which stretches from Point Reyes on the west to the San Quentin Peninsula on the east. As it passes through the Golden Gate Transit Ferry Terminal and the Larkspur Landing retail center, Sir Francis Drake Boulevard operates as a two-way arterial, with two through-lanes in each direction separated by a median. At the Greenbrae interchange, at the intersection of Sir Francis Drake Boulevard and Route 101, Sir Francis Drake Boulevard has three lanes of traffic in both the eastbound and westbound direction.

Vehicles travelling southbound on Route 101 will be diverted to Interstate 580 during the weekend closure of the GGB, Sir Francis Drake Boulevard will serve as an important connection between Route 101 and Interstate 580. Additionally, the Golden Gate Larkspur Ferry terminal is located on Sir Francis Drake Boulevard. It is anticipated that the proposed detour routes as well as the proximity of the Golden Gate Larkspur Ferry Terminal to Sir Francis Drake Boulevard will cause an increase in traffic volumes on Sir Francis Drake Boulevard during the weekend closure of the GGB.

#### Golden Gate Larkspur Ferry Terminal

The District provides a ferry service between the City of Larkspur and the City of San Francisco. The ferry terminal in Larkspur is located on Sir Francis Drake Boulevard just east of Route 101. The ferry terminal has 1,800 parking spaces available to the public, including 30 carpool spaces. In addition, the lot has 28 spaces for persons with disabilities and two spaces for electric vehicles. Parking at the ferry terminal is free for the first 24 hours.

#### Golden Gate Sausalito Ferry Landing

The District also operates a ferry service between the City of Sausalito and the City of San Francisco. The Ferry Landing in Sausalito is located in downtown Sausalito at Humboldt Street and Anchor Street. There are for-pay public parking lots adjacent to the Ferry Landing and metered parking within the vicinity of the ferry landing.

### 3.10.2 Southern Approach Presidio Parkway

The Presidio Parkway (formerly Doyle Drive), is a segment of Route 101 that extends from the south end of the Golden Gate Bridge Toll Plaza to Broderick Street on the east, including Richardson Avenue. Currently access to Presidio Parkway is also provided via Marina Boulevard on the southern approach, and on the northern approach, corridor access is also provided at Veteran's Boulevard and at Lincoln Boulevard via Merchant Road near the Toll Plaza. During the weekend closure of the GGB, it is anticipated that the Presidio Parkway may experience a decrease in traffic volumes, as a result of motorists utilizing the detour routes that are not within the vicinity of this roadway to travel between Marin County and the City and County of San Francisco.

### 3.10.3 Alternate Routes

During the weekend closure of the GGB the affected traffic will be detoured to alternate routes, primarily the San Francisco—Oakland Bay Bridge and the Richmond—San Rafael Bridge, which will connect traffic from Marin County to the City and County of San Francisco. As part of the Transportation Management Plan, an analysis was conducted to determine the effect of increased traffic on these alternate routes as a result of the weekend closure of the GGB.

While a base capacity was determined for both the San Francisco—Oakland Bay Bridge and the Richmond—San Rafael Bridge, the weekend closure of the GGB is anticipated to result in atypical traffic volumes on the detour routes. As a result it was necessary to determine a more conservative peak capacity based on the adjustment factors presented in the *Highway Capacity Manual* (Caltrans, 2010). The peak capacity formula and adjustment factors are summarized below:

$$\begin{aligned} \text{Peak Capacity} &= \text{Base Capacity} \times \text{Peak Hour Factor (PHF)} \times \text{Number of Lanes (N)} \\ &\times \text{Adjustment for Heavy Vehicles (} f_{hv} \text{)} \times \text{Adjustment for Driver Population (} f_p \text{)} \end{aligned}$$

Where:

- Peak Hour Factor (PHF) is used to account for variations in flow within the peak hour, and is based on the existing volume-to-capacity ratio of the roadway.
- Adjustment for heavy vehicles ( $f_{hv}$ ) is based on calculating passenger-car equivalents for trucks and buses, and the proportion of trucks and buses in the traffic stream, as provided in the *Annual Average Daily Truck Traffic on the California State Highway System* (Caltrans, 2010) report.

- Adjustment for driver population ( $f_p$ ) reflects the effect of weekend recreational vehicle-trips and driver unfamiliarity with roadways.

Detailed delay calculations are included in **Attachment C2**. As discussed in Section 2.2 and Section 3.11, a reconstruction of the Presidio Parkway will occur simultaneously with the GGB Moveable Median Project.

### San Francisco—Oakland Bay Bridge

The San Francisco—Oakland Bay Bridge is a major link between the City and County of San Francisco and the San Francisco Bay Area. The bridge has five lanes in each direction. Hourly weekend (Friday through Monday morning) traffic volumes for the San Francisco—Oakland Bay Bridge are summarized in **Figure 5**.

The base capacity for each direction on the San Francisco—Oakland Bay Bridge was determined to be 9,250 passenger cars. The PHF was determined to be 0.95, and the  $f_{hv}$  was determined to be 0.98 in both directions of the San Francisco—Oakland Bay Bridge. To reflect potential driver unfamiliarity with this detour route the standard rural  $f_p$  of 0.975 was assumed in both directions of the San Francisco—Oakland Bay Bridge. After the application of these adjustment factors to the base capacity, the peak capacity was determined to be 8,352 vph in both directions of the San Francisco—Oakland Bay Bridge.

Further assumptions regarding traffic volumes during the weekend closure of the GGB are based on experience with the five-day weekend full closure of the San Francisco—Oakland Bay Bridge. During the closure an estimated 30 percent of San Francisco—Oakland Bay Bridge traffic chose to forego driving in favor of alternate modes of transportation (bus, ferry etc.) or the avoided travelling altogether. As such, the detour delay analysis for the weekend closure of the GGB, assumes a 30 percent no-show rate for existing GGB traffic volumes. The remaining 70 percent of GGB traffic were assigned to alternate routes to travel between Marin County and the City and County of San Francisco.

Detour delay calculations were also performed assuming a higher share of GGB traffic will drive. In addition to the 30 percent “no-show” rate, this analysis was conducted assuming a zero (0) percent, 10 percent, and 20 percent “no-show” rate, with the remaining share of traffic (100 percent, 90 percent, and 80 percent respectively), assigned to the detour routes. This analysis added this remainder share of existing weekend NB GGB traffic onto the EB San Francisco—Oakland Bay bridge, and the remainder share of existing weekend SB GGB traffic onto the WB San Francisco—Oakland Bay Bridge.

A queue is anticipated to occur whenever the cumulative output exceeds the cumulative demand. The time intervals when this will occur on the San Francisco—Oakland Bay Bridge during the weekend closure of the GGB ending on Monday at 4:00 AM are summarized in **Table 7**.

A summary of the anticipated traffic volumes and queue lengths during the closure of the GGB is presented in **Attachment C2** and is summarized in **Table 8** and **Table 9**, and in **Figure 6** through **Figure 9**.

As shown in **Attachment C2**, the demand is anticipated to exceed capacity during the full weekend closure of the GGB demand under all reduction scenarios, with the exception of the westbound direction on Monday morning under the 20 percent and 30 percent reduction scenarios. The bridge would operate over capacity for periods of up to 15 hours (discontinuously). While associated delays will be an inconvenience to travelers they are unavoidable to ensure both public and worker safety during the installation of the MMB. The District has developed a public information outreach plan, summarized in Section 4.4 that is focused on reducing the travel demand during the weekend closure of the GGB, and in turn minimizing the anticipated delay on the San Francisco—Oakland Bay Bridge.



Figure 5: Historical Daily Traffic Volumes - San Francisco-Oakland Bay Bridge

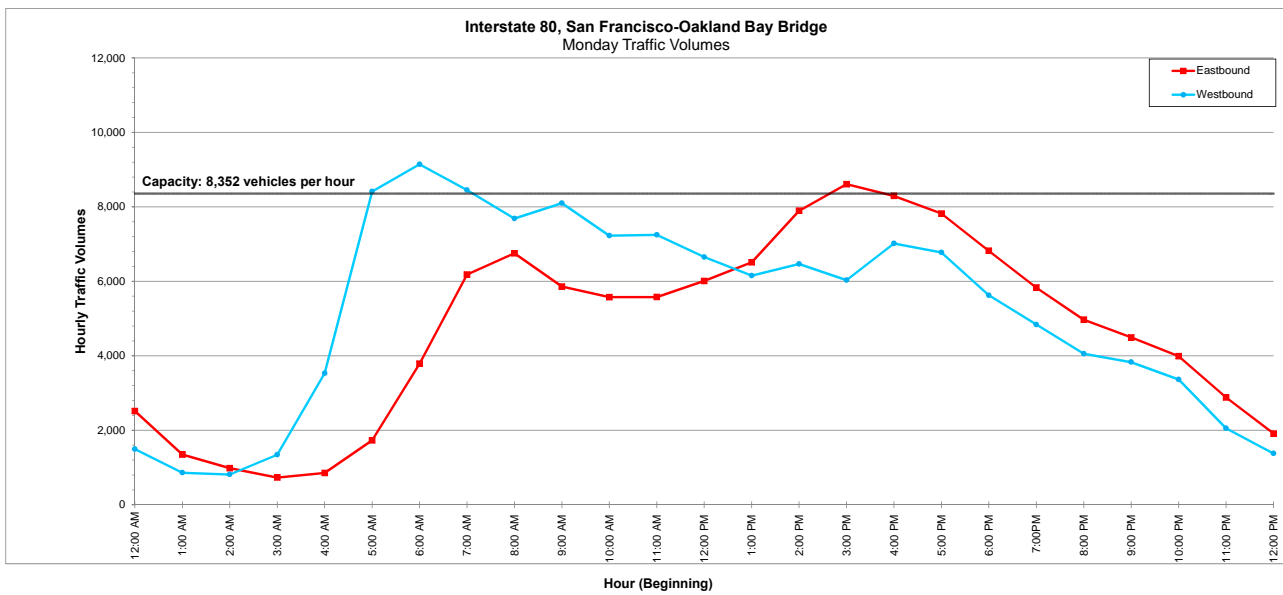
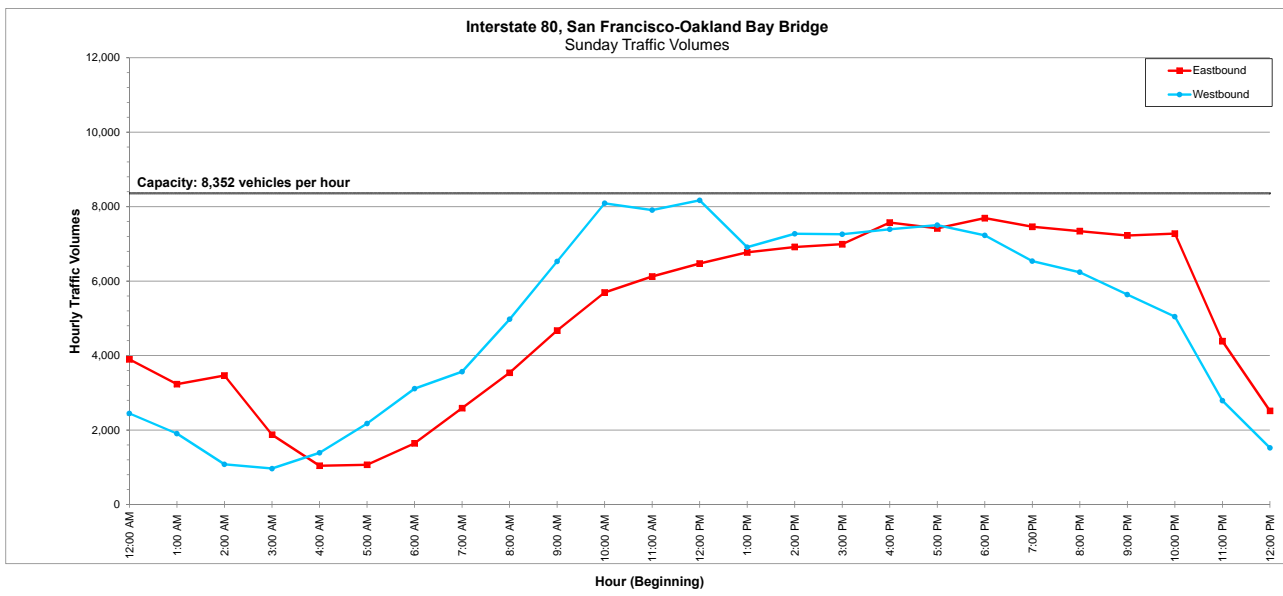
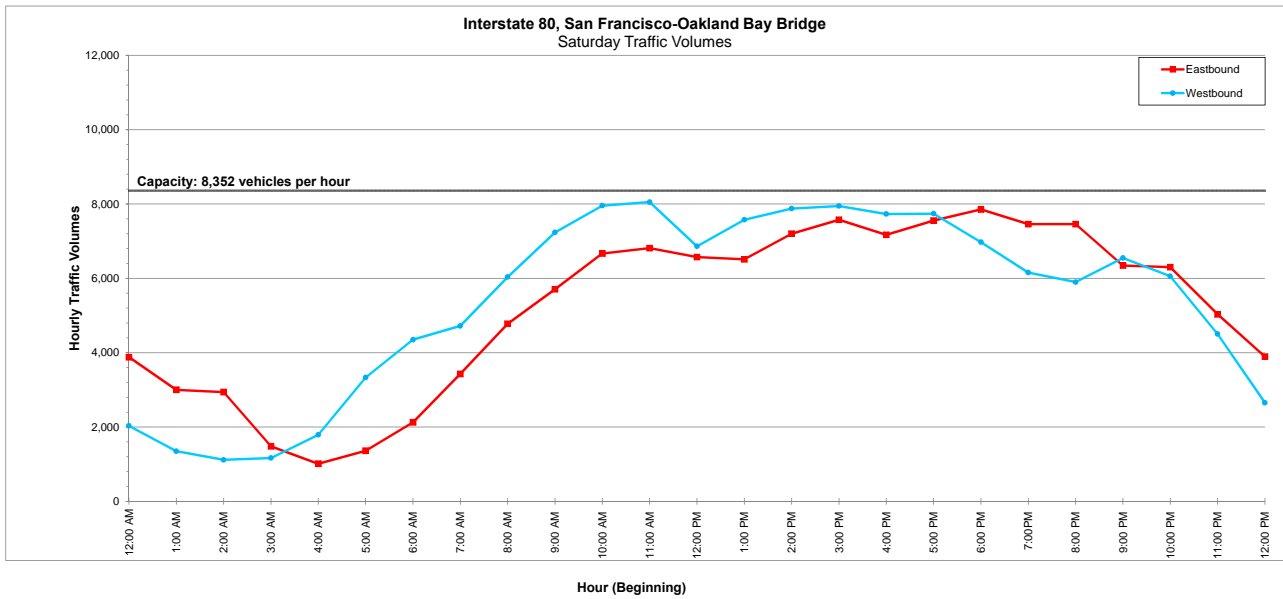


Table 7: Average Queue – San Francisco—Oakland Bay Bridge

Reduction Scenario	San Francisco—Oakland Bay Bridge Average Queue			
	Eastbound		Westbound	
	Duration	Time Period	Duration	Time Period
<b>Saturday</b>				
Zero Percent	15 Hours	9:00 AM to Midnight	12 Hours	9:00 AM to 9:00 PM
10 Percent	15 Hours	9:00 AM to Midnight	11 Hours	9:00 AM to 8:00 PM
20 Percent	12 Hours	10:00 AM to 10:00 PM	11 Hours	9:00 AM to 8:00 PM
30 Percent	12 Hours	10:00 AM to 10:00 PM	11 Hours	9:00 AM to 8:00 PM
<b>Sunday</b>				
Zero Percent	14 hours	10:00 AM to Midnight	12 Hours	8:00 AM to 8:00 PM
10 Percent	14 hours	10:00 AM to Midnight	12 Hours	9:00 AM to 9:00 PM
20 Percent	14 hours	10:00 AM to Midnight	11 Hours	9:00 AM to 8:00 PM
30 Percent	13 hours	11:00 AM to Midnight	10 Hours	10:00 AM to 8:00 PM
<b>Monday</b>				
Zero Percent	2 Hours	3:00 PM to 5:00 PM	4 Hours	5:00 AM to 9:00 AM
10 Percent	2 Hours	3:00 PM to 5:00 PM	4 Hours	5:00 AM to 9:00 AM
20 Percent	2 Hours	3:00 PM to 5:00 PM	4 Hours	5:00 AM to 9:00 AM
30 Percent	2 Hours	3:00 PM to 5:00 PM	4 Hours	5:00 AM to 9:00 AM

Source: AECOM, 2014.

Table 8: Detour Traffic Volumes – San Francisco—Oakland (Westbound Interstate 80)

Hours	Golden Gate Bridge Weekend Closure Detour Traffic Volume — San Francisco—Oakland Bay Bridge (Westbound) <sup>(1)</sup>											
	0 Percent Reduction			10 Percent Reduction			20 Percent Reduction			30 Percent Reduction		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0:00 – 1:00	2,390	2,933	1,736	2,354	2,884	1,712	2,318	2,836	1,687	2,283	2,787	1,663
1:00 – 2:00	1,551	2,115	998	1,531	2,094	984	1,511	2,073	970	1,491	2,051	956
2:00 – 3:00	1,237	1,219	919	1,225	1,205	908	1,213	1,191	898	1,201	1,178	887
3:00 – 4:00	1,292	1,096	1,499	1,280	1,083	1,483	1,267	1,070	1,468	1,255	1,057	1,452
4:00 – 5:00	1,965	1,561	<b>4,041</b>	1,948	1,544	<b>3,990</b>	1,930	1,527	<b>3,939</b>	1,913	1,510	<b>3,888</b>
5:00 – 6:00	3,739	2,511	<b>9,724</b>	3,698	2,478	<b>9,593</b>	3,658	2,444	<b>9,462</b>	3,617	2,411	<b>9,330</b>
6:00 – 7:00	5,189	3,804	<b>12,019</b>	5,105	3,735	<b>11,732</b>	5,021	3,666	<b>11,444</b>	4,937	3,597	<b>11,157</b>
7:00 – 8:00	6,212	4,531	<b>12,830</b>	6,063	4,435	<b>12,392</b>	5,914	4,338	<b>11,955</b>	5,765	4,242	<b>11,517</b>
8:00 – 9:00	8,231	6,539	<b>12,532</b>	8,011	6,383	<b>12,048</b>	7,792	6,226	<b>11,563</b>	7,572	6,070	<b>11,079</b>
9:00 – 10:00	<b>10,095</b>	<b>8,971</b>	<b>11,764</b>	<b>9,809</b>	<b>8,727</b>	<b>11,398</b>	<b>9,523</b>	<b>8,483</b>	<b>11,031</b>	<b>9,237</b>	<b>8,238</b>	<b>10,665</b>
10:00 – 11:00	<b>11,008</b>	<b>11,507</b>	<b>10,268</b>	<b>10,703</b>	<b>11,165</b>	<b>9,964</b>	<b>10,397</b>	<b>10,824</b>	<b>9,660</b>	<b>10,092</b>	<b>10,482</b>	<b>9,356</b>
11:00 – 12:00	<b>11,536</b>	<b>11,705</b>	<b>10,174</b>	<b>11,188</b>	<b>11,325</b>	<b>9,882</b>	<b>10,839</b>	<b>10,946</b>	<b>9,589</b>	<b>10,491</b>	<b>10,566</b>	<b>9,297</b>
12:00 – 13:00	<b>10,588</b>	<b>12,574</b>	<b>9,412</b>	<b>10,215</b>	<b>12,134</b>	<b>9,136</b>	<b>9,843</b>	<b>11,693</b>	<b>8,860</b>	<b>9,470</b>	<b>11,253</b>	<b>8,585</b>
13:00 – 14:00	<b>11,350</b>	<b>11,050</b>	<b>8,816</b>	<b>10,973</b>	<b>10,636</b>	<b>8,550</b>	<b>10,595</b>	<b>10,222</b>	<b>8,283</b>	<b>10,218</b>	<b>9,808</b>	<b>8,017</b>
14:00 – 15:00	<b>11,502</b>	<b>10,610</b>	<b>9,345</b>	<b>11,139</b>	<b>10,276</b>	<b>9,057</b>	<b>10,777</b>	<b>9,943</b>	<b>8,769</b>	<b>10,414</b>	<b>9,609</b>	<b>8,482</b>
15:00 – 16:00	<b>11,045</b>	<b>10,248</b>	<b>9,036</b>	<b>10,735</b>	<b>9,949</b>	<b>8,736</b>	<b>10,425</b>	<b>9,650</b>	<b>8,435</b>	<b>10,116</b>	<b>9,352</b>	<b>8,135</b>
16:00 – 17:00	<b>10,658</b>	<b>10,941</b>	<b>10,339</b>	<b>10,365</b>	<b>10,586</b>	<b>10,007</b>	<b>10,073</b>	<b>10,231</b>	<b>9,675</b>	<b>9,780</b>	<b>9,876</b>	<b>9,342</b>
17:00 – 18:00	<b>11,124</b>	<b>10,740</b>	<b>10,250</b>	<b>10,786</b>	<b>10,416</b>	<b>9,903</b>	<b>10,447</b>	<b>10,092</b>	<b>9,555</b>	<b>10,109</b>	<b>9,769</b>	<b>9,208</b>
18:00 – 19:00	<b>9,760</b>	<b>9,847</b>	<b>8,439</b>	<b>9,481</b>	<b>9,585</b>	<b>8,158</b>	<b>9,202</b>	<b>9,323</b>	<b>7,877</b>	<b>8,924</b>	<b>9,061</b>	<b>7,595</b>
19:00 – 20:00	<b>8,448</b>	<b>8,795</b>	<b>6,706</b>	<b>8,219</b>	<b>8,569</b>	<b>6,520</b>	<b>7,989</b>	<b>8,344</b>	<b>6,333</b>	<b>7,760</b>	<b>8,118</b>	<b>6,147</b>
20:00 – 21:00	7,987	8,251	<b>5,495</b>	7,778	8,050	<b>5,351</b>	7,570	7,848	<b>5,207</b>	7,361	7,647	<b>5,063</b>
21:00 – 22:00	8,269	7,289	<b>4,946</b>	8,097	7,124	<b>4,834</b>	7,925	6,959	<b>4,722</b>	7,753	6,794	<b>4,611</b>
22:00 – 23:00	7,575	6,128	<b>4,027</b>	7,423	6,020	<b>3,961</b>	7,272	5,911	<b>3,894</b>	7,120	5,803	<b>3,828</b>
23:00 – 24:00	5,512	3,311	<b>2,396</b>	5,411	3,259	<b>2,362</b>	5,310	3,207	<b>2,327</b>	5,209	3,155	<b>2,293</b>

Source: AECOM, 2014.

**Notes:**

- **Shading** indicates detour traffic volume is above peak capacity.
- **Bold** indicates the scheduled end of the GGB weekend closure and all lanes on GGB are anticipated to be open to traffic.

<sup>(1)</sup> Peak capacity on Interstate 80 Westbound = 8,358 vph

Table 9: Detour Traffic Volumes – Richmond— San Francisco—Oakland (Eastbound Interstate 80)

Hours	Golden Gate Bridge Weekend Closure Detour Traffic Volume — San Francisco—Oakland Bay Bridge (Eastbound) <sup>(1)</sup>											
	0 Percent Reduction			10 Percent Reduction			20 Percent Reduction			30 Percent Reduction		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0:00 – 1:00	4,951	4,896	3,135	4,844	4,796	3,073	4,737	4,696	3,011	4,630	4,596	2,949
1:00 – 2:00	3,585	3,843	1,694	3,527	3,782	1,659	3,468	3,721	1,625	3,410	3,659	1,590
2:00 – 3:00	3,377	3,933	1,155	3,333	3,886	1,138	3,290	3,839	1,120	3,246	3,792	1,103
3:00 – 4:00	1,725	2,134	860	1,701	2,108	847	1,676	2,082	834	1,652	2,056	821
4:00 – 5:00	1,191	1,215	<b>1,016</b>	1,173	1,198	<b>1,000</b>	1,155	1,181	<b>983</b>	1,137	1,163	<b>967</b>
5:00 – 6:00	1,734	1,282	<b>2,116</b>	1,697	1,260	<b>2,077</b>	1,659	1,239	<b>2,039</b>	1,622	1,217	<b>2,000</b>
6:00 – 7:00	2,730	2,070	<b>4,844</b>	2,670	2,027	<b>4,738</b>	2,609	1,985	<b>4,632</b>	2,549	1,942	<b>4,526</b>
7:00 – 8:00	4,652	3,401	<b>8,528</b>	4,530	3,320	<b>8,293</b>	4,407	3,238	<b>8,058</b>	4,285	3,157	<b>7,824</b>
8:00 – 9:00	6,877	5,099	<b>9,848</b>	6,667	4,943	<b>9,539</b>	6,457	4,787	<b>9,229</b>	6,247	4,630	<b>8,920</b>
9:00 – 10:00	<b>8,753</b>	7,238	<b>8,674</b>	<b>8,449</b>	6,982	<b>8,393</b>	8,144	6,725	<b>8,111</b>	7,840	6,469	<b>7,830</b>
10:00 – 11:00	<b>10,498</b>	<b>9,134</b>	<b>8,546</b>	<b>10,115</b>	<b>8,790</b>	<b>8,249</b>	<b>9,732</b>	<b>8,446</b>	<b>7,952</b>	<b>9,349</b>	8,102	<b>7,655</b>
11:00 – 12:00	<b>10,541</b>	<b>9,758</b>	<b>8,760</b>	<b>10,168</b>	<b>9,395</b>	<b>8,442</b>	<b>9,796</b>	<b>9,031</b>	<b>8,123</b>	<b>9,423</b>	<b>8,668</b>	<b>7,805</b>
12:00 – 13:00	<b>10,059</b>	<b>9,501</b>	<b>9,285</b>	<b>9,710</b>	<b>9,198</b>	<b>8,958</b>	<b>9,362</b>	<b>8,896</b>	<b>8,630</b>	<b>9,013</b>	<b>8,593</b>	<b>8,303</b>
13:00 – 14:00	<b>9,779</b>	<b>9,728</b>	<b>9,769</b>	<b>9,452</b>	<b>9,433</b>	<b>9,443</b>	<b>9,126</b>	<b>9,137</b>	<b>9,117</b>	<b>8,799</b>	<b>8,842</b>	<b>8,791</b>
14:00 – 15:00	<b>10,202</b>	<b>9,541</b>	<b>11,705</b>	<b>9,902</b>	<b>9,279</b>	<b>11,324</b>	<b>9,602</b>	<b>9,016</b>	<b>10,943</b>	<b>9,302</b>	<b>8,754</b>	<b>10,561</b>
15:00 – 16:00	<b>10,457</b>	<b>9,361</b>	<b>13,031</b>	<b>10,169</b>	<b>9,124</b>	<b>12,589</b>	<b>9,880</b>	<b>8,887</b>	<b>12,146</b>	<b>9,592</b>	<b>8,651</b>	<b>11,704</b>
16:00 – 17:00	<b>10,242</b>	<b>10,031</b>	<b>12,913</b>	<b>9,935</b>	<b>9,785</b>	<b>12,451</b>	<b>9,628</b>	<b>9,539</b>	<b>11,989</b>	<b>9,321</b>	<b>9,293</b>	<b>11,527</b>
17:00 – 18:00	<b>11,777</b>	<b>11,280</b>	<b>12,771</b>	<b>11,355</b>	<b>10,894</b>	<b>12,276</b>	<b>10,932</b>	<b>10,507</b>	<b>11,780</b>	<b>10,510</b>	<b>10,121</b>	<b>11,285</b>
18:00 – 19:00	<b>13,475</b>	<b>13,335</b>	<b>11,014</b>	<b>12,913</b>	<b>12,771</b>	<b>10,595</b>	<b>12,351</b>	<b>12,206</b>	<b>10,175</b>	<b>11,788</b>	<b>11,642</b>	<b>9,756</b>
19:00 – 20:00	<b>10,595</b>	<b>10,569</b>	<b>8,568</b>	<b>10,281</b>	<b>10,258</b>	<b>8,294</b>	<b>9,968</b>	<b>9,947</b>	<b>8,021</b>	<b>9,654</b>	<b>9,636</b>	<b>7,747</b>
20:00 – 21:00	<b>9,490</b>	<b>9,651</b>	<b>6,929</b>	<b>9,287</b>	<b>9,420</b>	<b>6,733</b>	<b>9,084</b>	<b>9,189</b>	<b>6,537</b>	<b>8,881</b>	<b>8,958</b>	<b>6,341</b>
21:00 – 22:00	<b>8,226</b>	<b>9,659</b>	<b>6,128</b>	<b>8,038</b>	<b>9,416</b>	<b>5,965</b>	<b>7,850</b>	<b>9,172</b>	<b>5,801</b>	<b>7,661</b>	<b>8,929</b>	<b>5,638</b>
22:00 – 23:00	<b>8,609</b>	<b>9,208</b>	<b>5,221</b>	<b>8,378</b>	<b>9,015</b>	<b>5,098</b>	<b>8,148</b>	<b>8,822</b>	<b>4,974</b>	<b>7,917</b>	<b>8,628</b>	<b>4,851</b>
23:00 – 24:00	6,574	5,454	<b>3,676</b>	6,420	5,347	<b>3,597</b>	6,266	5,241	<b>3,517</b>	6,112	5,134	<b>3,438</b>

Source: AECOM, 2014.

**Notes:**

- **Shading** indicates detour traffic volume is above peak capacity.
- **Bold** indicates the scheduled end of the GGB weekend closure and all lanes on GGB are anticipated to be open to traffic.

<sup>(1)</sup> Peak capacity on Interstate 80 Eastbound = 8,358 vph

Figure 6: Weekend Closure of the GGB Detour Traffic Volumes - San Francisco-Oakland Bay Bridge (30 Percent Reduction)

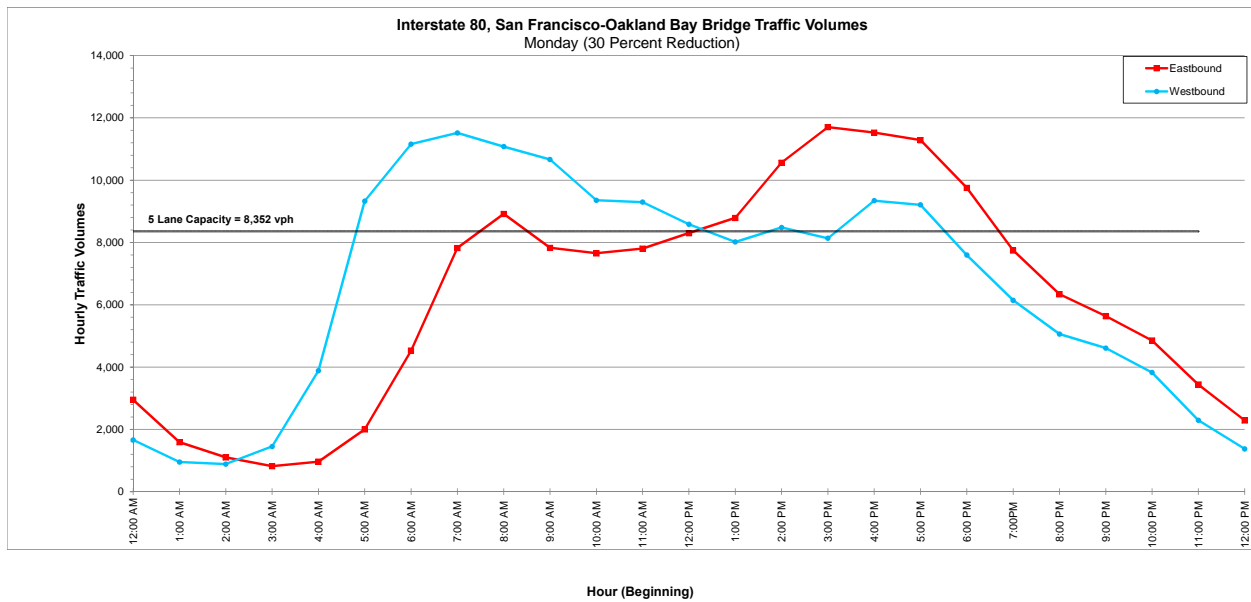
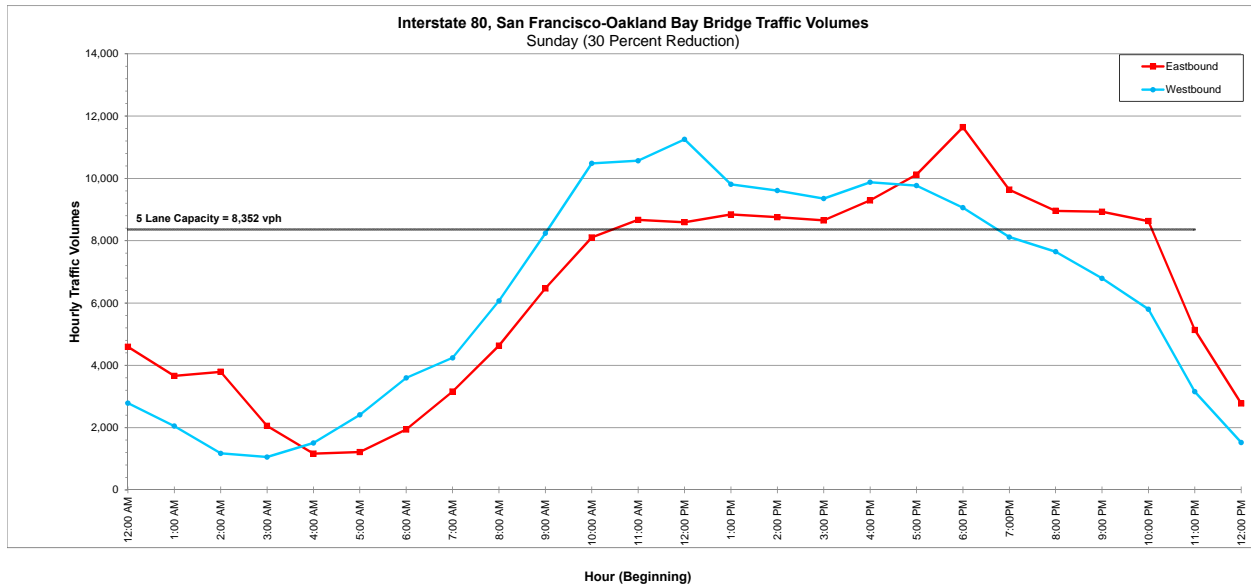
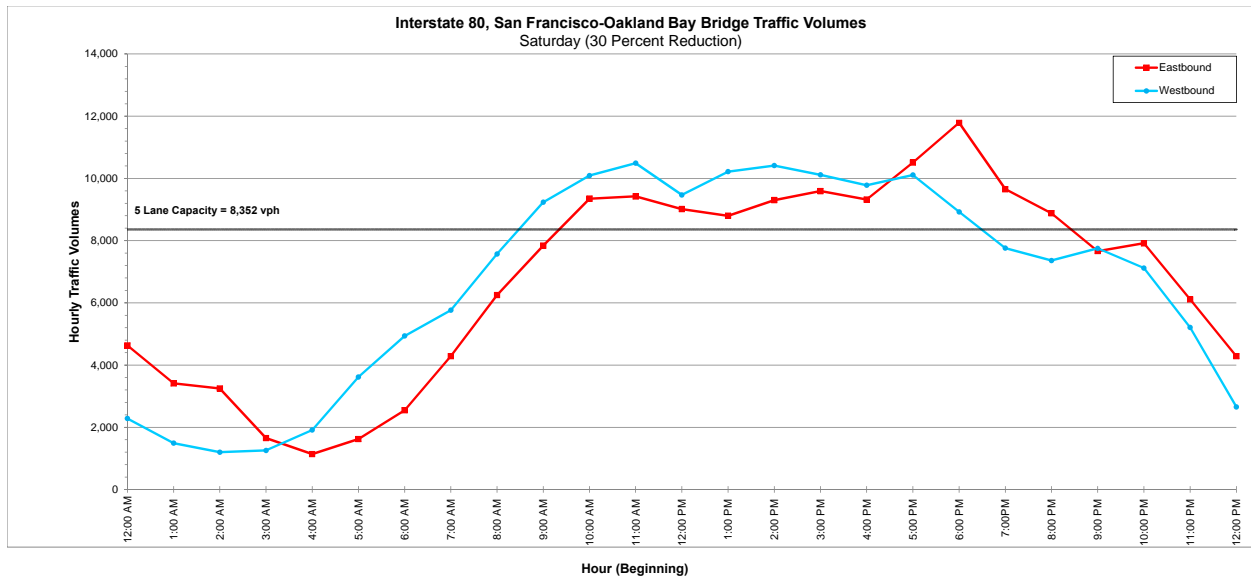


Figure 7: Weekend Closure of the GGB Detour Traffic Volumes - San Francisco-Oakland Bay Bridge (20 Percent Reduction)

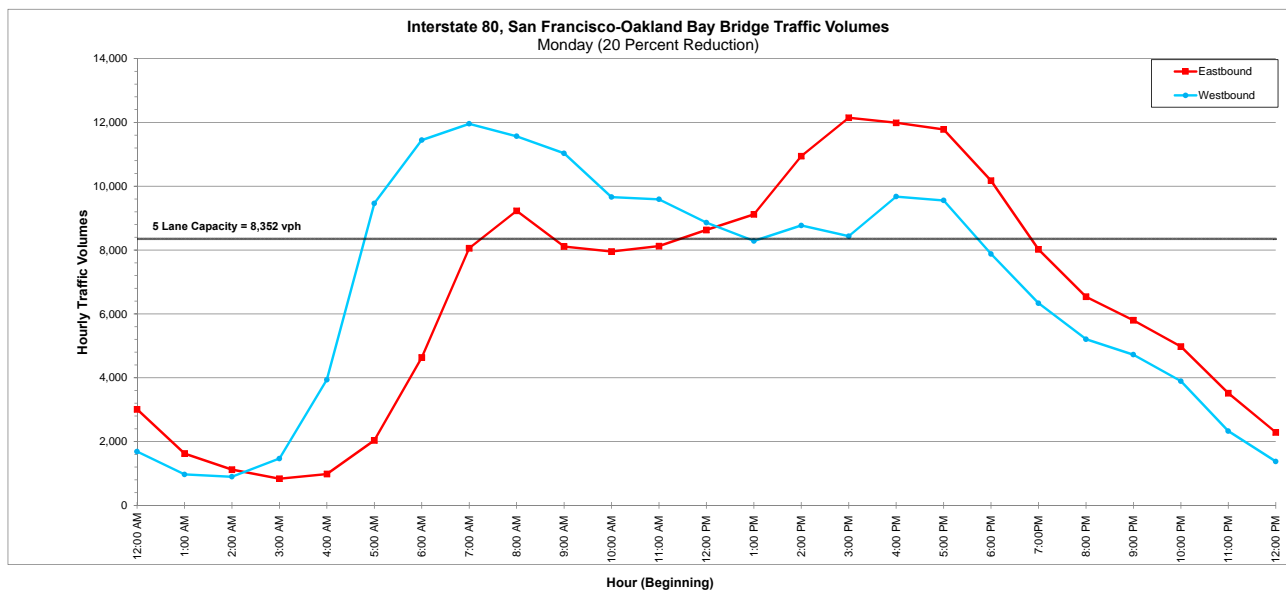
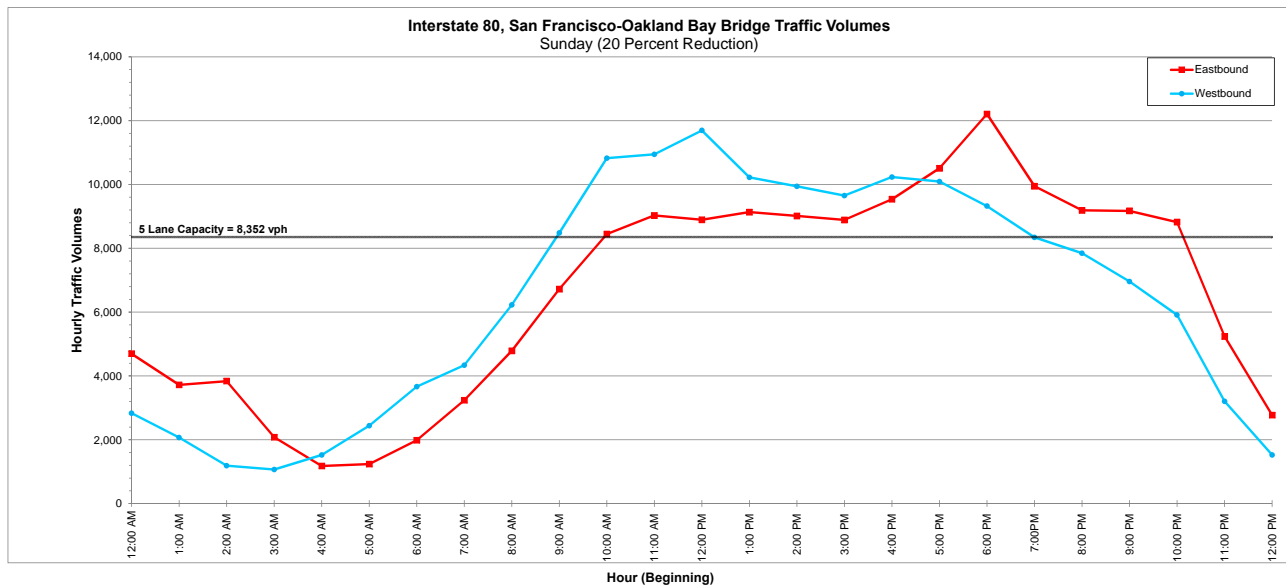
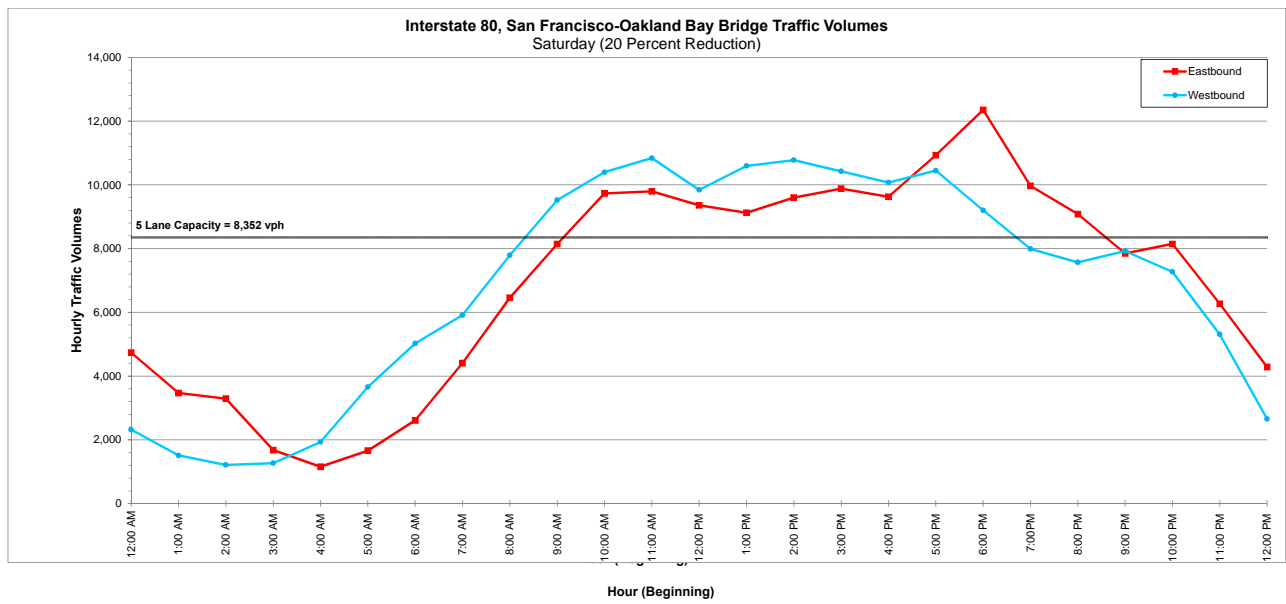


Figure 8: Weekend Closure of the GGB Detour Traffic Volumes - San Francisco-Oakland Bay Bridge (10 Percent Reduction)

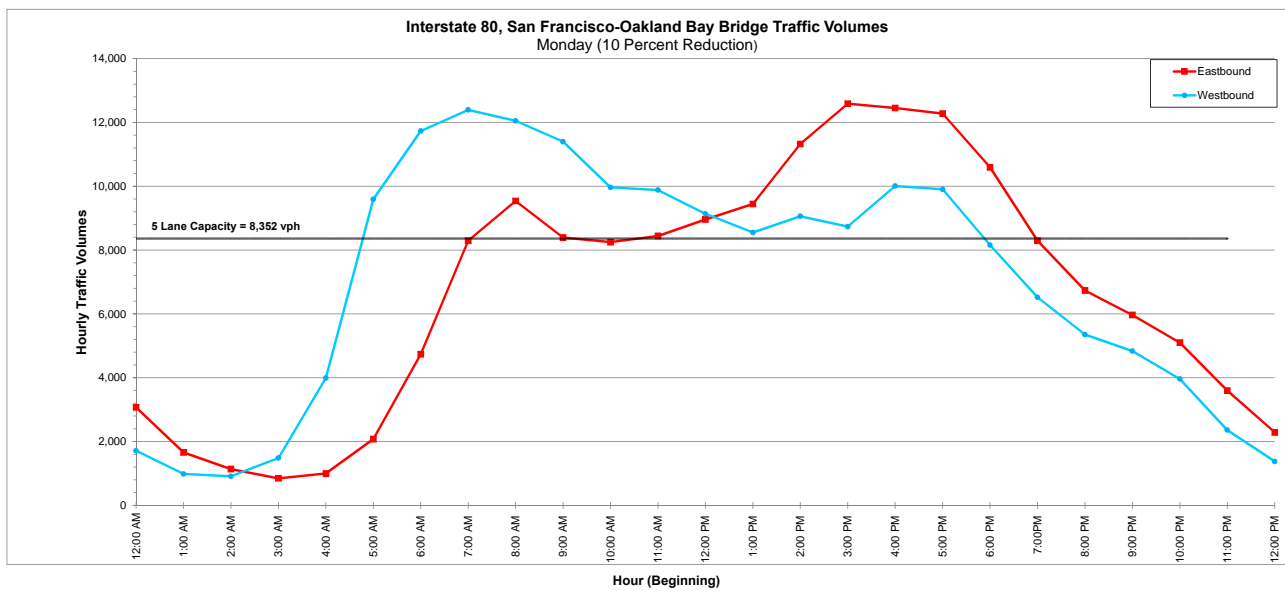
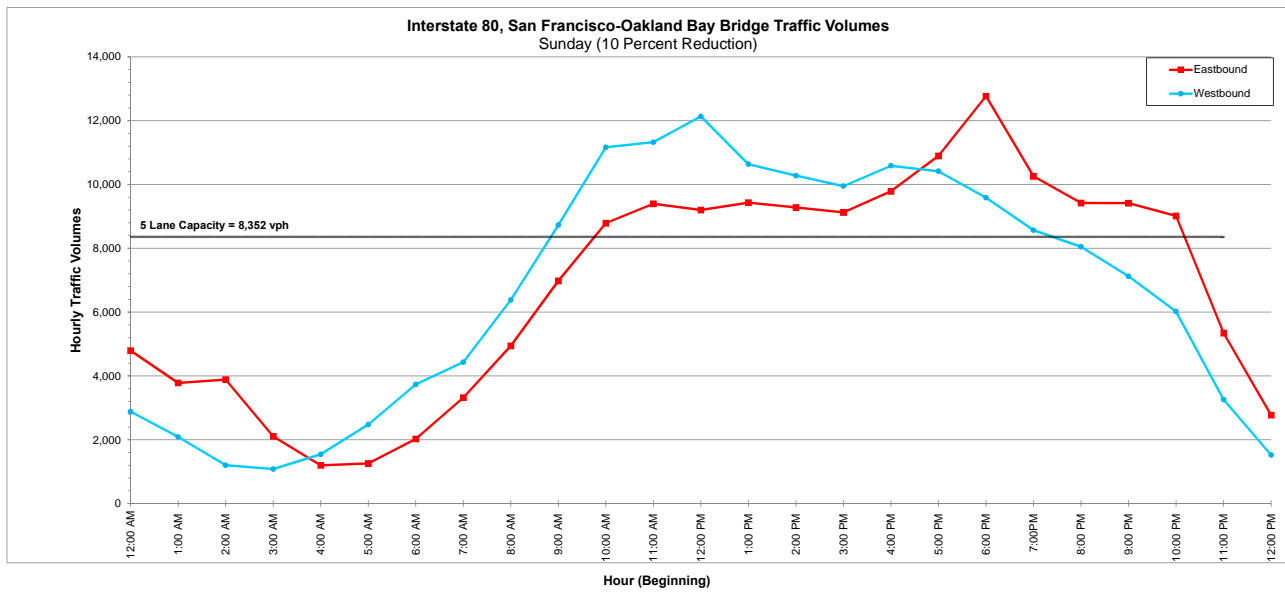
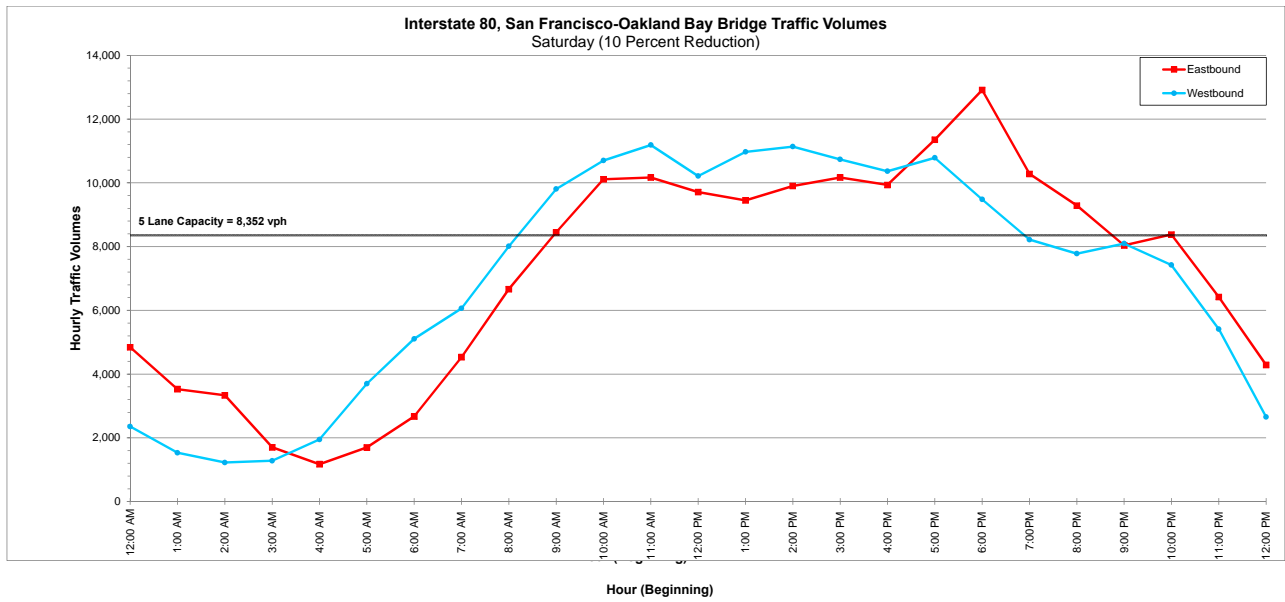
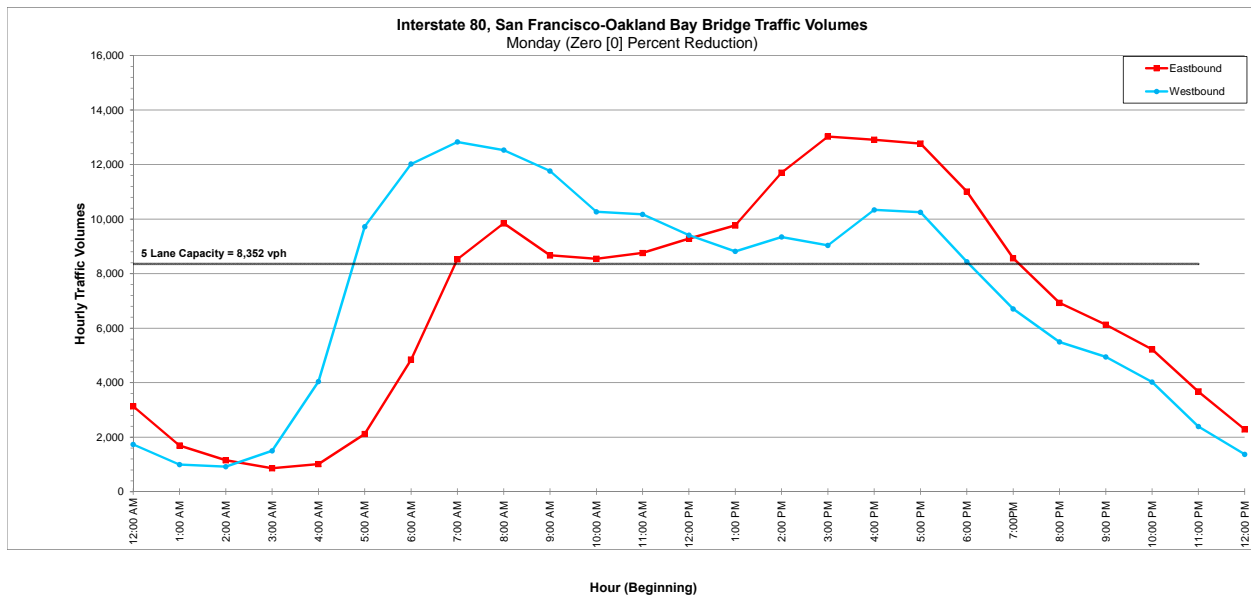
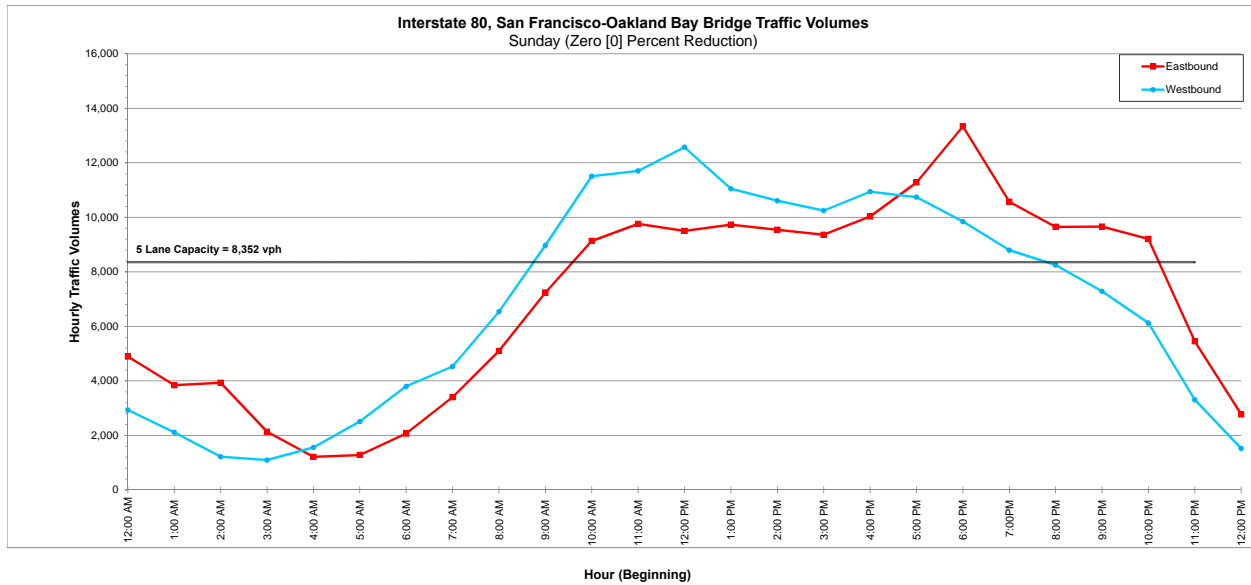
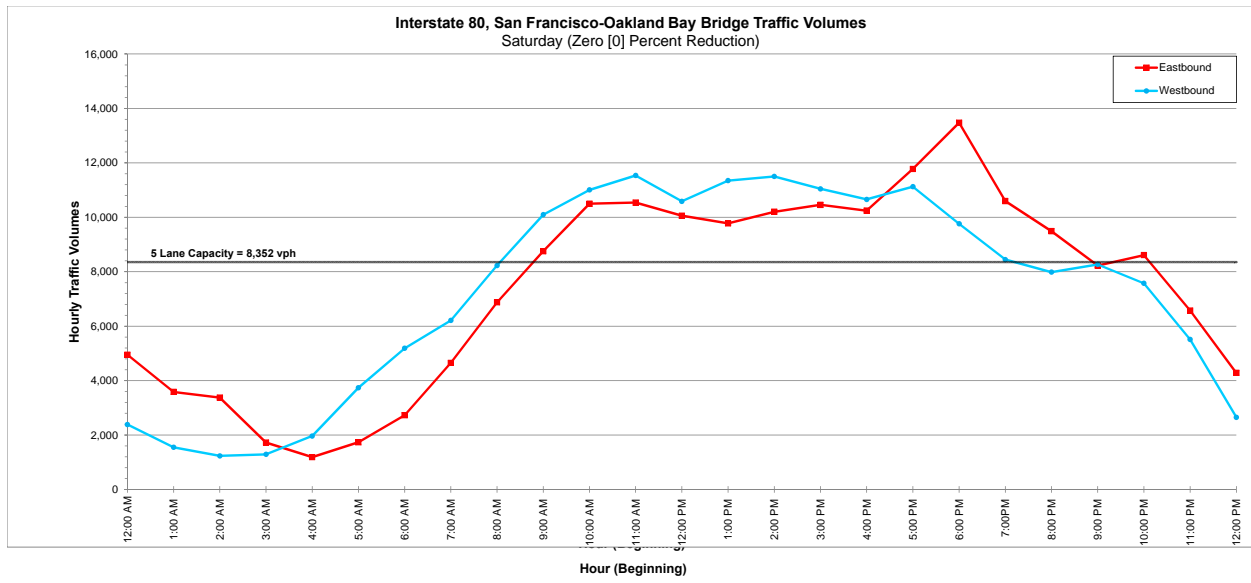


Figure 9: Weekend Closure of the GGB Detour Traffic Volumes - San Francisco-Oakland Bay Bridge (Zero [0] Percent Reduction)





### Richmond—San Rafael Bridge

The Richmond—San Rafael Bridge is a major link between Marin County and the East San Francisco Bay Area. The bridge has two lanes in each direction with a base capacity of 3,700 passenger cars. Hourly weekend (Friday through Monday morning) traffic volumes for the Richmond-San Rafael Bridge are summarized in **Figure 10**.

However, as previously discussed, it was necessary to determine a more conservative peak capacity that better reflects the atypical traffic volumes anticipated during the weekend closure of the GGB. The PHF was determined to be 0.95 in the eastbound direction and 0.90 in the westbound direction of the Richmond—San Rafael bridge. The  $f_{nv}$  was determined to be 0.97 in both directions of the Richmond—San Rafael Bridge. To reflect potential driver unfamiliarity with this detour route the standard rural  $f_p$  of 0.975 was assumed in both directions of the Richmond—San Rafael Bridge. After all adjustment factors were applied to the base capacity the peak capacity was determined to be 3,314 vph in the eastbound direction, and 3,146 vph in the westbound direction of the Richmond—San Rafael Bridge. However, for consistency and a more conservative approach to the delay calculations, the lower peak capacity of 3,146 vph in the westbound direction was applied to both directions of the Richmond—San Rafael Bridge.

Similar to the San Francisco—Oakland Bay Bridge detour analysis, it was assumed that during the weekend closure of the GGB, 30 percent of GGB traffic will forgo driving between Marin County and the City and County of San Francisco. The remaining 70 percent of GGB traffic will use alternate routes to travel between Marin County and the City and County of San Francisco. Additional analysis assuming a 20 percent, 10 percent and zero percent “no-show” rate was also conducted to develop a more comprehensive understanding of the potential effect of the weekend closure of the GGB on the Richmond—San Rafael Bridge.

As shown in **Attachment C2**, during the weekend closure of the GGB, the demand is anticipated to exceed capacity during the full weekend closure of the GGB. A queue is anticipated to occur whenever the cumulative output of the Richmond—San Rafael Bridge exceeds the cumulative demand. The time intervals when this will occur during the weekend closure of the GGB ending on Monday at 4:00 AM are summarized in **Table 10**.

Table 10: Average Queue Duration – Richmond—San Rafael Bridge

Reduction Scenario	Richmond—San Rafael Bridge Average Queue Duration			
	Eastbound		Westbound	
	Duration	Time Period	Duration	Time Period
<b>Saturday</b>				
Zero Percent	15 Hours	8:00 AM to 11:00 PM	16 Hours	8:00 AM to Midnight
10 Percent	14 Hours	8:00 AM to 10:00 PM	15 Hours (13 Hours, 2 Hours)	8:00 AM to 9:00 PM ; 10:00 PM to Midnight
20 Percent	14 Hours	8:00 AM to 10:00 PM	15 Hours (13 Hours, 2 Hours)	8:00 AM to 9:00 PM ; 10:00 PM to Midnight
30 Percent	12 Hours	9:00 AM to 10:00 PM	13 Hours	8:00 AM to 9:00 PM
<b>Sunday</b>				
Zero Percent	13 hours	12:00 AM to Midnight	14 Hours	9:00 AM to 11:00 PM
10 Percent	13 Hours	9:00 AM to 10:00 PM	14 Hours	9:00 AM to 11:00 PM
20 Percent	13 Hours	9:00 AM to 10:00 PM	14 Hours	9:00 AM to 11:00 PM
30 Percent	12 Hours	9:00 AM to 9:00 PM	12 Hours	9:00 AM to 9:00 PM
<b>Monday</b>				
Zero Percent	3 Hours	4:00 PM to 7:00 PM	3 Hours	7:00 AM to 10:00 AM
10 Percent	3 Hours	4:00 PM to 7:00 PM	3 Hours	7:00 AM to 10:00 AM
20 Percent	3 Hours	4:00 PM to 7:00 PM	3 Hours	7:00 AM to 10:00 AM
30 Percent	3 Hours	4:00 PM to 7:00 PM	3 Hours	7:00 AM to 10:00 AM

Source: AECOM, 2014.

This analysis added the relevant reduction in existing weekend NB GGB traffic onto WB Richmond—San Rafael bridge, and the relevant reduction in existing weekend SB GGB traffic onto the EB Richmond—San Rafael bridge. A summary of the anticipated traffic volumes and queue lengths during the closure of the GGB is presented in **Attachment C2** and is summarized in **Table 11**, and **Table 12** as well as in **Figure 11** through **Figure 14**.

Table 11: Detour Traffic Volumes – Richmond—San Rafael Bridge (Eastbound Interstate 580)

Hours	Golden Gate Bridge Weekend Closure Detour Traffic Volume — Richmond—San Rafael Bridge (Eastbound) <sup>(1)</sup>											
	0 Percent Reduction			10 Percent Reduction			20 Percent Reduction			30 Percent Reduction		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0:00 – 1:00	719	975	480	683	926	456	647	878	431	612	829	407
1:00 – 2:00	384	479	289	364	458	275	344	437	261	324	415	247
2:00 – 3:00	244	291	240	232	277	229	220	263	219	208	250	208
3:00 – 4:00	240	223	269	228	210	253	215	197	238	203	184	222
4:00 – 5:00	345	294	<b>865</b>	328	277	<b>814</b>	310	260	<b>763</b>	293	243	<b>712</b>
5:00 – 6:00	734	549	<b>2,216</b>	693	516	<b>2,085</b>	653	482	<b>1,954</b>	612	449	<b>1,822</b>
6:00 – 7:00	1,430	1,145	<b>4,419</b>	1,346	1,076	<b>4,132</b>	1,262	1,007	<b>3,844</b>	1,178	938	<b>3,557</b>
7:00 – 8:00	2,555	1,681	<b>6,420</b>	2,406	1,585	<b>5,982</b>	2,257	1,488	<b>5,545</b>	2,108	1,392	<b>5,107</b>
8:00 – 9:00	<b>3,600</b>	2,630	<b>6,972</b>	<b>3,380</b>	2,474	<b>6,488</b>	<b>3,161</b>	2,317	<b>6,003</b>	2,941	2,161	<b>5,519</b>
9:00 – 10:00	<b>4,733</b>	<b>4,022</b>	<b>5,505</b>	<b>4,447</b>	<b>3,778</b>	<b>5,139</b>	<b>4,161</b>	<b>3,534</b>	<b>4,772</b>	<b>3,875</b>	<b>3,289</b>	<b>4,406</b>
10:00 – 11:00	<b>5,336</b>	<b>5,548</b>	<b>4,882</b>	<b>5,031</b>	<b>5,206</b>	<b>4,578</b>	<b>4,725</b>	<b>4,865</b>	<b>4,274</b>	<b>4,420</b>	<b>4,523</b>	<b>3,970</b>
11:00 – 12:00	<b>5,796</b>	<b>6,067</b>	<b>4,838</b>	<b>5,448</b>	<b>5,687</b>	<b>4,546</b>	<b>5,099</b>	<b>5,308</b>	<b>4,253</b>	<b>4,751</b>	<b>4,928</b>	<b>3,961</b>
12:00 – 13:00	<b>5,763</b>	<b>6,603</b>	<b>4,651</b>	<b>5,390</b>	<b>6,163</b>	<b>4,375</b>	<b>5,018</b>	<b>5,722</b>	<b>4,099</b>	<b>4,645</b>	<b>5,282</b>	<b>3,824</b>
13:00 – 14:00	<b>5,830</b>	<b>6,298</b>	<b>4,615</b>	<b>5,453</b>	<b>5,884</b>	<b>4,349</b>	<b>5,075</b>	<b>5,470</b>	<b>4,082</b>	<b>4,698</b>	<b>5,056</b>	<b>3,816</b>
14:00 – 15:00	<b>5,942</b>	<b>5,796</b>	<b>5,266</b>	<b>5,579</b>	<b>5,462</b>	<b>4,978</b>	<b>5,217</b>	<b>5,129</b>	<b>4,690</b>	<b>4,854</b>	<b>4,795</b>	<b>4,403</b>
15:00 – 16:00	<b>5,354</b>	<b>5,461</b>	<b>5,701</b>	<b>5,044</b>	<b>5,162</b>	<b>5,401</b>	<b>4,734</b>	<b>4,863</b>	<b>5,100</b>	<b>4,425</b>	<b>4,565</b>	<b>4,800</b>
16:00 – 17:00	<b>5,653</b>	<b>6,288</b>	<b>6,535</b>	<b>5,360</b>	<b>5,933</b>	<b>6,203</b>	<b>5,068</b>	<b>5,578</b>	<b>5,871</b>	<b>4,775</b>	<b>5,223</b>	<b>5,538</b>
17:00 – 18:00	<b>6,114</b>	<b>6,232</b>	<b>6,954</b>	<b>5,776</b>	<b>5,908</b>	<b>6,607</b>	<b>5,437</b>	<b>5,584</b>	<b>6,259</b>	<b>5,099</b>	<b>5,261</b>	<b>5,912</b>
18:00 – 19:00	<b>5,396</b>	<b>5,417</b>	<b>5,183</b>	<b>5,117</b>	<b>5,155</b>	<b>4,902</b>	<b>4,838</b>	<b>4,893</b>	<b>4,621</b>	<b>4,560</b>	<b>4,631</b>	<b>4,339</b>
19:00 – 20:00	<b>4,402</b>	<b>4,517</b>	<b>3,545</b>	<b>4,173</b>	<b>4,291</b>	<b>3,359</b>	<b>3,943</b>	<b>4,066</b>	<b>3,172</b>	<b>3,714</b>	<b>3,840</b>	<b>2,986</b>
20:00 – 21:00	<b>3,691</b>	<b>3,659</b>	<b>2,670</b>	<b>3,482</b>	<b>3,458</b>	<b>2,526</b>	<b>3,274</b>	<b>3,256</b>	<b>2,382</b>	3,065	3,055	<b>2,238</b>
21:00 – 22:00	<b>3,202</b>	3,125	<b>2,157</b>	3,030	2,960	<b>2,045</b>	2,858	2,795	<b>1,933</b>	2,686	2,630	<b>1,822</b>
22:00 – 23:00	2,874	2,084	<b>1,362</b>	2,722	1,976	<b>1,296</b>	2,571	1,867	<b>1,229</b>	2,419	1,759	<b>1,163</b>
23:00 – 24:00	1,858	1,050	<b>743</b>	1,757	998	<b>709</b>	1,656	946	<b>674</b>	1,555	894	<b>640</b>

Source: AECOM, 2014.

**Notes:**

- **Shading** indicates detour traffic volume is above peak capacity.
- **Bold** indicates the scheduled end of the GGB weekend closure and all lanes on GGB are anticipated to be open to traffic.

<sup>(1)</sup> Peak capacity on Interstate 580 Eastbound = 3,146 vph

Table 12: Detour Traffic Volumes – Richmond—San Rafael Bridge (Westbound Interstate 580)

Hours	Golden Gate Bridge Weekend Closure Detour Traffic Volume — Richmond—San Rafael Bridge (Westbound) <sup>(1)</sup>											
	0 Percent Reduction			10 Percent Reduction			20 Percent Reduction			30 Percent Reduction		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0:00 – 1:00	1,560	1,486	924	1,453	1,386	862	1,346	1,286	800	1,239	1,186	738
1:00 – 2:00	805	935	541	747	874	506	688	813	472	630	751	437
2:00 – 3:00	632	671	292	588	624	275	545	577	257	501	530	240
3:00 – 4:00	387	394	308	363	368	295	338	342	282	314	316	269
4:00 – 5:00	456	375	<b>556</b>	438	358	<b>540</b>	420	341	<b>523</b>	402	323	<b>507</b>
5:00 – 6:00	881	549	<b>1,471</b>	844	527	<b>1,432</b>	806	506	<b>1,394</b>	769	484	<b>1,355</b>
6:00 – 7:00	1,635	1,047	<b>3,992</b>	1,575	1,004	<b>3,886</b>	1,514	962	<b>3,780</b>	1,454	919	<b>3,674</b>
7:00 – 8:00	2,960	1,838	<b>6,001</b>	2,838	1,757	<b>5,766</b>	2,715	1,675	<b>5,531</b>	2,593	1,594	<b>5,297</b>
8:00 – 9:00	<b>4,480</b>	2,990	<b>6,512</b>	<b>4,270</b>	2,834	<b>6,203</b>	<b>4,060</b>	2,678	<b>5,893</b>	<b>3,850</b>	2,521	<b>5,584</b>
9:00 – 10:00	<b>5,840</b>	<b>4,637</b>	<b>5,633</b>	<b>5,536</b>	<b>4,381</b>	<b>5,352</b>	<b>5,231</b>	<b>4,124</b>	<b>5,070</b>	<b>4,927</b>	<b>3,868</b>	<b>4,789</b>
10:00 – 11:00	<b>7,036</b>	<b>6,011</b>	<b>5,133</b>	<b>6,653</b>	<b>5,667</b>	<b>4,836</b>	<b>6,270</b>	<b>5,323</b>	<b>4,539</b>	<b>5,887</b>	<b>4,979</b>	<b>4,242</b>
11:00 – 12:00	<b>6,933</b>	<b>6,567</b>	<b>5,280</b>	<b>6,560</b>	<b>6,204</b>	<b>4,962</b>	<b>6,188</b>	<b>5,840</b>	<b>4,643</b>	<b>5,815</b>	<b>5,477</b>	<b>4,325</b>
12:00 – 13:00	<b>6,774</b>	<b>5,919</b>	<b>5,267</b>	<b>6,425</b>	<b>5,616</b>	<b>4,940</b>	<b>6,077</b>	<b>5,314</b>	<b>4,612</b>	<b>5,728</b>	<b>5,011</b>	<b>4,285</b>
13:00 – 14:00	<b>6,548</b>	<b>5,880</b>	<b>5,339</b>	<b>6,221</b>	<b>5,585</b>	<b>5,013</b>	<b>5,895</b>	<b>5,289</b>	<b>4,687</b>	<b>5,568</b>	<b>4,994</b>	<b>4,361</b>
14:00 – 15:00	<b>6,272</b>	<b>5,255</b>	<b>5,622</b>	<b>5,972</b>	<b>4,993</b>	<b>5,241</b>	<b>5,672</b>	<b>4,730</b>	<b>4,860</b>	<b>5,372</b>	<b>4,468</b>	<b>4,478</b>
15:00 – 16:00	<b>5,750</b>	<b>5,054</b>	<b>6,361</b>	<b>5,462</b>	<b>4,817</b>	<b>5,919</b>	<b>5,173</b>	<b>4,580</b>	<b>5,476</b>	<b>4,885</b>	<b>4,344</b>	<b>5,034</b>
16:00 – 17:00	<b>5,604</b>	<b>4,979</b>	<b>6,731</b>	<b>5,297</b>	<b>4,733</b>	<b>6,269</b>	<b>4,990</b>	<b>4,487</b>	<b>5,807</b>	<b>4,683</b>	<b>4,241</b>	<b>5,345</b>
17:00 – 18:00	<b>6,596</b>	<b>6,259</b>	<b>7,205</b>	<b>6,174</b>	<b>5,873</b>	<b>6,710</b>	<b>5,751</b>	<b>5,486</b>	<b>6,214</b>	<b>5,329</b>	<b>5,100</b>	<b>5,719</b>
18:00 – 19:00	<b>7,506</b>	<b>7,508</b>	<b>6,285</b>	<b>6,944</b>	<b>6,944</b>	<b>5,866</b>	<b>6,382</b>	<b>6,379</b>	<b>5,446</b>	<b>5,819</b>	<b>5,815</b>	<b>5,027</b>
19:00 – 20:00	<b>4,547</b>	<b>4,687</b>	<b>4,162</b>	<b>4,233</b>	<b>4,376</b>	<b>3,888</b>	<b>3,920</b>	<b>4,065</b>	<b>3,615</b>	<b>3,606</b>	<b>3,754</b>	<b>3,341</b>
20:00 – 21:00	<b>3,310</b>	<b>3,744</b>	<b>2,962</b>	<b>3,107</b>	<b>3,513</b>	<b>2,766</b>	<b>2,904</b>	<b>3,282</b>	<b>2,570</b>	<b>2,701</b>	<b>3,051</b>	<b>2,374</b>
21:00 – 22:00	<b>3,256</b>	<b>3,652</b>	<b>2,564</b>	<b>3,068</b>	<b>3,409</b>	<b>2,401</b>	<b>2,880</b>	<b>3,165</b>	<b>2,237</b>	<b>2,691</b>	<b>2,922</b>	<b>2,074</b>
22:00 – 23:00	<b>3,641</b>	2,881	<b>1,949</b>	<b>3,410</b>	2,688	<b>1,826</b>	<b>3,180</b>	2,495	<b>1,702</b>	2,949	2,301	<b>1,579</b>
23:00 – 24:00	2,274	1,655	<b>1,271</b>	2,120	1,548	<b>1,192</b>	1,966	1,442	<b>1,112</b>	1,812	1,335	<b>1,033</b>

Source: AECOM, 2014.

**Notes:**

- **Shading** indicates detour traffic volume is above peak capacity.
- **Bold** indicates the scheduled end of the GGB weekend closure and all lanes on GGB are anticipated to be open to traffic.

<sup>(1)</sup> Peak capacity on Interstate 580 Westbound = 3,146 vph

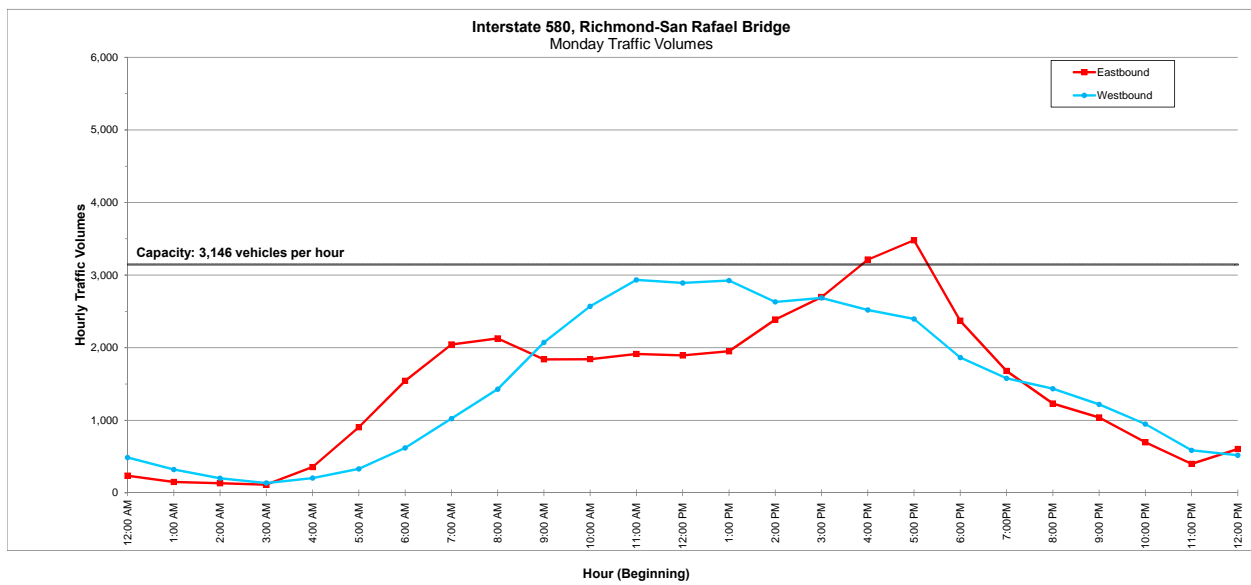
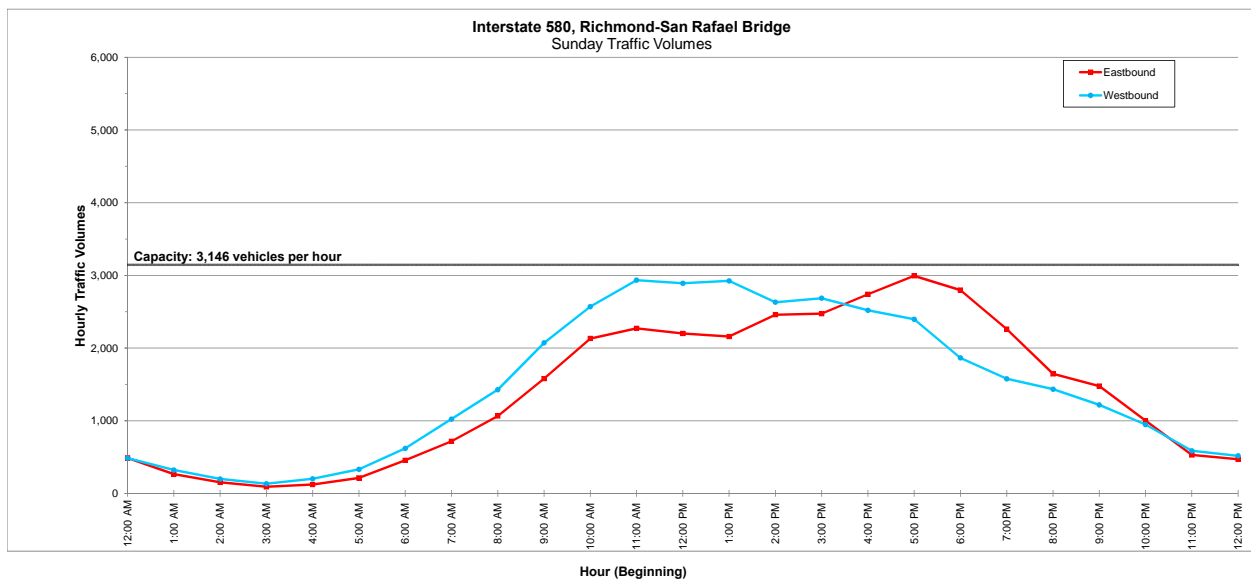
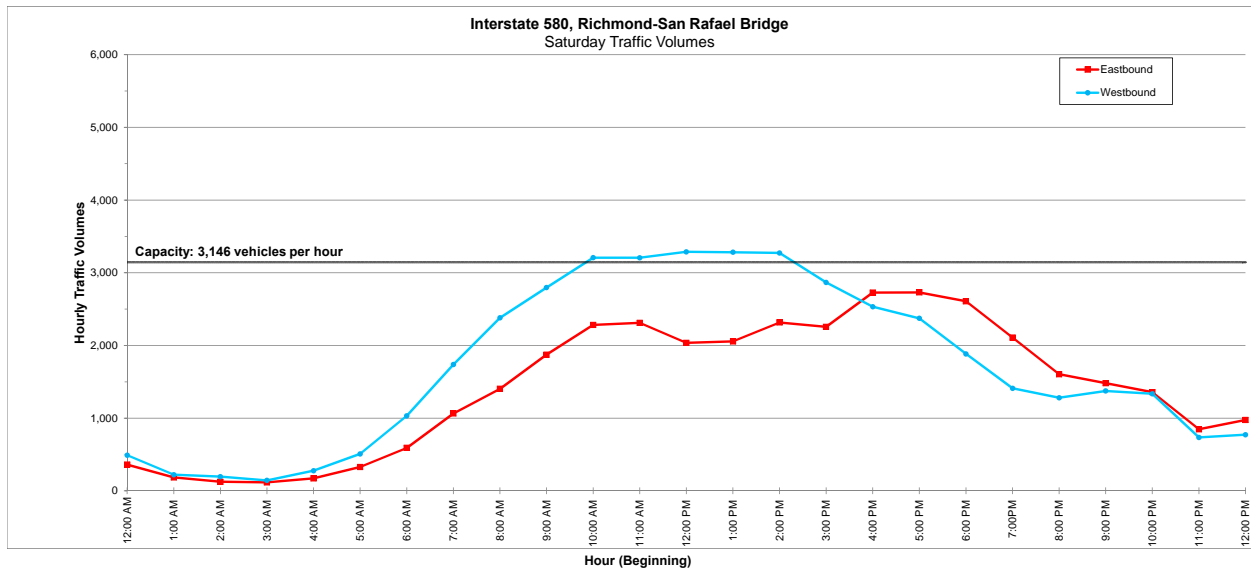


Figure 11: Weekend Closure of the GGB Detour Traffic Volumes - Richmond-San Rafael Bridge (30 Percent GGB Traffic Reduction)

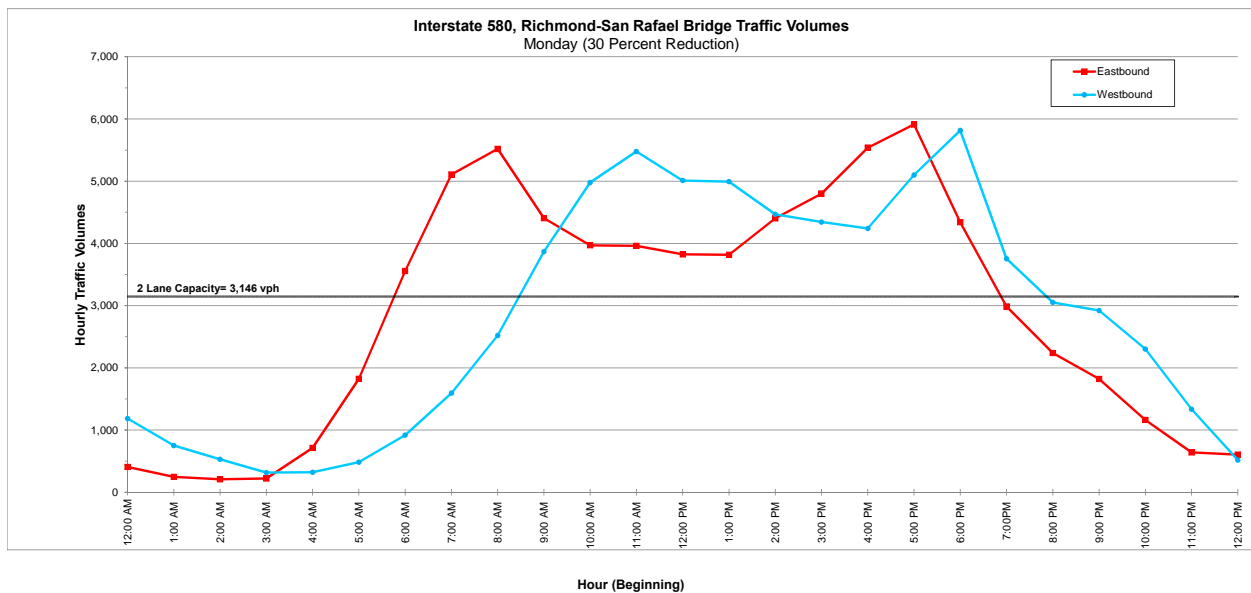
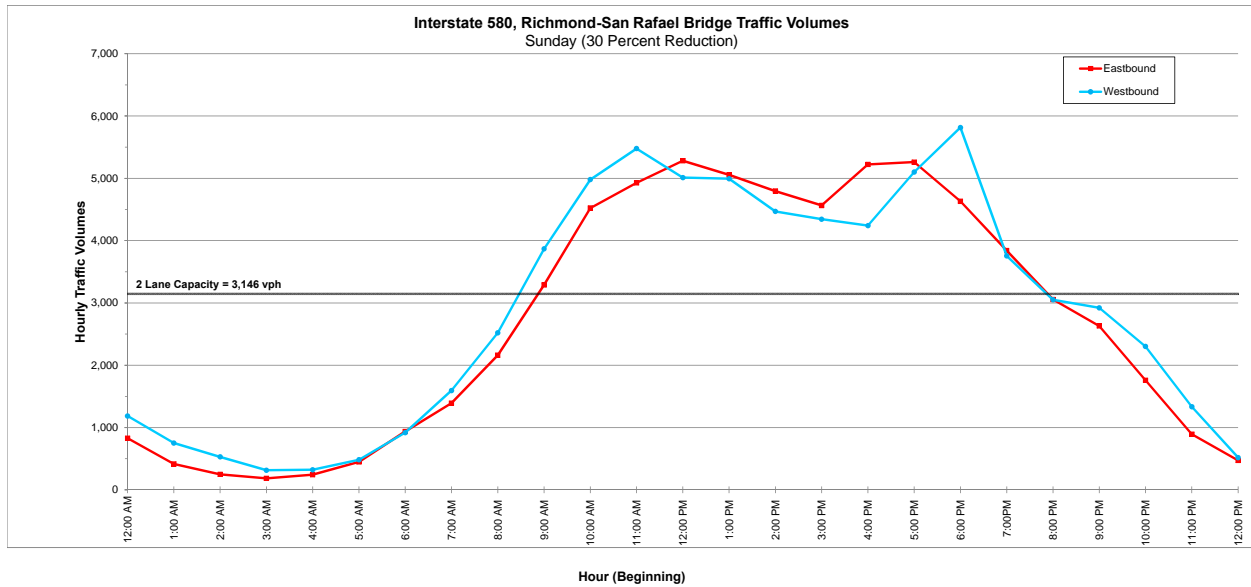
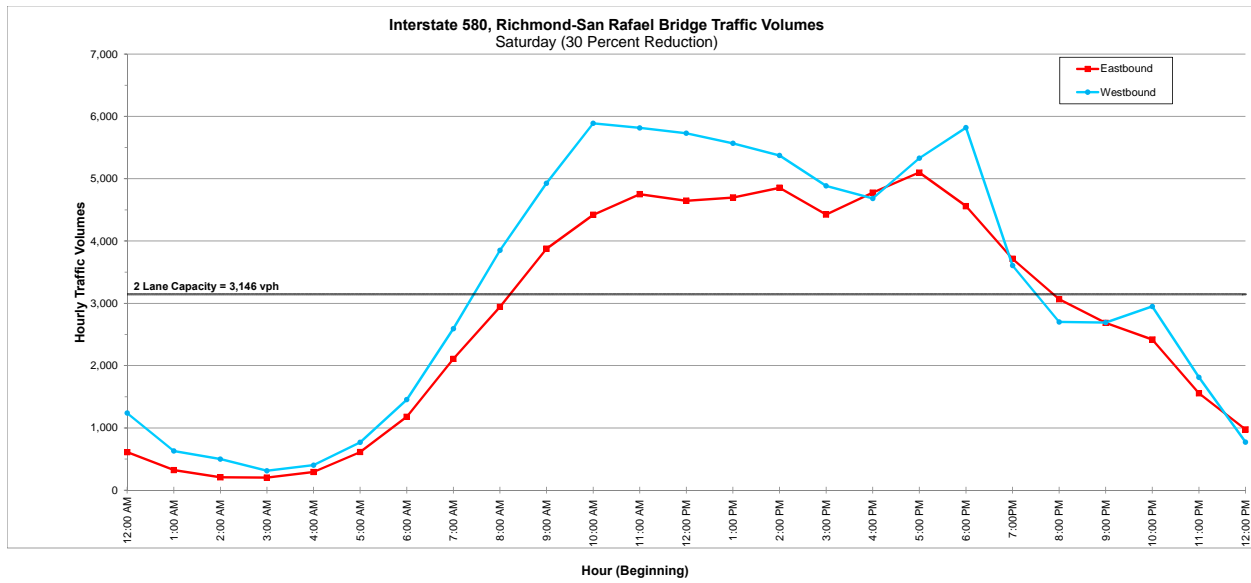


Figure 12: Weekend Closure of the GGB Detoure Traffic Volumes - Richmond-San Rafael Bridge (20 Percent GGB Traffic Reduction)

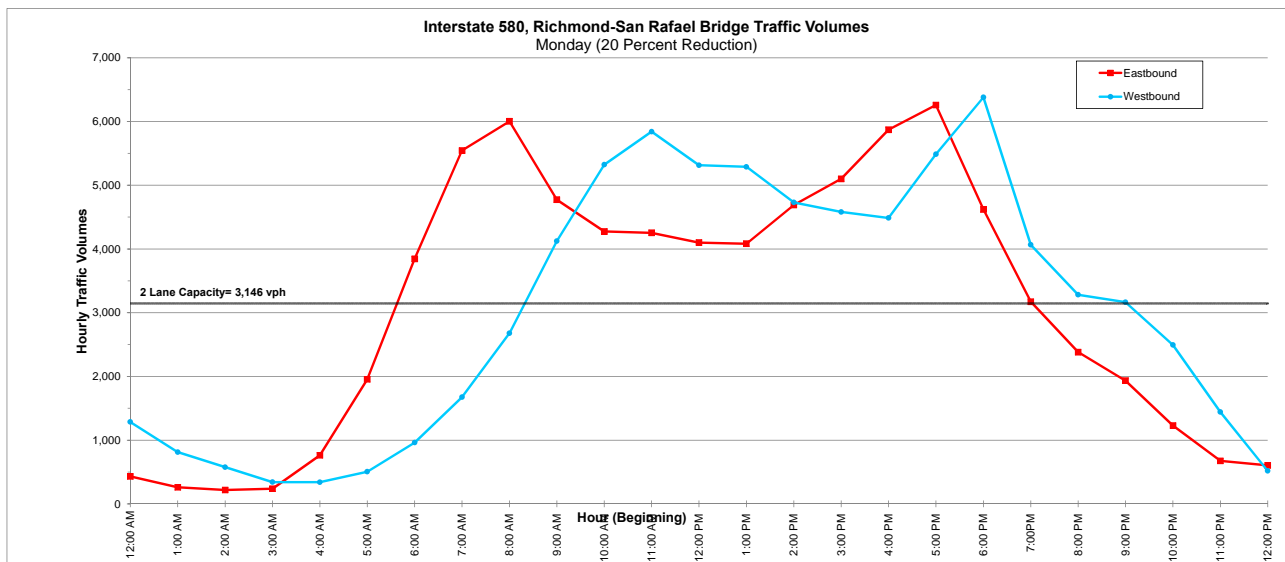
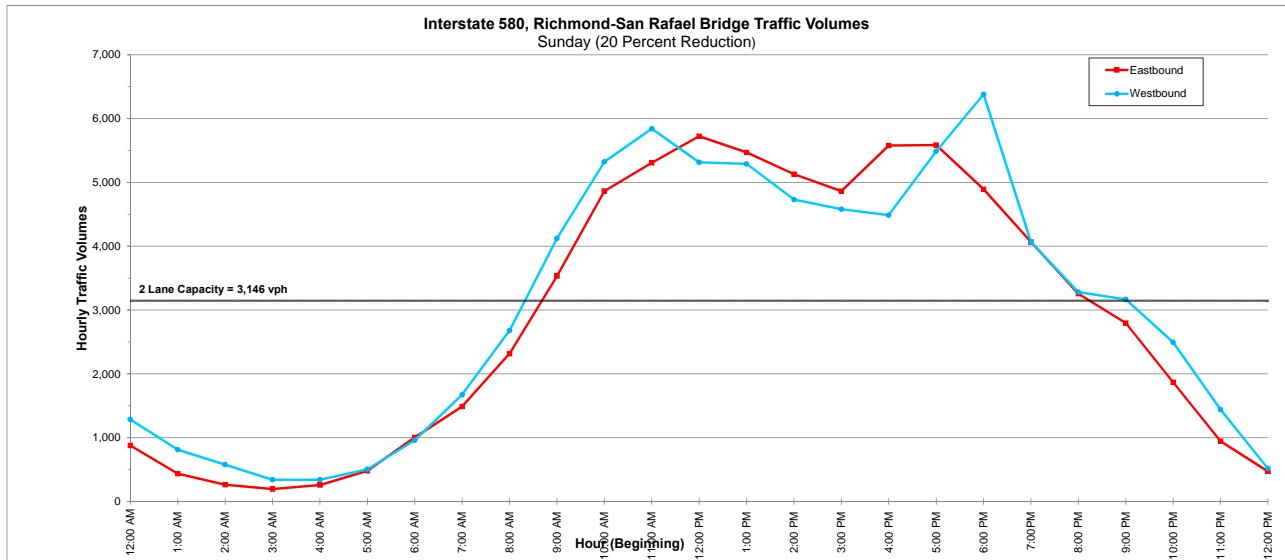
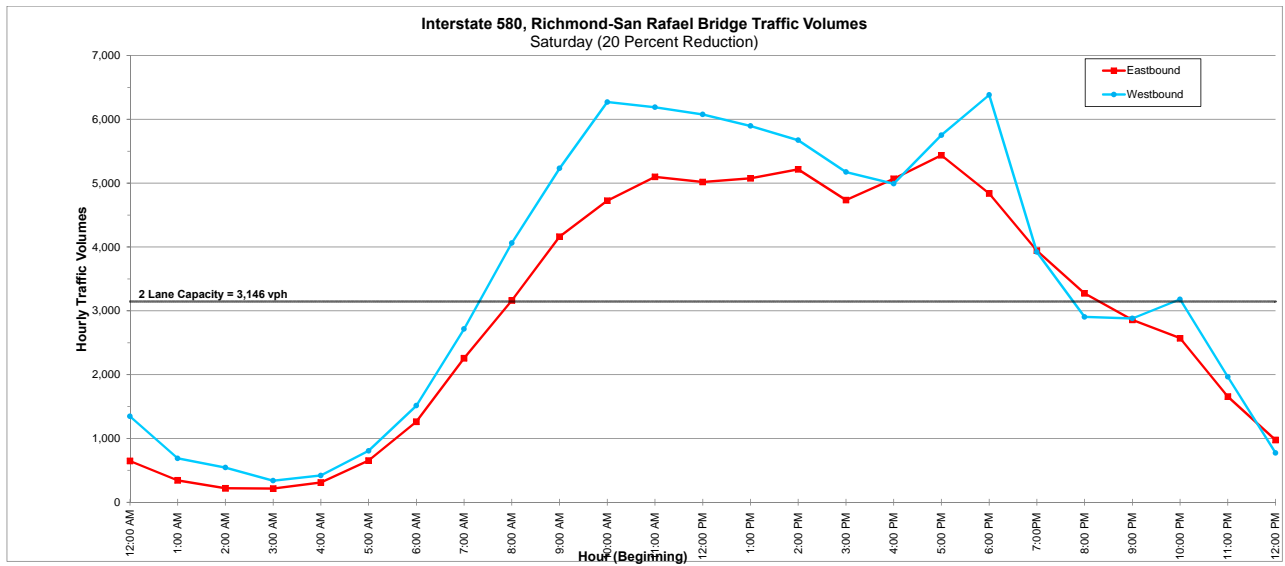


Figure 13: Weekend Closure of the GGB Detour Traffic Volumes - Richmond-San Rafael Bridge (10 Percent GGB Traffic Reduction)

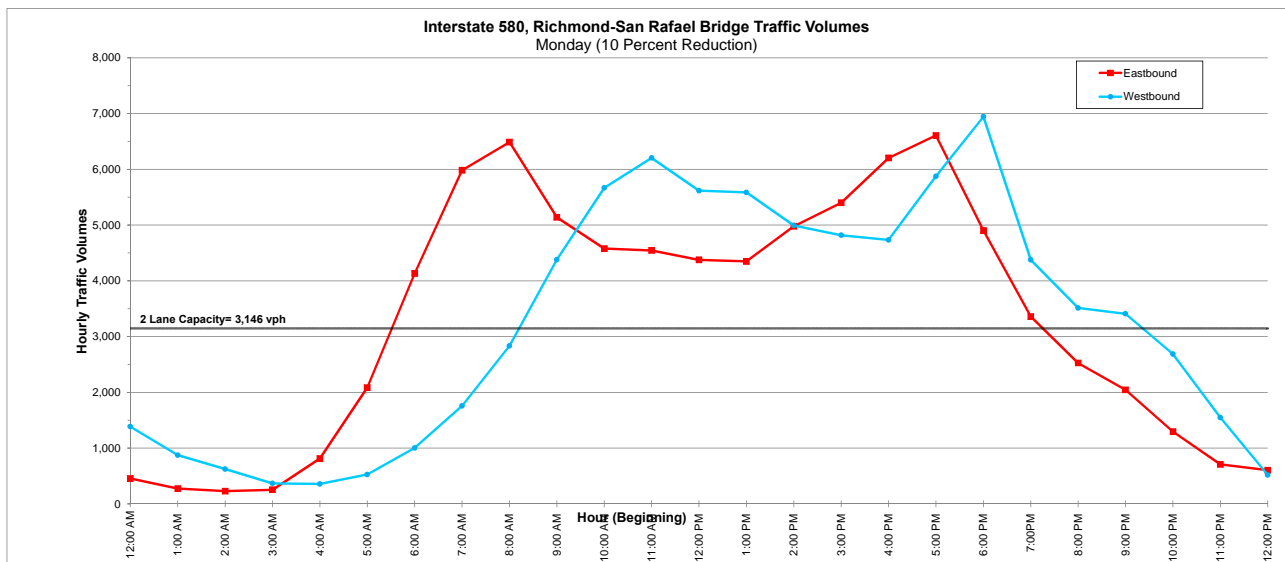
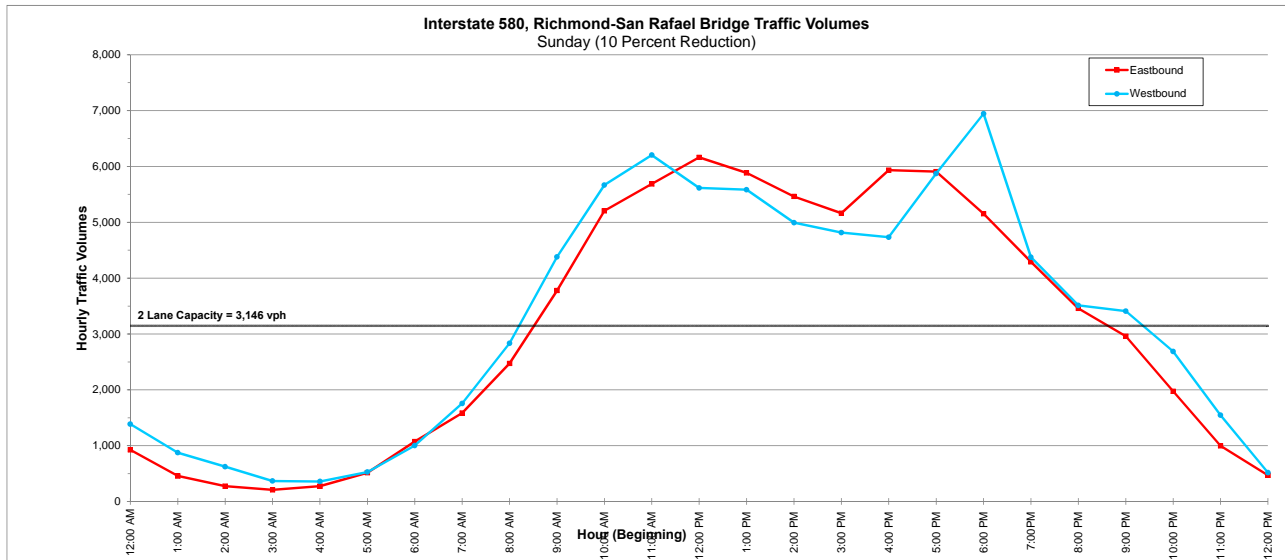
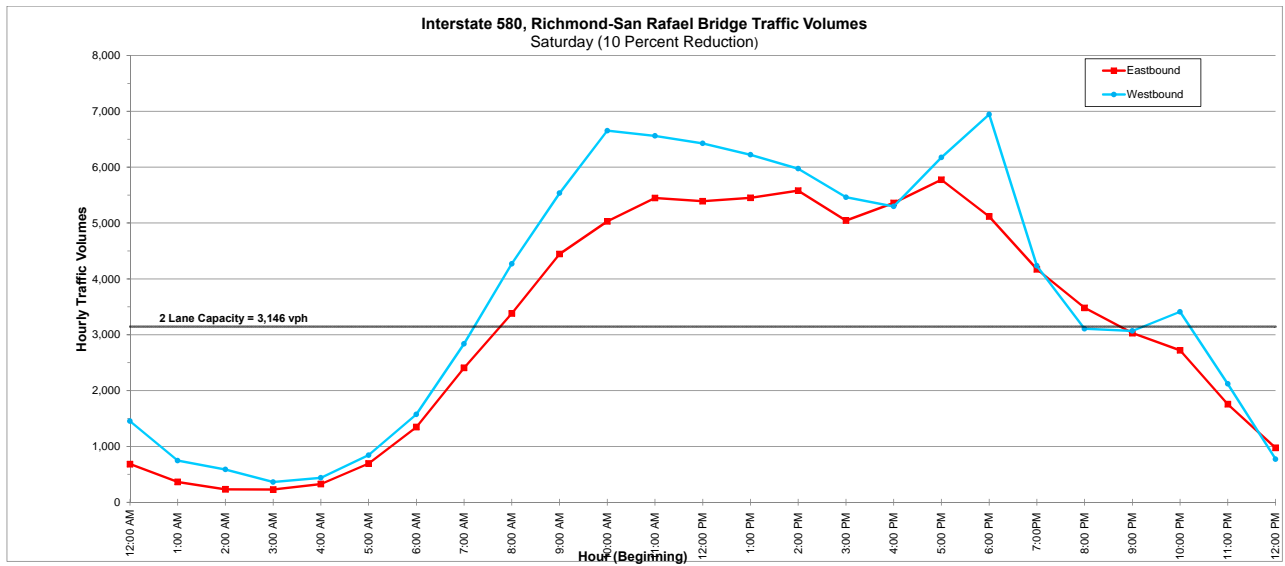
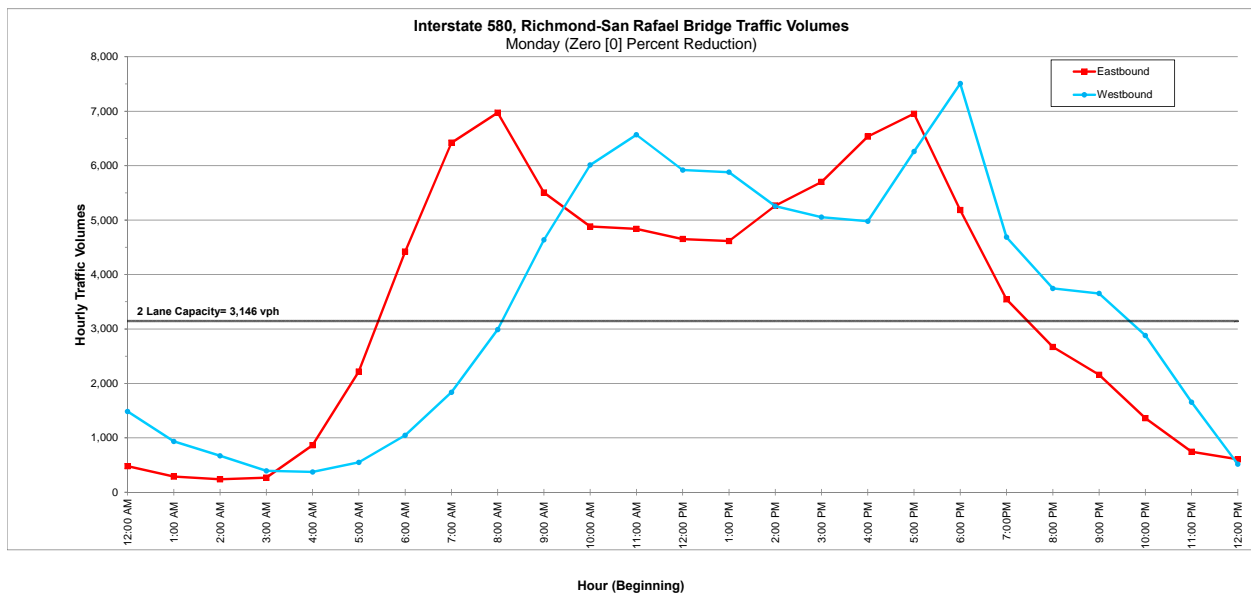
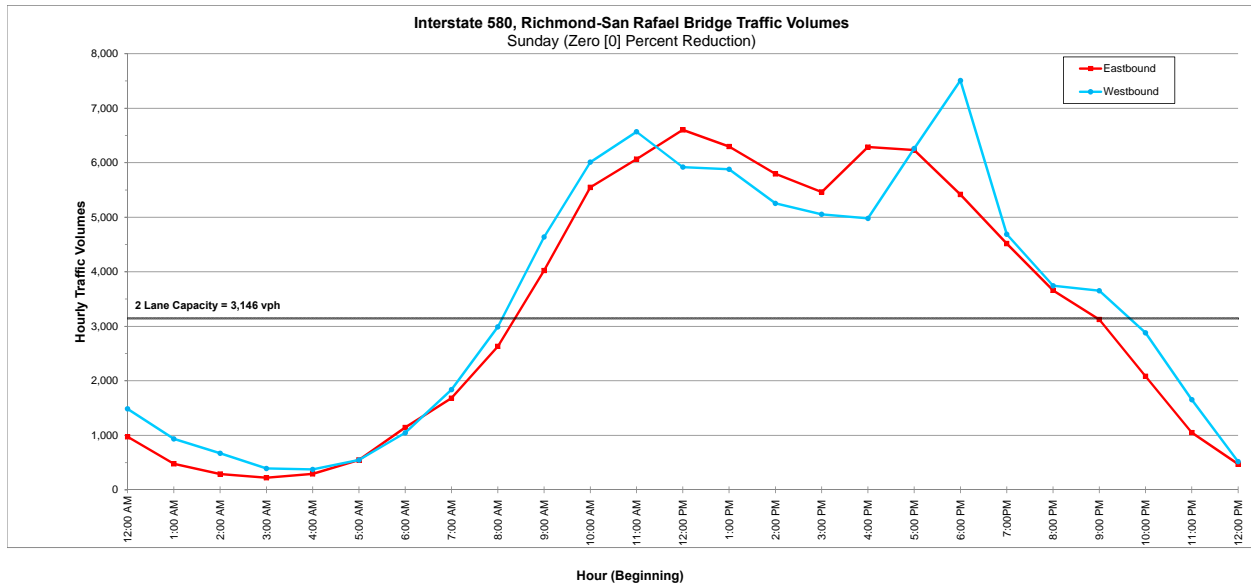
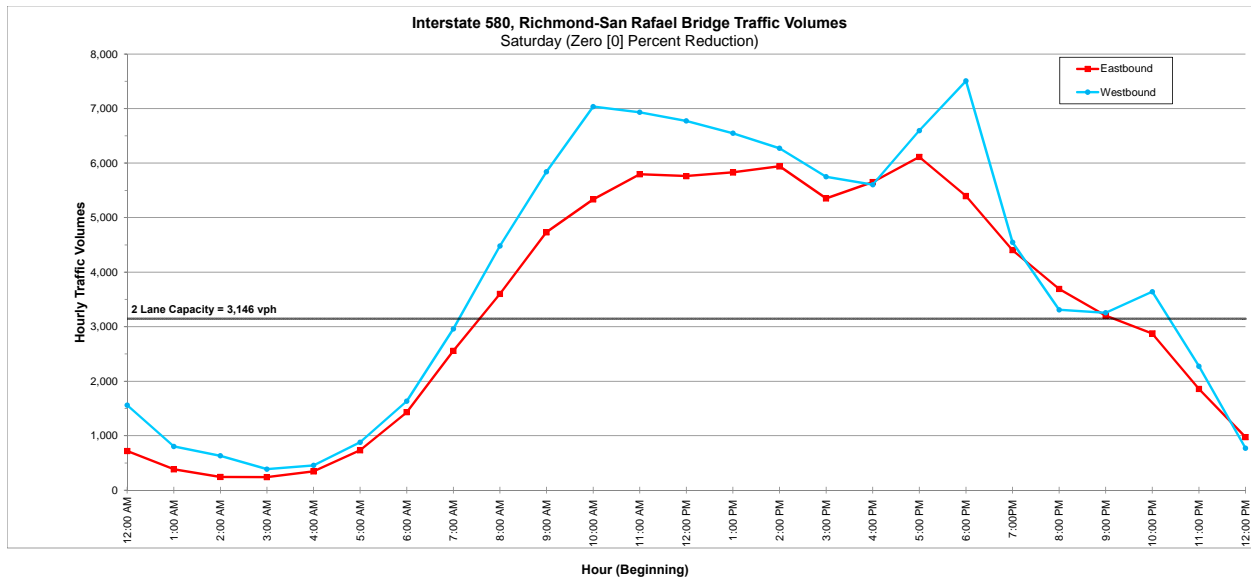


Figure 14: Weekend Closure of the GGB Detour Traffic Volumes - Richmond San Rafael Bridge (Zero [0] Percent Reduction)





As shown in **Attachment C2**, the demand on the Richmond—San Rafael Bridge is anticipated to exceed capacity during the full weekend closure of the GGB demand under all reduction scenarios. The bridge would operate over capacity for periods of up to 16 hours (discontinuously). While associated delays will be an inconvenience to travelers they are unavoidable to ensure both public and worker safety during the installation of the MMB.

**Table 13** summarizes the queue distance, total duration and maximum queue delay along both the Richmond—San Rafael Bridge, and the San Francisco—Oakland Bay Bridge during the full weekend closure of the GGB.

**Table 13: GGB Closure Queue Summary**

Volume Reduction Scenario	RSRB I-580		SFOBB I-80	
	Queue Distance, miles (Queue Duration, hours) [Queue Delay, hours]		Queue Distance, miles (Queue Duration, hours) [Queue Delay, hours]	
	Eastbound	Westbound	Eastbound	Westbound
<b>Zero Percent</b>	0 to 16.5 (31) [2.1]	0 to 19.5 (33) [2.5]	0 to 8.5 (31) [1.0]	0 to 7.6 (28) [0.9]
<b>10 Percent</b>	0 to 14.4 (30) [1.8]	0 to 17.3 (32) [2.2]	0 to 7.6 (31) [0.9]	0 to 6.8 (27) [0.8]
<b>20 Percent</b>	0 to 12.3 (30) [1.6]	0 to 15.4 (32) [2.0]	0 to 6.6 (28) [0.8]	0 to 5.9 (26) [0.7]
<b>30 Percent</b>	0 to 10.5 (27) [1.3]	0 to 13.5 (28) [1.7]	0 to 5.6 (27) [0.7]	0 to 5.1 (25) [0.6]

Source: AECOM, 2014.

The District has developed a public information outreach plan, summarized in Section 4.4 that is focused on reducing the travel demand during the weekend closure of the GGB, and in turn minimizing the anticipated delay on the Richmond—San Rafael Bridge.

### San Francisco International Airport

The San Francisco International Airport is a major international airport serving the San Francisco Bay Area. During the weekend closure of the GGB, travelers going to and from the airport from the County of Marin and other parts of the North Bay Area will need to access the airport using alternate routes described in this TMP. Travelers will need to account for anticipated delays associated with detour routes to be used during the weekend closure of the GGB. In addition to other public information measures detailed in Section 4.4, notification of the full weekend closure of the GGB should be sent to the San Francisco International Airport, two weeks in advance to alert all employees, airlines, air passengers and greeters of the closure, all applicable detour routes and transit options available to travelers.

## 3.11 Ongoing/Planned Projects in the Project Vicinity

The Phase II construction of the Presidio Parkway Project is located at the southern approach to the GGB where the MMB will terminate. Phase II construction will be taking place concurrently within the corridor and construction activities may coincide with construction of the MMB. Effective coordination between these projects is needed to minimize overall delays along the US 101 corridor. Coordination typically involves scheduling multiple projects within the corridor to ensure that adequate capacity remains available to accommodate the anticipated travel demand. Coordination ensures that construction activities with overlapping work zones do not occur simultaneously. Coordination requires communicating the timing of lane closures, and detour routes.

Construction of the Phase III of the Golden Gate Bridge Seismic Retrofit Project is planned for completion in 2013/2014. Phase IIIA involves the retrofit of the North Anchorage Housing and Pylon N1, and the construction is planned for completion in 2013/2014. Phase IIIB involves the retrofit of the main suspension span, main towers, south tower pier and fender. Phase IIIB will be sent out for bid in 2013/2014 and will take up to four years to complete. Construction activities of the Project will need to be coordinated with the Golden Gate Bridge Seismic Retrofit Project once more information about the construction schedule becomes available.

## 4.0 Transportation Management Plan Strategies

The success of the TMP depends on consensus building, teamwork, compliance, and cooperation among all Project stakeholders. The TMP team for the Golden Gate Bridge Moveable Median Barrier Project includes (but is not limited to) Caltrans, the District, local government agencies, law enforcement agencies, transit operators, and transportation planning agencies.

The following sub-sections will describe the TMP measures that are recommended to address the potential transportation impacts during each phase of construction activities for the Golden Gate Bridge Moveable Median Barrier Project. This chapter also describes recommended TMP strategies to mitigate construction-related traffic delays. The TMP strategies are of a general nature intended to mitigate the overall level of congestion, and address incidents, monitoring, and contingencies.

The goal of this TMP includes:

- Minimize the impacts of reduced mobility and access through the work zone.
- Provide a safe environment for construction personnel and motoring public.
- Inform the general public about construction activities, potential impacts, and alternatives, before and during their travel.
- Address public concern about construction-related traffic impacts through public outreach programs.
- Manage and maintain traffic flow through work zones during both short-term and extended closures.
- Reduce traffic demand through the work zone.

TMP recommendations are grouped into the following broad transportation management strategies:

- Construction and coordination strategies;
- Public awareness strategies;
- Traveler and motorist Information strategies;
- Incident prevention, management, and contingency planning strategies; and,
- Demand management strategies.

These strategies may be modified, changed or eliminated as necessary, with consultation from the District and Caltrans District 4 Office of Traffic Operations, to maximize safety and/or to minimize traffic congestion at the construction site.

### 4.1 TMP Strategies Summary

The principle focus of the TMP is to implement extensive public outreach to encourage motorists to alter their travel plans such that they drive during off-peak or non-construction periods, use alternate routes or telecommute to work if applicable. These recommendations aim to reduce the likelihood of extensive congestion in the vicinity of the Project and on alternate routes during ramp and full GGB closures. Information will be made available to the public for use during pre-trip planning through press releases, telephone hotline, television (TV) news, 511 and internet, targeted outreach efforts and stakeholder meetings. Other information will assist motorists while en-route to their destinations through the use of radio broadcasts, static signs, changeable message signs, and highway advisory radio. Additional strategies focus on management of the remaining traffic through monitoring of congestion, using CHP to assist in traffic control, and provide service patrol assistance to quickly clear work zone incidents and restore traffic flows. **Table 14** presents the individual measures and actions within each recommended strategy.

Table 14: Recommended TMP Strategies

Construction Strategies	Public Information	Traveler Information	Incident Management	Traffic Monitoring	Contingency Planning
<ul style="list-style-type: none"> <li>• Construction phasing and staging</li> <li>• Lane Closures: coordinate lane closures with related construction projects</li> <li>• Off-peak/night/weekend Work</li> <li>• Reduced Speed zones</li> <li>• Coordinate with adjacent construction</li> <li>• Traffic control improvements</li> </ul>	<ul style="list-style-type: none"> <li>• Press releases</li> <li>• Telephone hot line and 511</li> <li>• Local cable TV and news</li> <li>• Internet and 511.org</li> </ul>	<ul style="list-style-type: none"> <li>• Changeable Message Signs</li> <li>• Static ground mounted signs</li> <li>• Highway Advisory Radio</li> </ul>	<ul style="list-style-type: none"> <li>• Construction zone enhanced enforcement program</li> <li>• Transportation Management Center (TMC)</li> <li>• Traffic Control Officers</li> <li>• Traffic Management Team</li> <li>• Freeway Service Patrol</li> </ul>	<ul style="list-style-type: none"> <li>• Visual Observation during closure</li> <li>• Traffic counts</li> <li>• Delay measurement and travel time surveys</li> <li>• Reinforcement of detour routes</li> <li>• Traffic management team</li> <li>• Evaluate TMP strategies</li> </ul>	<ul style="list-style-type: none"> <li>• Flagman Control</li> <li>• Local Police Traffic Control</li> <li>• Modify Construction Timing or Early Pick-up</li> <li>• Media Alert/SigAlert 511 Alert</li> <li>• Relocation of CMS (Truck Mounted CMS)</li> <li>• Emergency/Contingency/Contacts</li> <li>• Standby equipment list</li> <li>• Contractors contingency plan</li> <li>• Alternate routes</li> </ul>

Source: AECOM, 2014.

## 4.2 Construction Strategies

Construction strategies are measures that are included in the plans and specifications, and are performed by the Contractor during construction. The objectives of construction strategies are to reduce construction time, minimize traffic disruptions, and avoid potential safety problems during construction. One of the primary construction considerations is to schedule work, and temporary closures around off-peak times such as weekends, late night or early morning hours to minimize impacts to traffic. Lane closure charts were developed to restrict the work to off-peak times and are included as **Attachment C1** for the Short-Term Project and for the full GGB closure. These charts shall be used to schedule lane closures for construction. In addition, to encourage the contractor to complete the work in a timely manner, the Project will follow Caltrans' liquidated damage concept to execute the delay penalties that will be added to the Golden Gate Bridge MMB contract.

The Contractor will be required to monitor activities and make decisions regarding implementation of a contingency plan. The contingency plan shall identify key activities and personnel. A communication plan shall also be included with names and phone numbers.

### 4.2.1 Construction Staging/Phasing

The Short-Term Project is comprised of four stages of construction as shown in **Attachment B1**. The Long-Term Project is comprised of three stages of construction, shown in **Attachment B5**. Each stage of construction is devised to minimize traffic impacts by completing a new or temporary facility before beginning a subsequent stage or closing a facility.

### 4.2.2 Lane Requirement Charts

A lane requirement chart is a standard requirement in the Caltrans' Standard Special Provision (SSP) that provides allowable time periods for construction activities. The charts shall be enforced to minimize traffic impacts. Lane requirement charts for the Project are provided as **Attachment C1** for the Short-Term Project and the full GGB closure.

### 4.2.3 Construction Detours

A complete set of construction detour routes to be utilized for the Short-Term Project are provided as **Attachment B4** for the full GGB closure during the Short-Term Project. A discussion of the delay and associated delay cost is included in Section 3.9.

#### 4.2.4 Off-Peak/Night/Weekend Closure

The lane closure charts require that closures occur during off-peak, nighttime, and weekend periods. The planned full closure of the GGB will occur during a weekend and will last no longer than 52 hours, beginning at midnight on Friday and ending no later than the following Monday at 4:00 AM.

#### 4.2.5 Reduced Speed Zones

Construction zones will require reduced speed zones supported by the presence of CHP (COZEED). Ground mounted signs and/or portable CMS (PCMS) will be used to identify work zone speed restrictions and enforcement consequences.

#### 4.2.6 Construction Vehicles Entering/Exiting the Work Zone

Construction vehicles getting in and out of the work zone should be regulated by the following protocols:

- The Contractor shall prepare and submit a Contractor's vehicular traffic plan one week in advance of the start of work to the Engineer for review and approval.
- The Contractor shall make available acceleration and deceleration areas parallel with Route 101 traffic where construction vehicles are exiting and entering the work areas. These locations shall be a minimum of 11 ft wide, paved area with a minimum distance of 1,500 ft, including taper, and must have a clear line of sight for traffic.
- The Contractor shall install all warning signs and traffic control devices as necessary and as ordered by the Engineer to inform the motorists of the movement of construction-related vehicles.
- The Contractor shall be responsible for having all equipment and vehicle operators understand and follow an approved traffic plan.
- Construction vehicles entering or exiting the center median without a lane closure in place shall not be allowed.
- The Contractor shall install all "Slow for the Cone Zone" warning signs as necessary and as ordered by the Engineer to inform the motorists of the construction zone. "Slow for the Cone Zone" is a social marketing, public awareness campaign that warns California motorists of the hazards associated with driving recklessly through California's highway work zones.

### 4.3 Coordination Strategies

Simultaneous construction activities on the GGB and freeways serving as alternate routes should be avoided whenever possible. It is critical for all Project implementation teams within Route 101 corridor to interface and coordinate with each other. Effective coordination will minimize the number of overall delays on Route 101 corridor.

#### 4.3.1 Establish Hierarchy of Conflict Resolution

Clear responsibilities and hierarchy of decision making/conflict resolution should be established and communicated to the contractor during pre-construction meetings.

#### 4.3.2 Coordinate Closures with Adjacent Construction Projects and Local Agencies

Coordination typically involves scheduling multiple projects within the corridor to ensure that adequate capacity remains available to accommodate the anticipated travel demand. Coordination ensures that construction activities with overlapping impacts do not occur simultaneously. Coordination requires communicating the timing of lane closures, identifying incidents, and coordinating detour routes between adjacent projects.

The contractor and Resident Engineer (RE) will need to coordinate Project closures with closures and construction activities at the other construction projects within Route 101 corridor, specifically the Phase II construction of the 101 Doyle Drive/Presidio Parkway Project, to minimize the effect of simultaneous closures. In addition, the contractor and/or RE should notify local agencies and other key stakeholders prior to any closures and ensure that the closures will not coincide with any other agency's construction or event activities. Agency and stakeholder notification should occur at least 30 days prior to closures, and again several days prior to the planned closures.

#### 4.3.3 Coordination with Emergency Services for Alternate Routes

In the event that an incident occurs on a detour route it is possible that the route may become blocked to emergency vehicles. Therefore, in coordination with emergency service providers, secondary routes should be identified as an alternative to main detour routes so that emergency service mobility is maintained.

#### 4.3.4 Portable Changeable Message Signs

The fixed CMS locations should be supplemented with PCMS. The Contract Plans will identify and show locations of these PCMS signs to assist motorists with the detour routes, incidents, and advanced closure notification. PCMS are truck or trailer mounted and may be controlled locally or remotely. PCMS will be part of this TMP for traffic control purposes.

The Project construction RE is responsible for monitoring message content and CMS deployment. At least one PCMS should be utilized at the beginning of each traffic control zone for speed reduction. PCMS shall be installed 72 hours in advance of any given traffic control operation. Detailed plans for proposed PCMS locations are included as **Attachment B4**.

## 4.4 Public Information Outreach/Public Awareness Campaign

Public information is a vital part of this TMP. The objective of the public information campaign is to disseminate timely information related to construction activities. The scope of this campaign includes informing the public about the construction Project and its impacts on the traveling public, and to provide information on various measures commuters may use to avoid anticipated delays due to construction. Additionally, the public awareness campaign will inform motorists regarding the full weekend closure of the GGB with specific dates and times, as well as available transportation services that must be considered as an optional measure. Elements of the public information campaign are described in this section.

### 4.4.1 Paid Advertising and Press Releases

Project and construction information will be released to the press through Golden Gate Bridge Public Affairs Office. The District will develop press releases and distribute to local media with Project and construction information. The District will also send updates to the media as needed. Any press release will be posted on the District's website. The District has developed an outreach plan to facilitate the public awareness campaign. This plan is summarized in **Table 15**.

### 4.4.2 Notification to Business and Government Agencies

Timely notification of planned closures will allow local businesses, government agencies and transit operators to adjust to the upcoming closure, adjust transportation schedules, and to notify patrons of upcoming events and potential delays. To ensure that adequate time is provided to prepare and send notifications.

The RE should notify the Transportation Management Plan Office and the Caltrans Public Information Office on an ongoing basis and a minimum of three weeks in advance of the start of any bridge closures. The notifications should contain materials suitable for photocopying by employers for final distribution to employees and stakeholders.

### 4.4.3 Notification to Local Officials

Local law enforcement and other public safety officials should be notified of the full weekend closure of the GGB. The Caltrans Public Information Office will prepare announcements for distribution to the city clerks in the counties of Marin, San Francisco, Sonoma, Napa, Alameda, Contra Costa, Solano, Santa Clara, and San Mateo.

### 4.4.4 Notification to Transit Agencies

Information regarding bridge, roadway, and ramp closures should be provided to transit providers in addition to bus and ferry services provided by the District, including but not limited to San Francisco Municipal Railway (MUNI), Bay Area Rapid Transit (BART), Alameda-Contra Costa County Transit (AC Transit). Notification of these closures should be provided as early as possible so that transit agencies can adjust their transit services and inform riders as needed. Transit agencies should be reminded of the actual planned full closure two weeks in advance. Coordination should be conducted with transit agencies in advance of the bridge closures to determine any transit services that require modifications and agreements.

Notification of bridge closures should be sent to all Bay Area trucking companies so they can plan their goods delivery schedules approximately two weeks in advance. Companies that should be notified include but are not limited to the following:

- Supermarkets (Trader Joe's, Safeway, etc.);
- Newspaper companies (San Francisco Chronicle, Marin Independent Journal, Oakland Tribune, etc.);
- Courier companies (Federal Express, United States Postal Service, etc.); and,
- Taxi providers and airport shuttle.

Table 15: Golden Gate Bridge District Moveable Median Barrier Outreach Plan

Activity	Source	Size	Active or Run Date(s)
Television	Comcast		Mid-Nov- Jan
Online Advertising	Targeting both tourism sites and Bay Area residents		Nov-Jan
Radio Traffic Announcements	English, Chinese, and Spanish	15 and 30 second spots	12/29-1/11
Display Ads	Marin Independent Journal (8)	3 col x 6 inches	Dec-Jan
	San Francisco Chronicle (12) – Full Run	3 col x 6 inches	Dec-Jan
	Commuter Times (1)	¼ page	Dec-Jan
	La Voz (Spanish newspaper) (2)	¼ page	January
	World Journal and Sing Tao (Chinese newspapers) (6)	¼ page	January
	Press Democrat (8)	3 col x 6 inches	Dec-Jan
Passenger Advisory Committees	Cynthia (ACA) Ron (BPAC) Harvey (FPAC)		
Bus/Vessel Posters	English and Spanish (also at D-3 boarding area)	11 inches x 17 inches	
Ferry Terminal Signage			
Gazette Article			
FogHorn Employee Newsletter			
SFTV	Hotel and Pier 39 TV spots		January
E-Mail	E-blasts to customer lists		Oct-Jan
Web Site Content	News section and MMB section		Ongoing
Courtesy Mailing/ Notification	Letter sent to contacts database		October and December
Gas Station Radio	Audio PSA at Bay Area gas stations		12/29-1/11
Press Coverage/Press Releases			Ongoing

Source: Golden Gate Bridge Highway and Transportation District, 2014

#### 4.4.5 Airport Traffic Alerts

Notification of the weekend closure of the GGB should be sent to the Oakland International Airport, the San Francisco International Airport, and the Mineta International Airport (San Jose International Airport) two weeks in advance to alert employees, airlines, air passengers and greeters of all proposed closures.

#### 4.4.6 Travel Agents/Organizations

Public outreach will include travel agents, the Chamber of Commerce, the American Automobile Association offices throughout the state, travel organizations in neighboring states and travel magazines in the form of press releases.

## 4.5 Traveler and Motorist Information Strategies

Just as critical to the success of this TMP is the motorist information system that will be implemented during construction. Traveler information strategies listed below focus on providing construction and traffic conditions information while drivers are en-route to their destination, with the goal of shifting traffic away from the work zone(s).

### 4.5.1 Changeable Message Signs

CMS are one of the most effective mechanisms in providing real time traffic information to motorists approaching the construction zones, with possibility to readily modify the messages to reflect the changing traffic conditions. This information will guide and assist in directing motorists toward detour routes that avoid the impacted areas. A signing scheme will be developed for the Project to encourage voluntary diversion away from the impacted areas to guide motorists through the various route detours, as alternate routes are not feasible for the Project. The District should use its fixed CMS within the Golden Gate Bridge corridor to identify the short-term and long-term closures of Route 101 mainline, and identify alternate routes.

Suggested usage of existing CMS locations are illustrated in **Figure 15**, detailed plans specifying the locations of the changeable message signs are included in **Attachment B4**. These locations were selected because many of the motorists on Route 101 access the route from these interstate and state route highways, and are listed below, the Caltrans naming convention for each sign is included in parenthesis:

- Route 101 Southbound, South of San Pedro (CM 002);
- Route 101 Northbound, South of Sir Francis Drake Boulevard (CM 001);
- Interstate 80 Eastbound, East of University Avenue (CM 078);
- Interstate 80 Westbound, West of Route 13 (CM 070);
- Interstate 80 Eastbound, East of 8th Street (CM 062);
- Route 101 Northbound, North of 23rd Street (CM 042);
- Route 101 Northbound, North of Candlestick Exit (CM 079); and,
- Route 92 Westbound, East. Foster City Boulevard (CM 084).

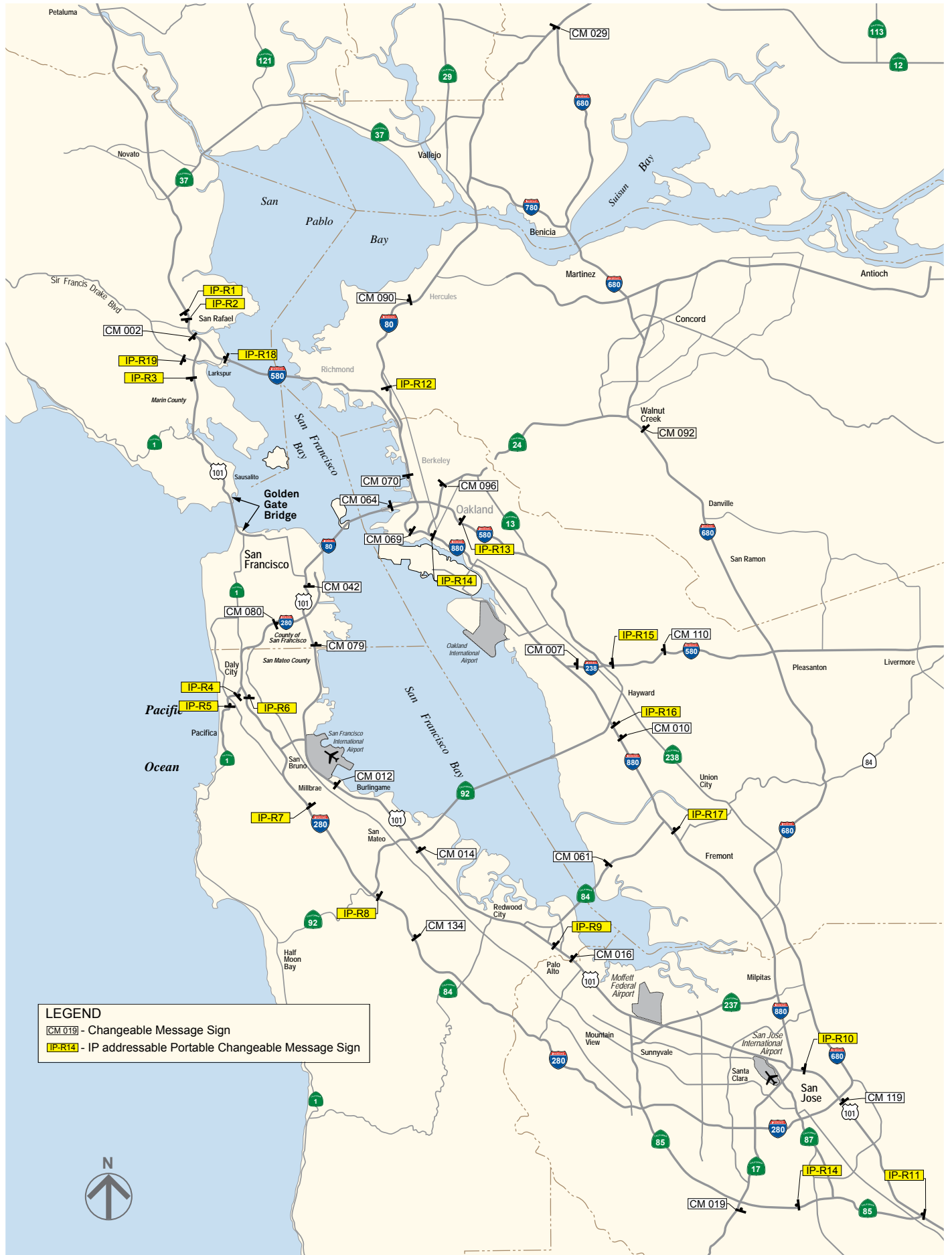
In addition to the existing CMS signs, PCMS will be deployed along major local and regional roadways to inform drivers of the full weekend closure of the GGB, as well as of available detour routes during the closure. **Table 16** presents the messages to be displayed on the PCMS both two weeks prior to the closure and during the full weekend closure of the GGB. The full schedule and locations of all PCMS are included in **Attachment B4**.

**Table 16: Local Portable Changeable Message Signs Schedule**

Display Period	First Flash	Second Flash	Third Flash
Two Weeks Prior to Closure	GOLDEN GATE BR CLOSURE JANUARY 09 – 12	FRI MIDNIGHT THRU MON 4:00 AM	EXPECT DELAYS
During Closure	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS

Source: AECOM, 2014.

Figure 15: Regional CMS - PCMS Locations Map





#### 4.5.2 Ground Mounted Signs

In addition to local detour and work zone signage placed and maintained by the contractor, a regional signing plan is recommended. Ground mounted information guide signs should be placed ahead of the major entry access locations to the corridor and vicinity to provide drivers with information setting the expectation for their travel or to reroute their travel away from the proposed construction areas. The contractor is responsible for placing the ground mounted signs in the identified locations to assist motorists with the detour routes.

#### 4.5.3 Caltrans Highway Information Network

Real-time highway condition information should be provided through Caltrans Highway Information Network (CHIN) accessible via telephone (1-800-427-ROAD).

#### 4.5.4 Highway Advisory Radio

Highway Advisory Radio is recommended in concert with the static ground mounted signs recommended within the Golden Gate Bridge corridor. The existing HAR antennae along the GGB could be used within the Project vicinity. HAR will allow 24-hour availability for motorists, without the need for additional equipment (other than an amplitude modulation [AM] radio) to receive highway advisory broadcasts. In addition, it can include more specific information than a commercial traffic report, CMS, or static ground sign.

The HAR broadcast message should be succinct yet comprehensive in content. Because HAR broadcasts have a range of three to five miles, the message should typically be contained in 60 to 90 second duration but no more than 90 seconds in length. The message should contain the following information:

- A short description of overall construction information (i.e. construction duration, type of work performed, closures, etc.) and specific information on short-term closures.
- Basic contact details for further construction information (i.e. phone number or web page).

Any of the approved broadcast bands may be used; however, it is recommended that AM 520 or 1610 be utilized if possible due to the large quantity of historical use of these AM bands and driver familiarity.

## 4.6 Incident Prevention and Management Strategies

Incident prevention, management, and contingency strategies focus on methods to clear work zone collisions, stalls, excessive congestion, or other incidents and also help reduce and prevent traffic collisions. Establishing a mechanism for immediate incident response can be accomplished with enhanced Caltrans' GGB Tow Service Patrols (TSP), and COZEEP.

#### 4.6.1 Construction Zone Enhanced Enforcement Program

National data shows the two leading causes of work zone crashes are excessive speed and driver inattention. There is universal agreement that a staffed police car with flashing lights at the beginning of the work zone is the most effective way to reduce speed in the work zone and get the driver's attention. The program involves continuous presence of the CHP in the construction zone, provides enforcement of speed restriction, and faster incident response.

It is recommended that a COZEEP program be established for the entire construction period. During lane closures, CHP officers would be used to initiate the traffic break and provide traffic control. Enhanced enforcement would most likely be used during lane closures but could be invoked at other times at the discretion of the Construction Manager (CM). The CM would prepare a contract change order for each event requiring COZEEP. The total COZEEP cost, for the lane closures is estimated to be \$300,000. The total COZEEP cost for the weekend closure of the GGB is estimated to be \$1,373,000. Detailed COZEEP costs are included in **Attachment E**.

#### 4.6.2 Freeway Service Patrol

The District typically employs tow trucks on the GGB to mitigate stalls and incidents, and minimize any related traffic congestion in an effort to restore normal operating conditions. At the GGB approaches, the Freeway Service Patrol (FSP) is used to patrol the construction zone and perform minor repairs and/or remove stalled vehicles from the freeway at no charge to the motorist.

FSP service will be needed particularly during the weekend closure of the GGB, and may be used during contingency situations. At least six months prior to the deployment of FSP service, Caltrans FSP Supervision (510-286-5917) and the

MTC Program Manager (510-817-3209) will be contacted to determine final logistics, and exact costs associated with the use of the FSP service during the weekend closure of the GGB.

#### **4.6.3 Flagman and Traffic Control Officers**

The contractors' special provisions identify when flagmen are required to control detours for the short-term closures. Should a crash, breakdown, or other incident occur on the mainline or surface streets approaching or within the work zone, the RE may require the contractor to use flagmen at additional locations to clear traffic congestion or may request that the CHP and/or local police establish traffic control officers at key detour intersections to clear any traffic congestion.

## **4.7 Work Zone Safety Training**

The Contractor should offer work zone safety training to their workers.

#### **4.7.1 Reduced Speed Zones**

California has enacted legislation to double fines for speeding in work zones, and this strategy should be utilized during closures. While signs indicating doubled fines are a deterrent, Caltrans and contractors need to ensure that the signs are only posted when the work zone is active and are covered when there is no activity in the work zone. According to the Federal Highway Administration (FHWA), motorist credibility is a major issue in controlling speed in the work zone. The presence of cones and reduced speed limits coupled with no visible work taking place within a work zone raises public questions about the enforceability of reduced speed zones. Other considerations:

1. Lack of adequate space for vehicles to pull off of the road often results in inefficient traffic law enforcement through the work zone. Ensure adequate enforcement space by designing space for enforcement activities into a work zone. Ensure the contractor maintains adequate shoulder/enforcement areas to keep them available for making traffic stops.
2. To help enforce this strategy consider the use of speed warning systems that communicate average downstream speeds to drivers on variable message signs. This technology warns drivers that they may soon need to slow down or stop.

#### **4.7.2 Improved Visibility of Traffic Control Devices**

Ensure visibility of traffic control devices. Methods for improving visibility of signs, pavement markings, and channelizing devices include:

- Use of highly reflective or fluorescent sign sheeting can provide improved visibility for work zone signs.
- Provide larger signs and provide redundancy for critical signs.
- Increase sign spacing.
- Provide artificial lighting on work zone signs.
- Provide flags and/or warning lights on work zone signs.
- Increase the size of, and decrease the spacing of, channelizing devices.
- Install highly reflective temporary pavement markings to delineate intended travel paths.
- Ensure adequate visibility of signs and markings on detour routes.
- Improve the display of sign messages through changes in colors, contrast, pictorial or text messages, font style, letter height, and stroke width.

#### **4.7.3 Traffic Monitoring**

The monitoring of traffic conditions plays two roles:

1. Incident traffic monitoring: Monitoring of traffic conditions approaching and traveling through the work zone during periods of lane closures to detect excessive queuing and delay, crashes, and other problems which would trigger an early pick-up; and,
2. Effectiveness traffic monitoring: Traffic monitoring conducted periodically over the duration of the construction Project to determine the effect of the closures and whether detour routes or management strategies should be modified.

Each of these monitoring purposes use various strategies and measures as described below.

#### **4.7.4 Visual Observation during Closures**

The contractor and RE will share the responsibility of observing traffic conditions during the extended and short-term closures to determine if conditions warrant early pick-up of the closures. The RE should remain in contact with the TMC to obtain periodic updates on traffic conditions on mainline Route 101 approaching the work zone.

## 4.8 Contingency Planning

To address potential problems that may occur during construction, a traffic contingency plan and a contractor contingency plan will be developed for all work occurring during freeway lane and ramp closure periods. The contingency plan outlines specific actions that should be implemented to restore or minimize effects on traffic when congestion or delays exceed original estimates or due to unforeseen events such as work-zone accidents, higher than predicted traffic demand, or delayed lane closures. This can significantly reduce the delay that might otherwise occur while trying to determine what to do on the spot. There are many scenarios possible should a problem occur. The contingency plans should be reviewed by Caltrans designers and other stakeholders.

### 4.8.1 Purpose of Contingency Plans

The purpose of the contingency plan would be to identify when the construction operation must be abandoned to facilitate opening of the roadway within the designated time. A contingency plan should include, but is not limited to the following:

- Identify key operational decision points with specific times associated with each activity. This timeline should identify the expected completion time of each critical path activity.
- Clearly defined trigger points must be identified with each critical path activity to establish when the contingency plan will be activated.
- Decision tree with clearly defined lines of communication and authority.
- Contact information such as names, phone numbers, and pager numbers for the RE, the Permit Inspector, the on-site traffic advisor, the CHP Division or Area Commander, relevant local police departments, appropriate local agency representatives, and other applicable personnel such as transit agencies and emergency services.
- Coordination strategy (and special agreements if applicable) between the RE, on-site traffic advisor, CHP and local agencies.
- Contractor's contingency plan.
- Standby equipment.
- Development of contingencies based on maintaining minimum service level.

The primary responsibility for initiating a contingency plan falls upon the RE. Alternatives should be reviewed and considered in preparation for any planned closures. The traffic management center and the local agency should be notified of any changes made to the detours out in the field.

### 4.8.2 Scenarios and Actions

A number of contingency plans should be developed in the event that something unexpected occurs with respect to construction activities or traffic operations. The various scenarios that have been considered, along with the planned actions or responses, are summarized in **Table 17**.

A contractor or Caltrans' forces (such as maintenance) can be ordered to pick up a lane closure early if traffic impacts become significant either due to a project incident or activities outside the project area. Early pickup should only be ordered when traveler and worker safety will not be compromised.

### 4.8.3 Traffic Contingency Plan

This plan addresses specific actions that will be taken to restore or minimize effects on traffic when congestion or delay exceeds original demand estimates. Trigger points that require the termination of lane or ramp closures are defined as, but not limited to, the following: inclement weather, higher than expected traffic demand, work zone equipment failure or delayed reopening of facility closures.

Specific actions that will be undertaken to restore traffic will be determined based on the item of construction work that is being undertaken during the closure period. Trigger points for terminating lane or ramp closures will be defined using specific thresholds to be established in consultation with the selected contractor(s). Usually the solution involves directing traffic via PCMS to exit early, to avoid the problem area, or to direct traffic to the next exit, taking advantage of message signs and some combination of route detours. These alternatives should be reviewed and considered in preparation for any planned closures. The Traffic Management Center and the local agency should be notified of any changes made to the detours out in the field.

Table 17: Scenarios and Actions Matrix

Scenario	Actions to be Taken
The Golden Gate Bridge is not reopened at or prior to the Monday at 4:00 AM deadline	<ul style="list-style-type: none"> <li>• Open as many lanes as safely possible and open the remainder as soon as possible.</li> <li>• Modify public awareness campaign.</li> <li>• Modify CMS and additional PCMS as needed to divert traffic.</li> </ul>
Construction activities are completed early allowing the Golden Gate Bridge to be reopened earlier than scheduled.	<ul style="list-style-type: none"> <li>• Modify public awareness campaign.</li> <li>• Modify CMS and additional PCMS as needed to inform motorists.</li> </ul>
Lanes are not opened by the time on the lane closure chart	<ul style="list-style-type: none"> <li>• Open as many lanes as safely possible and open the remainder as soon as possible.</li> <li>• Develop a work plan so it is not repeated.</li> </ul>
Equipment breaks down/construction is delayed	<ul style="list-style-type: none"> <li>• Cease construction activities and reopen all lanes.</li> <li>• Fix or replace equipment in order to complete planned activities as scheduled.</li> <li>• Reschedule planned construction activities.</li> </ul>
Bad weather delays	<ul style="list-style-type: none"> <li>• Reschedule planned construction activities.</li> <li>• Modify public awareness campaign.</li> </ul>
Traffic is heavier than expected	<ul style="list-style-type: none"> <li>• Modify CMS and add additional PCMS as needed to divert more traffic.</li> <li>• Send information to media so public can be informed by radio and television</li> <li>• Divert traffic to alternate routes using signs and</li> </ul>
Variation in work limits than scheduled	<ul style="list-style-type: none"> <li>• Coordinate with RE for modifications to traffic handling, traffic control, and all appropriate activities.</li> </ul>
Traffic impacts become significant either due to a project incident or activities outside the project area	<ul style="list-style-type: none"> <li>• Cease construction activities and reopen all lanes.</li> <li>• Reschedule planned construction activities.</li> <li>• Early pickup should only be ordered when traveler and worker safety will not be compromised.</li> </ul>

Source: AECOM, 2014.

**4.8.4 Contractor’s Contingency Plan**

The Contractor’s contingency plan addresses activities under the contractor's control in the work zone. The contractor will be required to submit a traffic control plan at least one week prior to any lane closures, or critical operation identified by the RE. The traffic control plan shall contain a detailed contingency plan to ensure opening of the closures by the designated time. This can significantly reduce the delay that might otherwise occur while trying to determine what to do on the spot. The contractor will need to prepare a contingency plan that would be implemented in the event that the construction operation requiring the freeway lane or ramp closures do not proceed as planned.

The contractor will have the primary responsibility for monitoring operation before, during, and after such closures along the detour routes and at the construction site. During construction activity, contractors will need to provide appropriate personnel to monitor activities and make decisions regarding activation of contingency plans. As soon as it becomes evident during any construction activity that it will not be possible to complete that activity and remove the closure at the designated time, that activity shall be halted and postponed until a later date.

The purpose of contingency plans is to identify when the construction operation must be abandoned to facilitate opening of a facility within the designated time. The relevant local agencies (i.e. City and County of San Francisco and Marin County), the District, Caltrans, construction management staff, CHP and other stakeholders will review the contingency plans. This plan should provide the following information:

- Identify key operational decision points with specific times associated with each activity. This timeline should identify the expected completion time of each critical path activity.
- Clearly defined trigger points must be identified with each critical path activity to establish when the contingency plan will be activated.
- Decision tree with clearly defined lines of communication and authority.

- Appropriate communication equipment to be provided and procedures established to communicate between each other during the entire construction period, especially whenever emergency events happen.
- Contact information such as names, phone numbers and pager numbers of the RE, Contractor's Project Manager, Project Manager, Caltrans Permit and/or Construction Inspector, District 4 TMC, CHP Area Commander, San Francisco and Marin County Sheriff, relevant local police departments, Emergency Services, appropriate local agency representatives, and other applicable personnel such as transit agencies.
- A description of the standby equipment that would be available to complete the operation in the event of equipment failure. The plan will list and describe any and all standby equipment and secondary material suppliers, to be available to complete the operations in the event of equipment failure, unexpected loss of material or unexpected uselessness of material.
- If simultaneous construction projects are planned, then the contractors should coordinate the contingency plans to verify that no overlap of the proposed detour routes exists between the projects.

Anticipated construction activities to be monitored include, but are not limited to, the following construction tasks:

- Demolition and removal of existing roadway pavement and earthwork.
- Construction and finishing of retaining and sound walls.
- GGB widening including false work installation.
- Grading and paving of the permanent facilities including work in open trenches and excavation.
- Removal of existing traffic control facilities including pavement delineation, roadway and overhead signs, and traffic signals.
- Installation of pavement, delineation, roadway and overhead signs, traffic signal installations, and lighting.
- Installations of roadway medians, and curb and gutters.

As soon as it is apparent that a contractor will be unable to restore traffic flow before the end of GGB, lane or ramp closures, the contractor or RE should immediately implement the following procedures:

- If the RE and contractor determine that additional staff will expedite the restoration of traffic flow, cooperative agreements with Caltrans maintenance staff or other local agency resources should be activated.
- Any supplemental equipment that is not in use should be utilized to expedite the opening of the highway facility.
- Notify the Caltrans Transportation Management Center, city staff, county staff, and local law enforcement departments for the Cities of San Francisco, Sausalito, Marin County, San Francisco County, the CHP Area Commander, and other appropriate local agency representatives to inform them of the situation.

Possible solutions to reduce traffic impacts involve directing traffic via PCMS to exit early, to avoid the problem area, or to direct traffic to the next exit, taking advantage of message signs and some combination of route detours. These alternatives should be reviewed and considered in preparation for any planned closures. The Traffic Management Center and local government agencies should be notified of any changes made to the detours out in the field.

### **Alternate Detour Routes**

As part of the contingency plan, alternate detour routes should be prepared for the proposed short-term closures.

### **Roles and Responsibilities**

Reporting structure and roles/responsibilities are key towards a successful implementation of contingency plans or for emergency communication efforts.

### **Emergency/Contingency Plan Contacts**

An emergency /contingency plan contact list should be prepared for each project. The contact list should provide details (name, phone number, and department) of the key personnel that may require notification or communication. The contact list for the project is shown in **Table 18** and should be modified on a regular basis during the bidding and construction phases of the project:

### **Standby Equipment List**

The contractor should provide a list of standby equipment available to be used at times of equipment failure.

### **Decision Tree and Chain of Command**

The list below identifies the chain of command/authority and the lines of communications to be followed as a part of any contingency plan for the construction projects along the US 101 freeway Corridor.

• Field Inspector	Name: TBD	Phone No: TBD
• Resident Engineer	Name: TBD	Phone No: TBD
• Construction Senior	Name: TBD	Phone No: TBD
• Area Construction Manager	Name: TBD	Phone No: TBD
• District Traffic Safety – TMC	Name: TBD	Phone No: TBD

### **TMC Response Protocol**

The Project Traffic Contingency Plan basically follows the TMC major incident response protocol. When a major lane-blocking incident occurs on any of the bridges and severe congestion is about to develop at the approaches, TMC should receive a report from CHP, Caltrans or the Contractor field personnel. TMC staff shall take the following actions:

#### ***Beginning of the Report***

1. Notify Communication Center
2. Verify details with CCTV or CHP unit
3. Activate CMS, Dispatch Bridge Tow
4. Notify Traffic Management Team (TMT)
5. Notify media, 511.org and management via SigAlert and/or pager notification
6. Notify/coordinate with adjacent districts' TMCs, if applicable
7. Notify/coordinate with local TMCs, if applicable
8. Activate HAR and Emergency Medical Services (EMS)
9. Make an entry on the CHP Computer Aided Dispatching (CAD) bulletin board and route to the media, if applicable
10. Coordinate with DTM to have lane closures picked up on alternate routes, if applicable
11. Notify locally affected transit, city police, and traffic engineers for city street congestion, if applicable

#### ***During Incident***

1. Update incident status notifications, if applicable.
2. Update communication center and TMT when incident is over.

#### ***End of Incident***

1. Notify communication center and TMT when incident is over.
2. Deactivate CMS, HAR, and EMS
3. Send final Sig Alert and/or pager notification.
4. Delete CHP CAD bulletin board entry and route to the media, if applicable.
5. Notify adjacent districts' TMCs, local TMCs, Signal Operations, local transit, city police, and city traffic engineers when incident is over, if applicable
6. Update shift briefing binder, if applicable

All costs of implementing the Transportation Management Plan, including its preparation will be borne by the project and are summarized in **Attachment E**.

#### **4.8.5 Communication Plan**

A communication plan shall include a decision tree with clearly defined lines of communication. The names, telephone numbers and email addresses of the Contractor's Project Manager, Caltrans TMC, Resident Engineer, Caltrans Permit and/or Construction Inspector, CHP Commander, and other applicable personnel are provided in **Table 18**, and **Attachment F** includes a complete listing of contact information of agencies, organizations, and interests groups that may potentially be affected by construction activities. This list should be updated regularly and/or changed through the life of the Project. During the weekend closure of the GGB, the command post for all stakeholders will be located in the Board Room of the District Toll Plaza Administration Building.

#### **4.8.6 Traffic Contingency Plan**

This plan addresses specific actions that will be taken to restore or minimize effects on traffic when congestion or delay exceeds original demand estimates. Trigger points that require the termination of lane or ramp closures are defined as, but not limited to, the following: inclement weather, higher than expected traffic demand, work zone equipment failure or delayed reopening of facility closures.

Specific actions that will be undertaken to restore traffic will be determined based on the item of construction work that is being undertaken during the closure period. Trigger points for terminating lane or ramp closures will be defined using specific thresholds to be established in consultation with the selected contractor(s).

Table 18: Contact Personnel Matrix (To Be Updated Regularly)

<b>Golden Gate Bridge Moveable Median Barrier (SF-101 PM 9.7 to MRN-101 PM 0.3, STPL-6003(037), EA-04-3G5800)</b>			
<b>Agency</b>	<b>Contact</b>	<b>Phone</b>	<b>E-mail</b>
<b>Golden Gate Bridge Highway and Transportation District</b>			
Golden Gate Bridge Highway and Transportation District	Chuck Voong, Project Manager	(415) 923-2019	cvoong@goldengate.org
	Lisa Locati, Bridge Captain	(415) 923-2205	llocati@goldengate.org
	Robert Smith, Resident Engineer	(415) 923-2021 (415) 716-8154	rsmith@goldengate.org
<b>Engineering Consult</b>			
AECOM	Bill Burton, Project Manager	(510) 622-6642	Bill.Burton@aecom.com
	Joy Villafranca, Project Engineer	(510) 622-6693	Joy.Villafranca@aecom.com
<b>Contractor</b>			
Ghilotti Bros., Inc	Kjell Davila, Project Engineer	(415) 760-0226 (415) 256-2292	KjellD@ghilottibros.com
	Troy Simning, Project Manager	(415) 760-9505 (415) 256-2292	TroyS@ghilottibros.com
<b>California Department of Transportation</b>			
Project Staff	Dale McCrossen, District Traffic Manager (DTM)- Senior (Lane Closure Manager)	(510) 286-6911	dale.mccrossen@dot.ca.gov
	General, District 4 Radio Room	(510) 286-6359	
<b>Command Post<sup>(1)</sup></b>			
Golden Gate Bridge Joint Inter-Agency Command Post	CHP	(415) 923-2010 (415) 923-2070	
	Golden Gate Bridge	(415) 923-2076 (415) 923-2077	
	Golden Gate Bridge – OPS	(415) 923-2068	
	US Park Police	(415) 923-2071	
	US Park Ranger	(415) 923-2072	
	San Francisco Police Department	(415) 923-2073	
	San Francisco Fire	(415) 923-2074	
	San Francisco Department of Emergency Management	(415) 923-2299	
	Sausalito Police Department	(415) 923-2075	
	Marin SO	(415) 923-2272	
	Intel / NCRIC	(415) 923-2078	
	US Coast Guard	(415) 923-2079	
	Southern Marin Fire	(415) 923-2069	
	Fax – Send	(415) 923-2066	
Fax – Receive	(415) 923-2064		
<b>Metropolitan Transportation Commission</b>			
511	John Goodwin	(510) 817-5862	jgoodwin@mtc.ca.gov
	Lindsey Baker	(239) 564-1818	lbaker@mtc.ca.gov
	Alysha Nachtigall	(510) 817-5989	anachtigall@mtc.ca.gov
	Radiah Victor	(510) 817-5719	rvictor@mtc.ca.gov
Bay Area Toll Authority (BATA)	Jason Weinstein	(510) 384-7742	jweinstein@mtc.ca.gov
	Jeff Gerbracht	(510) 207-2865	jgerbacht@mtc.ca.gov
<b>Law Enforcement</b>			
California Highway Patrol	Dispatch	(707) 551-4100	
	B.J. Whitten, San Francisco	(415) 557-1094	bwhitten@chp.ca.gov
	TBD, Marin		
	TBD, CHP Commander		
Marin County Sherriff Department	Robert T. Doyle, Sherriff	(415) 499-7250	rdoyle@co.marin.ca.us
Alameda County Sheriff	Gregory J. Ahern, Sheriff	(510) 725-5085	
Sausalito Police Department	Susan Barnes, Chief's Assistant	(415) 289-4170	sbarnes@ci.sausalito.ca.us

<b>Golden Gate Bridge Moveable Median Barrier (SF-101 PM 9.7 to MRN-101 PM 0.3, STPL-6003(037), EA-04-3G5800)</b>			
<b>Agency</b>	<b>Contact</b>	<b>Phone</b>	<b>E-mail</b>
City of San Rafael, Police Department	Diana Bishop, Chief		cops@srpd.org
Novato Police Department	Renee Woolard, Administrative Assistant	(415) 897-1122	rwoolard@novato.org
Mill Valley Police Department	Deborah Ross, Administrative Assistant	(415) 389-4100	dross@cityofmillvalley.org
San Anselmo Police Department/ Twin Cities Police Department	Dana Unruh, Authority Clerk	(415) 927-5150	dunruh@centralmarinpolice.org
Tiburon Police Department	Cindy Rodriguez, Administrative Assistant	(415) 789-2801	crodriguez@ci.tiburon.ca.us
Ross Police Department	Eric Masterson, Chief	(415) 453-2727	
Belvedere Police Department	Lylene Phillips, Police Secretary	(415) 435-2611	lphillips@cityofbelvedere.org
Fairfax Police Department	Cynthia Powell, Community Service Officer	(415) 453-5330	cpowell@fairfaxpd.org
City of Oakland Police Department	Dispatch	(510) 777-3211	
<b>Fire Departments</b>			
San Francisco Fire Department	Michie Wong, Lieutenant	(415) 558-3361	michie.wong@sfgov.org
Marin County Fire Department, Southern Marin	Jason Weber, Fire Chief	(415) 499-6717	jweber@marincounty.org
Marin County Fire Department, Western Marin	Chris Martinelli, Senior Fire Captain	(415) 499-6717	cmartinelli@marincounty.org
Larkspur Fire Department	Robert Sinnott, Fire Chief	(415) 927-5014	rsinnott@larkspurfire.net
Greenbrae Fire Station 16	Robert Sinnott, Fire Chief	(415) 927-5014	rsinnott@larkspurfire.net
Mill Valley Fire Department	Greg Moore, Fire Chief	(415) 389-4130	fire@cityofmillvalley.org
Ross Valley Paramedic Authority	Robert Sinnott, Executive Director	(415) 927-5014	rsinnott@larkspurfire.net
Novato Fire Protection District	Ken Massucco, Fire Chief	(415) 878-2690	firechief@novatofire.org
City of Oakland	Dispatch	(510) 444-1616	
City of San Rafael, Fire Department	Christopher Gray, Fire Chief	(415) 485-3304	chrisgray@cityofsanrafael.org
CAL Fire Unit Four	Eric Hoffman, Unit Chief	(707) 576-2586	eric.hoffmann@fire.ca.gov
<b>Transit</b>			
San Francisco Municipal Transportation Agency (SFMTA)	Cynthia Hui	(415) 701-4577	cynthia.hui@sfmta.com
	Candace Wilcher	(415) 269-6458	candace.wilcher@sfmta.com
	Matthew Lee	(415) 701-4378	Matthew.c.lee@sfmta.com
Marin Transit	TBD	(415) 226-0855	
Transportation Authority of Marin (TAM)	Diane Steinhauser, Executive Director	(415) 226-0820	
Santa Rosa City Bus	Anita Winkler, Deputy Director	(707) 543-3333	awinkler@srcity.org
AC Transit	Clarence Johnson, Public Affairs	(510) 891-4745	
	James Pachan, Chief Operating Officer		
Santa Clara Valley Transportation Authority (VTA)	Brandi Childress, Media Relations	(408) 952-4297	
SamTrans Public Affairs	Jayme Ackerman, Media Relations	(650) 508-7934	
Amtrak and Capitol Corridor Joint Powers Authority	Andrew Feldon	(408) 592-0617	feldena@amtrak.com
	Rick Peterson	(916) 654-7190	rpeterson@amtrak.com
	Hubert Hanrahan	(510) 464-6991	HubertH@capitolcorridor.org
	Linsey Ettlin	(510) 874-7494	lettlin@bart.gov
	Barbara Ruditis	(510) 714-5175	RuditiB@amtrak.com



<b>Golden Gate Bridge Moveable Median Barrier (SF-101 PM 9.7 to MRN-101 PM 0.3, STPL-6003(037), EA-04-3G5800)</b>			
<b>Agency</b>	<b>Contact</b>	<b>Phone</b>	<b>E-mail</b>
Solano Express		(707) 424-6075	commuterinfo@sta-snci.com
Sonoma County Transit	Bryan Albee, Transit Manager	(707) 585-7516	bkalbee@sctransit.com
BART Public Affairs	Alicia Trost, Public Affairs		
<b>Airports</b>			
San Francisco International Airport	Zeke Zamara, Traffic Management	(650) 821-6532	zeke.zamara@flysfo.com
Oakland Airport and Port of Oakland	Robert Bernardo, Manager of Media and Public Relations	(510) 627-1401	rbernardo@portoakland.com
Napa County Airport	Martin Pehl	(707) 253-4300	martin.pehl@countyofnapa.org
Sonoma County Airport	Jon Stout, Airport Facilities Manager	(707) 565-7243	airport@sonoma-county.org
<b>Other Agencies</b>			
United States Coast Guard	Greg Ressio	(415) 399-3536	operations@511.org
	Jim Macrae	(510) 207-0125	operations@511.org
Toll Bridges Counts	Russell Sweeden	(510) 286-0794	russell_sweeden@dot.ca.gov
Civil Air Patrol, Redwood Empire Composite Squadron 157- U.S. Air Force Auxiliary	David Reber, Captain	(707) 545-7488	djreber@aol.com
Federal Aviation Administration	Robert Walker, Northbay Systems Support Manager	(707) 525-9356	robert.a.walker@faa.gov
Federal Aviation Administration	Robin K. Hunt, Airports District Manager	(650) 876-2778 ext. 600	robin.k.hunt@faa.gov
Napa Valley Transportation and Planning Agency	TBD	(707) 259-8631	contact@nctpa.net
Transportation Alternatives of Marin	Patrick Seidler	(415) 389-5040 ext. 24	pseidler@wtb.com
Sausalito Ferry Information Kiosk	Dick Seashore	(415) 332-2698	dicksea@pacbell.net
Whistlestop Wheels	Terry Scussel, General Manager	(415) 456-9062 ext. 151	tscussel@thewhistlestop.org
Water Emergency Transportation Authority (Oakland/Alameda Harbor Bay, San Francisco Bay and Vallejo)	Nina Rannells, Executive Director	(415) 291-3377 ext. 186	rannells@watertransit.org
	Keith Stanke, Manager, Operations	(415) 291-3377 ext. 192	stahnke@watertransit.org
	Ernest Sanchez, Manager, Public Information	(415) 291-3377 ext. 190	sanchez@watertransit.org
	Chad Mason, Senior Planner	(415) 291-3377 ext. 745	mason@watertransit.org

Source: AECOM, 2014.

**Notes:**

- Shading indicates data not available, to be determined, or intentionally left blank.

<sup>(1)</sup> The Command Post Center will be located in the District board room.

Usually the solution involves directing traffic via PCMS to exit early, to avoid the problem area, or to direct traffic to the next exit, taking advantage of message signs and some combination of route detours. These alternatives should be reviewed and considered in preparation for any planned closures. The Traffic Management Center and the local agency should be notified of any changes made to the detours out in the field.

#### 4.8.7 Contractor's Contingency Plan

The Contractor's contingency plan addresses activities under the contractor's control in the work zone. The contractor will be required to submit a traffic control plan at least one week prior to any lane closures, or any critical operation identified by the RE. The traffic control plan shall contain a detailed contingency plan to ensure opening of the closures by the designated time. This can significantly reduce the delay that might otherwise occur while trying to determine what to do on

the spot. The contractor will need to prepare a contingency plan that would be implemented in the event that the construction operation requiring the freeway lane or ramp closures do not proceed as planned.

The contractor will have the primary responsibility for monitoring operation before, during, and after such closures along the detour routes and at the construction site. During construction activity, contractors will need to provide appropriate personnel to monitor activities and make decisions regarding activation of contingency plans. As soon as it becomes evident during any construction activity that it will not be possible to complete that activity and remove the closure at the designated time, that activity shall be halted and postponed until a later date.

The purpose of contingency plans is to identify when the construction operation must be abandoned to facilitate opening of a facility within the designated time. The relevant local agencies, the District, Caltrans, construction management staff, CHP and other stakeholders will review the contingency plans. This plan should provide the following information:

- Identify key operational decision points with specific times associated with each activity. This timeline should identify the expected completion time of each critical path activity.
- Clearly defined trigger points must be identified with each critical path activity to establish when the contingency plan will be activated.
- Decision tree with clearly defined lines of communication and authority.
- Appropriate communication equipment to be provided and procedures established to communicate between each other during the entire construction period, especially whenever emergency events happen.
- Contact information such as names, phone numbers and pager numbers of the RE, Contractor's Project Manager, Project Manager, Caltrans Permit and/or Construction Inspector, Caltrans' District 4 TMC, CHP Area Commander, San Francisco and Marin County Sheriff, relevant local police departments, Emergency Services, appropriate local agency representatives, and other applicable personnel such as transit agencies.
- A description of the standby equipment that would be available to complete the operation in the event of equipment failure. The plan will list and describe any and all standby equipment and secondary material suppliers, to be available to complete the operations in the event of equipment failure, unexpected loss of material or unexpected uselessness of material.
- If simultaneous construction projects are planned, then the contractors should coordinate the contingency plans to verify that no overlap of the proposed detour routes exists between the projects.

Anticipated construction activities to be monitored include, but are not limited to, the following construction tasks:

- Demolition and removal of existing roadway pavement and earthwork.
- Construction and finishing of retaining and sound walls.
- Bridge widening including false work installation.
- Grading and paving of the permanent facilities including work in open trenches and excavation.
- Removal of existing traffic control facilities including pavement delineation, roadway and overhead signs, and traffic signals.
- Installation of pavement, delineation, roadway and overhead signs, traffic signal installations, and lighting.
- Installations of roadway medians, and curb and gutters.

As soon as it is apparent that a contractor will be unable to restore traffic flow before the end of a lane or ramp closure period, the contractor or RE should immediately implement the following procedures:

- If the RE and contractor determine that additional staff will expedite the restoration of traffic flow, additional sources from the Contractor should be activated.
- Any supplemental equipment that is not in use should be utilized to expedite the opening of the highway facility.
- Notify the Caltrans Transportation Management Center, city staff, county staff, and local law enforcement departments for the City and County of San Francisco, Sausalito, Marin County, the CHP Area Commander, and other appropriate local agency representatives to inform them of the situation.

Possible solutions to reduce traffic impacts involve directing traffic via PCMS to exit early, to avoid the problem area, or to direct traffic to the next exit, taking advantage of message signs and some combination of route detours. These alternatives should be reviewed and considered in preparation for any planned closures. The Traffic Management Center and local government agencies should be notified of any changes made to the detours out in the field.

## 4.9 Demand Management

Demand management strategies include a wide range of techniques intended to reduce the volume of traffic traveling through the work zone by diverting travelers to alternate modes, shifting trips to off-peak periods, or shifting vehicles to alternate routes. Caltrans has limited influence on the travel characteristics of the general public. The state's greatest influence is in providing the public information on transportation alternatives, coordinating with other agencies that provide transportation services, regulating the use of state facilities, and providing state facilities that contribute to reduced travel demand (i.e. park and ride lots).

Demand management strategies should be identified in the public outreach material discussed in earlier sections, and should be discussed with key stakeholders and major employers during stakeholder coordination meetings. Caltrans should encourage stakeholders and employers to implement demand management programs and services, or to form partnerships with Transportation Management Associations who provide these services.

### 4.9.1 Impact Mitigation for Local and Regional Areas

The Golden Gate Bridge/Route 101 is a direct link between Marin County and San Francisco. Thousands of motorists utilize this section of highway daily to commute between San Francisco and Marin. Tourists also travel across the GGB to access the vista point and parks near the GGB. Most construction activities will take place during late evenings or early mornings to prevent significant impacts. Truck/Heavy Vehicle Restrictions, Increased Shuttle Services, and Parking Supply Management will be used to lessen impacts when construction takes place during high volume travel times. Additional strategies include:

- Ridesharing/carpooling incentives – This strategy involves the use of ridesharing and carpooling incentives to reduce the number of vehicles traveling through the work zone. Incentives include preferential parking for carpools, provision or subsidy of vanpool vehicles (e.g., some employers provide vehicles while others subsidize fuel and insurance). Additionally, employers can encourage employees to use existing rideshare and carpool matching services (such as 511.org Rideshare or local TMA's). Agencies such as the Metropolitan Transportation Commission offer start-up incentives such as free gas cards, vanpool subsidies up to \$300, free bridge tolls, and free public parking permits. Caltrans should promote the use of their park-and-ride lots for rideshare/carpool meeting locations.
- Guaranteed Ride Home – Guaranteed Ride Home is a benefit offered by many counties and employers that alleviate concerns about being “stranded without a car” for those who carpool or use transit to commute. The program provides commuters who regularly carpool, vanpool, bike, walk or take transit to work with a reliable and free ride home – usually in a taxi or rental car – when unexpected emergencies arise.
- Park-and-ride lots – This strategy involves the creation, expansion, and/or promotion of park-and-ride lots to encourage ridesharing and transit use, thus reducing the number of vehicles traveling through the work zone.
- Peak-hour traffic restrictions – Route 101 carries a notable amount of truck traffic that can increase delays during closures as well as increase the probability of crashes, particularly if non-standard geometrics are required during construction. Caltrans may consider restricting trucks during critical closures, but would need to provide feasible and acceptable alternatives. Detouring truck traffic to alternative routes, even for short-term closures, will impact local communities and may be vigorously opposed by local agencies and the public.
- Transit incentives – Transit incentives include employer transit subsidies and guaranteed ride home programs. These strategies work best when there are adequate transit routes and frequencies that serve major origin and destinations of motorists through the work zone. This strategy could be recommended for the major employers within the Project area.
- Shuttle services – Shuttle and charter buses may be considered if a large number of users along the corridor are anticipated to use this service. This strategy could be recommended for the major employers within the Project area.

- Variable work hours – This strategy involves encouraging motorists who typically travel through the work zone during periods of high demand or construction to work variable hours (off-peak) to reduce the demand for travel during peak hours.
- Telecommuting – Telecommuting in the work place reduces the dependence to travel to work. Telecommuting helps reduce the number of commute trips, thereby significantly reducing traffic congestion through the work zone.

#### 4.9.2 Public Transit Mitigation

The weekend closure of the Golden Gate Bridge will impact the District Bus Transit Division and MUNI routes that service the GGB. To mitigate the effects of the GGB closure and to encourage commuters to use public transit to travel between Marin County and the City and County of San Francisco certain District bus services will continue to run along the GGB during the closure with limited service. Additionally, the closure will require an increase in District Ferry Transit Division Services. The District plans to maintain transit and ferry services as well as operational hours in order to accommodate travelers during the weekend closure.

The following transit operator's service lines operate along the GGB and are expected to be directly affected by the weekend closure of the GGB.

##### Golden Gate Transit

Golden Gate Transit operates several bus routes between the North Bay and San Francisco by use of Route 101. Stops located along the Project area are important transfer points to MUNI Buses, Golden Gate Transit and the Presidio Shuttle.

- Route 2 – San Francisco – Marin Headlands
- Route 4 – San Francisco – Mill Valley
- Route 8 – San Francisco – Tiburon
- Route 18 – San Francisco – College of Marin
- Route 24 – San Francisco – San Anselmo, Fairfax
- Route 27 – San Francisco – San Anselmo
- Route 38 – San Francisco – Terra Linda
- Route 44 – San Francisco – Lucas Valley
- Route 54 – San Francisco – Novato/San Marin
- Route 56 – San Francisco – San Marin/Novato
- Route 58 – San Francisco – Hamilton/Novato
- Route 72 – San Francisco – Santa Rosa
- Route 74 – San Francisco – Petaluma, Santa Rosa
- Route 76 – San Francisco – East Petaluma
- Route 97 – San Francisco
- Route 10 – San Francisco – Strawberry
- Route 70 – San Francisco – Santa Rosa
- Route 80 – San Francisco – Santa Rosa
- Route 101 – San Francisco – Santa Rosa

##### MUNI

- Route 76 – Marin Headlands

These bus services will be permitted use of Route 101 during the weekend closure. Flaggers will be provided on closed roadways to guide busses through lane closures.

##### Golden Gate Transit Ferry Services

In addition to the service lines listed above, it is expected that other lines servicing the Bay Area should expect to see an increase in ridership during the weekend closure as a result of the diverted traffic from the GGB. To accommodate diverted traffic from the GGB, the District ferry services will operate on the modified schedule included in **Table 19**.

Table 19: Golden Gate Transit Ferry Service – Weekend Closure of the Golden Gate Bridge

Depart Larkspur	Arrive San Francisco	Depart San Francisco	Arrive Larkspur
5:45*	6:15*	6:20*	6:50*
7:00*	7:30*	7:35*	8:05*
8:20*	8:50*	9:10*	9:45*
9:40	10:30	10:40 <sup>(1)</sup>	
10:10*	10:45*	10:55*	11:30*
11:40	<b>12:30</b>	<b>12:40</b>	<b>1:30</b>
<b>12:40*</b>	<b>1:10*</b>	<b>1:20*</b>	<b>1:50*</b>
<b>2:40</b>	<b>2:30</b>	<b>3:45</b>	<b>4:35</b>
<b>4:15*</b>	<b>4:45*</b>	<b>5:00*</b>	<b>5:30*</b>
<b>5:00</b>	<b>5:50</b>	<b>6:00<sup>(1)</sup></b>	
		<b>6:25</b>	<b>7:15</b>
<b>6:00*</b>	<b>6:30*</b>	<b>7:25*</b>	<b>7:55*</b>
<b>8:05*</b>	<b>8:35*</b>	<b>8:45*</b>	<b>9:15*</b>
<b>10:00*</b>	<b>10:30*</b>	<b>10:40*</b>	<b>10:50*</b>
<b>11:00*</b>	<b>11:30*</b>	<b>11:40*</b>	12:10*
12:20*	12:50*	1:00*	1:30*

Source: Golden Gate Bridge Highway and Transportation District, 2014.

**Notes:**

-“\*” Denotes high speed service

-**Bold** indicates PM service

<sup>(1)</sup> Ferry service to Sausalito

#### 4.9.3 Airport Traffic Alerts

Notification of the GGB closure should be sent to the San Francisco International Airport, in advance to alert all employees, airlines, air passengers and greeters of the closure and available detour routes that will connect the City and County of San Francisco with the North Bay area.

## Conclusion

This TMP presents a comprehensive strategy that allows construction activities for the Project to occur during appropriate work windows that will minimize delays to motorists while ensuring that public and worker safety remain a top priority. In addition this TMP encourages collaboration between the District, Caltrans, contractors, and local and regional public agencies to maintain public awareness about the scope and timeline of the Project which will allow the public to make adjustments to their daily commute as necessary to minimize delays.

The scope of the Project will require a full closure of the Golden Gate Bridge from midnight on January 9, 2015 to 4:00 AM on January 12, 2015. The closure is not expected to last more than 52 hours. The weekend closure of the bridge will occur when traffic volumes are significantly lower than during the week. While this will cause significant delays to motorists travelling between the City of San Francisco and Marin County, the weekend closure of the Golden Gate Bridge is unavoidable to ensure both public and worker safety during construction. It is recommended that the public is informed to use alternate freeways, transit services and/or avoid the use of Route 101 during this weekend.

This TMP also encourages the constant monitoring of traffic conditions during the duration of construction activities in order to ensure that the construction schedule does not cause excessive delay or threats to public and worker safety. The TMP establishes a chain of command during construction activities that allows for a quick response to incidents that may occur. This TMP is a dynamic (i.e. living) document that was prepared based on information available at the time of preparation and should be considered a guide to construction activities that allows for periodic updates and modifications in order to better serve the current ongoing needs of the Project.

## Attachments

## Attachment A1: Project Vicinity Map

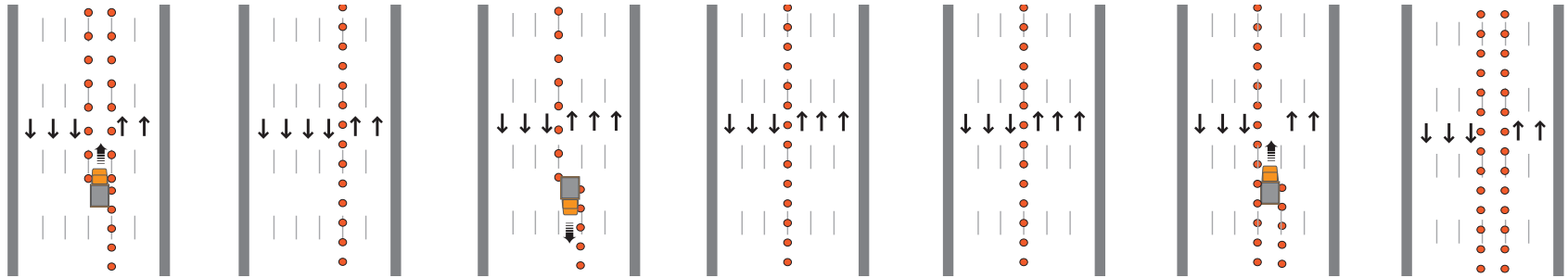




## Attachment A2: Existing Conditions GGB Roadway Configuration Schedule

WEEKDAY LANE CONFIGURATION

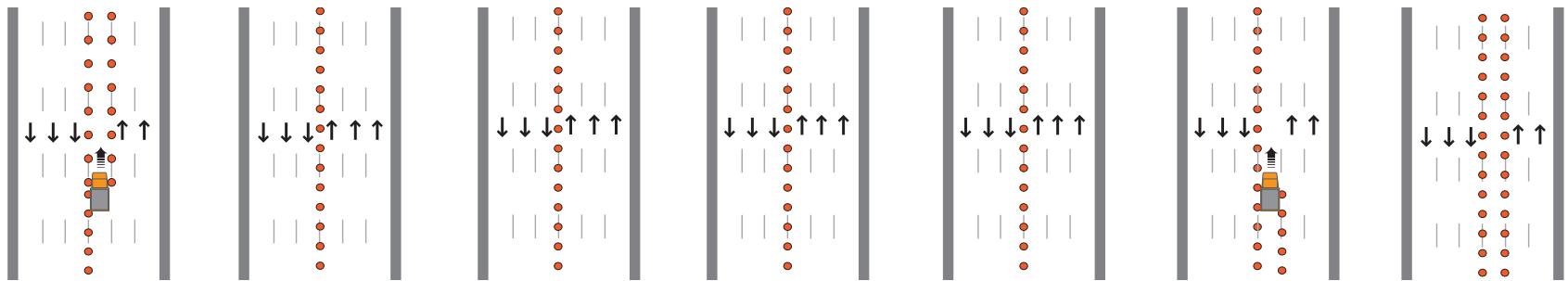
North end of bridge



Toll Plaza

SATURDAY LANE CONFIGURATION

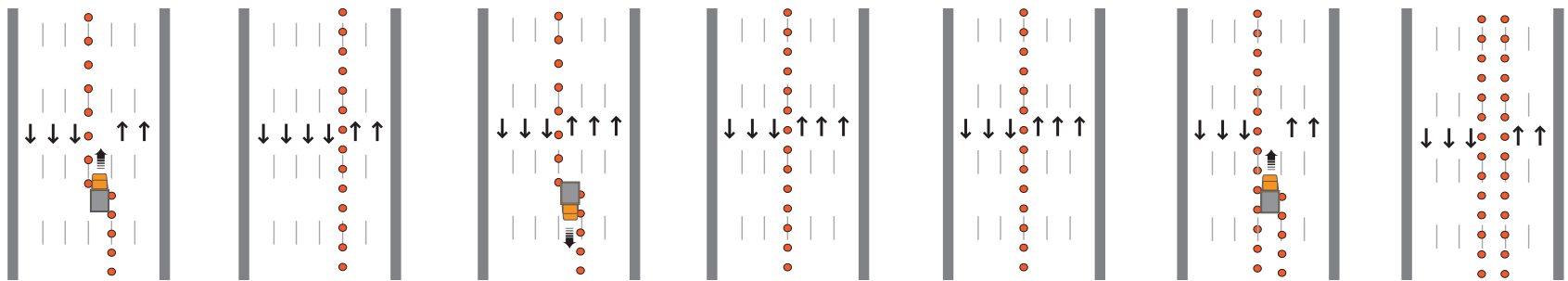
North end of bridge



Toll Plaza

SUNDAY LANE CONFIGURATION

North end of bridge



Toll Plaza

Approximately 5:30 AM  
(30 minute transfer time)

AM Peak Period

Approximately 10:30 AM  
(30 minute transfer time)

Midday

PM Peak Period\*

\*a 2 SB / 4 NB configuration  
could be provided if  
warranted based on demand

Approximately 10:00 PM  
(30 minute transfer time)

Overnight

## Attachment B1: Stage Construction Plans— Short-Term Project



STAGE 1S CONSTRUCTION – SOUTH APPROACH

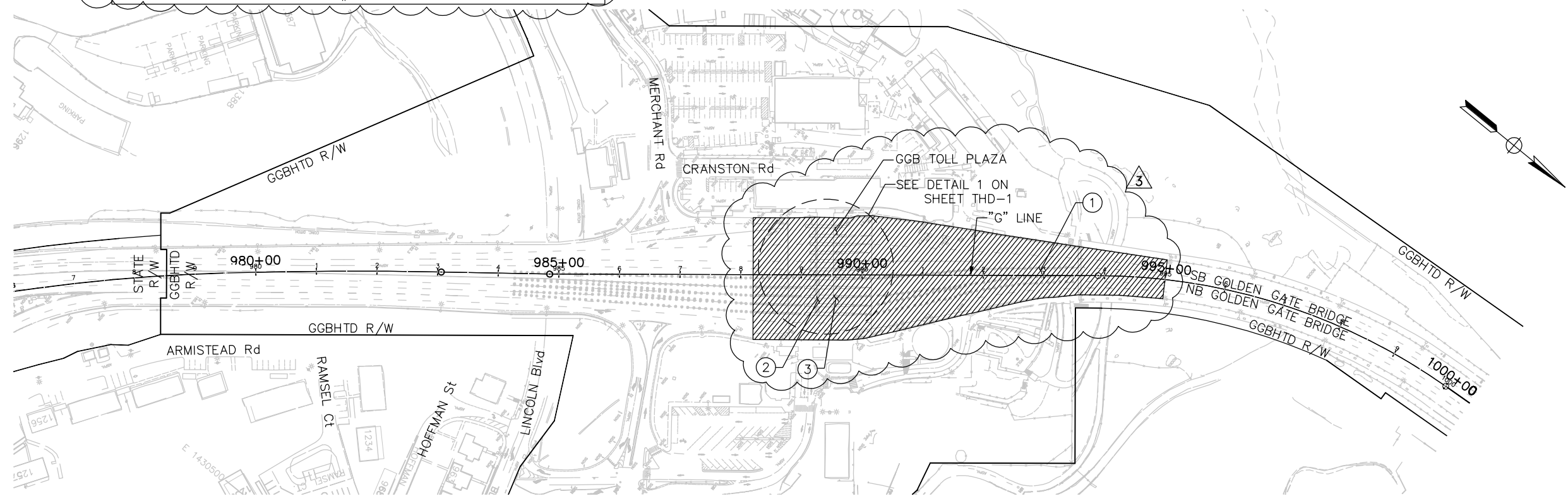
- ① REMOVE EXISTING STRIPING AND MARKERS. INSTALL TEMPORARY PYLON MOUNTING HOLES AND TEMPORARY STRIPING (PAINT) NORTH OF TOLL PLAZA.
- ② REMOVE TOLL PLAZA CANOPY FROM LANES #8 TO #11.
- ③a REMOVE TOLL BOOTH #11. REMOVE CONCRETE ISLAND AND CRASH CUSHION AT TOLL BOOTH #11 AND PLACE TEMPORARY DELINEATORS OR PYLONS IN LIEU OF CONCRETE ISLAND AT TOLL BOOTH #11 PRIOR TO OPENING LANES TO TRAFFIC.
- ③b REMOVE TOLL BOOTH #10. REMOVE CONCRETE ISLAND AND CRASH CUSHION AT TOLL BOOTH #10 AND PLACE TEMPORARY DELINEATORS OR PYLONS IN LIEU OF CONCRETE ISLAND AT TOLL BOOTH #10 PRIOR TO OPENING LANES TO TRAFFIC.
- ③c REMOVE TOLL BOOTH #9. REMOVE CONCRETE ISLAND AND CRASH CUSHION AT TOLL BOOTH #9 AND PLACE TEMPORARY DELINEATORS OR PYLONS IN LIEU OF CONCRETE ISLAND AT TOLL BOOTH #9 PRIOR TO OPENING LANES TO TRAFFIC.
- ③d PLACE TEMP RAILING (TYPE K) IN LANE #9 AND LANE #7 WITH TEMPORARY CRASH CUSHIONS AND INSTALL TEMPORARY TRAFFIC STRIPE (PAINT) AND REMOVE TEMPORARY DELINEATORS OR PYLONS PLACED IN 3a AND 3b AND REMOVE EXISTING CHANNELIZERS SOUTH OF TOLL BOOTH #10 AND #11 PRIOR TO OPENING LANES TO TRAFFIC. SEE DRAWING No. TH-1.
- ③e REMOVE TOLL BOOTH, CONCRETE ISLAND, AND CRASH CUSHION AT TOLL BOOTH #8.

NOTES:

- 1. SEE TRAFFIC HANDLING AND TRAFFIC CONTROL PLANS FOR TRAFFIC PATTERNS DURING CONSTRUCTION.
- 2. FOR ABBREVIATIONS SEE DRAWING No. G-3.
- 3. CONTRACTOR SHALL FOLLOW SPECIFIED SEQUENCES UNLESS OTHERWISE NEEDED OR APPROVED BY ENGINEER.
- 4. PRIOR TO TOLL PLAZA CANOPY AND TOLL BOOTH DEMOLITION, COORDINATE WORK WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS.
- 5. CRASH CUSHIONS SOUTH OF TOLL BOOTHS 9, 10, AND 11 SHALL REMAIN IN PLACE UNTIL NO LONGER NEEDED TO PROTECT TRAFFIC FROM OBSTRUCTIONS. THE CONTRACTOR SHALL PLAN WORK TO REMOVE THE CRASH CUSHION AND THE CONCRETE GUARD (INCLUDING THE SLAB) IN ONE SHIFT.

LEGEND:

-  WORK AREA
-  WORK ITEM NUMBER



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

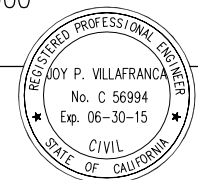
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3		PL 04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. SC-1	
CADD FILE C-SC01.dwg		DATE	

APPROVED BY  
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No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

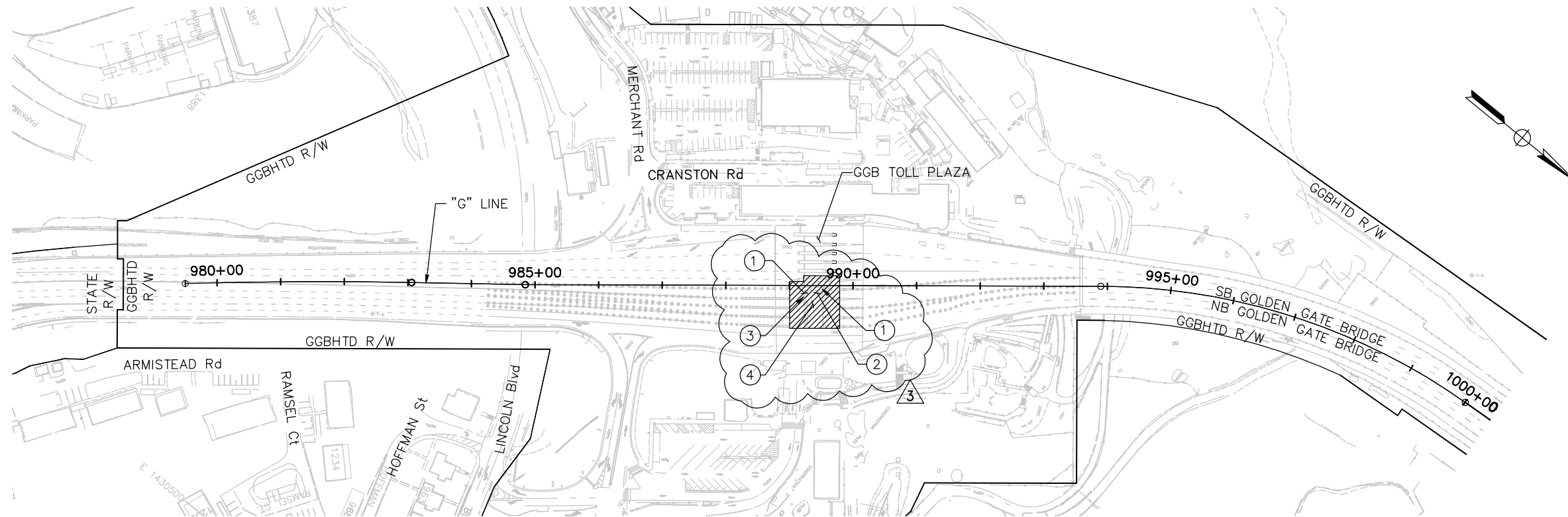
STAGE CONSTRUCTION – SOUTH APPROACH  
STAGE 1S  
SHEET 1 OF 15

STAGE 2S CONSTRUCTION – SOUTH APPROACH 3

- ① RETROFIT TOLL BOOTH #7. MODIFY CONCRETE ISLAND AND REPLACE CRASH CUSHIONS AT TOLL BOOTH #7. CONSTRUCT FOUNDATION, ISLAND, COLUMNS, CRASH CUSHION AND BOOTH FOR NEW LANE #8.
- ② CONSTRUCT CANOPY OVER NEW LANE #8.
- ③ INSTALL AET EQUIPMENT ON CANOPY OVER NEW LANE #8. INSTALL TREADLE ACROSS NEW LANE #8 (BY OTHERS).
- ④ REPLACE EXISTING CONCRETE EXPANSION JOINT AND SEALANT. REPAIR CONCRETE CRACKS AT THE TOLL PLAZA.

NOTES:

1. FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. G-3.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

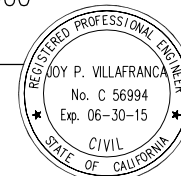
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	BY	JV	DATE	04/18/14
NO.	REVISIONS	BY	DATE		
CONTRACT NO. 2014-B-1		DRAWING NO.		02-25-2014	
CADD FILE C-SC02.dwg		DATE		SC-2	

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GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

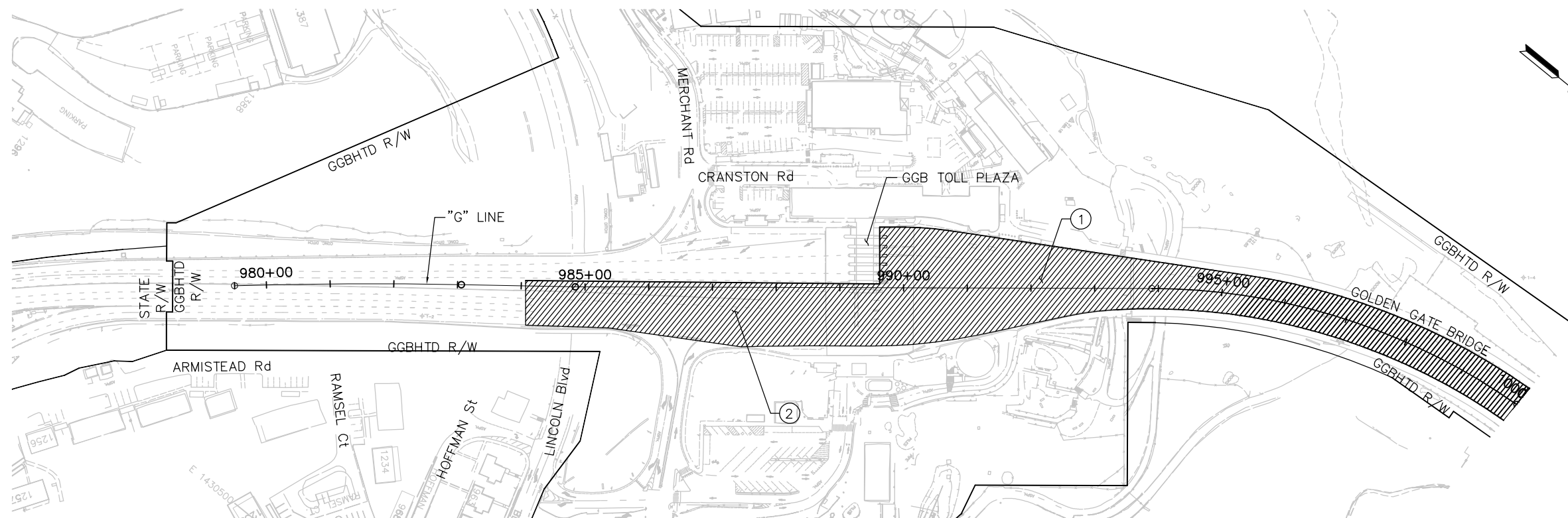
STAGE CONSTRUCTION – SOUTH APPROACH  
STAGE 2S  
SHEET 2 OF 15

STAGE 3S CONSTRUCTION – SOUTH APPROACH

- |   |                               |
|---|-------------------------------|
| ① | INSTALL BTM GUIDE STRIPING.   |
| ② | INSTALL PYLON MOUNTING HOLES. |

NOTES:

- |    |   |
|----|---|
| 1. | FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE DRAWING No. SC-1. |
| 2. | FOR ABBREVIATIONS, SEE DRAWING No. G-3.                       |



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

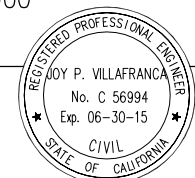
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. SC-3	
CADD FILE C-SC03.dwg		DATE	

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STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

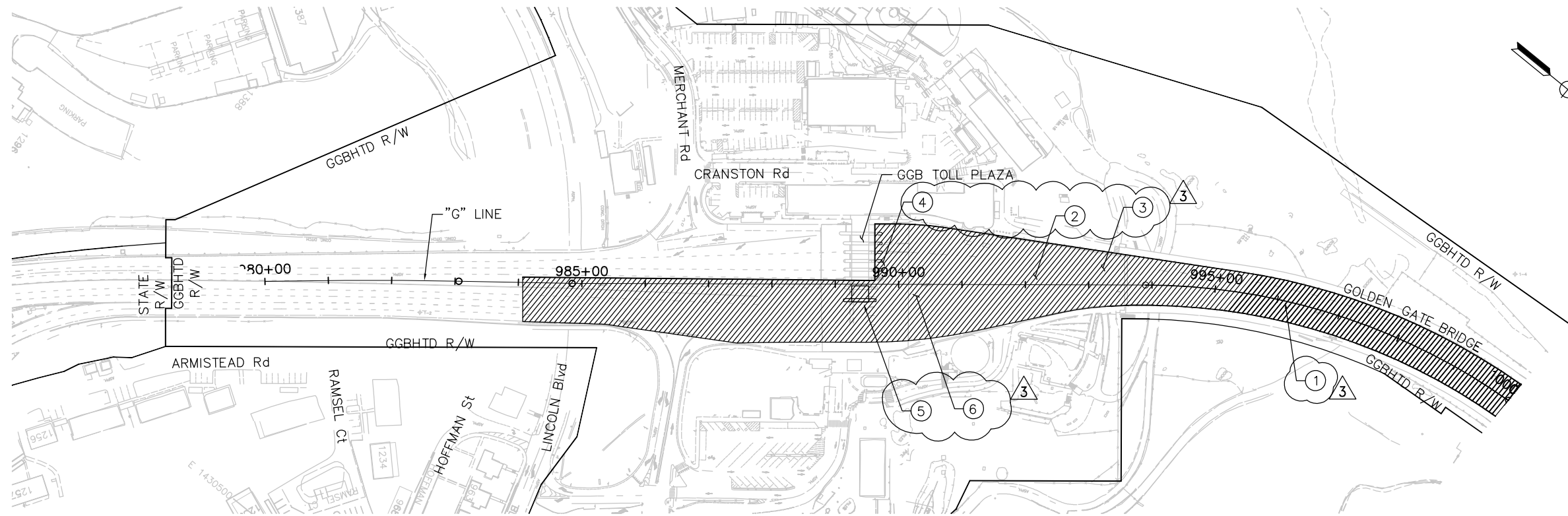
STAGE CONSTRUCTION – SOUTH APPROACH  
STAGE 3S  
SHEET 3 OF 15

STAGE 4S CONSTRUCTION – SOUTH APPROACH

- ① INSTALL MOVEABLE MEDIAN BARRIER (BY OTHERS).
- ② REMOVE EXISTING STRIPING AND MARKERS FROM Sta "G" 984+24 TO Sta "G" 1000+00.
- ③ INSTALL PERMANENT LANE STRIPING FROM Sta "G" 984+24 TO Sta "G" 1000+00.
- ④ REPLACE CRASH CUSHIONS AT TOLL BOOTHS #1 TO #6.
- ⑤ INSTALL CONCRETE BARRIER (TYPE K).
- ⑥ REMOVE TEMP RAILING (TYPE K), TEMPORARY CRASH CUSHIONS AND CHANNELIZERS SOUTH OF TOLL BOOTHS #8 AND #9.

NOTES:

1. FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE DRAWING No. SC-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. G-3.
3. CONTRACTOR TO COORDINATE WORK IN THIS STAGE WITH MMB INSTALLATION DURING WEEKEND BRIDGE CLOSURE.
4. COORDINATE THIS STAGE WITH STAGES 2B AND 5N.
5. WORK ITEM 1 NEEDS TO BE PERFORMED AS FIRST ORDER OF WORK IN THIS STAGE.



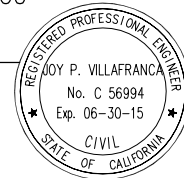
THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

**AECOM**  
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*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



3	ADDENDUM No. 1	PL	04/18/14
NO.	REVISIONS	BY	DATE
CONTRACT NO. 2014-B-1		DRAWING NO. SC-4	
CADD FILE C-SC04.dwg			

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DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – SOUTH APPROACH  
STAGE 4S  
SHEET 4 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

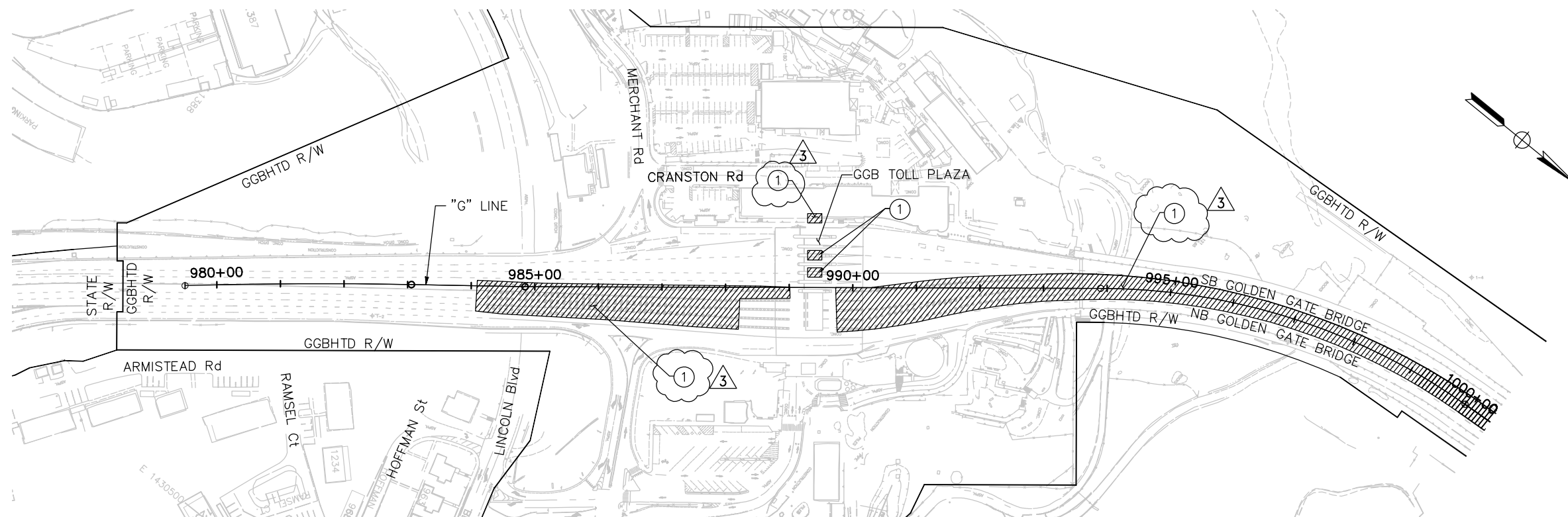


STAGE 5S CONSTRUCTION – SOUTH APPROACH

1 COMPLETE TOLL BOOTH & TOLL CANOPY RETROFIT. RETROFIT A SECTION OF THE ADMINISTRATIVE BUILDING. REMOVE OBSOLETE PYLON HOLDERS AND FILL HOLES.

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- COORDINATE WORK IN THIS STAGE WITH STAGES 3B AND 6N.



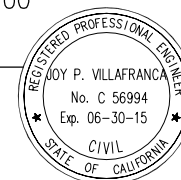
THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

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3	ADDENDUM No. 3	JV	04/18/14
	NO. REVISIONS	BY	DATE
	CONTRACT NO. 2014-B-1	DRAWING NO.	02-25-2014
	CADD FILE C-SC05.dwg	SC-5	DATE

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DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

STAGE CONSTRUCTION – SOUTH APPROACH  
STAGE 5S  
SHEET 5 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

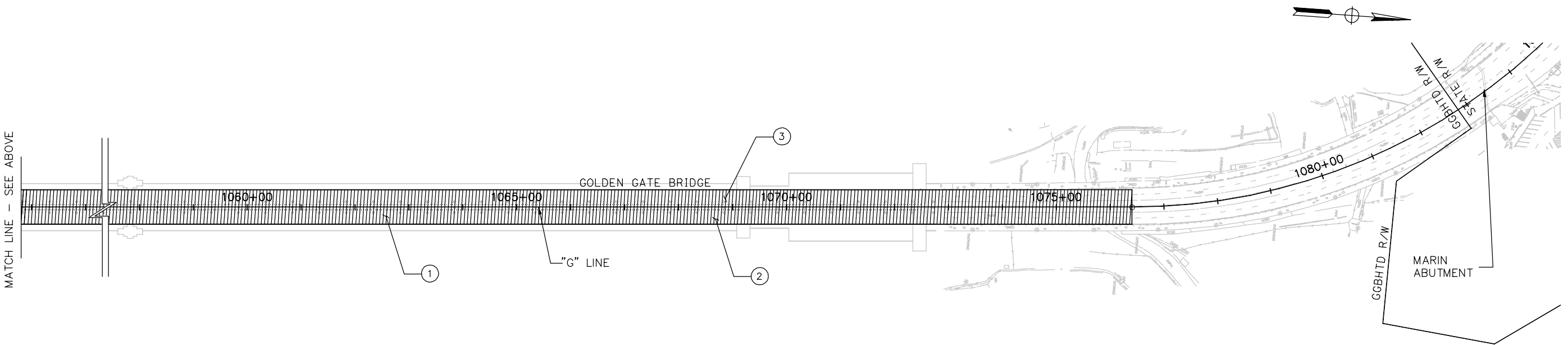
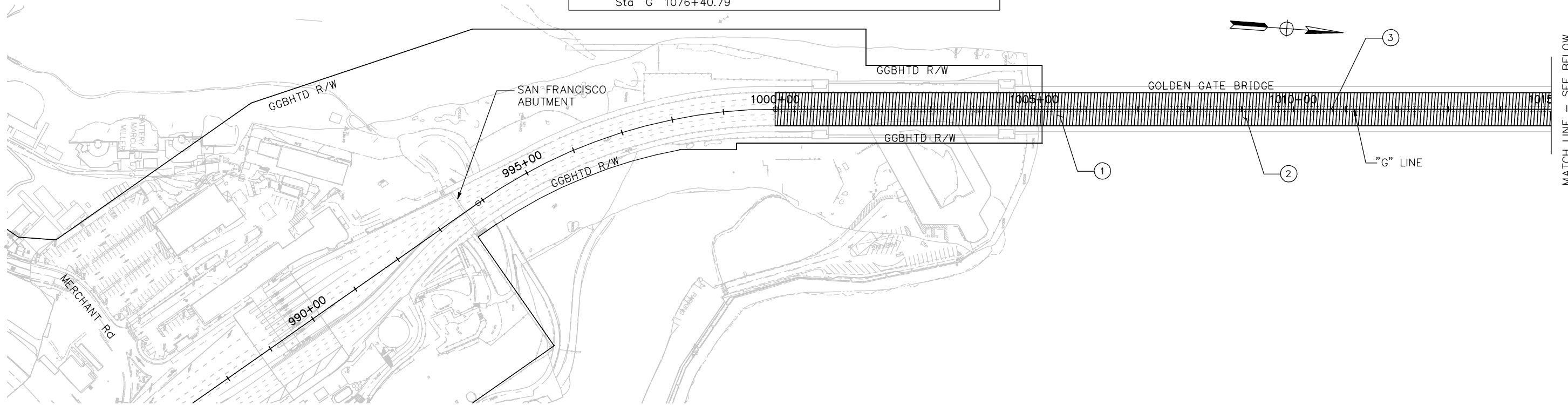
STAGE 1B CONSTRUCTION – GGB

REV. NO.	SHEET NO.	TOTAL SHEETS
0	79	192

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- THIS STAGE NEEDS TO BE COMPLETED PRIOR TO THE START OF STAGES 4S & 5N.

- REMOVE PAVEMENT MARKERS
- INSTALL PERMANENT LANE STRIPING FROM Sta "G" 1000+00 TO Sta "G" 1076+40.79
- INSTALL BTM GUIDE STRIPING FROM Sta "G" 1000+00 TO Sta "G" 1076+40.79



**ISSUED FOR BID**

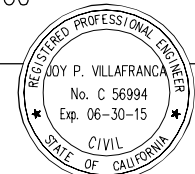
SCALE: 1" = 100'

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

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NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-SC06.dwg

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STATE OF CALIFORNIA

DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – GGB  
STAGE 1B  
SHEET 6 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

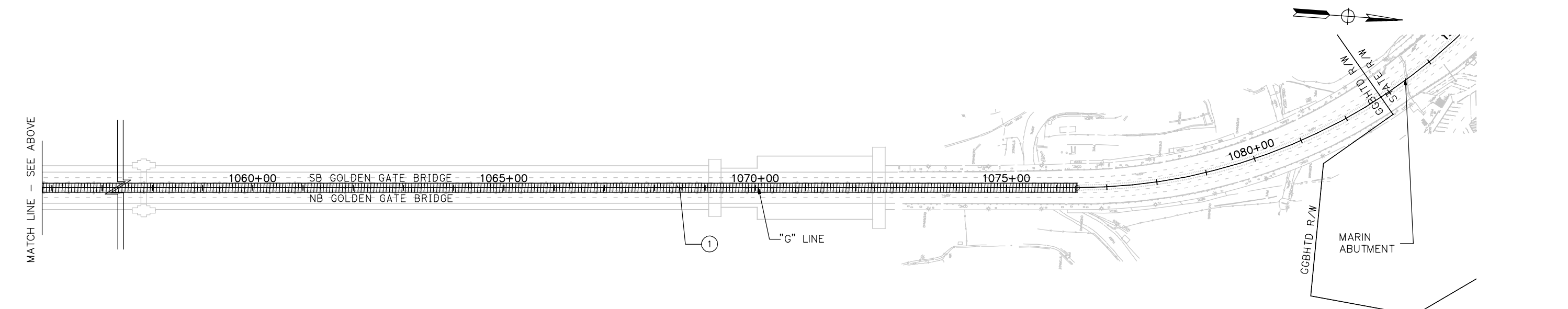
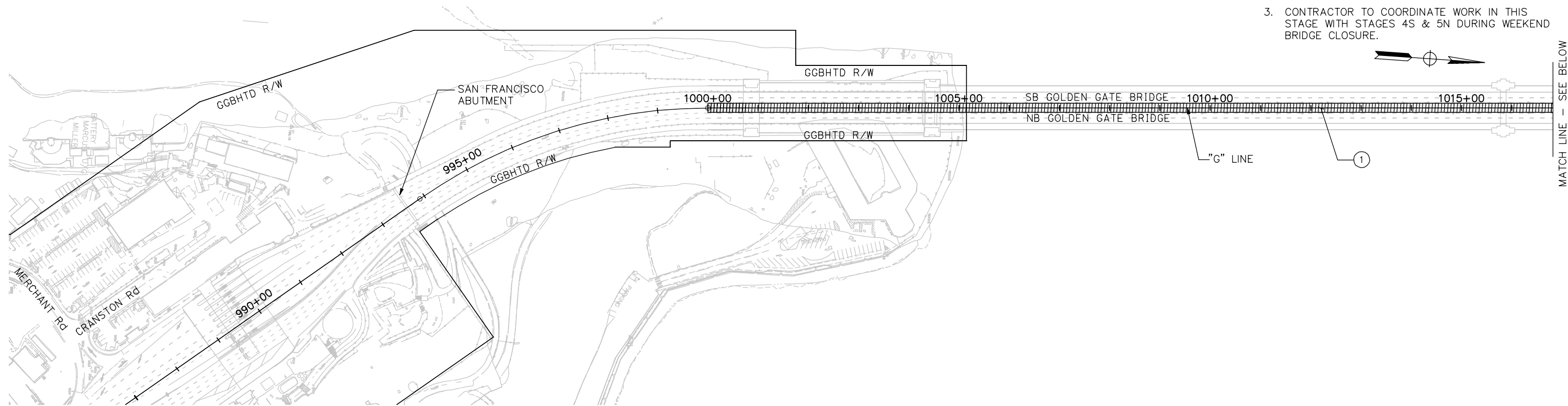
REV. NO.	SHEET NO.	TOTAL SHEETS
0	80	192

STAGE 2B CONSTRUCTION – GGB

① INSTALL MOVEABLE MEDIAN BARRIER (BY OTHERS).

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO COORDINATE WORK IN THIS STAGE WITH STAGES 4S & 5N DURING WEEKEND BRIDGE CLOSURE.



**ISSUED FOR BID**

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

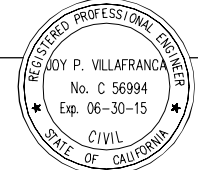
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-SC07.dwg

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STATE OF CALIFORNIA

DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – GGB  
STAGE 2B  
SHEET 7 OF 15

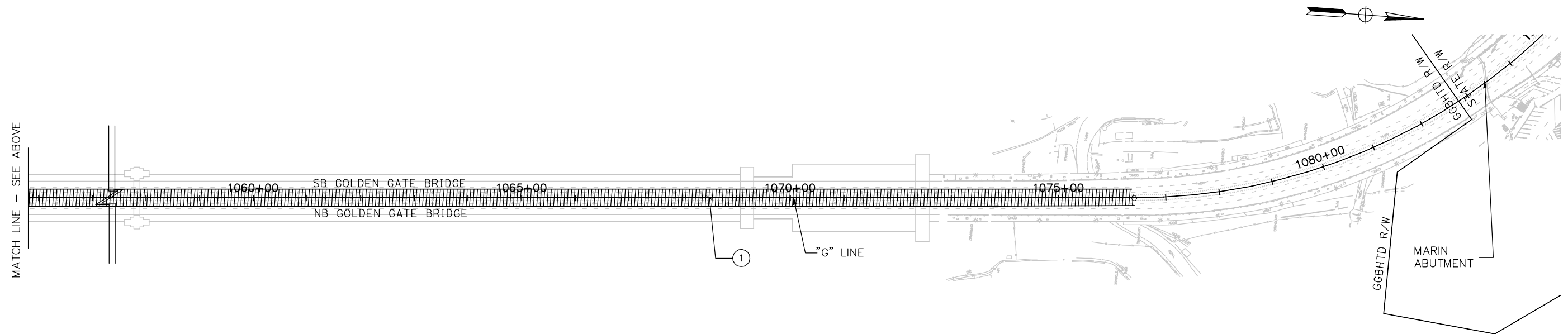
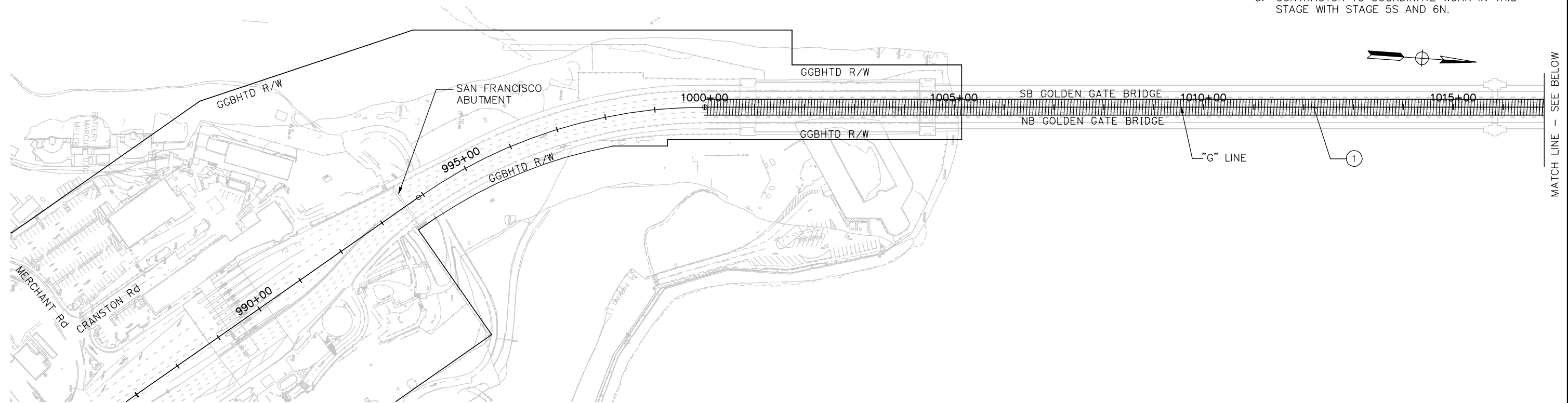
STAGE 3B CONSTRUCTION – GGB

① REMOVE OBSOLETE PYLON HOLDERS AND FILL HOLES.

NOTES:

1. FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. G-3.
3. CONTRACTOR TO COORDINATE WORK IN THIS STAGE WITH STAGE 5S AND 6N.

REV. NO.	SHEET NO.	TOTAL SHEETS
0	81	192



**ISSUED FOR BID**

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

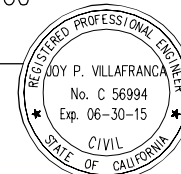
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-SC08.dwg

DRAWING NO. SC-8  
DATE 02-25-2014

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STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

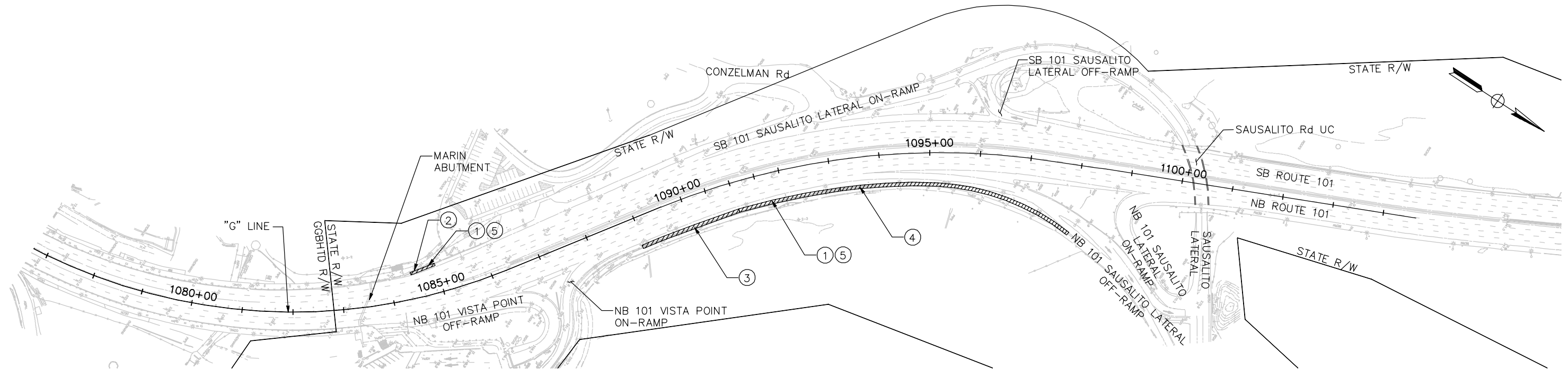
STAGE CONSTRUCTION – GGB  
STAGE 3B  
SHEET 8 OF 15

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- FOR LIMITS AND LOCATIONS OF MBGR AND AC DIKE REMOVAL, SEE LAYOUT PLANS.
- FOR LIMITS AND LOCATIONS OF MBGR INSTALLATION AND REPLACEMENT, SEE LAYOUT PLANS.
- FOR LIMITS AND LOCATIONS OF HMA DIKE INSTALLATION AND RECONSTRUCTION, SEE LAYOUT PLANS.

STAGE 1N CONSTRUCTION – NORTH APPROACH

- |   |  |
|---|--|
| ① | INSTALL Temp RAILING (TYPE K) AND CRASH CUSHIONS.  |
| ② | REMOVE PORTION OF Exist GUARD RAIL AND AC DIKE. INSTALL DRAINAGE SYSTEM #1. RECONSTRUCT GUARD RAIL & HMA DIKE. |
| ③ | REMOVE PORTION OF Exist GUARD RAIL AND AC DIKE. INSTALL DRAINAGE SYSTEM # 2. RECONSTRUCT GUARD RAIL.           |
| ④ | INSTALL MGS & HMA DIKE.  |
| ⑤ | REMOVE Temp RAILING (TYPE K) AND CRASH CUSHIONS.   |



**ISSUED FOR BID**

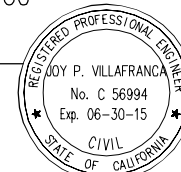
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PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

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DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
STAGE 1N  
SHEET 9 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

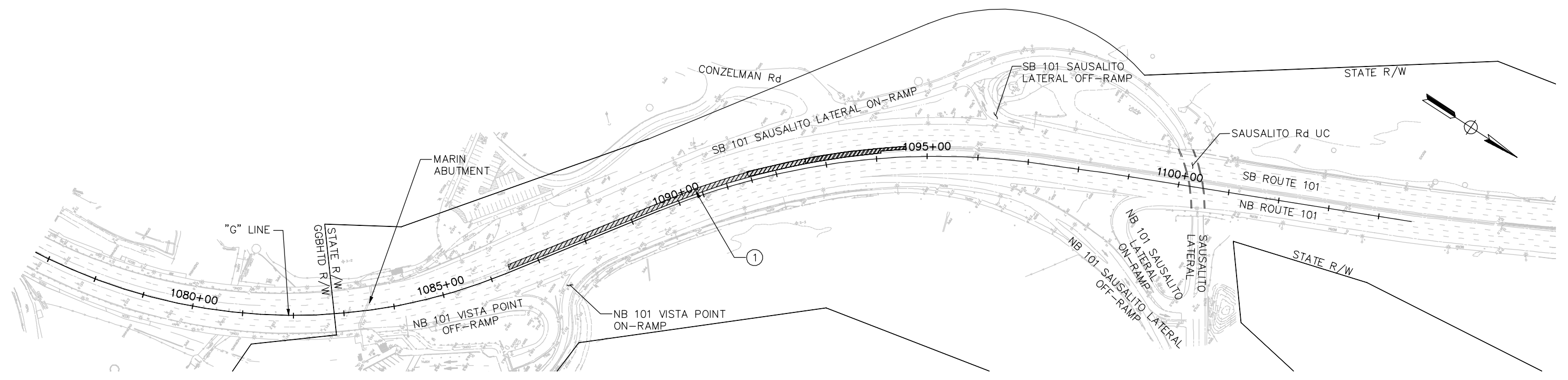
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

**STAGE 2N CONSTRUCTION – NORTH APPROACH**

① REMOVE MEDIAN CONCRETE BARRIER AND CRASH CUSHION AND REPLACE WITH Temp RAILING (TYPE K) AND Temp CRASH CUSHION (SEE Dwg Nos. TH-8 & TH-9).



**ISSUED FOR BID**

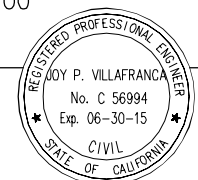
SCALE: 1" = 100'

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NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-SC10.dwg

APPROVED BY  
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DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
STAGE 2N  
SHEET 10 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

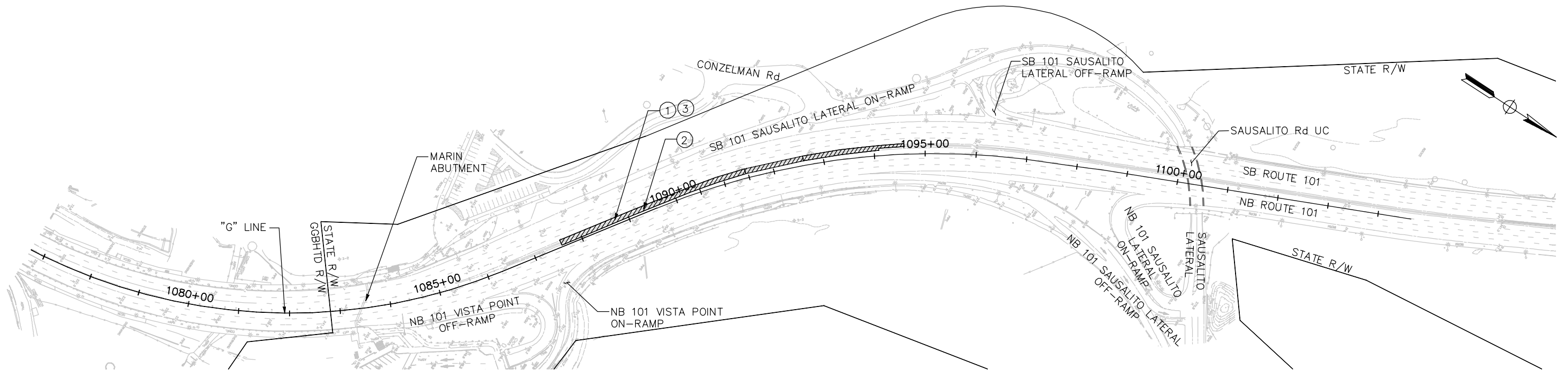
0 1 2 3

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

STAGE 3N CONSTRUCTION – NORTH APPROACH

- |   |   |
|---|---|
| ① | SHIFT Temp RAILING (TYPE K) AND TEMP CRASH CUSHION TO PROVIDE WORKSPACE FOR CONSTRUCTION OF DRAINAGE SYSTEMS #3 AND #4 DURING NIGHT TIME. |
| ② | REMOVE AND MODIFY DRAINAGE SYSTEMS #3 AND #4.   |
| ③ | SHIFT Temp RAILING (TYPE K) AND Temp CRASH CUSHION TO CLEAR TRAVEL LANES AT END OF SHIFT.   |



**ISSUED FOR BID**

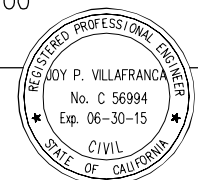
SCALE: 1" = 100'

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*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
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NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-SC11.dwg

APPROVED BY  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
STAGE 3N  
SHEET 11 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

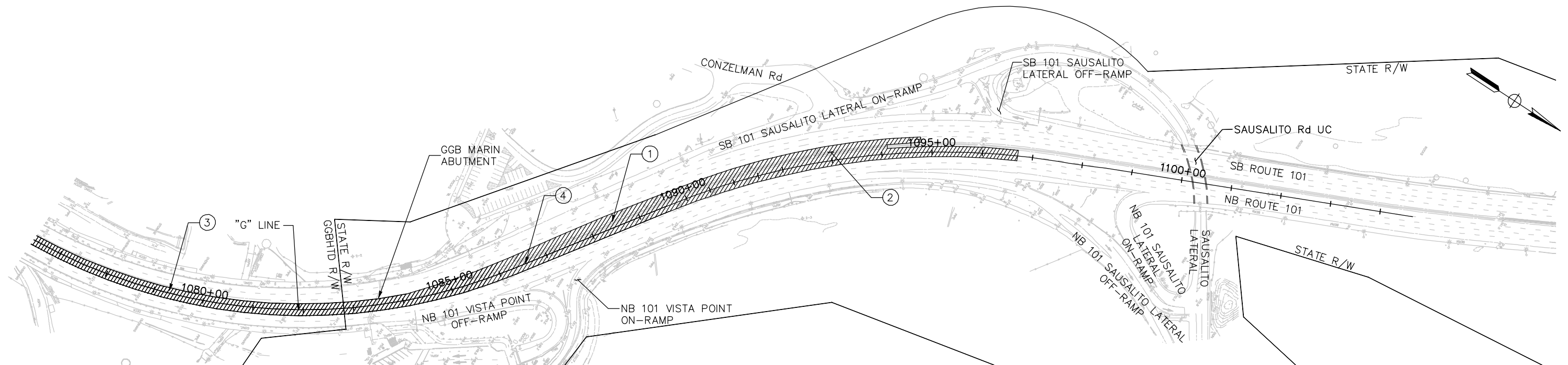
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

**STAGE 4N CONSTRUCTION – NORTH APPROACH**

- SHIFT Temp RAILING (TYPE K) AND Temp CRASH CUSHION TO PROVIDE WORKSPACE FOR PAVEMENT EXCAVATION DURING WEEKEND CONSTRUCTION WORK. REMOVE MEDIAN PAVEMENT. CONSTRUCT ROADWAY PAVEMENT.
- SHIFT Temp RAILING (TYPE K) AND Temp CRASH CUSHION TO CLEAR TRAVEL LANES AT END OF WEEKEND CONSTRUCTION.
- INSTALL BTM GUIDE STRIPE FROM Sta "G" 1076+41 TO Sta "G" 1083+44.
- INSTALL Temp BTM GUIDE STRIPE FROM Sta "G" 1083+44 TO Sta "G" 1096+55.



**ISSUED FOR BID**

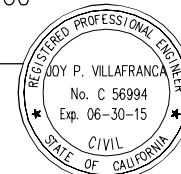
SCALE: 1" = 100'

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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
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APPROVED BY  
*Ewa Z. Bauer*  
REGISTERED PROFESSIONAL ENGINEER  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
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STATE OF CALIFORNIA  
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GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
STAGE 4N  
SHEET 12 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

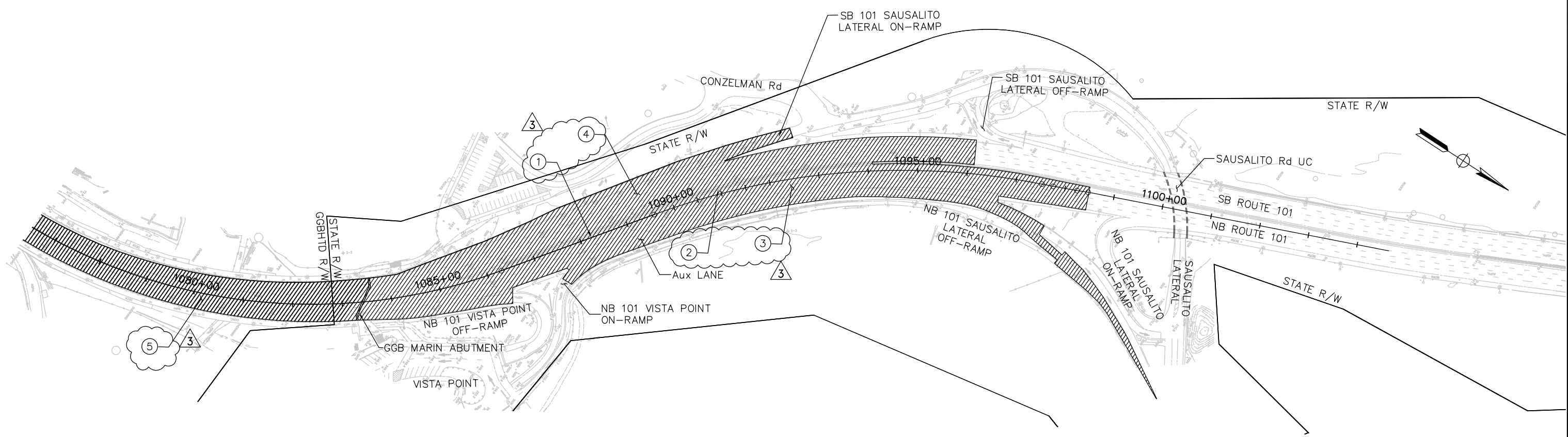


STAGE 5N CONSTRUCTION – NORTH APPROACH

- |   |  |
|---|--|
| ① | INSTALL MOVEABLE MEDIAN BARRIER (BY OTHERS).                                 |
| ② | REMOVE TEMPORARY RAILING (TYPE K) AND CRASH CUSHIONS.                        |
| ③ | REMOVE EXISTING STRIPE AND PAVEMENT MARKERS.                                 |
| ④ | INSTALL TEMPORARY STRIPE (PAINT) FROM Sta "G" 1083+44 TO Sta "G" 1098+46.65. |
| ⑤ | INSTALL PERMANENT STRIPING FROM Sta "G" 1076+40.79 TO Sta "G" 1083+44.       |

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO COORDINATE WORK IN THIS STAGE WITH MMB INSTALLATION DURING WEEKEND BRIDGE CLOSURE.
- CONTRACTOR TO COORDINATE WORK IN THIS STAGE WITH STAGES 4S & 2B.



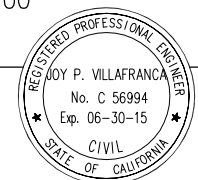
THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

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PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. SC-13	
CADD FILE C-SC13.dwg		DATE	

APPROVED BY  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
STAGE 5N  
SHEET 13 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO COORDINATE WORK IN THIS STAGE WITH STAGES 5S AND 3B.

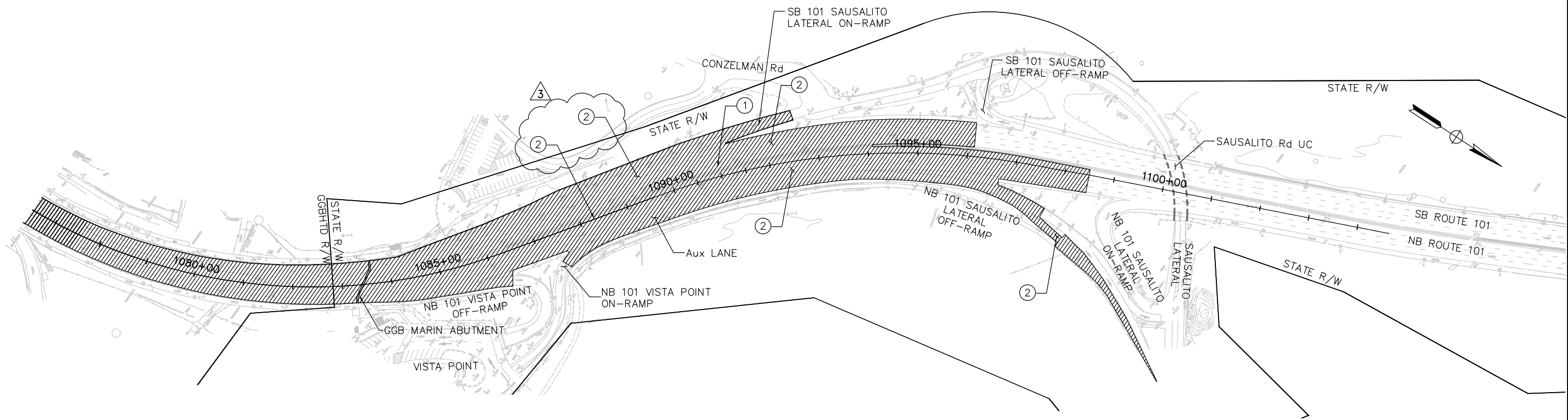
STAGE 6N CONSTRUCTION – NORTH APPROACH

① REMOVE OBSOLETE PYLON HOLDERS AND FILL HOLES.

② COLD PLANE AC PAVEMENT AND PLACE HMA OVERLAY ALONG MAINLINE FROM Sta "G" 1083+44 TO Sta "G" 1098+47 AND AT NB SAUSALITO LATERAL OFF-RAMP BUS PULL-OFF AREA.

INSTALL TEMPORARY STRIPE (PAINT) FROM Sta "G" 1083+44 TO Sta "G" 1098+47.

INSTALL TEMPORARY BTM GUIDE STRIPE (PAINT) FROM Sta "G" 1083+44 TO Sta "G" 1096+55.



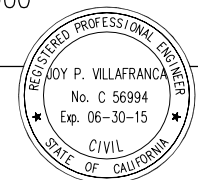
THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

**AECOM**  
 2101 WEBSTER STREET, SUITE 1900  
 OAKLAND, CA 94612

*Joy P. Villafranca*  
 REGISTERED ENGINEER  
 FEBRUARY 25, 2014  
 PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. SC-14	
CADD FILE C-SC14.dwg		DATE	

APPROVED BY  
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 EWA Z. BAUER  
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GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
 STAGE 6N  
 SHEET 14 OF 15

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

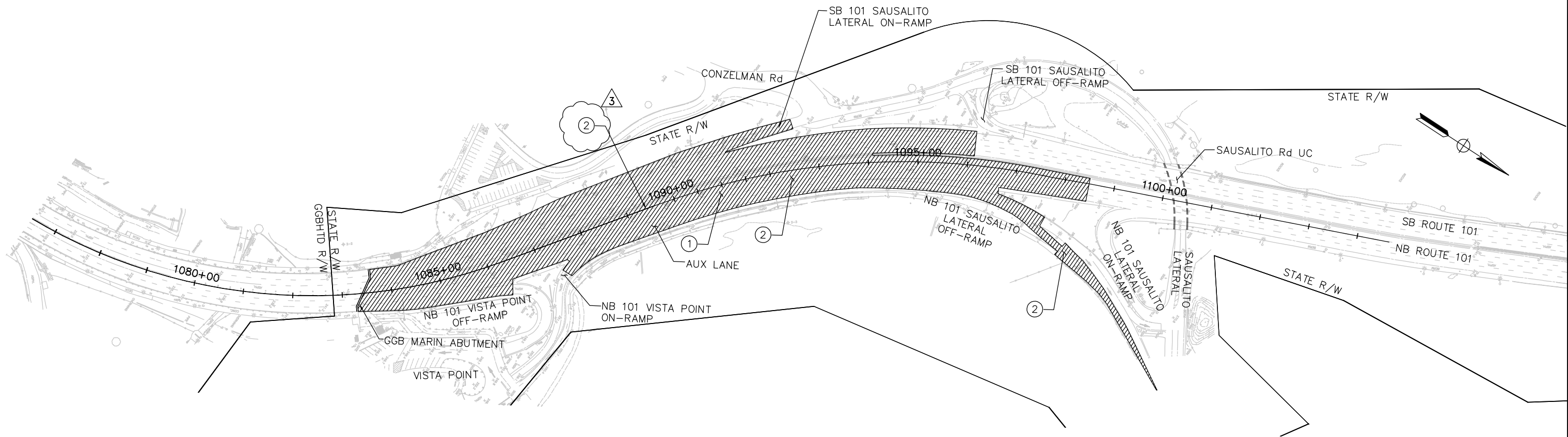
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STAGE 7N CONSTRUCTION – NORTH APPROACH

- ① REMOVE TEMPORARY STRIPE (PAINT) AND TEMPORARY BTM GUIDE STRIPE (PAINT).
  - ② INSTALL PERMANENT STRIPE ALONG MAINLINE AND RAMPS FROM Sta "G" 1083+44 TO Sta "G" 1098+47 AND NB SAUSALITO LATERAL OFF RAMP BUS PULL OFF AREA.
- INSTALL PERMANENT BTM GUIDE STRIPE FROM Sta "G" 1083+44 TO Sta "G" 1096+55.

NOTES:

- 1. FOR NOTES AND LEGEND, SEE DRAWING No. SC-1.
- 2. FOR ABBREVIATIONS, SEE DRAWING No. G-3.



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

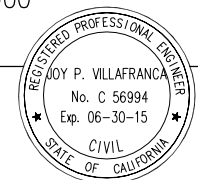
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. SC-15	
CADD FILE C-SC15.dwg		DATE	

APPROVED BY  
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GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – NORTH APPROACH  
STAGE 7N  
SHEET 15 OF 15

## Attachment B2: Traffic Handling Plans— Short-Term Project

TEMPORARY ALTERNATIVE CRASH CUSHION (TL-2)  
SOUTH APPROACH

	TYPE	LENGTH	WIDTH
1	ABSORB 350 (TL-2)	20'	2'
2	ACZ 350 (TL-2)	31.6'	1.84'
3	QUADGUARD MODEL NO. OS2403	13.1'	2'

TEMPORARY ALTERNATIVE CRASH CUSHION (TL-3)  
NORTH APPROACH

	TYPE	LENGTH	WIDTH
1	ABSORB 350 (TL-3)	32'	2'
2	ARRAY 'TB14'	22.5'	5'
3	QUADGUARD MODEL NO. OS3606	22'	3'

LEGEND:

- CONSTRUCT THIS STAGE
- TRAFFIC DIRECTION DURING CONSTRUCTION ACTIVITY SIGN
- SIGN NUMBER
- CRASH CUSHION
- TRAFFIC CONE OR PORTABLE DELINEATOR CHANNELIZER (SURFACE MOUNTED)
- EXISTING DISTRICT TRAFFIC PYLONS
- PORTABLE FLASHING BEACON (PFB)
- FLASHING ARROW SIGN (FAS) SUPPORT
- FLASHING ARROW SIGN (FAS)
- TEMPORARY RAILING (TYPE K)
- TYPE III BARRICADE WITH WARNING LIGHT
- FLAG TREE
- FLAGMAN
- NEW DISTRICT TRAFFIC PYLONS

LEGEND:

- BEGIN/END OF TRAFFIC STRIPE DETAIL
- CHANGE OF TRAFFIC STRIPE DETAIL
- Temp TRAFFIC STRIPE (PAINT) DETAIL NUMBER
- FINAL PAVEMENT DELINEATION (SEE PD DRAWINGS)
- TRAFFIC STRIPE CURVE NUMBER

CURVE DATA - Temp RAILING (TYPE K)

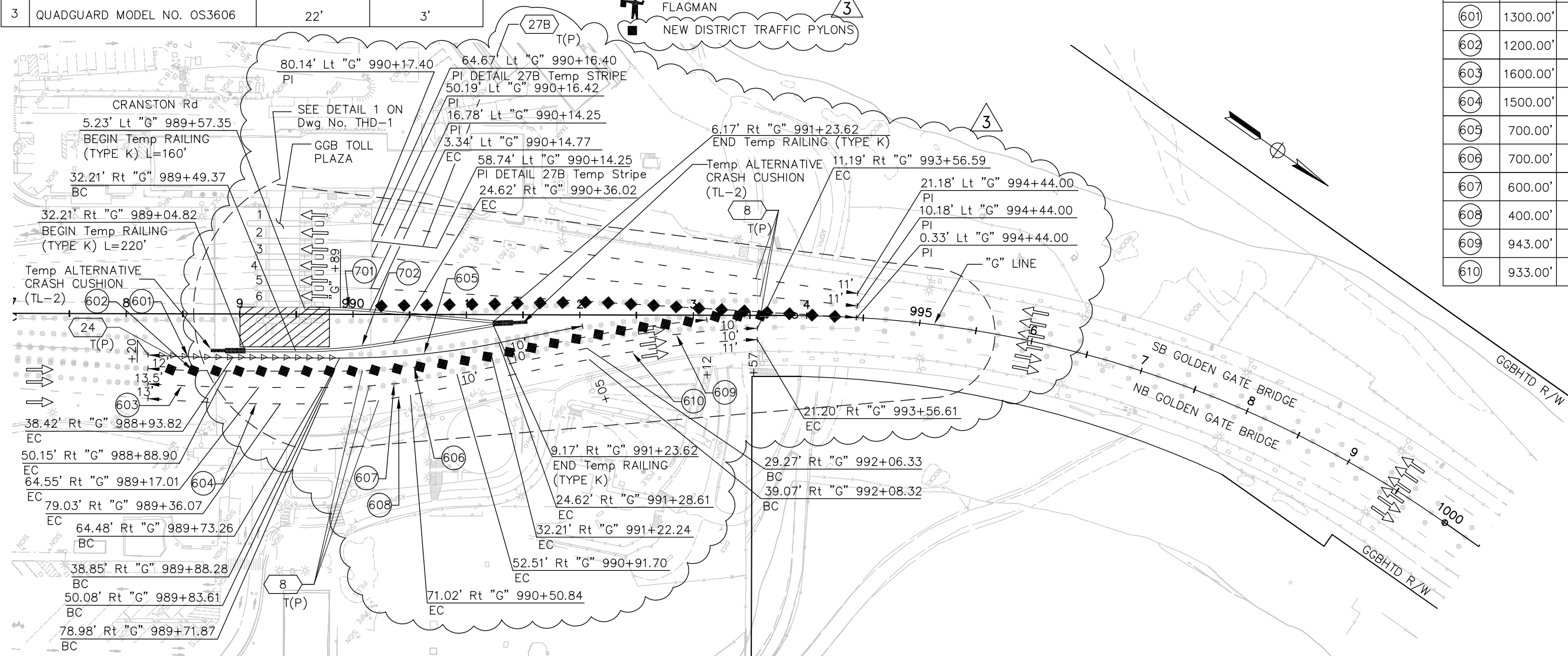
No.	R	Δ	T	L
701	499.00'	5°00'00"	21.79'	43.55'
702	499.00'	10°00'00"	43.66'	87.09'

NOTES:

- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE Dwg Nos. CS-1 TO CS-7.
- STATION AND OFFSET ALONG TEMP RAILING (TYPE K) ARE TO THE CENTER OF RAILING.
- SEE TRAFFIC CONTROL PLANS FOR TEMPORARY LANE CLOSURES.
- 3N/3S LANE CONFIGURATION SHOWN ON THIS SHEET; HOWEVER, CONTRACTOR SHALL IMPLEMENT ALL THREE LANE CONFIGURATIONS ON BRIDGE AS REQUIRED DURING THIS STAGE.
- THE LANE CLOSURE HOURS WILL BE CONSISTENT WITH THE LANE CLOSURE CHART OF SPECIAL PROVISIONS.

CURVE DATA - Temp TRAFFIC STRIPE

No.	R	Δ	T	L
601	1300.00'	3°17'11"	37.29'	74.56'
602	1200.00'	3°19'30"	34.83'	69.64'
603	1600.00'	3°30'03"	48.90'	97.76'
604	1500.00'	4°27'52"	58.47'	116.88'
605	700.00'	11°33'43"	70.87'	141.26'
606	700.00'	11°25'24"	70.01'	139.56'
607	600.00'	11°23'12"	59.82'	119.24'
608	400.00'	11°23'12"	39.88'	79.50'
609	943.00'	9°12'16"	75.91'	151.49'
610	933.00'	9°10'55"	74.92'	149.52'



PLAN  
1" = 50'

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 50'

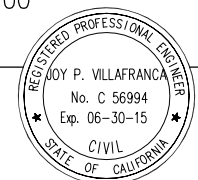
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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FEBRUARY 25, 2014  
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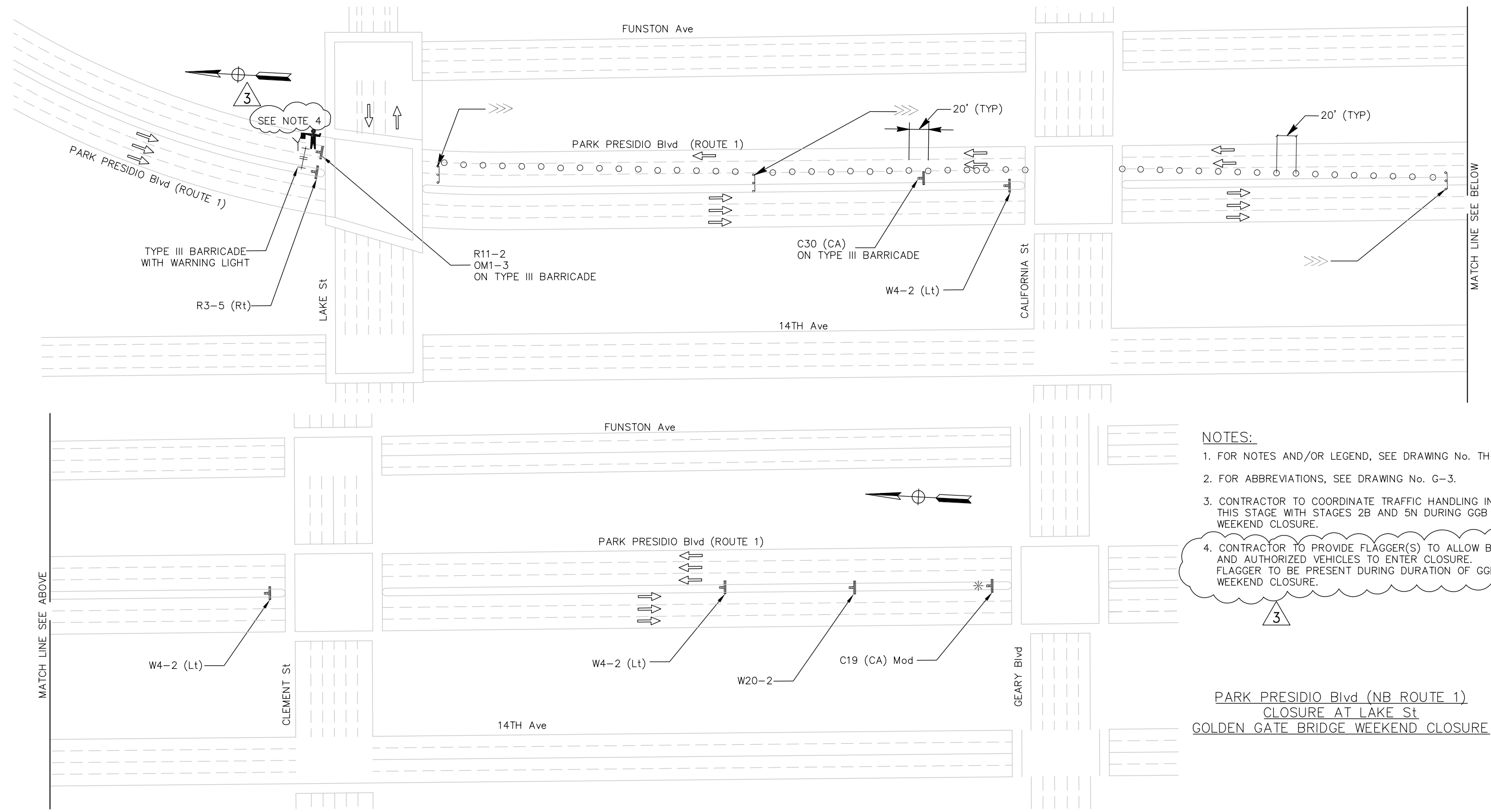
ADDENDUM No. 3	JV 4/18/14
NO. REVISIONS	BY DATE
CONTRACT NO. 2014-B-1	DRAWING NO. TH-1
CADD FILE C-TH01.dwg	DATE

APPROVED BY  
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STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING - SOUTH APPROACH  
STAGE 1S TO 4S - 3N/3S  
SHEET 1 OF 13



- NOTES:**
- FOR NOTES AND/OR LEGEND, SEE DRAWING No. TH-1.
  - FOR ABBREVIATIONS, SEE DRAWING No. G-3.
  - CONTRACTOR TO COORDINATE TRAFFIC HANDLING IN THIS STAGE WITH STAGES 2B AND 5N DURING GGB WEEKEND CLOSURE.
  - CONTRACTOR TO PROVIDE FLAGGER(S) TO ALLOW BUSES AND AUTHORIZED VEHICLES TO ENTER CLOSURE. FLAGGER TO BE PRESENT DURING DURATION OF GGB WEEKEND CLOSURE.

**PARK PRESIDIO Blvd (NB ROUTE 1)  
CLOSURE AT LAKE St  
GOLDEN GATE BRIDGE WEEKEND CLOSURE**

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: 1"=50'

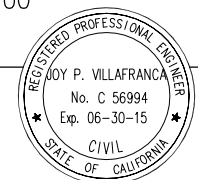
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DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	4/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TH-2	
CADD FILE C-TH02.dwg		DATE 02-25-2014	

APPROVED BY  
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EWA Z. BAUER  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

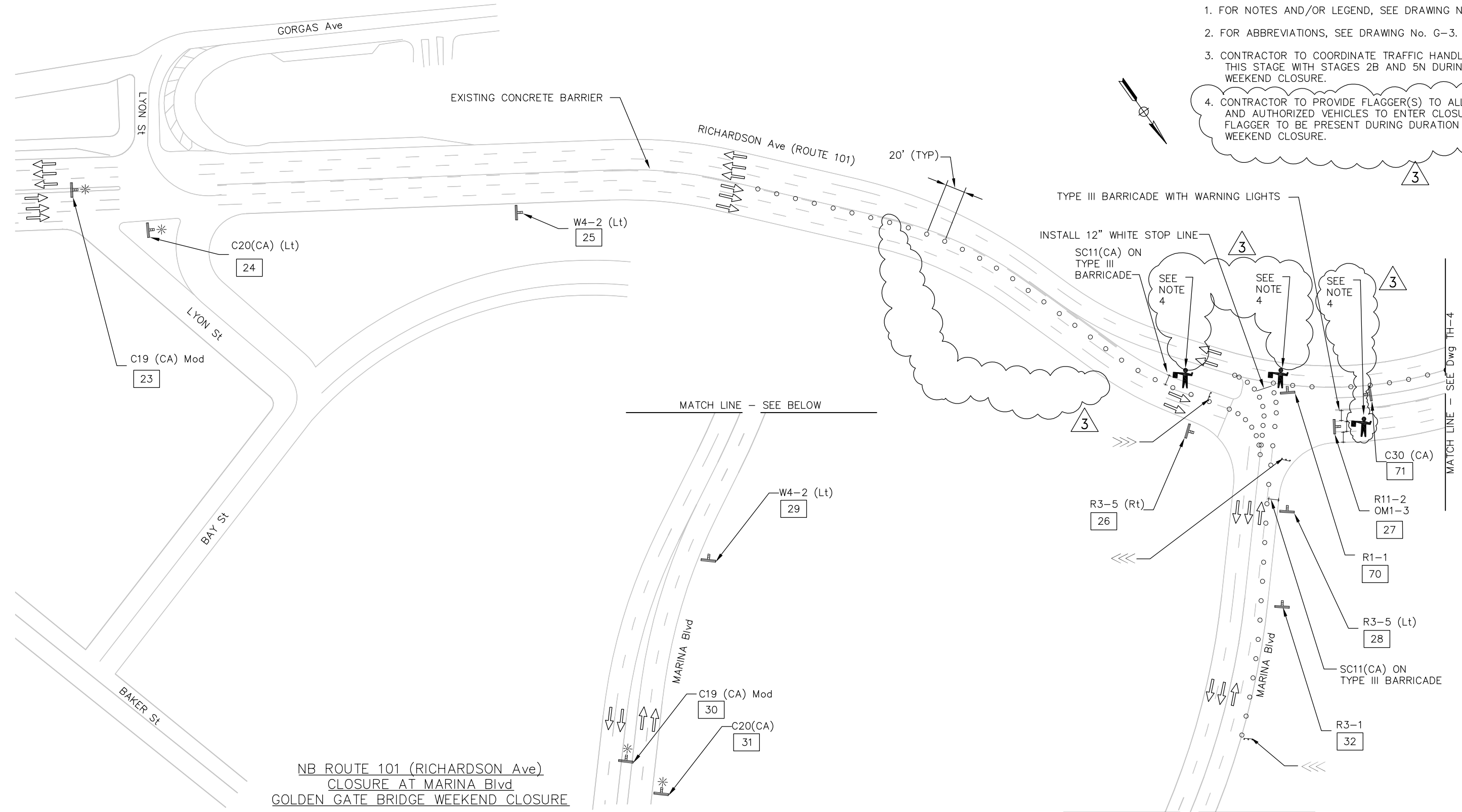
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

TRAFFIC HANDLING – SOUTH APPROACH  
STAGE 4S GGB WEEKEND CLOSURE  
SHEET 2 OF 13

**NOTES:**

1. FOR NOTES AND/OR LEGEND, SEE DRAWING No. TH-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. G-3.
3. CONTRACTOR TO COORDINATE TRAFFIC HANDLING IN THIS STAGE WITH STAGES 2B AND 5N DURING GGB WEEKEND CLOSURE.
4. CONTRACTOR TO PROVIDE FLAGGER(S) TO ALLOW BUSES AND AUTHORIZED VEHICLES TO ENTER CLOSURE. FLAGGER TO BE PRESENT DURING DURATION OF GGB WEEKEND CLOSURE.



**NB ROUTE 101 (RICHARDSON Ave)  
CLOSURE AT MARINA Blvd  
GOLDEN GATE BRIDGE WEEKEND CLOSURE**

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

MATCH LINE - SEE ABOVE

SCALE: 1"=50'

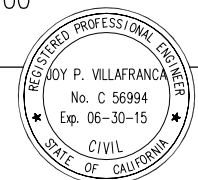
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DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	BY	JV	DATE	4/18/14
NO.	REVISIONS	BY		DATE	
CONTRACT NO. 2014-B-1		DRAWING NO. TH-3			
CADD FILE C-TH03.dwg		DATE			

APPROVED BY  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

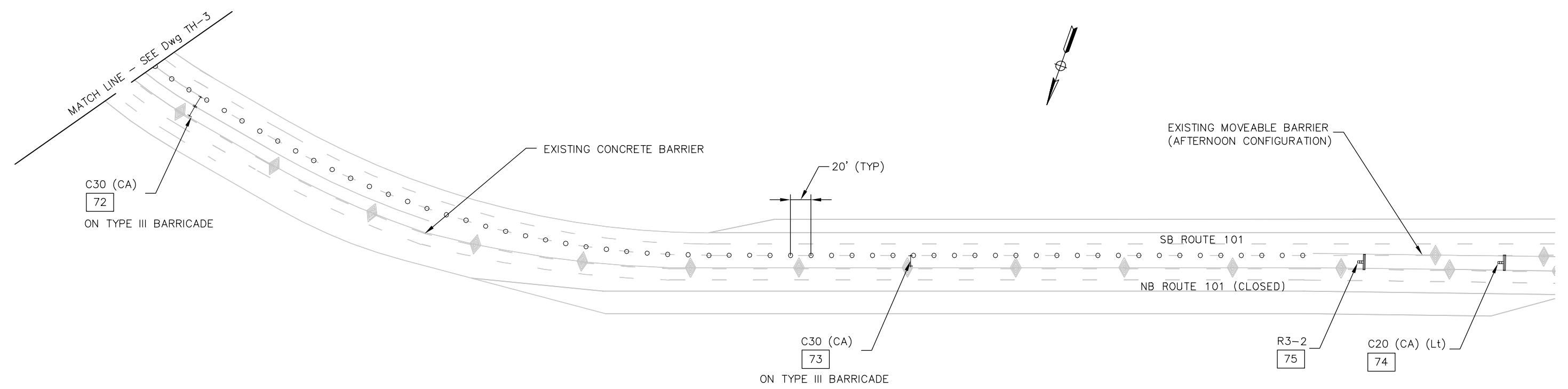
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

TRAFFIC HANDLING - SOUTH APPROACH  
STAGE 4S GGB WEEKEND CLOSURE  
SHEET 3 OF 13

NOTES:

1. FOR NOTES AND/OR LEGEND, SEE DRAWING No. TH-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. G-3.
3. CONTRACTOR TO COORDINATE TRAFFIC HANDLING IN THIS STAGE WITH STAGES 2B AND 5N DURING GGB WEEKEND CLOSURE.



NB ROUTE 101 (RICHARDSON Ave)  
CLOSURE AT MARINA Blvd  
GOLDEN GATE BRIDGE WEEKEND CLOSURE

**ISSUED FOR BID**

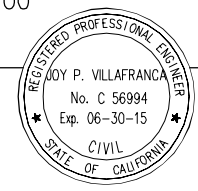
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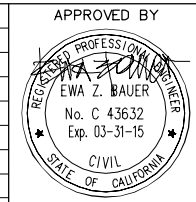
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NO.	REVISIONS	BY	DATE



DISTRICT ENGINEER  
 02-25-2014  
 DATE

 GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT
<b>GOLDEN GATE BRIDGE MOVEABLE          MEDIAN BARRIER</b>
<b>TRAFFIC HANDLING – SOUTH APPROACH          STAGE 4S GGB WEEKEND CLOSURE          SHEET 4 OF 13</b>

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

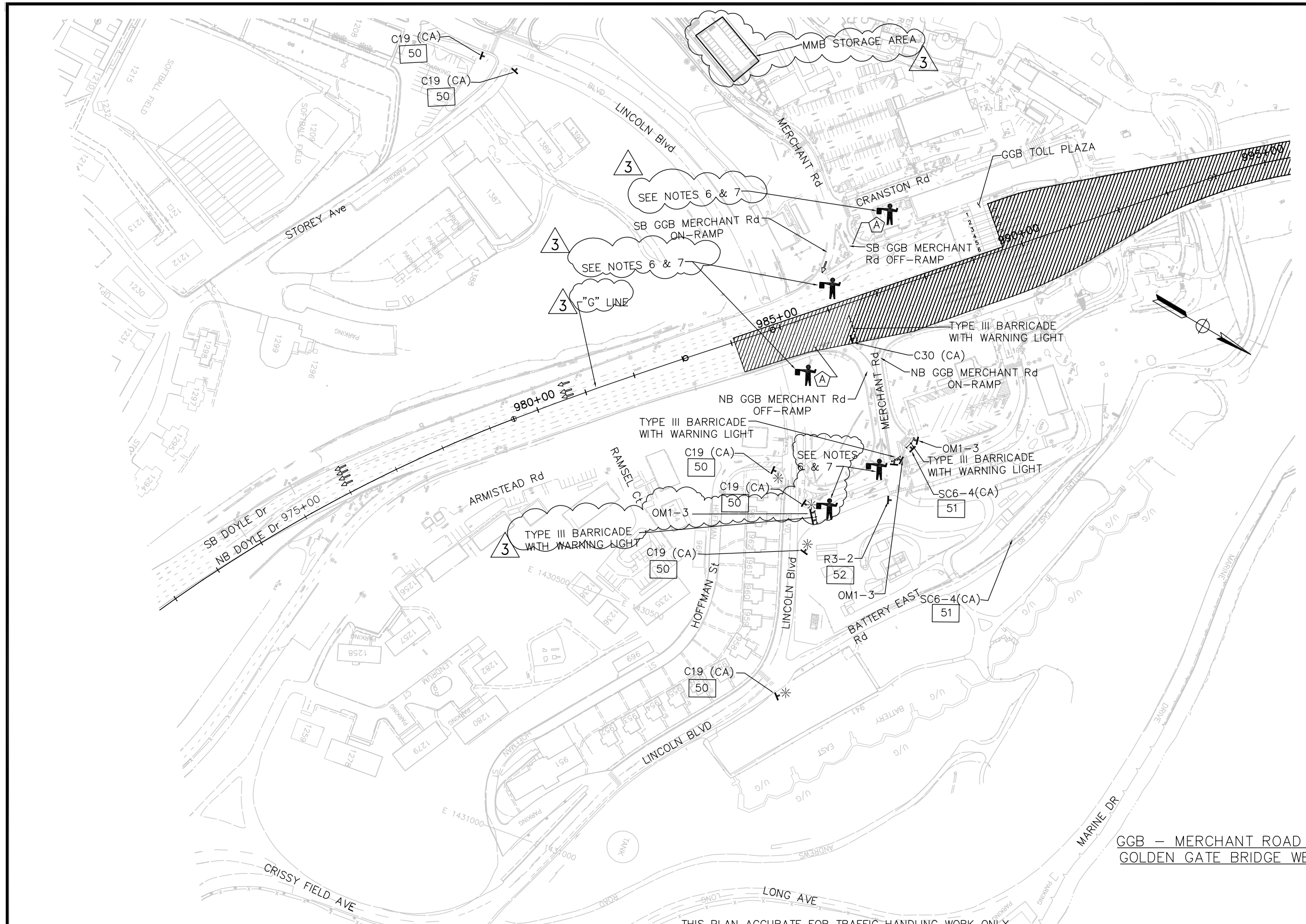


**NOTES:**

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- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO COORDINATE TRAFFIC HANDLING WITH STAGES 2B AND 5N DURING GGB WEEKEND CLOSURE.
- 3N/3S LANE CONFIGURATION SHOWN ON THIS SHEET; HOWEVER, CONTRACTOR SHALL IMPLEMENT ALL THREE LANE CONFIGURATIONS ON BRIDGE AS REQUIRED DURING THIS STAGE.
- FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE Dwg Nos. CS-1 TO CS-10.
- CONTRACTOR TO PROVIDE FLAGGER(S) TO ALLOW BUSES AND AUTHORIZED VEHICLES TO ENTER CLOSURE. FLAGGER TO BE PRESENT DURING DURATION OF GGB WEEKEND CLOSURE.
- CONTRACTOR TO COORDINATE TRAFFIC HANDLING TO ALLOW MMB TRANSPORT TRUCKS TO ENTER AND EXIT ROADWAY AND WORK AREA.

(A) ALLOW BUSES TO ACCESS MERCHANT Rd AND WORK AREA.

3



GGB - MERCHANT ROAD RAMPS CLOSURE  
GOLDEN GATE BRIDGE WEEKEND CLOSURE

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 100'

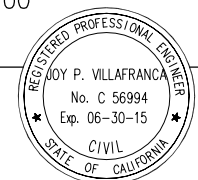
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DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
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CONTRACT NO. 2014-B-1		DRAWING NO. TH-5	
CADD FILE C-TH05.dwg		DATE	

APPROVED BY  
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Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

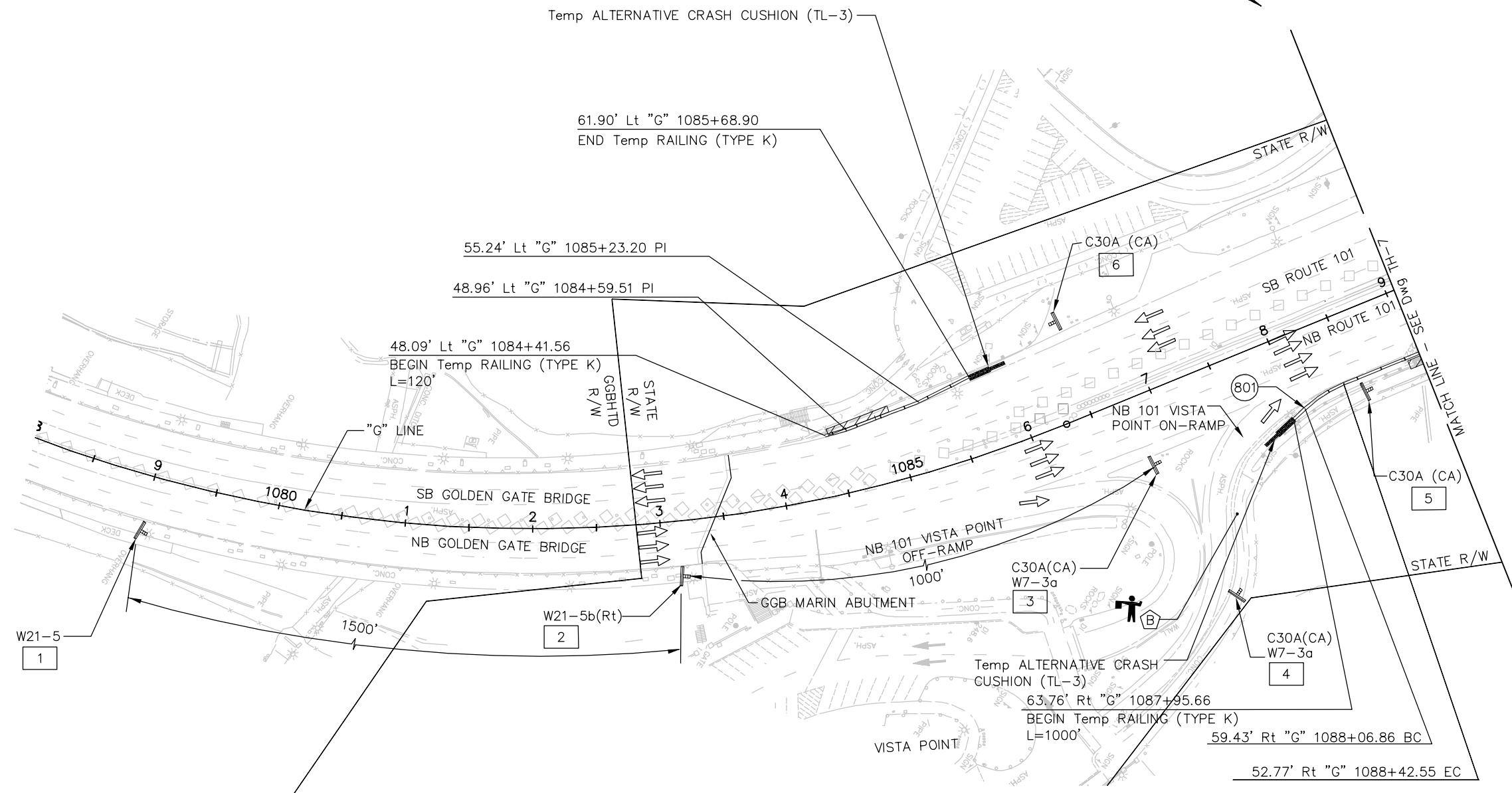
TRAFFIC HANDLING - SOUTH APPROACH  
STAGE 4S GGB WEEKEND CLOSURE  
SHEET 5 OF 13

CURVE DATA – Temp RAILING (TYPE K)

No.	R	Δ	T	L
801	99.00'	21°07'47"	18.46'	36.51'

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
  - FOR ABBREVIATIONS, SEE DRAWING No. G-3.
  - 3N/3S LANE CONFIGURATION SHOWN ON THIS SHEET; HOWEVER, CONTRACTOR SHALL IMPLEMENT ALL THREE LANE CONFIGURATIONS ON BRIDGE AS REQUIRED DURING THIS STAGE.
- ⓑ GUIDE THE BICYCLISTS AND PEDESTRIANS TO CONZELMAN Rd DURING CONSTRUCTION ACTIVITY



**ISSUED FOR BID**

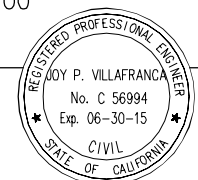
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SCALE: 1"=50'

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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-TH06.dwg

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER  
DATE 02-25-2014

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING – NORTH APPROACH  
STAGE 1N – 3N/3S  
SHEET 6 OF 13

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

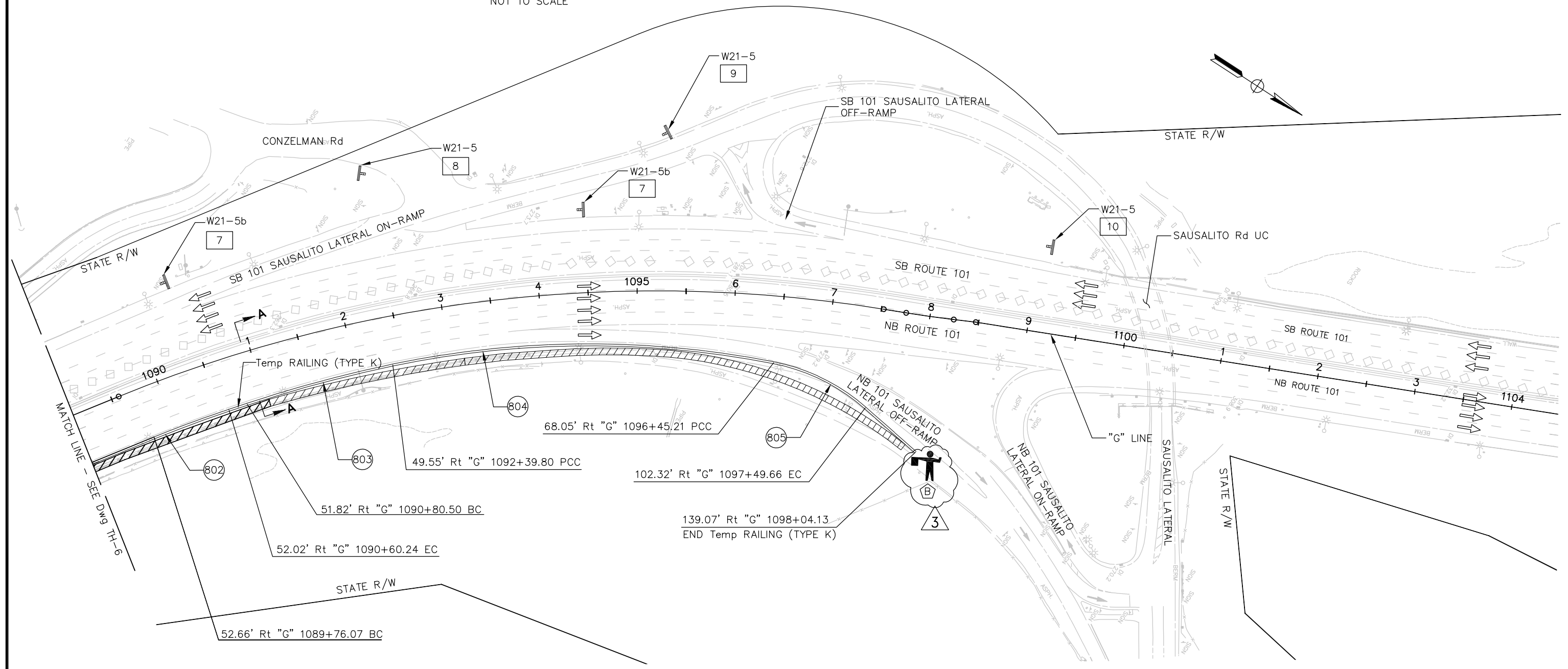
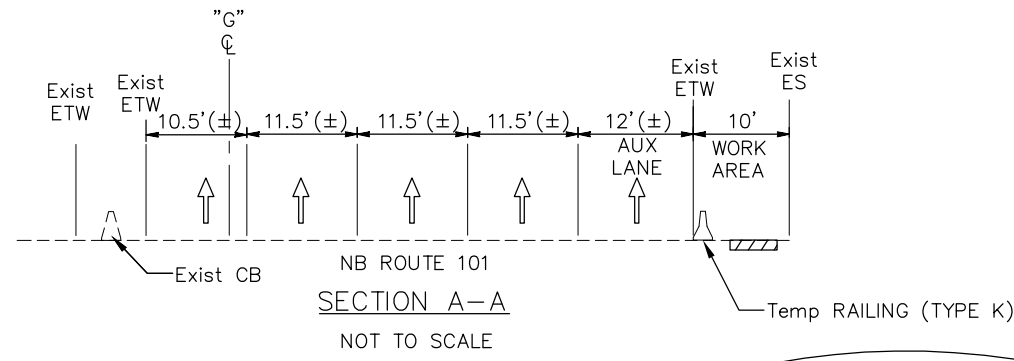
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

CURVE DATA – Temp RAILING (TYPE K)

No.	R	Δ	T	L
802	1199.00'	3°52'37"	40.58'	81.13'
803	1339.23'	6°34'41"	79.96'	153.75'
804	979.00'	21°51'55"	197.98'	390.69'
805	199.00'	30°19'08"	53.92'	105.30'

NOTE:

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
  - FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- B** GUIDE THE BICYCLISTS AND PEDESTRIANS TO CONZELMAN Rd DURING CONSTRUCTION ACTIVITY



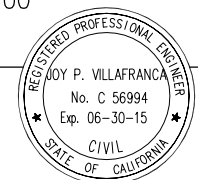
THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 50'

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	4/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TH-7	
CADD FILE C-TH07.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
REGISTERED PROFESSIONAL ENGINEER  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING – NORTH APPROACH  
STAGE 1N – 3N/3S  
SHEET 7 OF 13

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

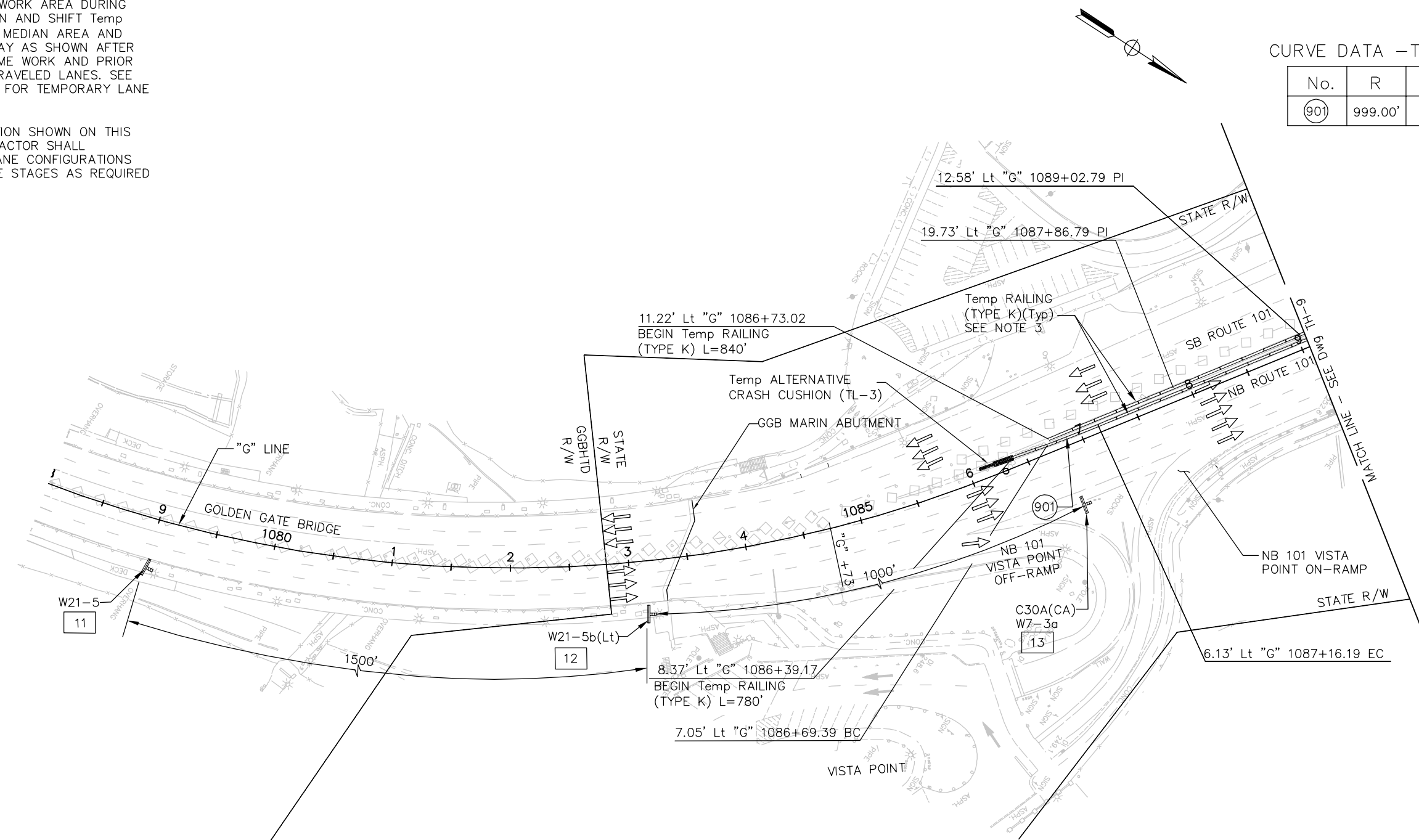


**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO SHIFT Temp RAILING (TYPE K) AS NEEDED TO PROVIDE WORK AREA DURING NIGHT TIME CONSTRUCTION AND SHIFT Temp RAILING (TYPE K) WITHIN MEDIAN AREA AND OUTSIDE OF TRAVELED WAY AS SHOWN AFTER COMPLETION OF NIGHT TIME WORK AND PRIOR TO OPENING OF INSIDE TRAVELED LANES. SEE TRAFFIC CONTROL PLANS FOR TEMPORARY LANE CLOSURES.
- 3N/3S LANE CONFIGURATION SHOWN ON THIS SHEET; HOWEVER, CONTRACTOR SHALL IMPLEMENT ALL THREE LANE CONFIGURATIONS ON BRIDGE DURING THESE STAGES AS REQUIRED DURING THIS STAGE.

**CURVE DATA -Temp RAILING (TYPE K)**

No.	R	Δ	T	L
901	999.00'	02°39'13"	23.14'	46.26'



**ISSUED FOR BID**

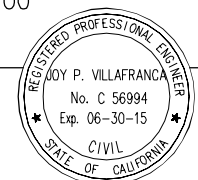
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**AECOM**  
 2101 WEBSTER STREET, SUITE 1900  
 OAKLAND, CA 94612

*Joy P. Villafranca*  
 REGISTERED ENGINEER  
 FEBRUARY 25, 2014  
 PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
 CADD FILE C-TH08.dwg

APPROVED BY  
  
 EWA Z. BAUER  
 No. C 43632  
 Exp. 03-31-15  
 CIVIL  
 DISTRICT ENGINEER  
 02-25-2014  
 DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**  
 TRAFFIC HANDLING - NORTH APPROACH  
 STAGE 2N TO 4N - 3N/3S  
 SHEET 8 OF 13

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

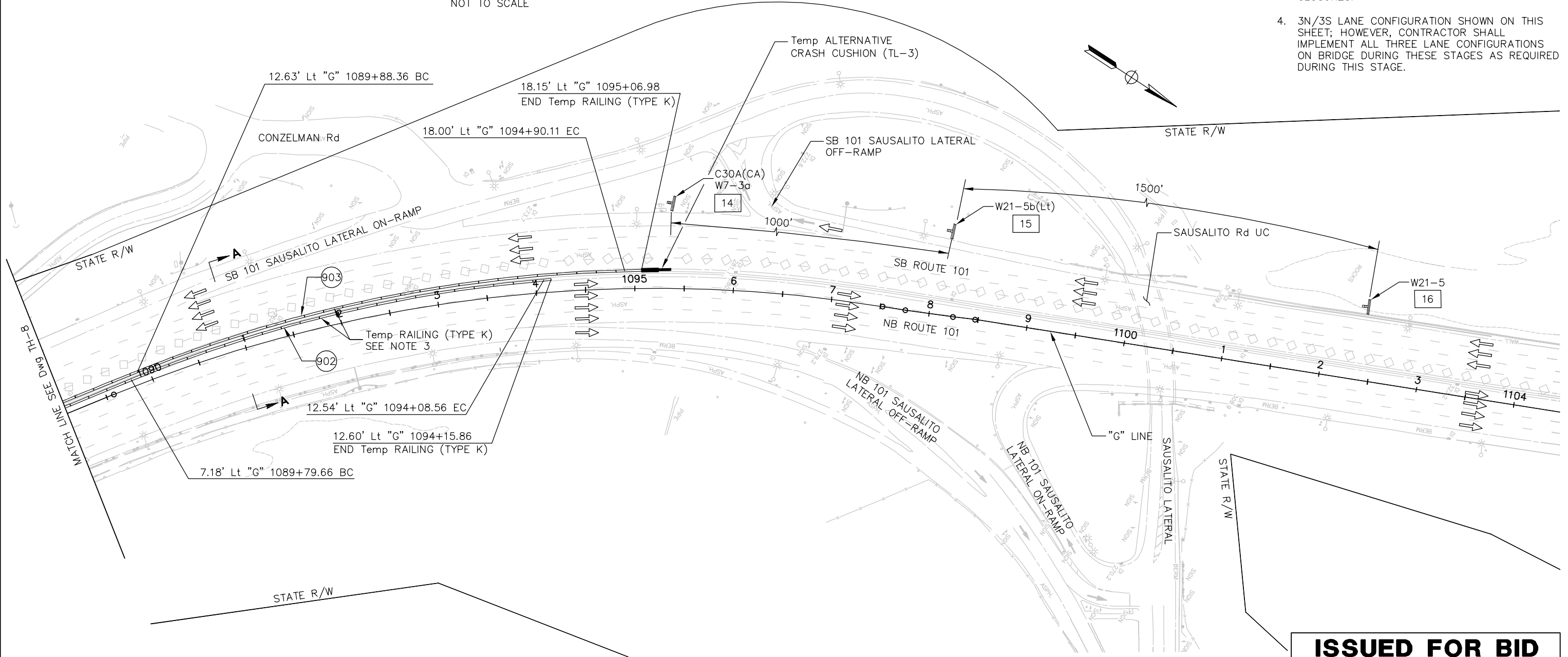
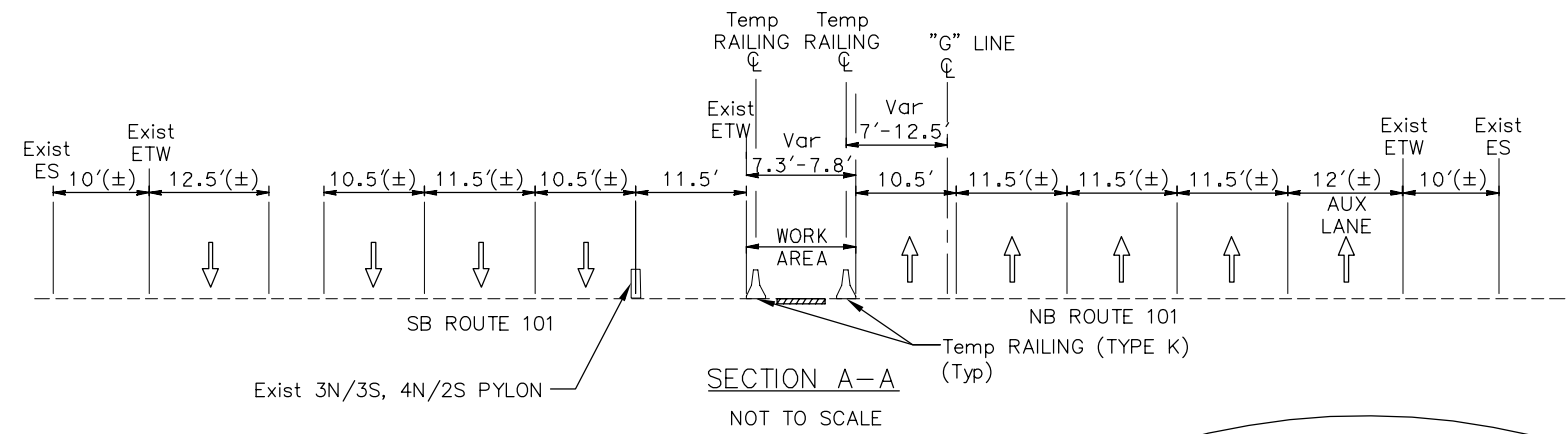


CURVE DATA – Temp RAILING (TYPE K)

No.	R	Δ	T	L
902	1400.00'	17°40'46"	217.72'	432.00'
903	1404.00'	20°42'08"	256.45'	507.30'

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO SHIFT Temp RAILING (TYPE K) AS NEEDED TO PROVIDE WORK AREA DURING NIGHT TIME CONSTRUCTION. SHIFT Temp RAILING (TYPE K) WITHIN MEDIAN AREA AND OUTSIDE OF TRAVELED WAY AS SHOWN AFTER COMPLETION OF NIGHT TIME WORK AND PRIOR TO OPENING OF INSIDE TRAVELED LANES. SEE TRAFFIC CONTROL PLANS FOR TEMPORARY LANE CLOSURES.
- 3N/3S LANE CONFIGURATION SHOWN ON THIS SHEET; HOWEVER, CONTRACTOR SHALL IMPLEMENT ALL THREE LANE CONFIGURATIONS ON BRIDGE DURING THESE STAGES AS REQUIRED DURING THIS STAGE.



**ISSUED FOR BID**

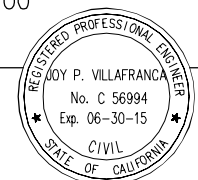
THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 50'

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**AECOM**  
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OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

APPROVED BY  
*Ewa Z. Bauer*  
REGISTERED PROFESSIONAL ENGINEER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING – NORTH APPROACH  
STAGE 2N TO 4N – 3N/3S  
SHEET 9 OF 13

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

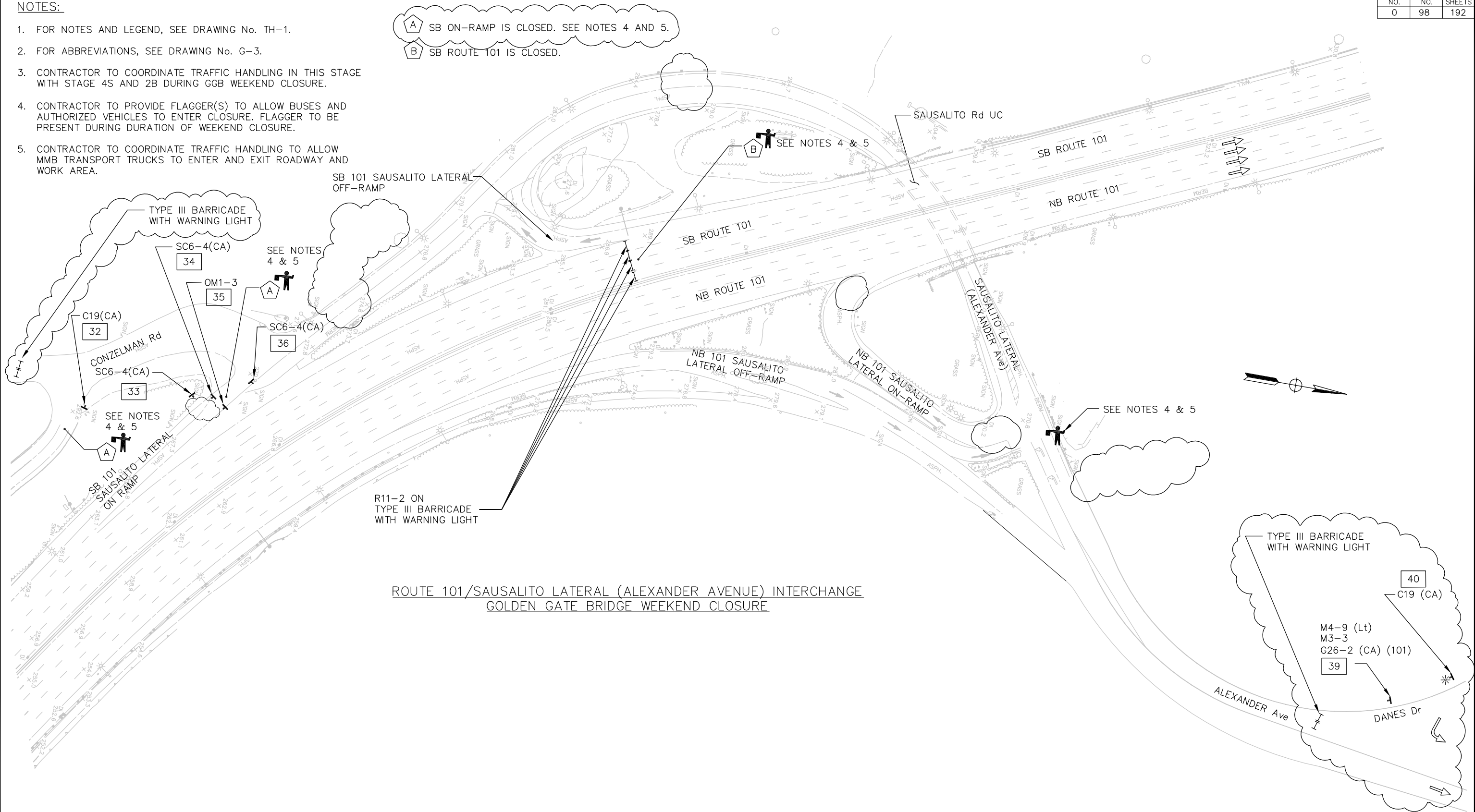
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- CONTRACTOR TO COORDINATE TRAFFIC HANDLING IN THIS STAGE WITH STAGE 4S AND 2B DURING GGB WEEKEND CLOSURE.
- CONTRACTOR TO PROVIDE FLAGGER(S) TO ALLOW BUSES AND AUTHORIZED VEHICLES TO ENTER CLOSURE. FLAGGER TO BE PRESENT DURING DURATION OF WEEKEND CLOSURE.
- CONTRACTOR TO COORDINATE TRAFFIC HANDLING TO ALLOW MMB TRANSPORT TRUCKS TO ENTER AND EXIT ROADWAY AND WORK AREA.

**A** SB ON-RAMP IS CLOSED. SEE NOTES 4 AND 5.  
**B** SB ROUTE 101 IS CLOSED.



**ROUTE 101/SAUSALITO LATERAL (ALEXANDER AVENUE) INTERCHANGE  
 GOLDEN GATE BRIDGE WEEKEND CLOSURE**

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

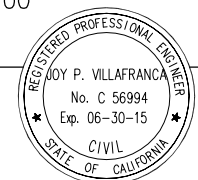
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DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

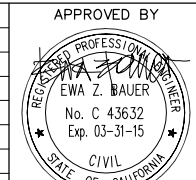
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
 2101 WEBSTER STREET, SUITE 1900  
 OAKLAND, CA 94612

*Joy P. Villafranca*  
 REGISTERED ENGINEER  
 FEBRUARY 25, 2014  
 PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	BY	JV	DATE	4/18/14
NO.	REVISIONS	BY	DATE		
CONTRACT NO. 2014-B-1		DRAWING NO. TH-10			
CADD FILE C-TH10.dwg		DATE			



DISTRICT ENGINEER  
 02-25-2014  
 DATE

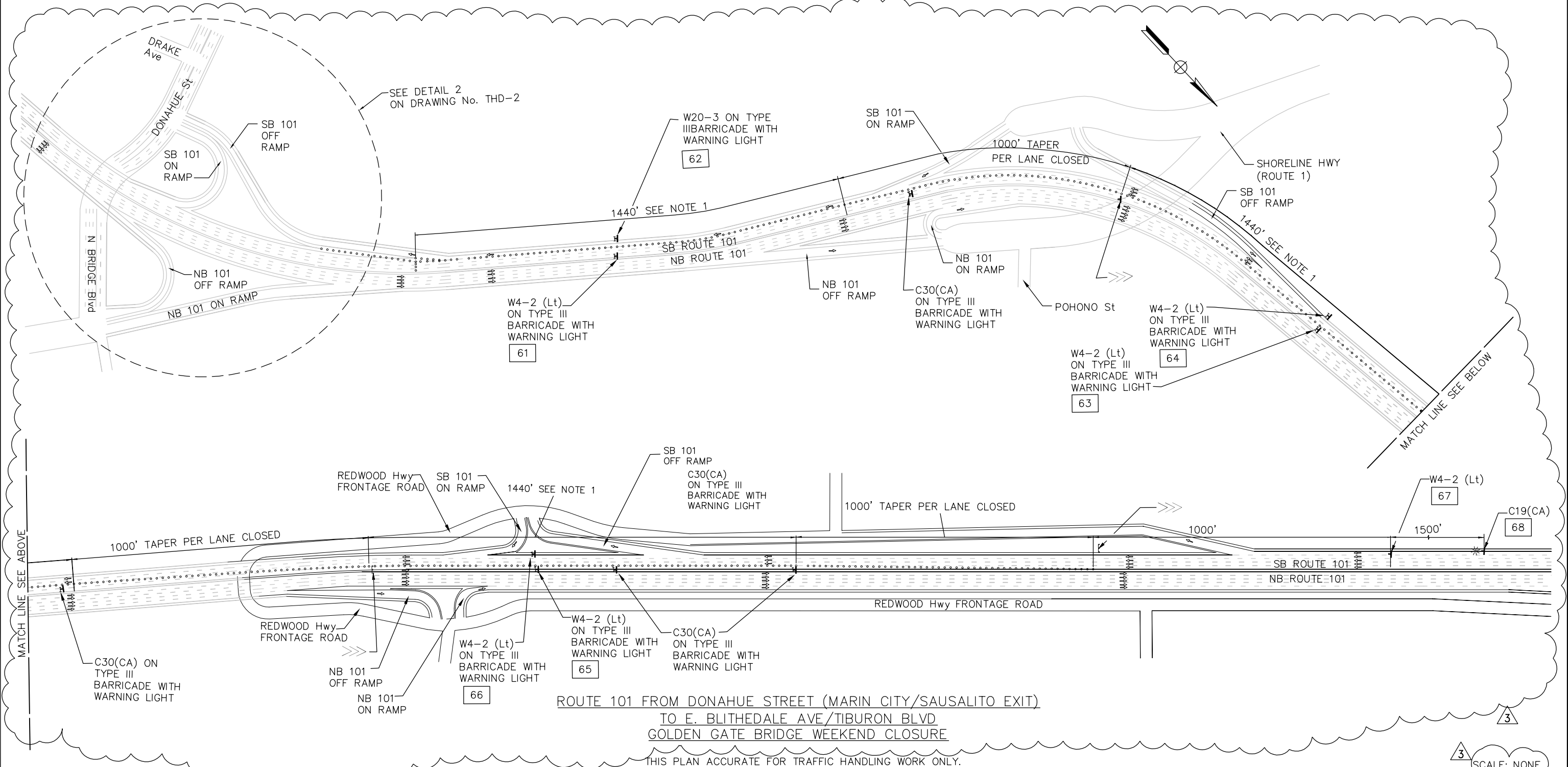
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE  
 MEDIAN BARRIER**

TRAFFIC HANDLING – NORTH APPROACH  
 STAGE 5N GGB WEEKEND CLOSURE  
 SHEET 10 OF 13

SCALE: 1" = 50'

NOTES:

- UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, THE 1440' SECTION OF THE LANE CLOSURE SHOWN ALONG LANE LINES SHALL BE USED BETWEEN THE 1000' TAPERS FOR EACH CLOSED TRAFFIC LANE.
- FOR LANE TAPER LENGTHS, SEE CALTRANS REVISED STANDARD PLAN 2010 RSP T10, UNLESS OTHERWISE SPECIFIED.
- FOR OTHER NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS SEE DRAWING No. G-3.
- CONTRACTOR TO COORDINATE TRAFFIC HANDLING DURING THIS STAGE WITH STAGES 4S AND 2B DURING GGB WEEKEND CLOSURE.
- SEE STANDARD PLAN T10A FOR ADDITIONAL LANE CLOSURE DETAILS.



ROUTE 101 FROM DONAHUE STREET (MARIN CITY/SAUSALITO EXIT)  
TO E. BLITHEDALE AVE/TIBURON BLVD  
GOLDEN GATE BRIDGE WEEKEND CLOSURE

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

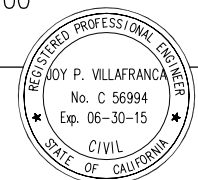
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DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JPV	4/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TH-11	
CADD FILE C-TH11.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

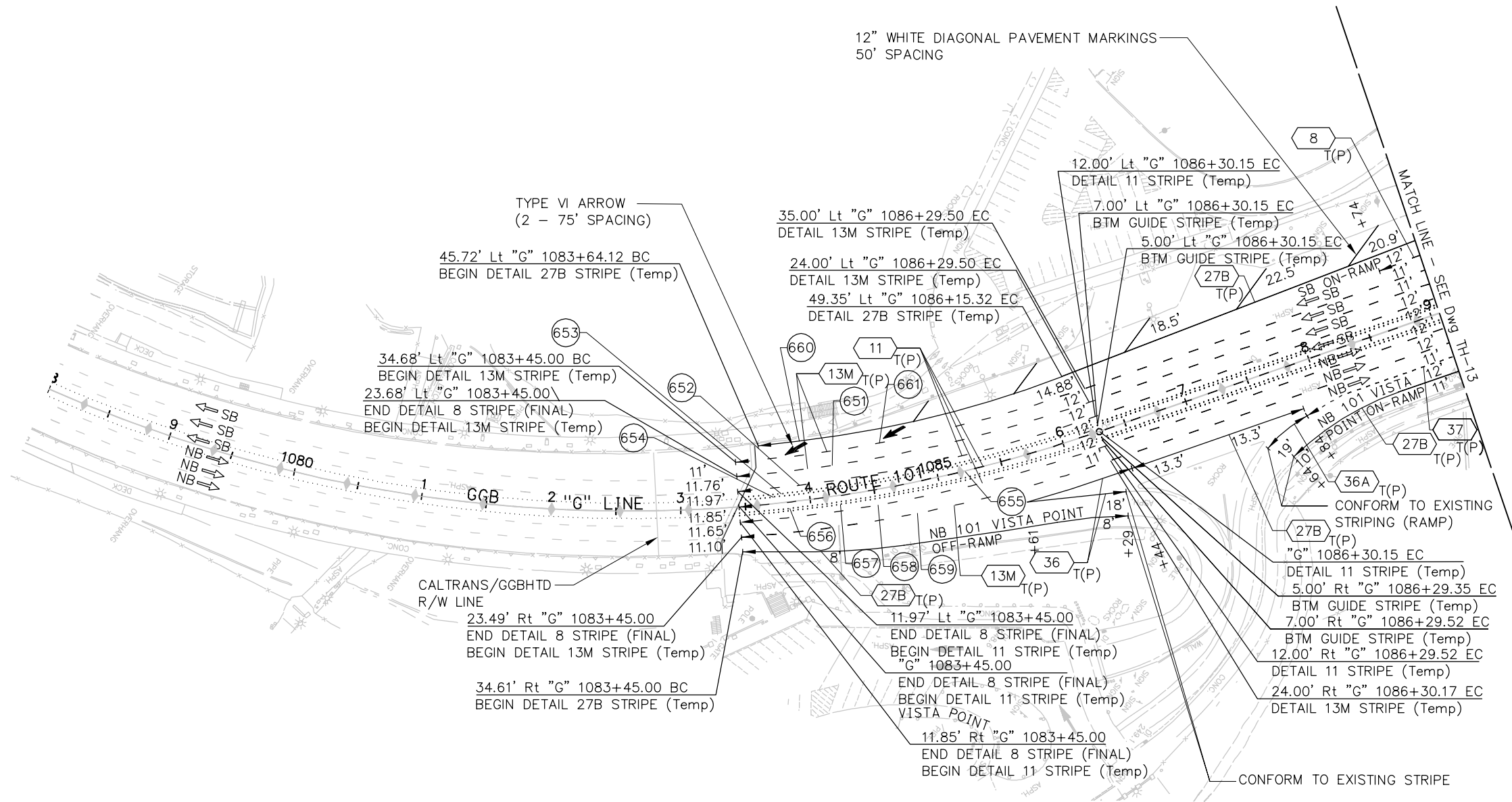
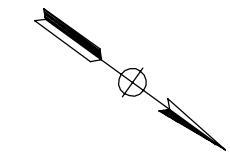
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING – NORTH APPROACH  
STAGE 5N GGB WEEKEND CLOSURE  
SHEET 11 OF 13

3 SCALE: NONE

NOTES:

- FOR ADDITIONAL NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- FOR BTM GUIDE STRIPE AND DETAIL 13M DETAILS, SEE DRAWING No. PD-1



CURVE DATA -Temp TRAFFIC STRIPE

No.	R	Δ	T	L
651	1092.00'	13°57'32"	133.68'	266.04'
652	1100.00'	14°23'48"	138.93'	276.40'
653	1105.00'	14°32'42"	141.01'	280.51'
654	1100.00'	14°39'18"	141.45'	281.36'
655	1105.00'	14°48'06"	143.53'	285.47'
656	1110.00'	14°56'49"	145.61'	289.57'
657	1107.00'	15°04'26"	146.46'	291.24'
658	1112.00'	15°13'02"	148.54'	295.34'
659	1020.00'	15°37'59"	153.75'	305.59'
660	1070.00'	05°04'27"	47.41'	94.76'
661	1081.00'	13°47'05"	130.67'	260.08'

**ISSUED FOR BID**

SCALE: 1" = 50'

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

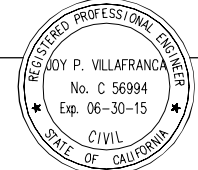
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DESIGN	BY D. AYELE	CHECKED T. ABERE	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-TH12.dwg

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING - NORTH APPROACH  
STAGES 6N & 7N  
SHEET 12 OF 13

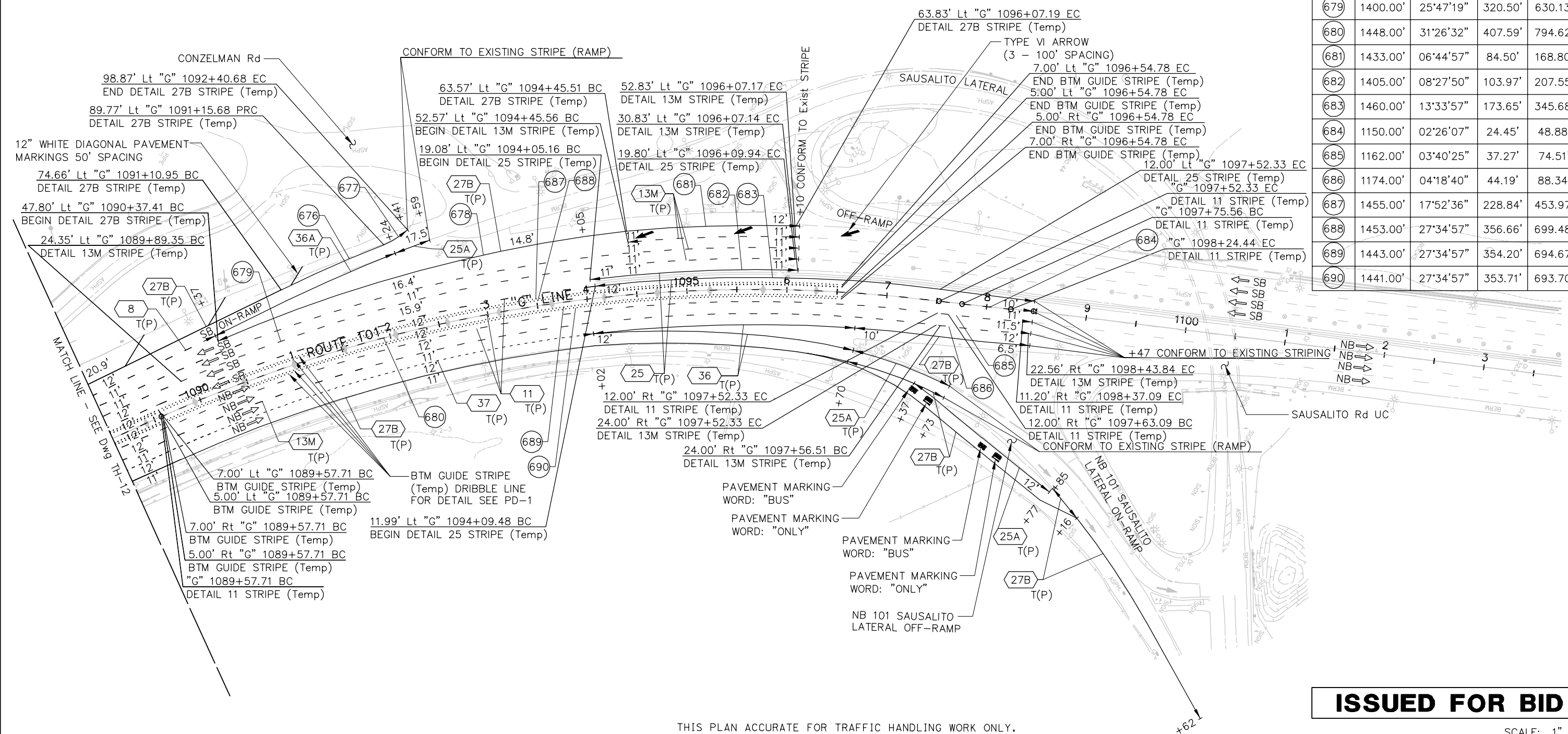


NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

CURVE DATA - Temp TRAFFIC STRIPING

No.	R	Δ	T	L
676	1412.00'	04°31'59"	55.89'	111.71'
677	75.00'	21°38'42"	14.34'	28.33'
678	1427.94'	17°01'09"	213.65'	424.16'
679	1400.00'	25°47'19"	320.50'	630.13'
680	1448.00'	31°26'32"	407.59'	794.62'
681	1433.00'	06°44'57"	84.50'	168.80'
682	1405.00'	08°27'50"	103.97'	207.55'
683	1460.00'	13°33'57"	173.65'	345.68'
684	1150.00'	02°26'07"	24.45'	48.88'
685	1162.00'	03°40'25"	37.27'	74.51'
686	1174.00'	04°18'40"	44.19'	88.34'
687	1455.00'	17°52'36"	228.84'	453.97'
688	1453.00'	27°34'57"	356.66'	699.48'
689	1443.00'	27°34'57"	354.20'	694.67'
690	1441.00'	27°34'57"	353.71'	693.70'



**ISSUED FOR BID**

SCALE: 1" = 50'

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

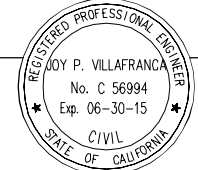
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DESIGN	BY D. AYELE	CHECKED T. ABERE	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-TH13.dwg

DRAWING NO. TH-13  
DATE

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER  
02-25-2014  
DATE

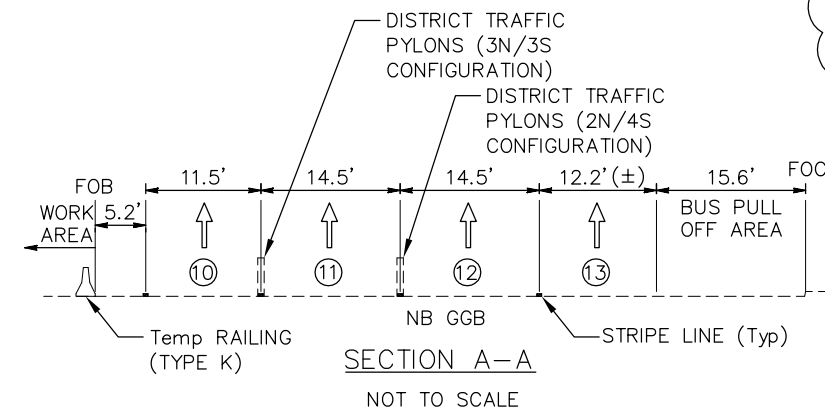
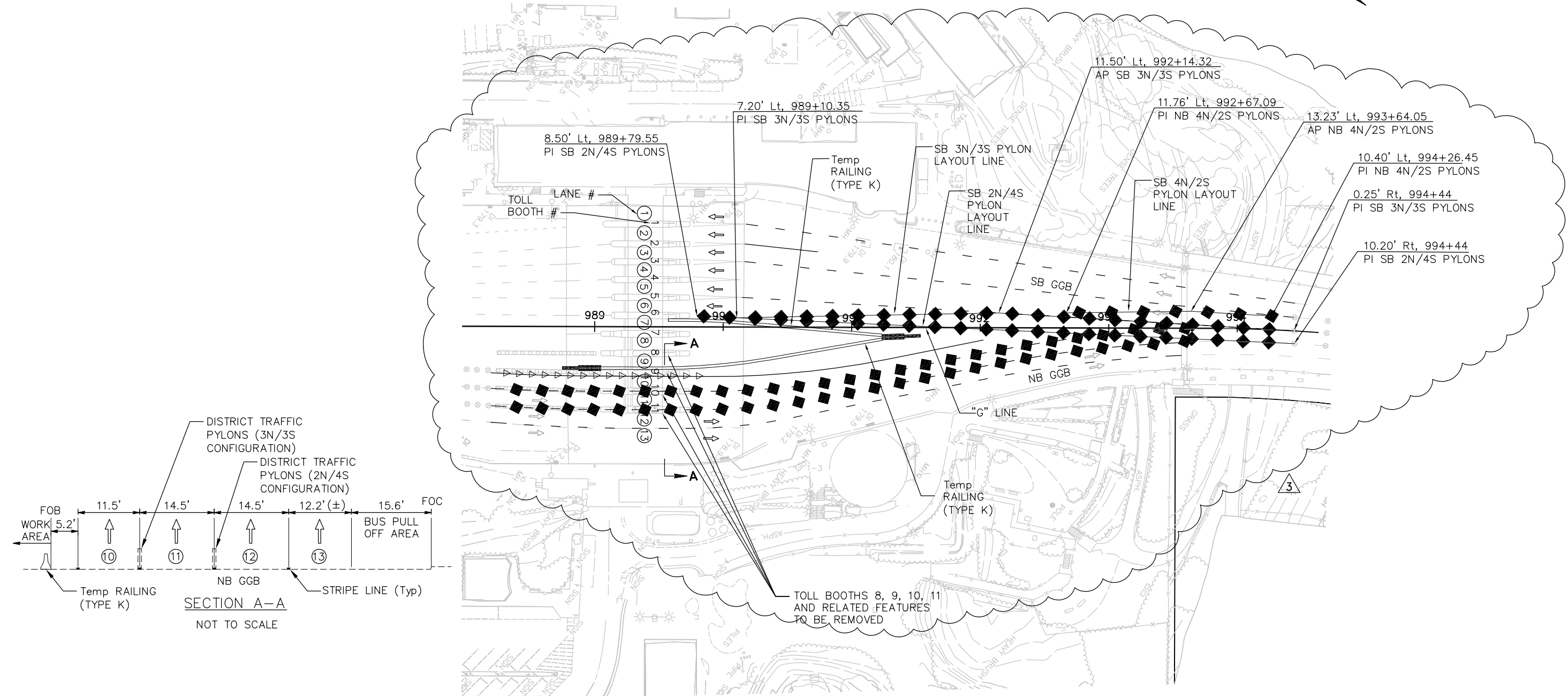
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING - NORTH APPROACH  
STAGES 6N & 7N  
SHEET 13 OF 13

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



DETAIL 1- TOLL PLAZA  
1" = 40'  
3

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1"=20'

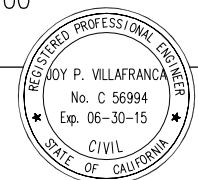
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	PL	04/18/14
NO.	REVISIONS	BY	DATE
CONTRACT NO. 2014-B-1		DRAWING NO. THD-1	
CADD FILE C-THD1.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

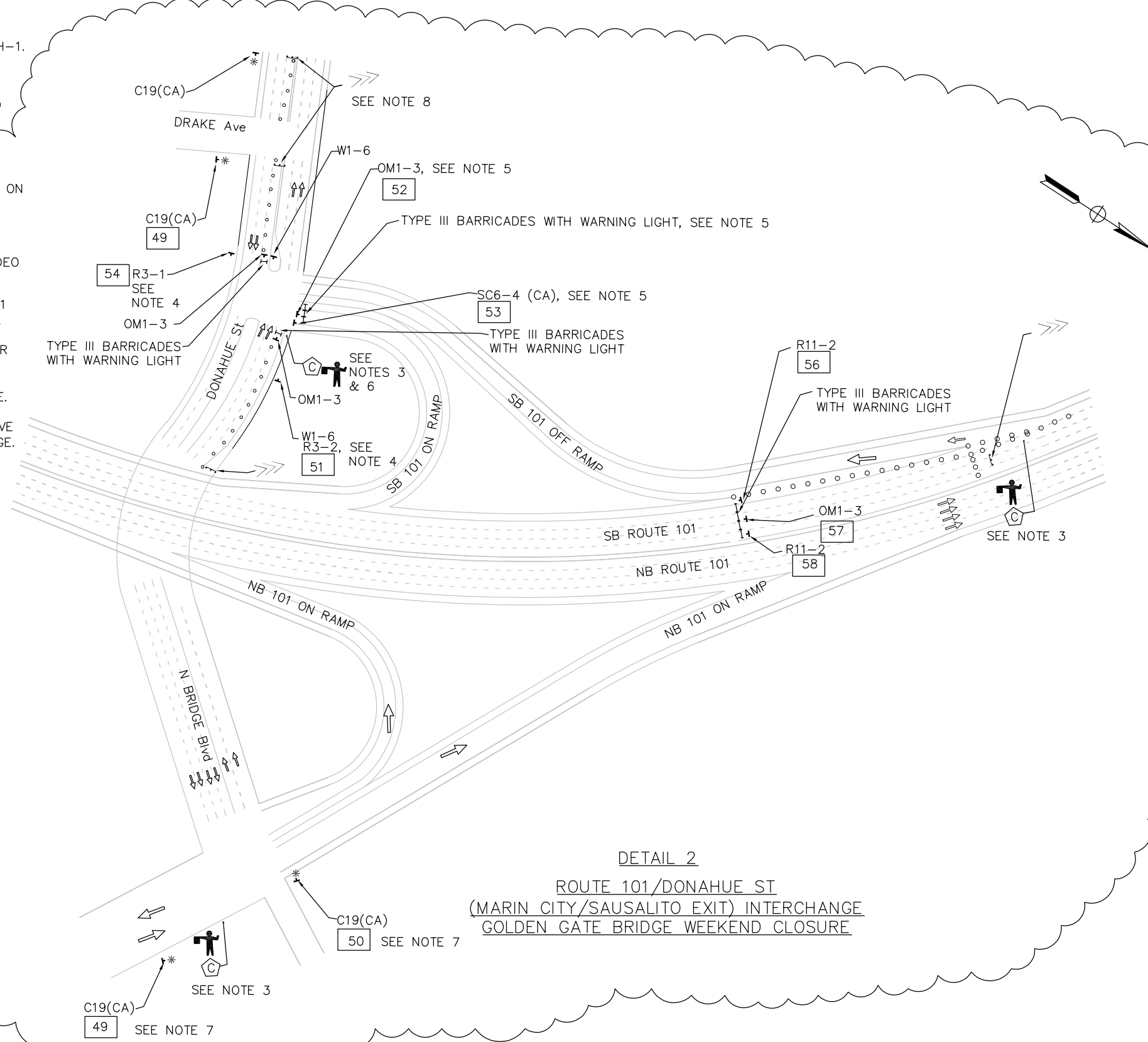
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING DETAILS  
TOLL PLAZA  
STAGE 1S TO 4S (SHT 1 OF 2) 3

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TH-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- SB ROUTE 101 IS CLOSED. GUIDE TRAFFIC TO EXIT AT SB SPENCER Ave OFF-RAMP.
- SEE NOTE 4 ON Dwg No TH-2.
- PROVIDE SIMILAR AT MONTE MAR DR/ NB 101 ON RAMP INTERSECTION AT 101/SPENCER AVENUE INTERCHANGE.
- PROVIDE SIMILAR AT NB 101 ON RAMP AT 101/SPENCER AVE INTERCHANGE AND 101/RODEO AVE INTERCHANGE.
- PROVIDE SIMILAR AT MONTE MAR DR/ SPENCER AVE INTERSECTION - 101/SPENCER AVE INTERCHANGE AND AT NEVADA ST/RODEO AVE INTERSECTION- 101/ RODEO AVE INTERCHANGE.
- PROVIDE SIMILAR AT AT NEVADA ST/RODEO AVE INTERSECTION - 101/ RODEO AVE INTERCHANGE.



**DETAIL 2**  
**ROUTE 101/DONAHUE ST**  
**(MARIN CITY/SAUSALITO EXIT) INTERCHANGE**  
**GOLDEN GATE BRIDGE WEEKEND CLOSURE**

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

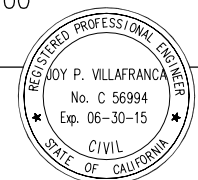
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DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

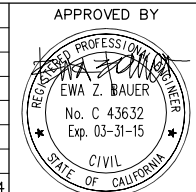
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
 2101 WEBSTER STREET, SUITE 1900  
 OAKLAND, CA 94612

*Joy P. Villafranca*  
 REGISTERED ENGINEER  
 FEBRUARY 25, 2014  
 PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JV	4/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. THD-2	
CADD FILE C-THD2.dwg		DATE 02-25-2014	



DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
 MEDIAN BARRIER**

TRAFFIC HANDLING DETAILS  
 NORTH APPROACH  
 STAGE 5N GGB WEEKEND CLOSURE (2 OF 2)

3  
 SCALE: 1" = 80'

TRAFFIC CONTROL SIGNS

STAGE	DRAWING No.	SIGN CODE [N]	SIGN SIZE (H x V) (IN x IN)		EA	SIGN MESSAGE
			HORIZ	VERT		
			IN	IN		
STAGE 4S	TH-2	C19(CA)	48	48	1	ROAD CLOSED AHEAD
STAGE 4S	TH-2	C30(CA)	48	48	1	LANE ENDS
STAGE 4S	TH-2	OM1-3	18	18	1	TYPE 1 OBJECT MARKER
STAGE 4S	TH-2	R3-5(Rt)	30	36	1	RIGHT TURN ONLY
STAGE 4S	TH-2	R11-2	48	30	1	ROAD CLOSED
STAGE 4S	TH-2	W4-2(Lt)	48	48	3	LEFT MERGE
STAGE 4S	TH-2	W20-2	48	48	1	DETOUR AHEAD
STAGE 4S	TH-3	C19(CA)(Mod)	48	48	2	RAMP CLOSED AHEAD
STAGE 4S	TH-3	C-20(CA)(Lt)	48	48	2	LEFT LANE CLOSED AHEAD
STAGE 4S	TH-3	C-20(CA)(Rt)	48	48	2	RIGHT LANE CLOSED AHEAD
STAGE 4S	TH-3	C30 (CA)	48	48	1	LANE CLOSED
STAGE 4S	TH-3	OM1-3	18	18	1	TYPE 1 OBJECT MARKER
STAGE 4S	TH-3	R1-1	30	30	1	STOP
STAGE 4S	TH-3	R3-1	36	36	1	NO RIGHT TURN
STAGE 4S	TH-3	R3-5(Lt)	30	36	1	LEFT TURN ONLY
STAGE 4S	TH-3	R3-5(Rt)	30	36	1	RIGHT TURN ONLY
STAGE 4S	TH-3	R11-2	48	30	1	ROAD CLOSED
STAGE 4S	TH-3	SC11(CA)	54	42	2	LANE CLOSED
STAGE 4S	TH-3	W4-2(Lt)	48	48	2	LEFT MERGE
STAGE 4S	TH-4	C20(CA)(Lt)	48	48	1	LEFT LANE CLOSED AHEAD
STAGE 4S	TH-4	C30(CA)	48	48	2	LANE CLOSED
STAGE 4S	TH-4	R3-2	36	36	1	NO LEFT TURN
STAGE 4S	TH-5	C19(CA)	48	48	6	ROAD CLOSED AHEAD
STAGE 4S	TH-5	C30(CA)	48	48	1	LANE CLOSED
STAGE 4S	TH-5	OM1-3	18	18	2	TYPE 1 OBJECT MARKER
STAGE 4S	TH-5	R3-2	36	36	1	NO LEFT TURN
STAGE 4S	TH-5	SC6-4(CA)	48	60	2	RAMP CLOSED (MORE THAN ONE DAY)
STAGE 1N	TH-6	C30A(CA)	48	30	4	SHOULDER CLOSED
STAGE 1N	TH-6	W7-3a	36	30	2	NEXT XX MILES
STAGE 1N	TH-6	W21-5	48	48	1	SHOULDER WORK
STAGE 1N	TH-6	W21-5b(Rt)	48	48	1	RIGHT SHOULDER CLOSED 1000 FEET
STAGE 1N	TH-7	W21-5	48	48	3	SHOULDER WORK
STAGE 1N	TH-7	W21-5b(Rt)	48	48	2	RIGHT SHOULDER CLOSED 1000 FEET
STAGES 2S TO 4N	TH-8	C30A(CA)	48	48	1	SHOULDER CLOSED
SUBTOTAL					56	

[N] - NOT A SEPARATE PAY ITEM. PAID UNDER "TRAFFIC CONTROL SYSTEM".

TRAFFIC CONTROL SIGNS

STAGE	DRAWING No.	SIGN CODE [N]	SIGN SIZE (H x V) (IN x IN)		EA	SIGN MESSAGE
			HORIZ	VERT		
			IN	IN		
STAGES 2N TO 4N	TH-8	W7-3a	36	30	1	NEXT XX MILES
STAGES 2N TO 4N	TH-8	W21-5	48	48	1	SHOULDER WORK
STAGES 2N TO 4N	TH-8	W21-5b(Lt)	48	48	1	RIGHT SHOULDER CLOSED 1000 FEET
STAGES 2N TO 4N	TH-9	C30A(CA)	48	48	1	SHOULDER CLOSED
STAGES 2N TO 4N	TH-9	W7-3a	36	30	1	NEXT XX MILES
STAGES 2N TO 4N	TH-9	W21-5	48	48	1	SHOULDER WORK
STAGES 2N TO 4N	TH-9	W21-5b(Lt)	48	48	1	RIGHT SHOULDER CLOSED 1000 FEET
STAGE 5N	TH-10	C19(CA)	48	48	3	ROAD CLOSED AHEAD
STAGE 5N	TH-10	G26-2(CA)(101)	35	30	1	U.S. ROUTE MARKER
STAGE 5N	TH-10	M3-3	36	18	1	SOUTH
STAGE 5N	TH-10	M4-9(Lt)	48	36	2	DETOUR
STAGE 5N	TH-10	OM1-3	18	18	1	TYPE 1 OBJECT MARKER
STAGE 5N	TH-10	R11-2	48	30	4	ROAD CLOSED
STAGE 5N	TH-10	SC6-4(CA)	48	60	3	RAMP CLOSED (MORE THAN ONE DAY)
STAGE 5N	TH-11	C19(CA)	48	48	1	ROAD CLOSED AHEAD
STAGE 5N	TH-11	C30(CA)	48	48	4	LANE CLOSED
STAGE 5N	TH-11	W4-2(Lt)	48	48	6	LEFT MERGE
STAGE 5N	TH-11	W20-3	48	48	1	ROAD CLOSED AHEAD
STAGE 5N	THD-2	C19 (CA)	48	48	8	ROAD CLOSED AHEAD
STAGE 5N	THD-2	OM1-3	18	18	6	TYPE 1 OBJECT MARKER
STAGE 5N	THD-2	R3-1	36	36	2	NO LEFT TURN
STAGE 5N	THD-2	R3-2	36	36	2	NO RIGHT TURN
STAGE 5N	THD-2	R11-2	48	30	2	ROAD CLOSED
STAGE 5N	THD-2	W1-6	36	36	4	RAMP CLOSED (MORE THAN ONE DAY)
SUBTOTAL					58	
TOTAL					114	

[N] - NOT A SEPARATE PAY ITEM. PAID UNDER "TRAFFIC CONTROL SYSTEM".

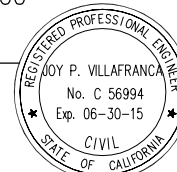
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	BY	JV	DATE	4/18/14
NO.	REVISIONS	BY	DATE		
CONTRACT NO. 2014-B-1		DRAWING NO. THQ-1			
CADD FILE C-THQ01.dwg		DATE			

APPROVED BY  
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EWA Z. BAUER  
No. C 43632  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC HANDLING QUANTITIES  
SHEET 1 OF 3

SCALE: NO SCALE





## Attachment B3: Traffic Control Plans— Short-Term Project














CONSTRUCTION TRAFFIC NOTES:

- NOT LESS THAN ONE PERSON SHALL BE ASSIGNED AND DEDICATED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON ALL NIGHT LANE CLOSURES OR DAYTIME CLOSURES EXCEEDING 1 MILE IN LENGTH INCLUDING THE TAPER.
- ALL ADVANCE WARNING SIGNS FOR CLOSURES SHALL BE 48"x48" MINIMUM OR LARGER UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS OR SHOWN ON THE PLANS.
- ALL ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. FLASHING BEACONS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS DURING NIGHT LANE CLOSURES OR DURING HOURS OF DARKNESS.
- A G20-2 "END ROAD WORK" SIGN AS APPROPRIATE SHALL BE PLACED AT THE END OF PROJECT.
- PLACE A C30(CA) "LANE CLOSED" SIGN ON A FLAG TREE EVERY 2000' THROUGHOUT THE LENGTH OF THE LANE CLOSURE.
- ONE FLASHING ARROW SIGN SHALL BE PLACED FOR EACH LANE CLOSED. THE FIRST FLASHING ARROW SIGN SHALL BE TYPE I. ALL OTHERS MAY BE EITHER TYPE I OR TYPE II UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS.
- ALL CONES SHALL BE 28" MIN HEIGHT. DURING HOURS OF DARKNESS, THEY SHALL BE FITTED WITH RETROREFLECTIVE SLEEVES AS SPECIFIED IN STANDARD SPECIFICATIONS. WHERE INDICATED THEY SHALL BE INTERNALLY ILLUMINATED. MAXIMUM SPACING SHALL BE 50', UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, A MINIMUM OF 3 CONES SHALL BE PLACED TRANSVERSELY ACROSS EACH CLOSED LANE AND SHOULDER AT EACH LOCATION WHERE A TAPER ACROSS A TRAFFIC LANE ENDS AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF THE 3 CONES. THE TRANSVERSE ALIGNMENT OF THE CONES OR BARRICADES ON THE CLOSED SHOULDER MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO THE WORK.
- FOR TRAFFIC LANE AVAILABILITY AND HOURS OF OPERATION, SEE THE SPECIAL PROVISIONS. FOR ALLOWED LANE CLOSURE CONFIGURATIONS AT WORK AREAS. SEE DRAWING TC-2 TO <sup>3</sup>TC-19.
- TRAFFIC LANE CLOSURES SHALL CONFORM TO THESE PLANS AND CALTRANS STANDARD PLAN T-10, EXCEPT THAT, CALTRANS STANDARD PLAN T-11 SHALL BE USED WHERE DISTANCE CONSTRAINTS PREVENT THE USE OF CALTRANS STANDARD PLAN T-10.
- ALL SIGNS SHALL BE EITHER ILLUMINATED OR REFLECTORIZED.
- A MINIMUM 1500' OF SIGHT DISTANCE SHALL BE PROVIDED, WHERE POSSIBLE, FOR VEHICLES APPROACHING THE FIRST FLASHING ARROW SIGN. LANE CLOSURES SHALL NOT BEGIN AT THE TOPS OF VERTICAL CRESTS OR ON A HORIZONTAL CURVE.
- IF PORTABLE DELINEATORS AS DESCRIBED IN SECTION 12-3.04 OF THE STANDARD SPECIFICATIONS ARE USED IN LIEU OF CONES, THE SPACING SHOWN ON THE PLANS SHALL BE REDUCED BY ONE-HALF.
- GGBHTD TRAFFIC CONTROL PYLON TUBES AT 50' MAX SPACING TO REMAIN EXCEPT WHERE IN CONFLICT WITH LANE CHANGES. PYLON TUBES THAT REMAIN AND ARE USED FOR DELINEATION SHALL ONLY BE ALLOWED ON LEFT SIDE OF AN OPEN LANE. PYLON TUBES SHALL NOT BE USED FOR DELINEATION ON RIGHT SIDE OF VEHICLES.

- PEDESTRIAN AND BICYCLE ACCESS ALONG THE BRIDGE SIDEWALKS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE SPECIFIED. CONSTRUCTION WARNING SIGNS SHALL BE INSTALLED TO ALERT PEDESTRIANS AND BICYCLISTS OF THE CONSTRUCTION WORK AREA.
- MEDIAN LANE CLOSURES SHALL CONFORM TO THE DETAILS FOR OUTSIDE LANE CLOSURES EXCEPT THAT A "LEFT" OVERLAY SHALL BE PLACED OVER THE "RIGHT" ON THE SIGNS AS APPROPRIATE.
- DUPLICATE ADVANCE WARNING SIGNS INSTALLATIONS ON OPPOSITE SHOULDERS ARE NOT REQUIRED FOR DAYTIME OPERATIONS IF AT LEAST ONE HALF OF THE AVAILABLE LANES REMAIN OPEN TO TRAFFIC.
- UNLESS OTHERWISE SPECIFIED IN THE SPECIAL PROVISIONS, THE 500' SECTION OF THE LANE CLOSURE SHOWN ALONG LANELINES SHALL BE USED BETWEEN THE 1000' CLOSURE TAPERS WHEN TWO OR MORE ADJACENT TRAFFIC LANES ARE TO BE CLOSED.
- THE LANE CLOSURE HOURS SHALL CONFORM TO THE LANE CLOSURE CHART OF THE SPECIAL PROVISIONS.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

21. ALL CONSTRUCTION AREA SIGNS SHALL BE COVERED WHEN NOT IN USE OR WHEN NOT NEEDED.

LEGEND

-  WORK AREA
-  TRAFFIC CONE OR PORTABLE DELINEATOR
-  SIGN OR PCMS
-  DISTRICT TRAFFIC PYLON
-  FAS
-  FLASHING ARROW SIGN (FAS) SUPPORT
-  FLAG TREE
-  DIRECTION OF TRAVEL DURING CONSTRUCTION ACTIVITY
-  CONCRETE BARRIER (TYPE K)
-  Exist DOYLE DRIVE MMB
-  MMB
-  TMCC W/FLASHING "CAUTION" SIGN
-  PORTABLE FLASHING BEACON (PFB)

NO SCALE

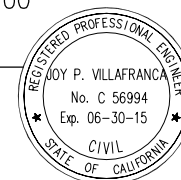
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DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	BY	JV	DATE	04/18/14
	REVISIONS				
CONTRACT NO. 2014-B-1		DRAWING NO.		02-25-2014	
CADD FILE C-TC01.dwg		DATE		TC-1	

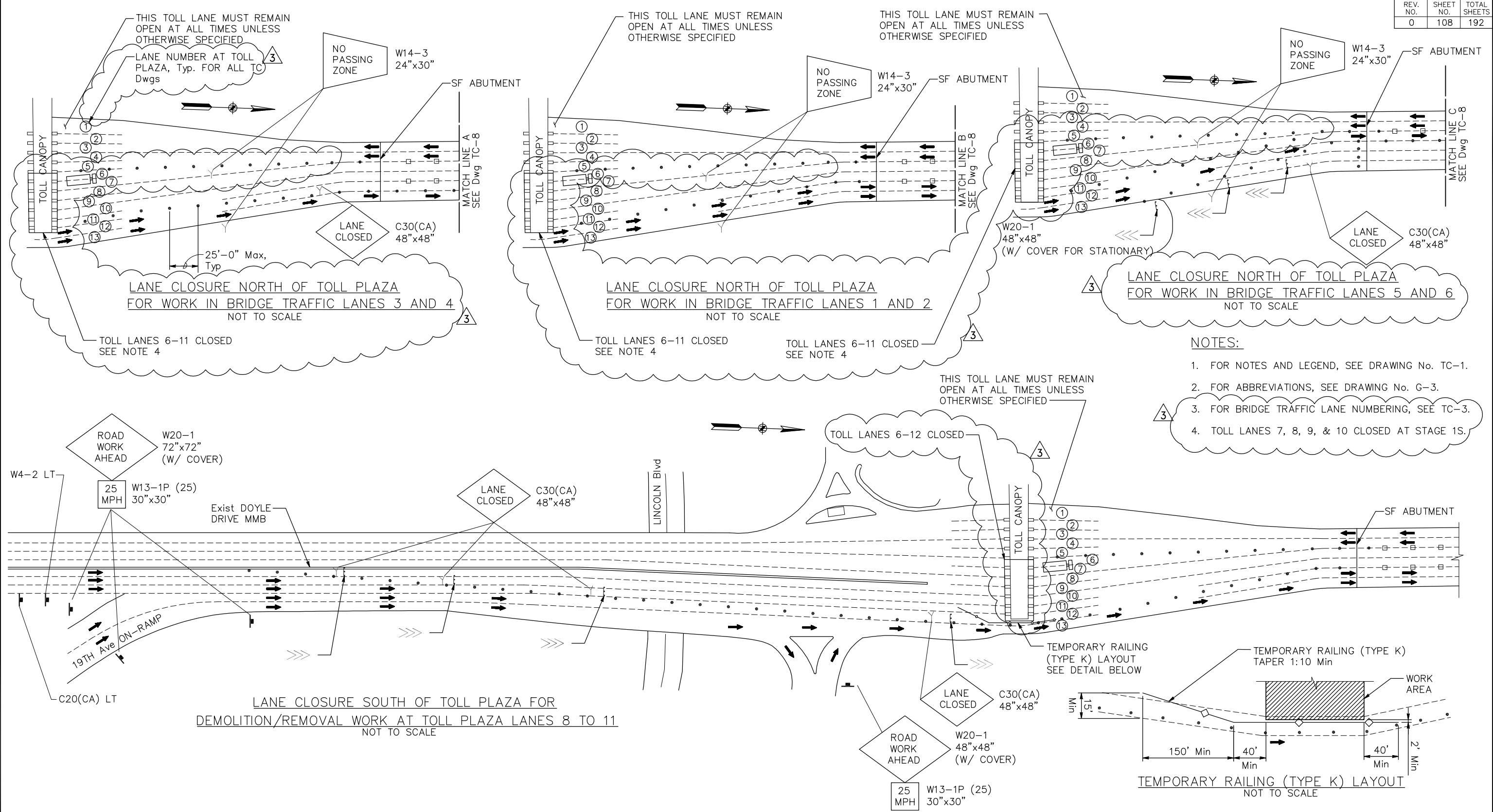
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GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL CONSTRUCTION NOTES  
SHEET 1 OF 19





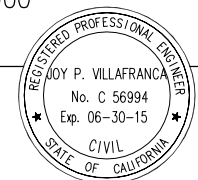
- NOTES:**
- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
  - FOR ABBREVIATIONS, SEE DRAWING No. G-3.
  - FOR BRIDGE TRAFFIC LANE NUMBERING, SEE TC-3.
  - TOLL LANES 7, 8, 9, & 10 CLOSED AT STAGE 1S.

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

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NO.	REVISIONS	PL	DATE
3	ADDENDUM No. 3	PL	4/18/14
NO.	REVISIONS	BY	DATE
CONTRACT NO. 2014-B-1		DRAWING NO. TC-2	
CADD FILE C-TC02.dwg		DATE	

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GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

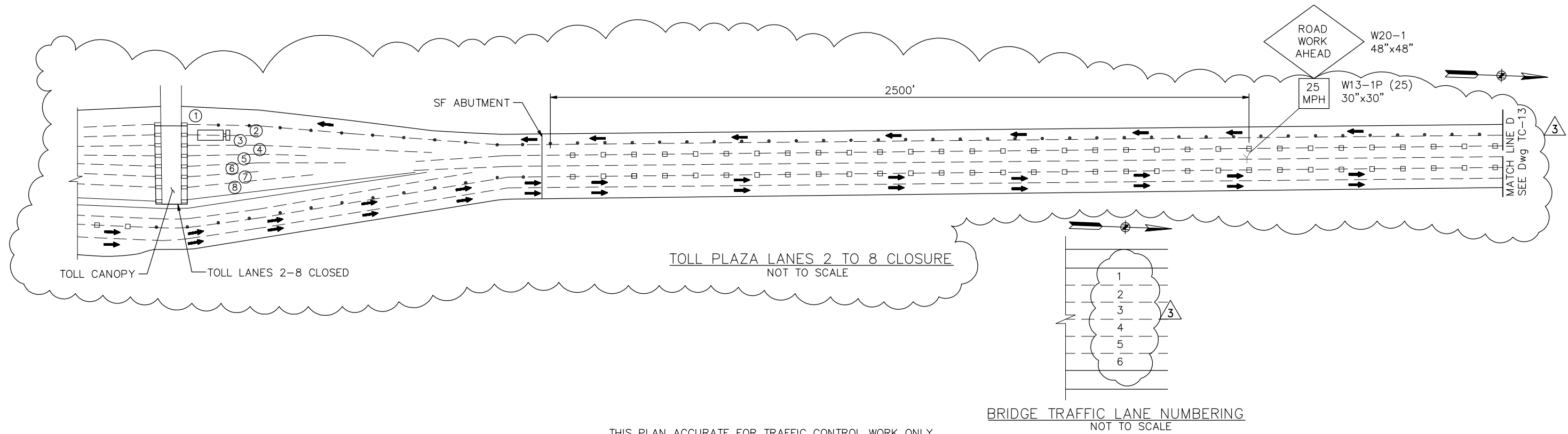
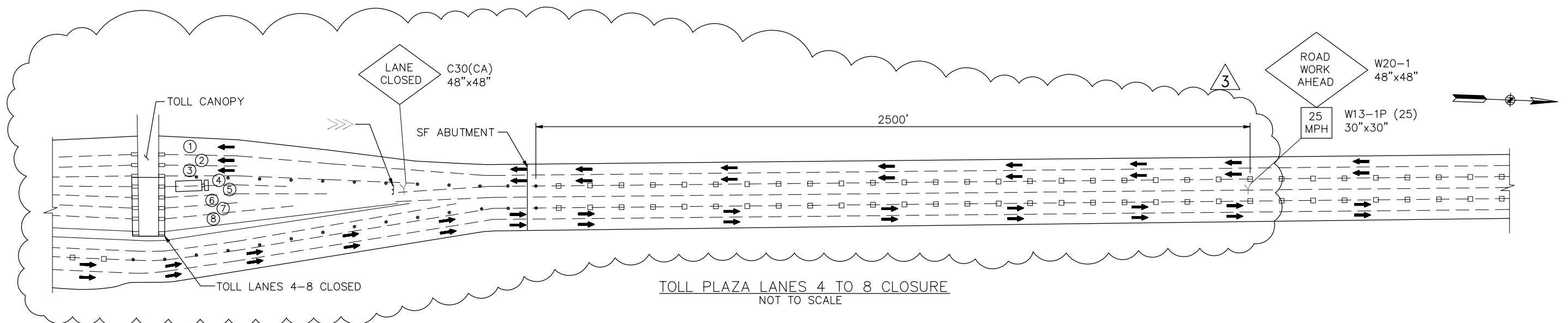
TRAFFIC CONTROL – SOUTH APPROACH  
LANE CLOSURE PLAN  
SHEET 2 OF 19

DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	



NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



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NO.	ADDENDUM No. 3	PL	4/18/14
REVISIONS		BY	DATE
CONTRACT NO.	2014-B-1	DRAWING NO.	TC-3
CADD FILE	C-TC03.dwg	DATE	

APPROVED BY  
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DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

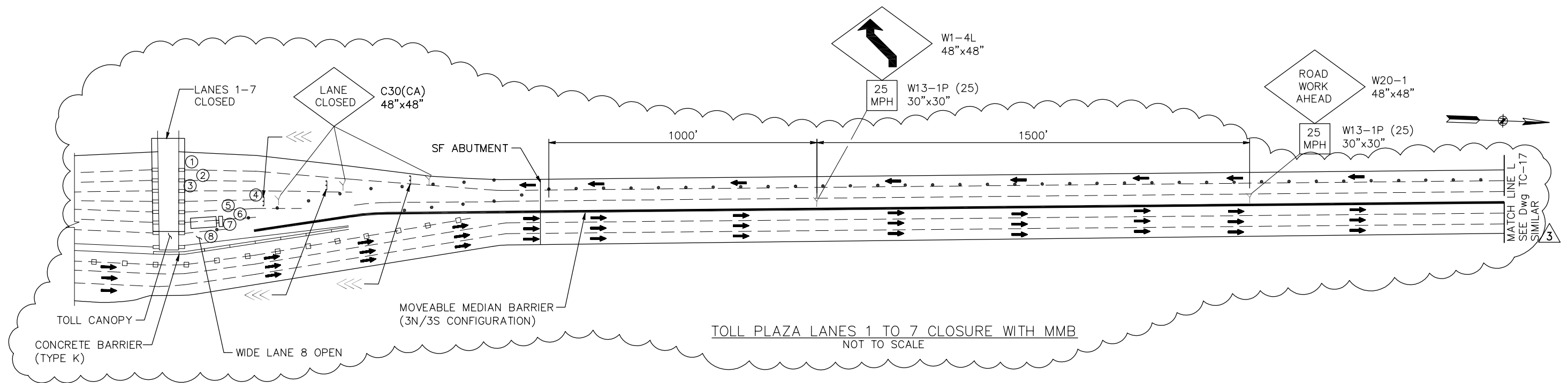
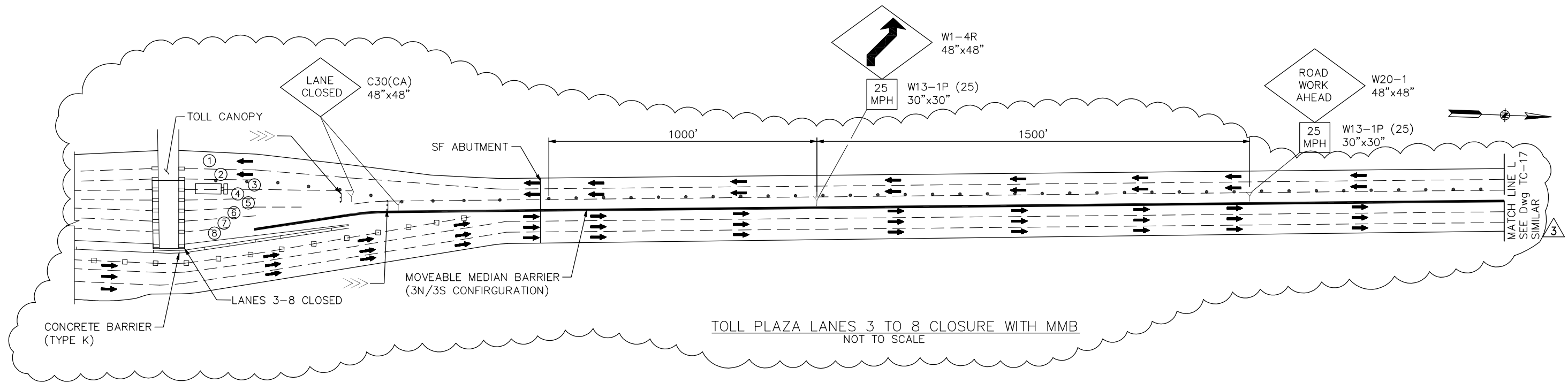
TRAFFIC CONTROL – SOUTH APPROACH  
TOLL PLAZA CLOSURE PLAN  
SHEET 3 OF 19

DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

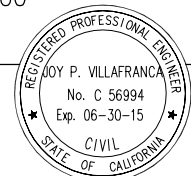
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DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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3	ADDENDUM No. 3	PL	4/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-4	
CADD FILE C-TC04.dwg		DATE	

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02-25-2014  
DATE

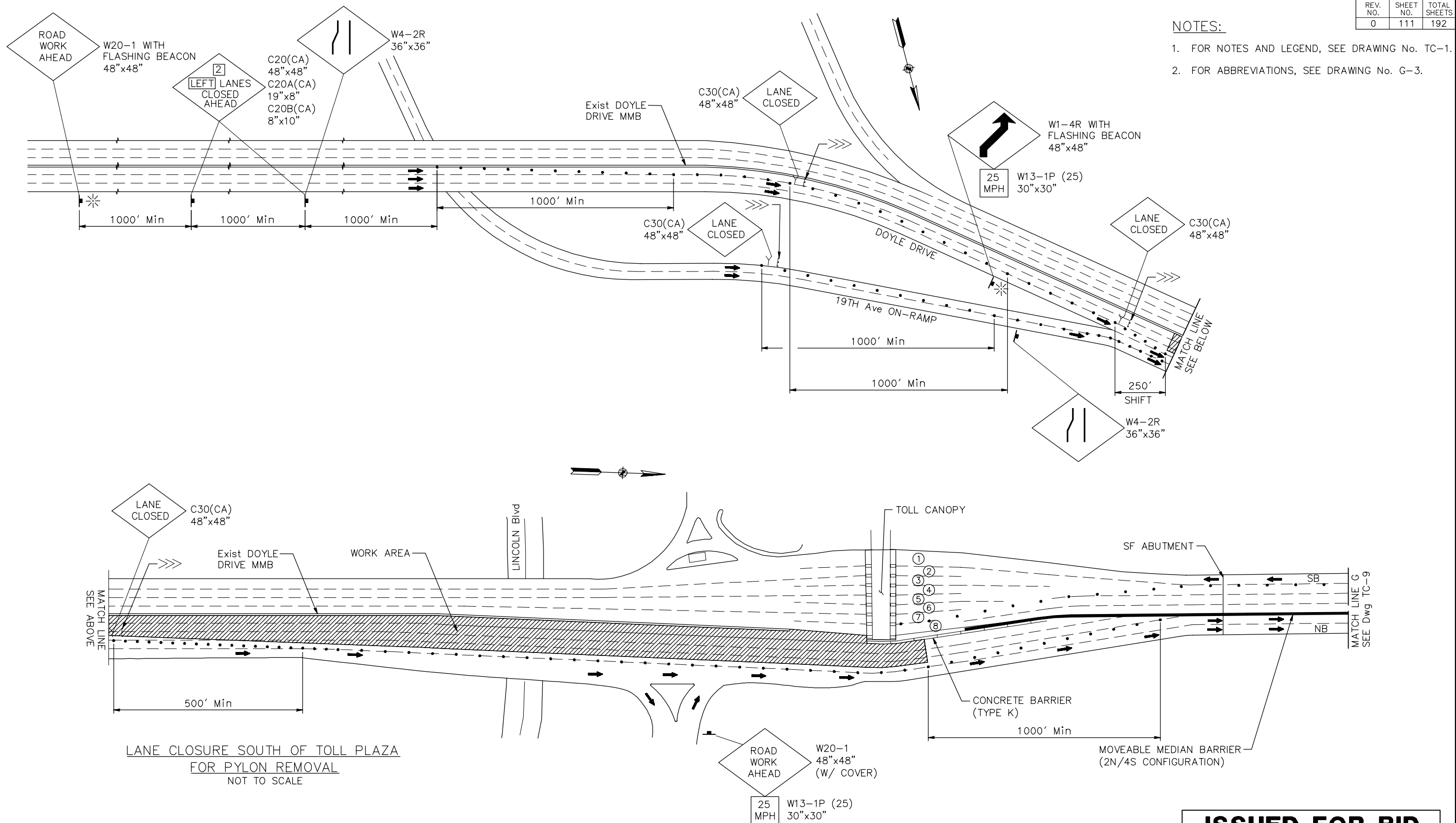
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL - SOUTH APPROACH  
TOLL PLAZA CLOSURE PLAN  
SHEET 4 OF 19

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



**LANE CLOSURE SOUTH OF TOLL PLAZA FOR PYLON REMOVAL**  
NOT TO SCALE

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

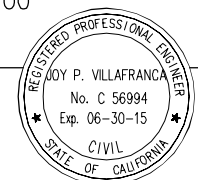
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SCALE: NTS

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NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-TC05.dwg

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CIVIL  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

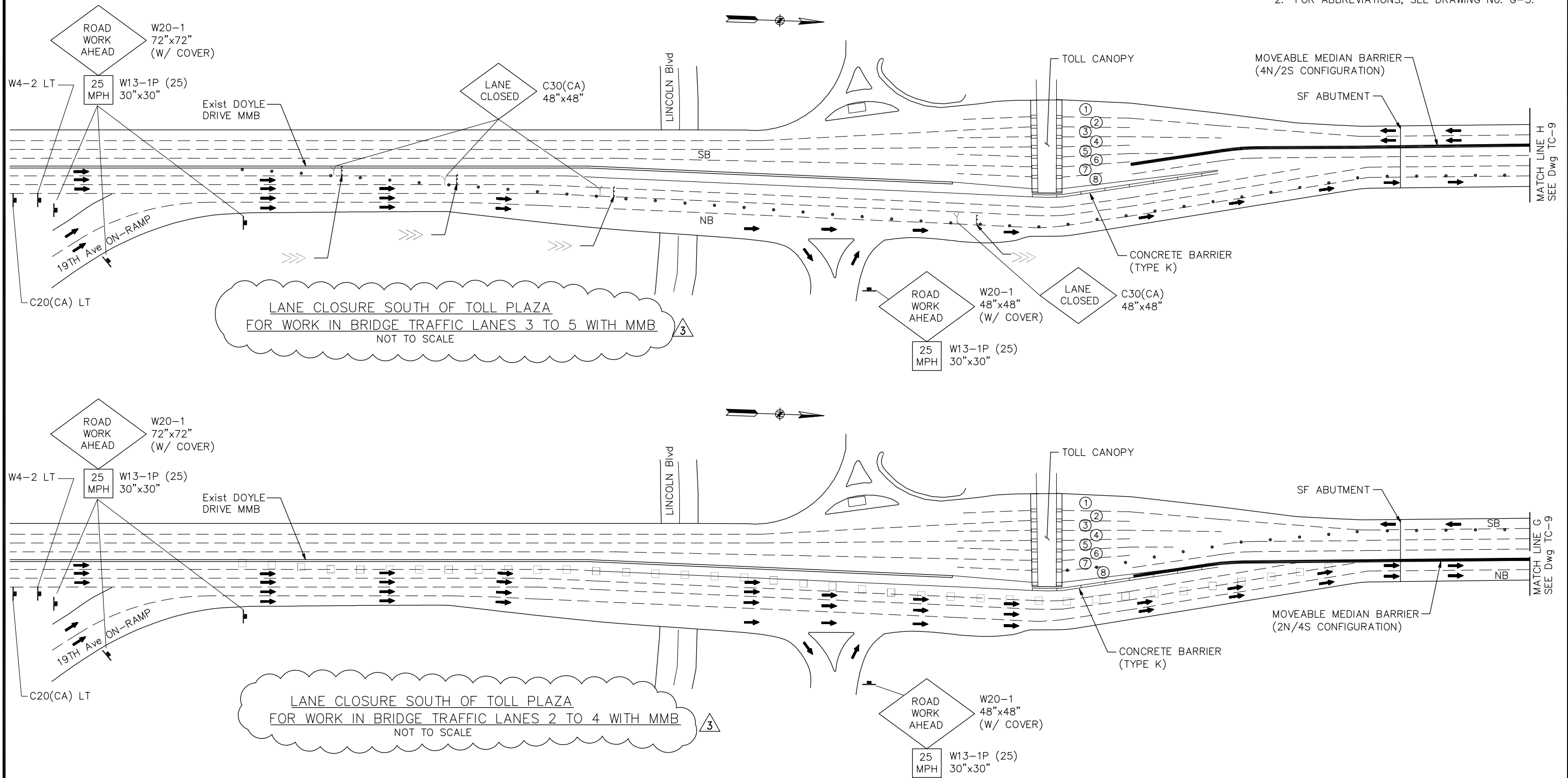
TRAFFIC CONTROL – SOUTH APPROACH  
LANE CLOSURE PLAN  
SHEET 5 OF 19

DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



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SCALE: NTS

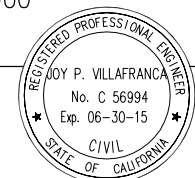
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-6	
CADD FILE C-TC06.dwg		DATE	

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*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER

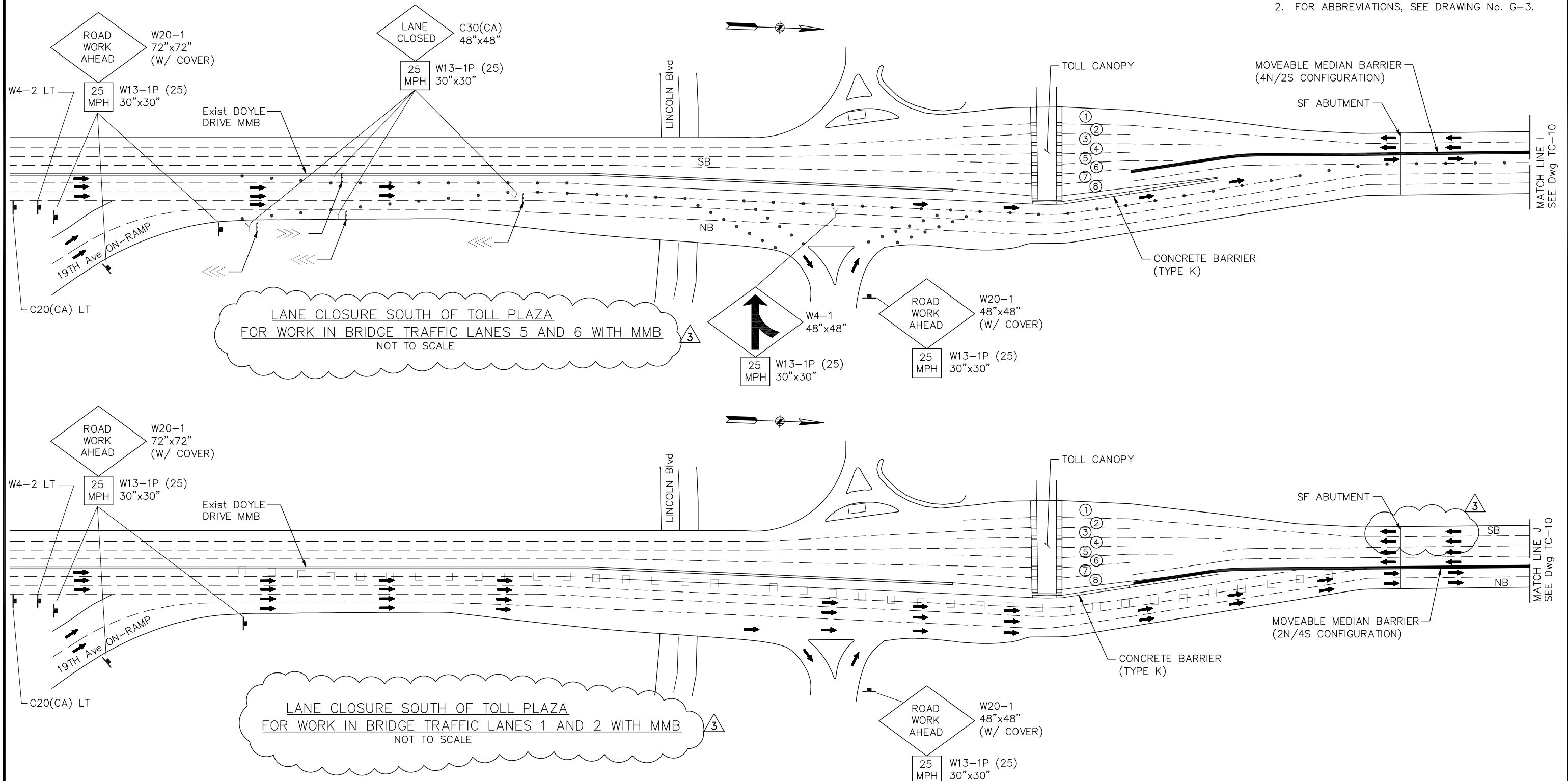
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL - SOUTH APPROACH  
LANE CLOSURE PLAN  
SHEET 6 OF 19

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

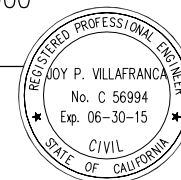
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-7	
CADD FILE C-TC07.dwg		DATE	

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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

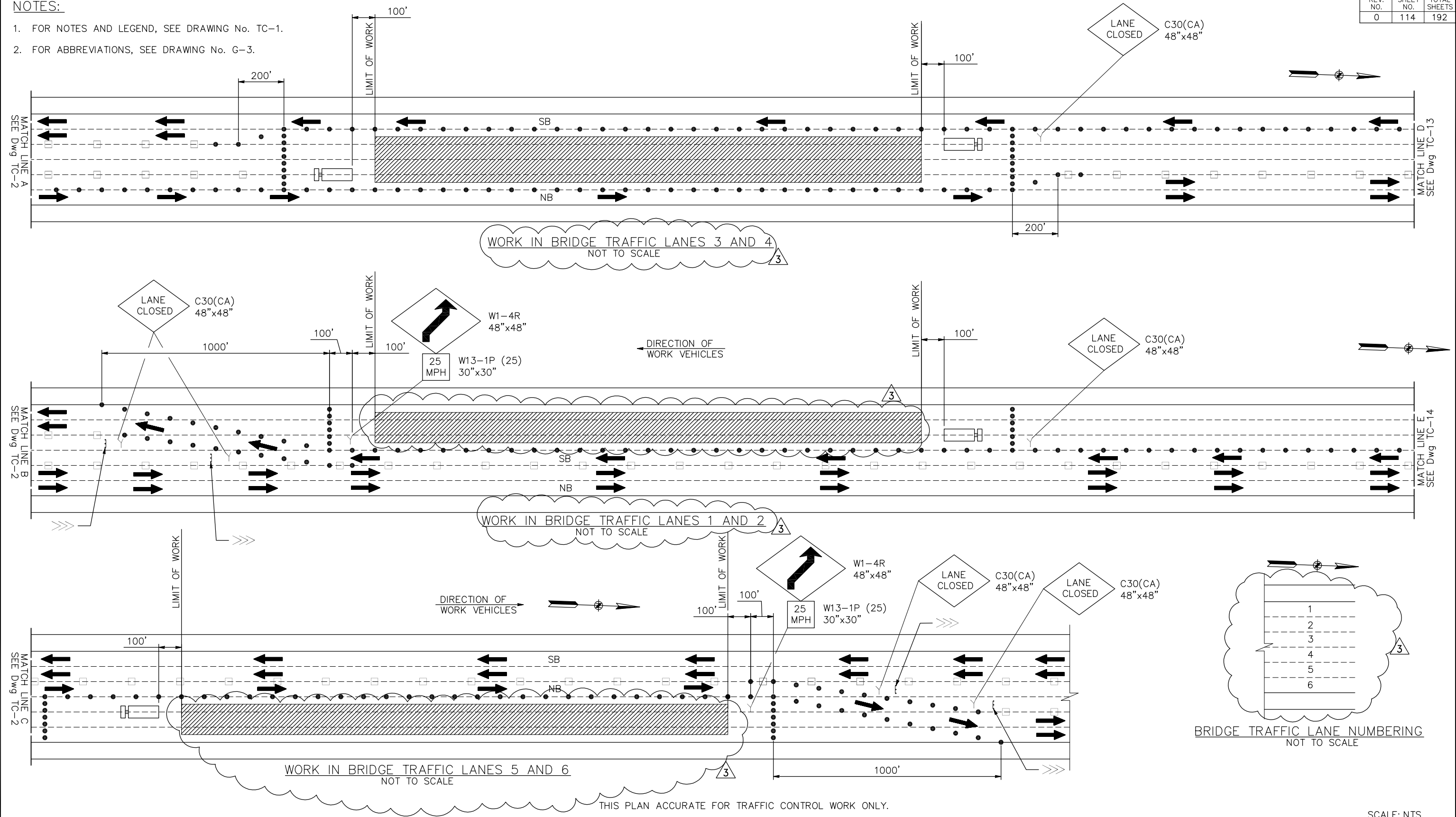
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – SOUTH APPROACH  
LANE CLOSURE PLAN  
SHEET 7 OF 19

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



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SCALE: NTS

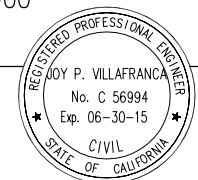
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DESIGN	BY D. AYLE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



3	ADDENDUM No. 3	PL 04/18/14
NO.	REVISIONS	BY DATE
CONTRACT NO. 2014-B-1		DRAWING NO. TC-8
CADD FILE C-TC08.dwg		DATE

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*Ewa Z. Bauer*  
EWA Z. BAUER  
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Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER

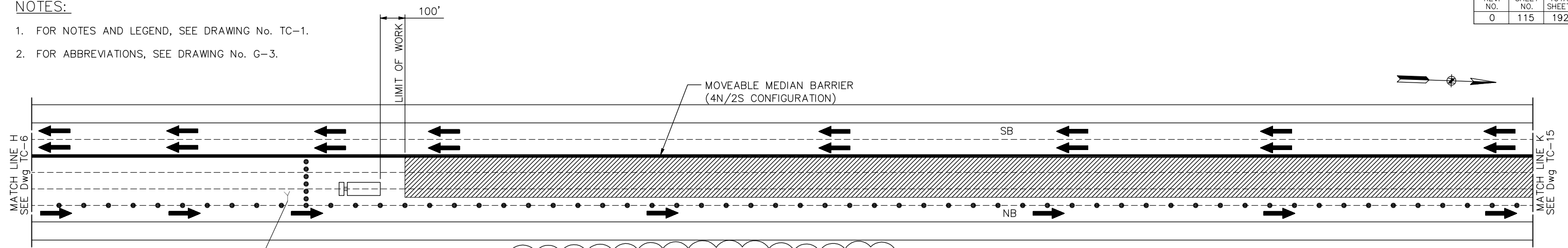
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL - GGB  
LANE CLOSURE PAVEMENT DELINEATION  
SHEET 8 OF 19

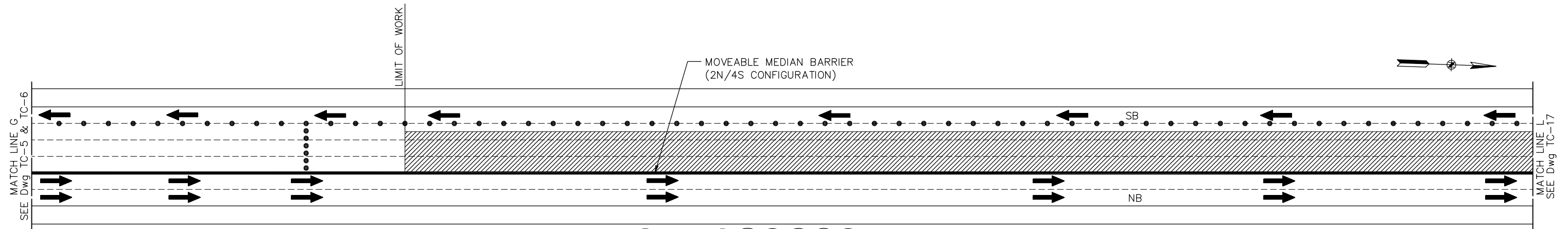
**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

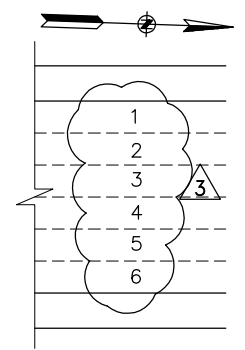


LANE CLOSED  
C30(CA)  
48"x48"

WORK IN BRIDGE TRAFFIC LANES 3 TO 5 WITH MMB  
NOT TO SCALE



WORK IN BRIDGE TRAFFIC LANES 2 TO 4 WITH MMB  
NOT TO SCALE



BRIDGE TRAFFIC LANE NUMBERING  
NOT TO SCALE

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

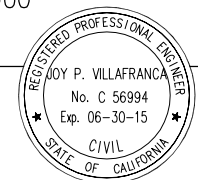
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DESIGN	BY D. AYLE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-9	
CADD FILE C-TC09.dwg		DATE 02-25-2014	

APPROVED BY  
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Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

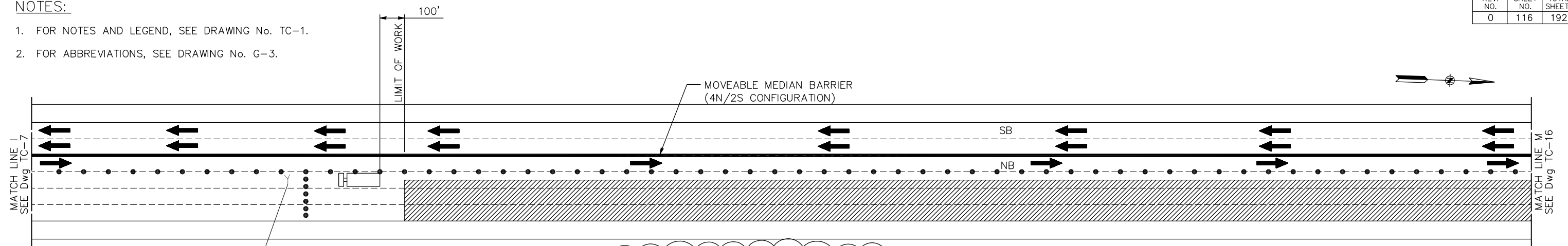
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL - GGB  
LANE CLOSURE PYLON REMOVAL  
SHEET 9 OF 19



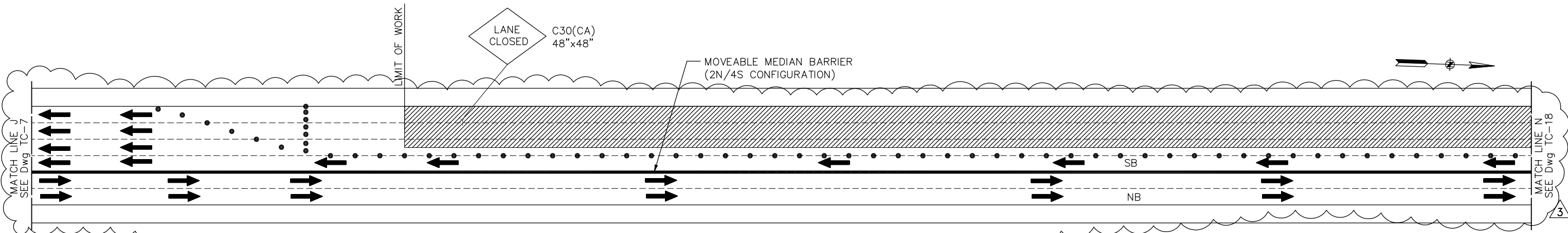
NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



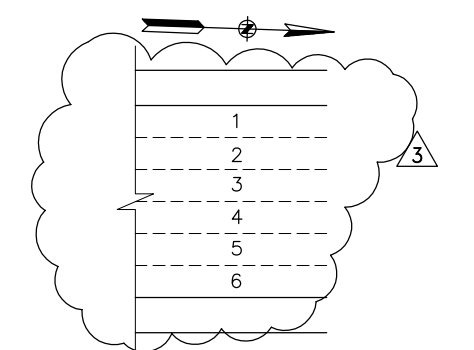
LANE CLOSED C30(CA) 48"x48"

WORK IN BRIDGE TRAFFIC LANES 5 AND 6 WITH MMB NOT TO SCALE



LANE CLOSED C30(CA) 48"x48"

WORK IN BRIDGE TRAFFIC LANES 1 AND 2 WITH MMB NOT TO SCALE



BRIDGE TRAFFIC LANE NUMBERING NOT TO SCALE

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

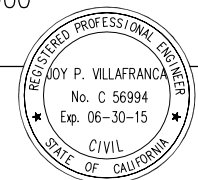
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3		PL 04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-10	
CADD FILE C-TC10.dwg		DATE	

APPROVED BY  
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Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

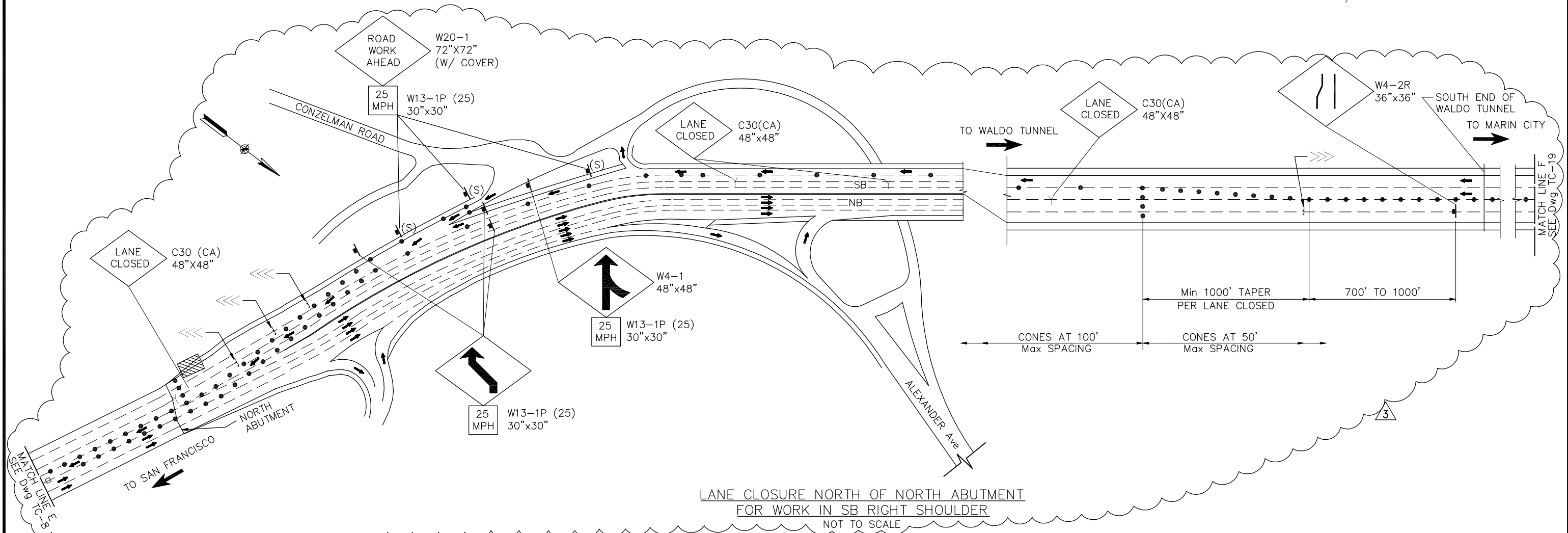
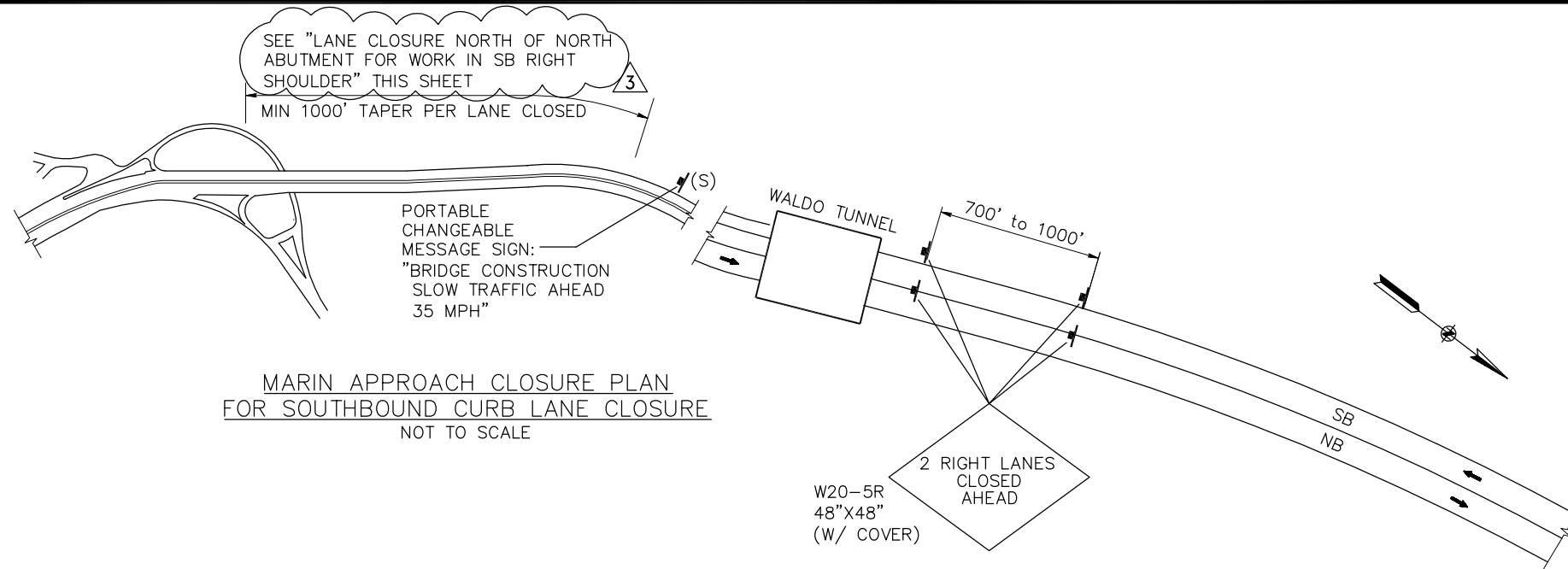
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL - GGB  
LANE CLOSURE PYLON REMOVAL  
SHEET 10 OF 19

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

**MARIN APPROACH CLOSURE PLAN  
FOR SOUTHBOUND CURB LANE CLOSURE**  
NOT TO SCALE



**LANE CLOSURE NORTH OF NORTH ABUTMENT  
FOR WORK IN SB RIGHT SHOULDER**  
NOT TO SCALE

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

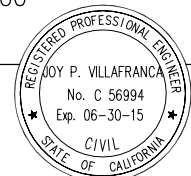
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DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3		PL 04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-11	
CADD FILE C-TC11.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

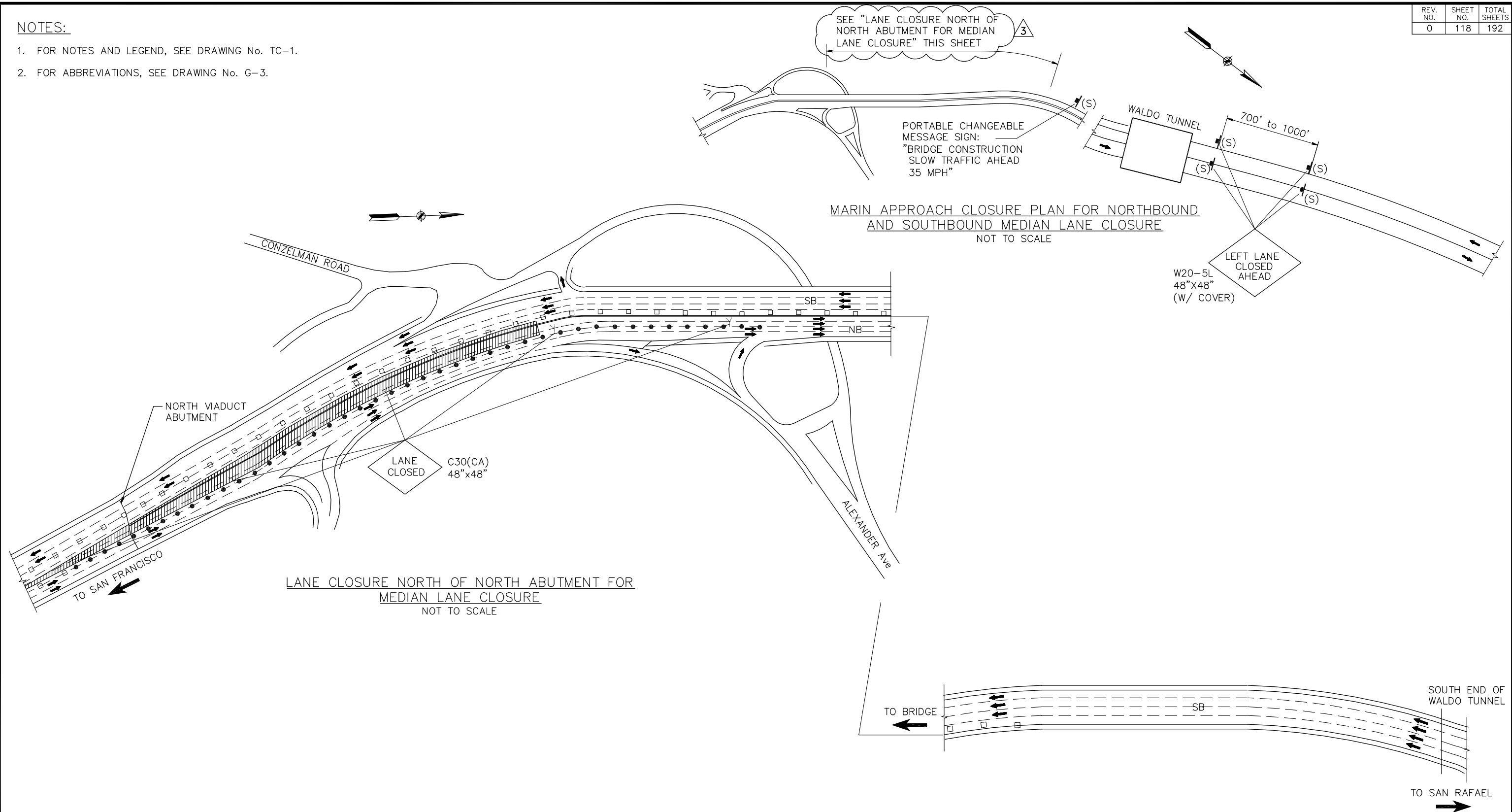
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 11 OF 19

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

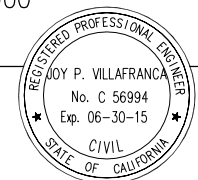


THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

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OAKLAND, CA 94612



*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
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NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-12	
CADD FILE C-TC12.dwg		DATE	

APPROVED BY  
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Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

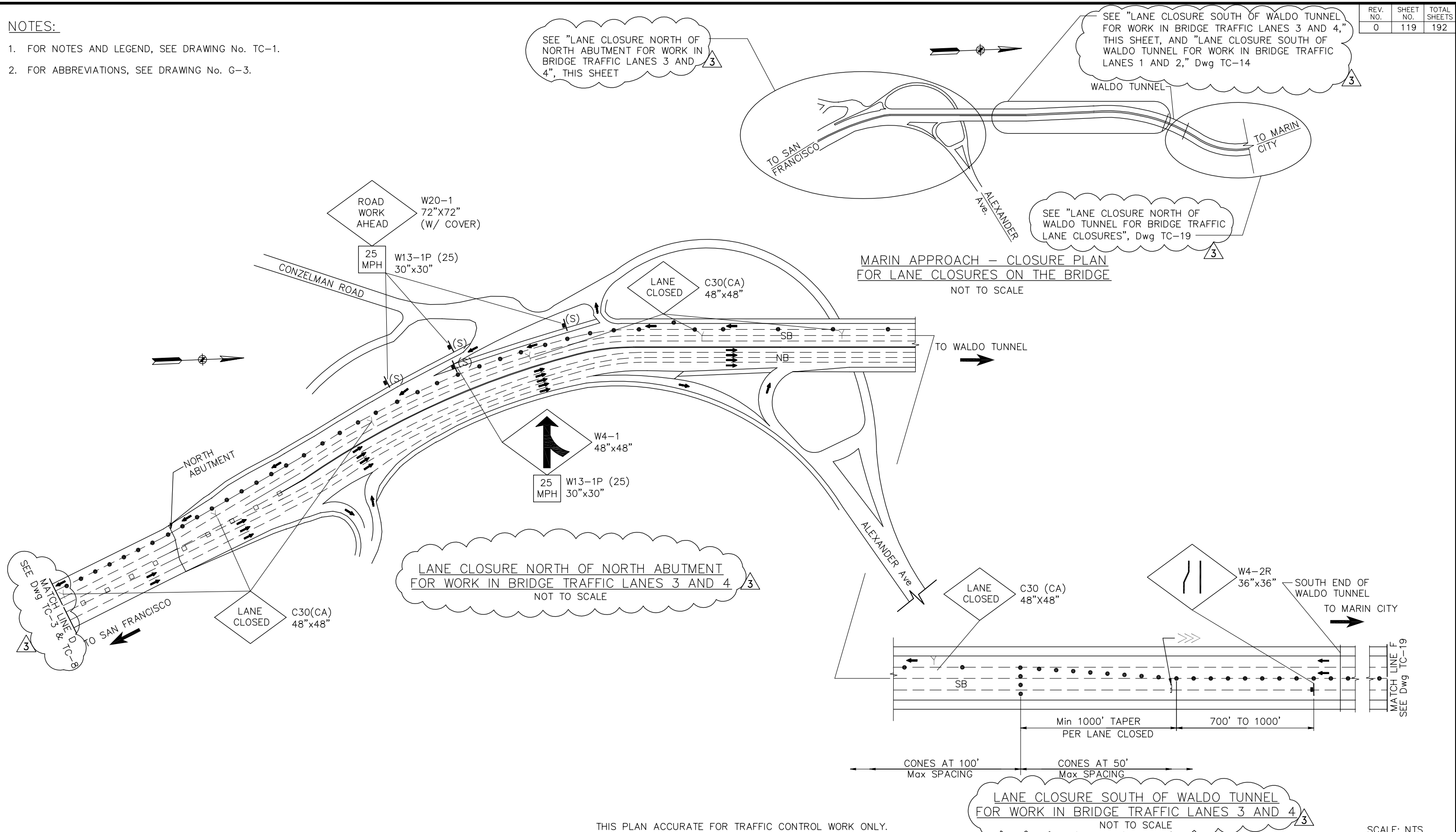
TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 12 OF 19

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



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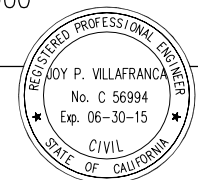
DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

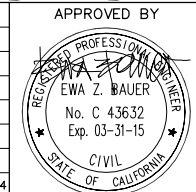
THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

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OAKLAND, CA 94612

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FEBRUARY 25, 2014  
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NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3		PL 04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-13	
CADD FILE C-TC13.dwg		DATE	



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EWA Z. BAUER  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

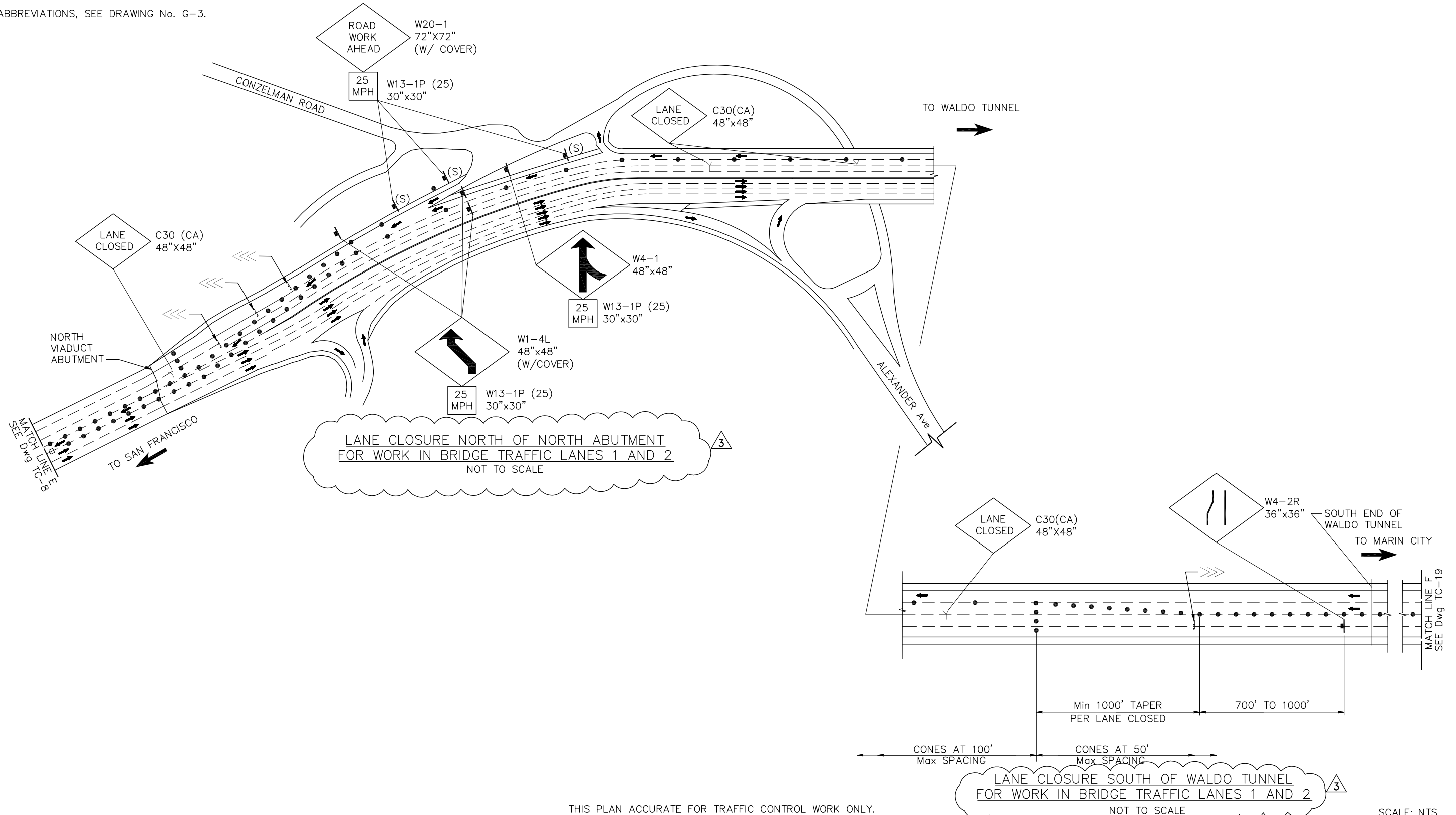
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 13 OF 19

SCALE: NTS

**NOTES:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.

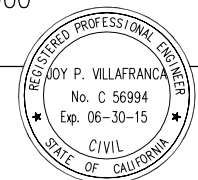


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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-14	
CADD FILE C-TC14.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**  
TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 14 OF 19

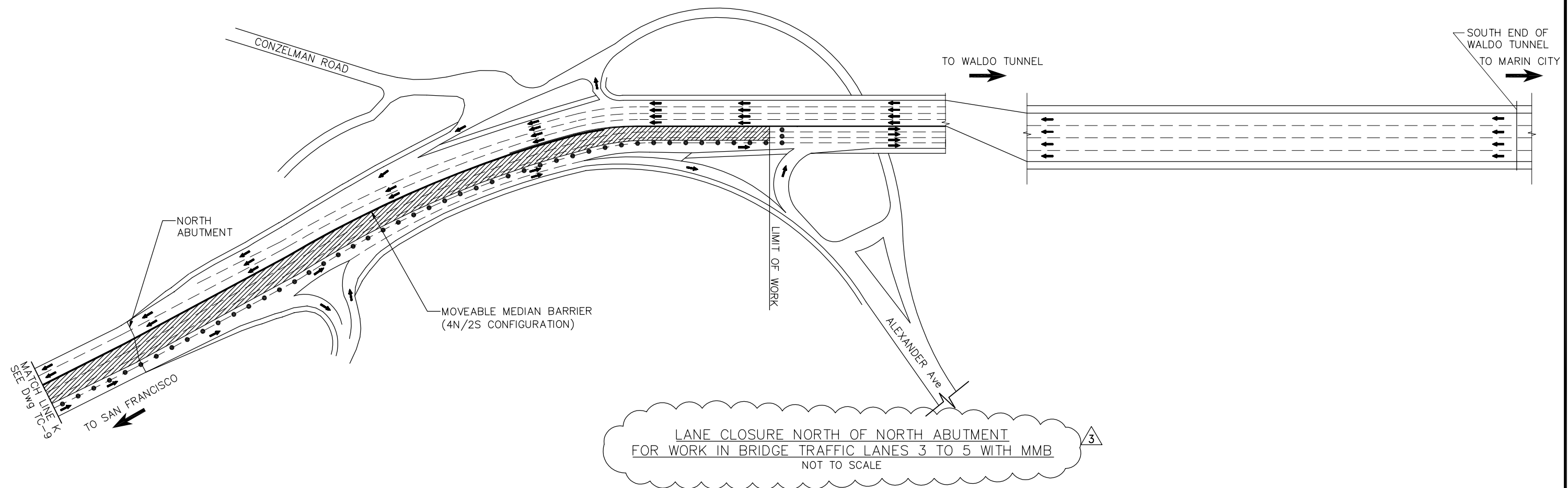
DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

SCALE: NTS

NOTE:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



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SCALE: NTS

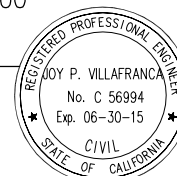
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ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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OAKLAND, CA 94612

*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
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NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-15	
CADD FILE C-TC15.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

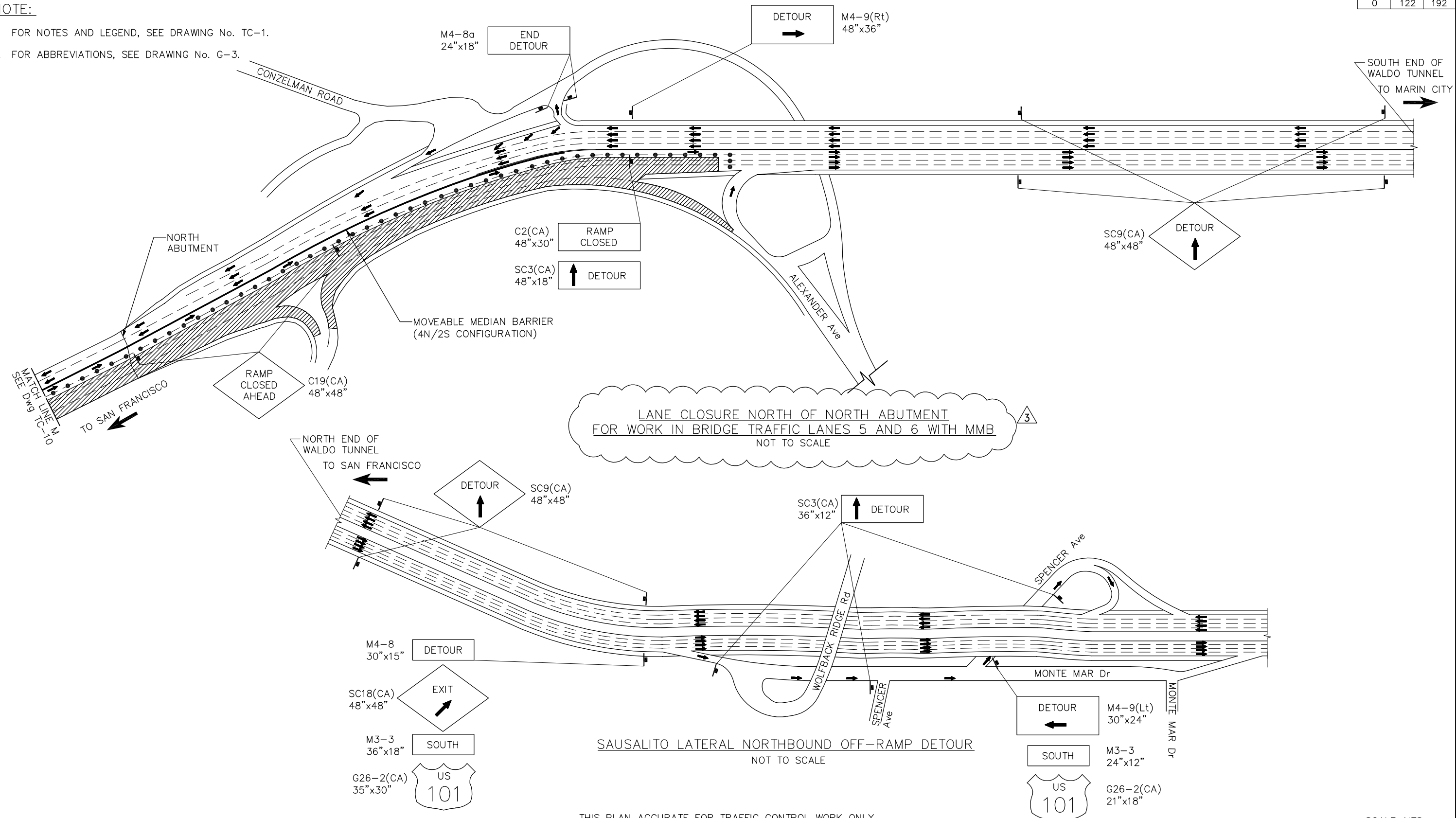
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 15 OF 19

**NOTE:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



LANE CLOSURE NORTH OF NORTH ABUTMENT  
FOR WORK IN BRIDGE TRAFFIC LANES 5 AND 6 WITH MMB  
NOT TO SCALE

SAUSALITO LATERAL NORTHBOUND OFF-RAMP DETOUR  
NOT TO SCALE

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

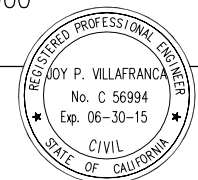
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DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	



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NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. TC-16	
CADD FILE C-TC16.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
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DISTRICT ENGINEER

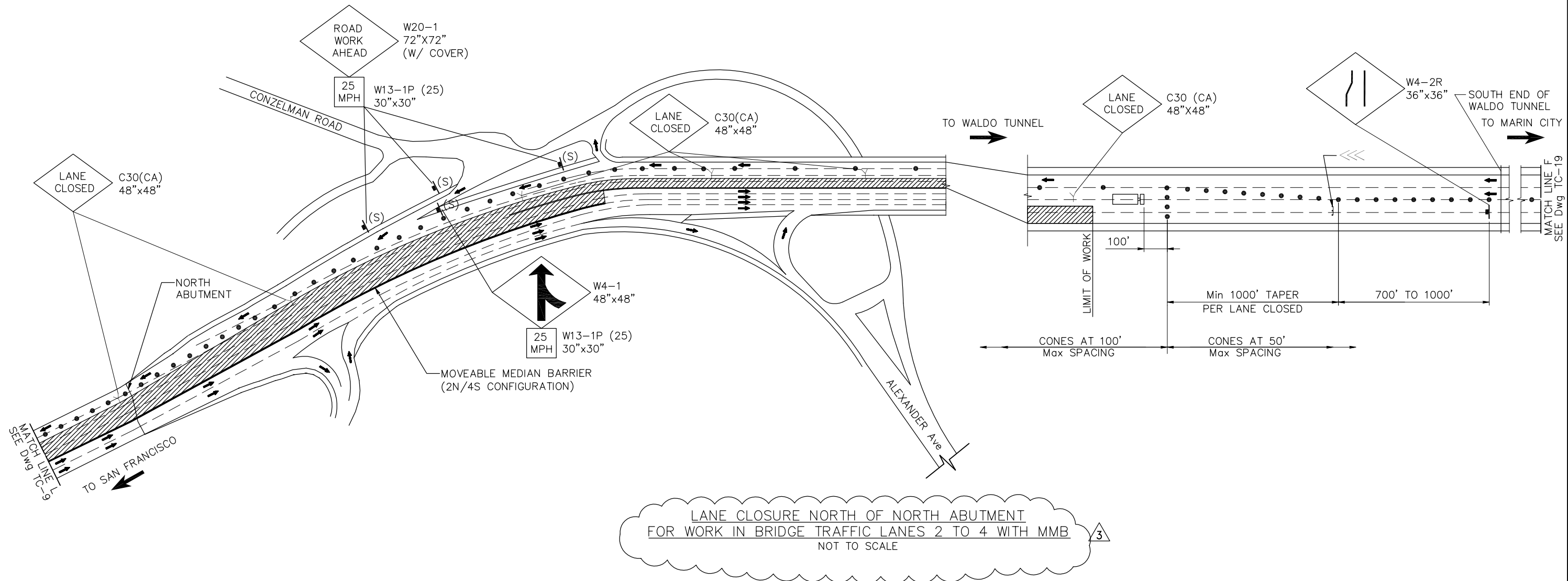
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 16 OF 19

NOTE:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



LANE CLOSURE NORTH OF NORTH ABUTMENT  
FOR WORK IN BRIDGE TRAFFIC LANES 2 TO 4 WITH MMB  
NOT TO SCALE

THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

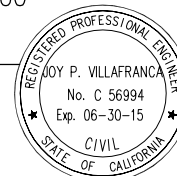
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QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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NO.	ADDENDUM No. 3	BY JCH	DATE 04/18/14
NO.	REVISIONS	BY	DATE
CONTRACT NO. 2014-B-1		DRAWING NO. TC-17	
CADD FILE C-TC17.dwg		DATE	

APPROVED BY  
*Ewa Z. Bauer*  
PROFESSIONAL ENGINEER  
EWA Z. BAUER  
No. C 43632  
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CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

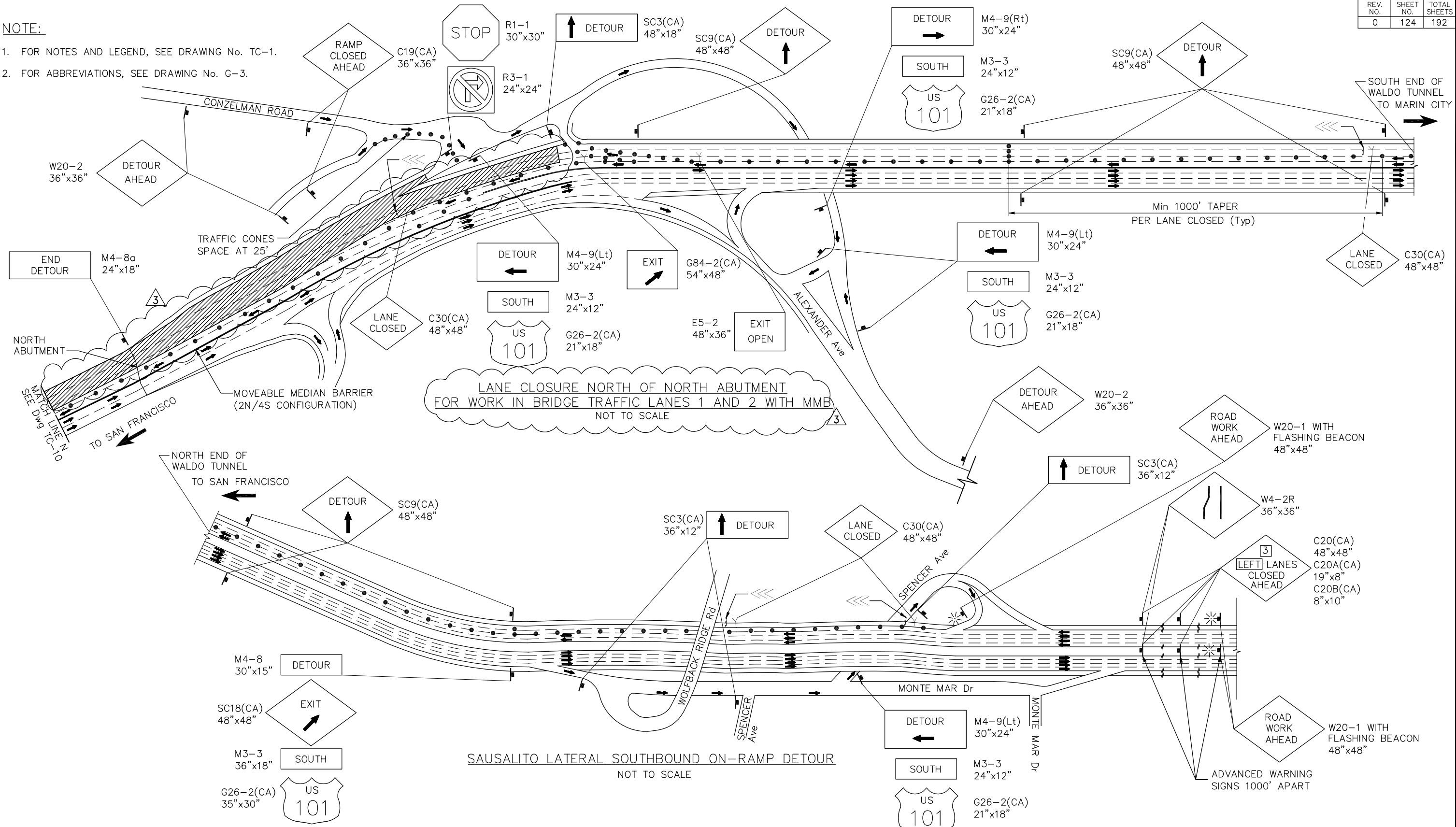
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 17 OF 19



**NOTE:**

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

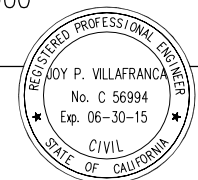
DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

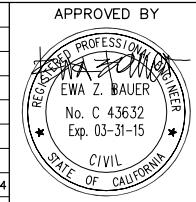
THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

**AECOM**  
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OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	PL	04/18/14
NO.	REVISIONS	BY	DATE
CONTRACT NO. 2014-B-1		DRAWING NO. TC-18	
CADD FILE C-TC18.dwg		DATE	



DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

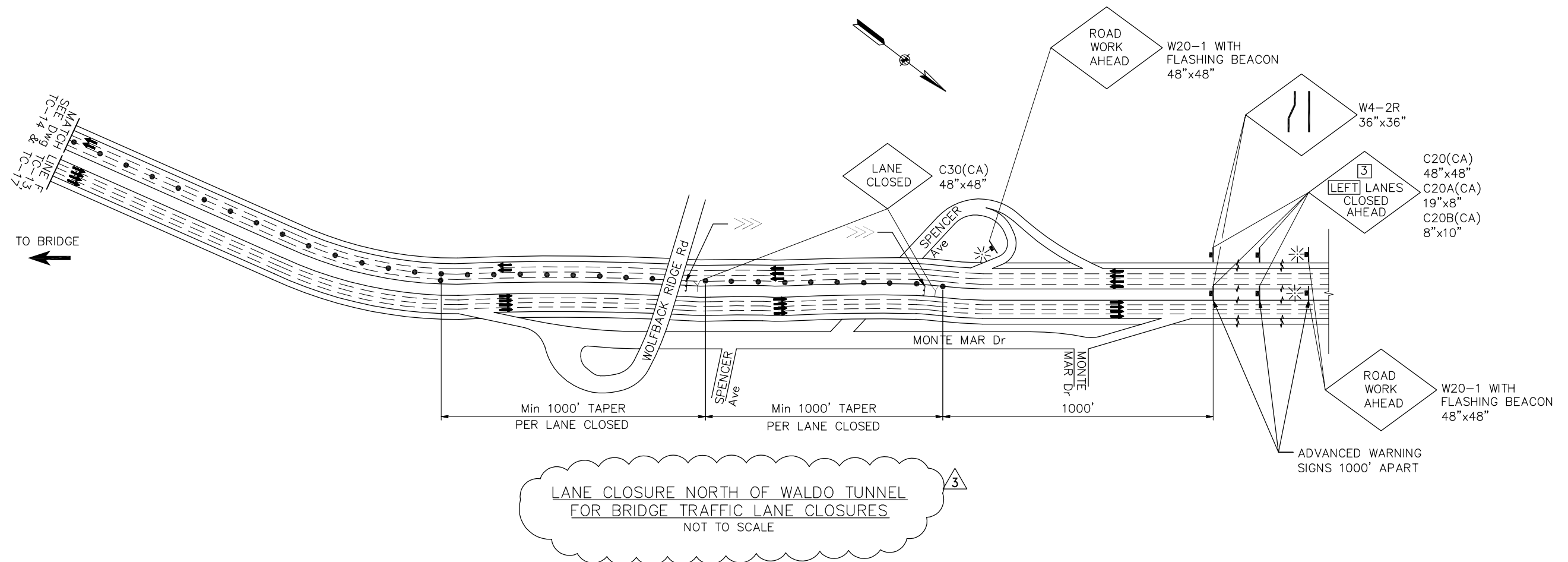
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 18 OF 19

SCALE: NTS

NOTES:

- FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: NTS

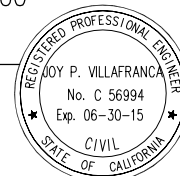
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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OAKLAND, CA 94612

*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	BY JCH	DATE 04/18/14
NO.	REVISIONS	BY	DATE
CONTRACT NO. 2014-B-1		DRAWING NO. TC-19	
CADD FILE C-TC19.dwg		DATE 02-25-2014	

APPROVED BY  
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DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – NORTH APPROACH  
LANE CLOSURE PLAN  
SHEET 19 OF 19

## Attachment B4: Construction Area Signs (Detour Plans) — Short-Term Project

**LEGEND:**

- ↑ ROADSIDE SIGN
- DIRECTION OF TRAVEL
- ☒ CONSTRUCTION AREA SIGN NUMBER
- ⊛ PORTABLE FLASHING BEACON (PFB)
- ✕ STREET CLOSED FOR THRU TRAFFIC
- ===== ONE-WAY STREET
- ===== TWO-WAY STREET
- IP-##, IP-L##, IP-R## OR IP-P## IP ADDRESSABLE PCMS
- CM### CHANGEABLE MESSAGE SIGN

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS – SOUTH APPROACH**

SIGN No.	SIGN CODE		PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
	FEDERAL	CALIFORNIA				
2	G20-1		90" X 48"	2 - 4" X 6"	1	ROAD WORK NEXT 3 MILES

**PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SCHEDULE – SOUTH APPROACH**

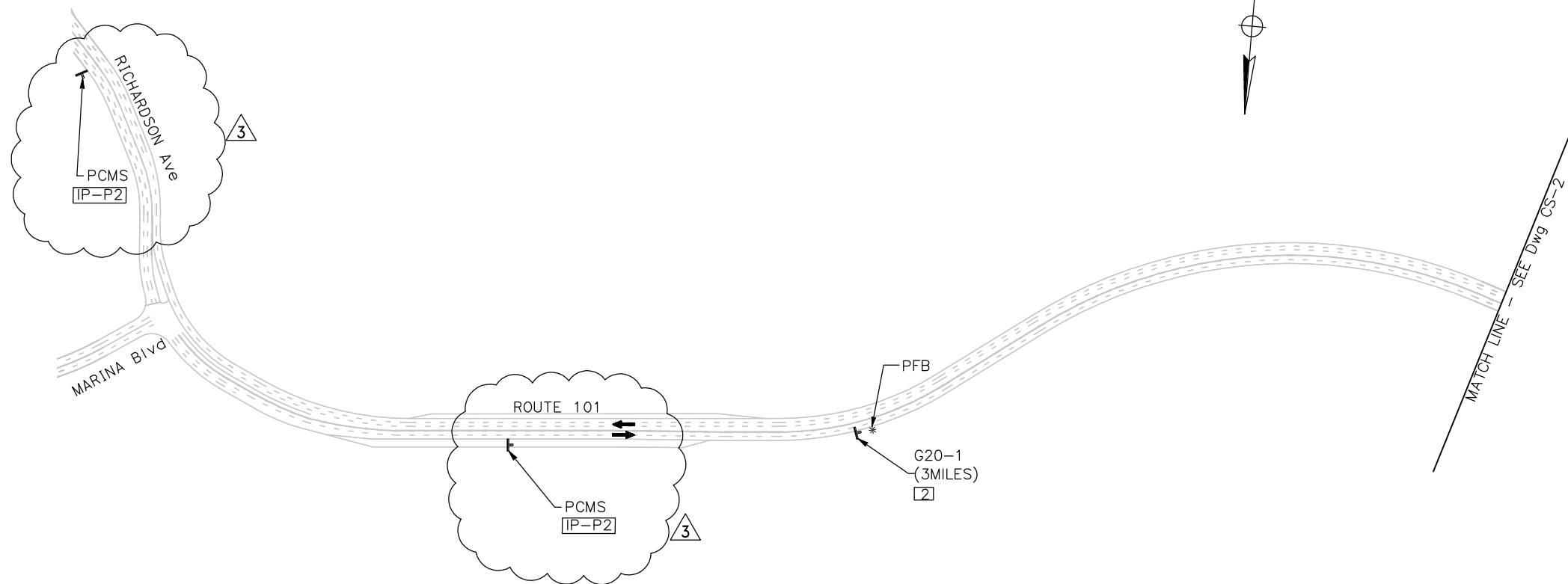
PCMS SIGN No.	COUNTY	Fwy/St Dir	ROUTE/St	CMS LOCATION	MESSAGES	QUANTITY
IP-P1	SF	NB	101/ RICHARDSON Blvd	SOUTH OF MARINA Blvd	AS DIRECTED	1
IP-P2	SF	NB	1/ PRESIDIO PARKWAY	BETWEEN ROUTE 1 AND MARINA Blvd	AS DIRECTED	1
IP-P3	SF	NB	101/ VETERANS Blvd	BETWEEN LAKE St AND SOUTH PORTAL OF GENERAL DOUGLAS MACARTHUR TUNNEL	AS DIRECTED	1

**NOTES:**

- LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- FOR ABBREVIATIONS SEE DRAWING No. G-3.

← To San Francisco

To Marin County →



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS WORK ONLY.

SCALE: NTS

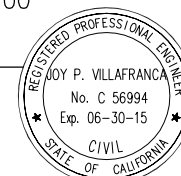
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. CS-1	
CADD FILE C-CS01.dwg		DATE 02-25-2014	

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STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

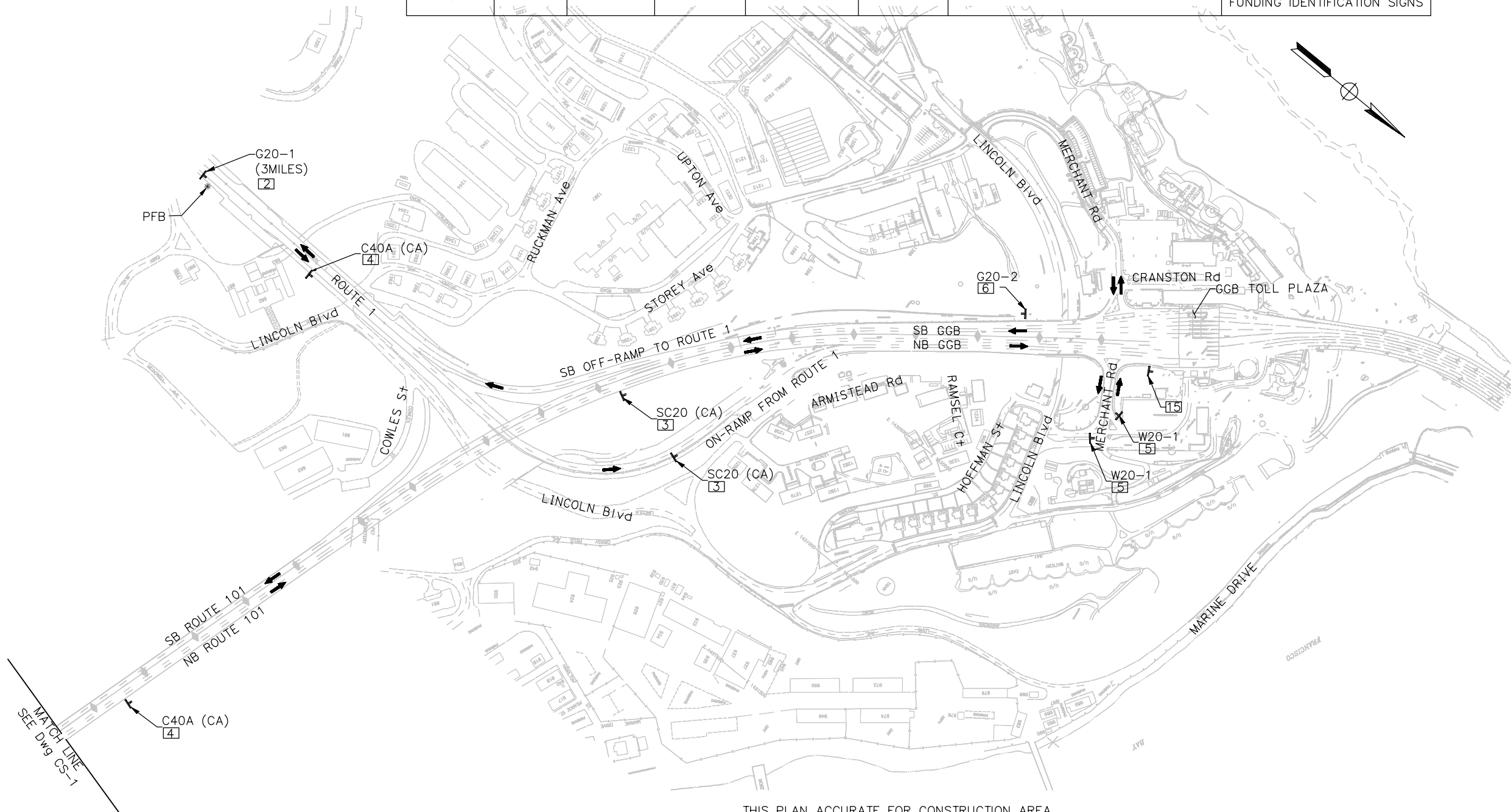
CONSTRUCTION AREA SIGNS  
SOUTH APPROACH  
SHEET 1 OF 15

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NO.	SIGN CODE		PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE	REMARKS
	FEDERAL	CALIFORNIA					
2	G20-1		90" X 48"	2 - 4" X 6"	1	ROAD WORK NEXT 3MILES	
3		SC20 (CA)	48" X 48"	2 - 4" X 6"	2	SLOW FOR THE CONE ZONE	
4		C40A (CA)	48" X 48"	2 - 4" X 6"	2	TRAFFIC FINES DOUBLE IN WORK ZONES	
5	W20-1		48" X 48"	2 - 4" X 6"	2	ROAD WORK AHEAD	
6	G20-2		48" X 24"	2 - 4" X 6"	1	END ROAD WORK	
15		TYPE I	90" X 60"	2 - 4" X 6"	1	CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS	

NOTES:

- FOR NOTES, AND/OR LEGEND, SEE DRAWING No. CS-1.
- FOR ABBREVIATIONS SEE DRAWING No. G-3.



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS WORK ONLY.

**ISSUED FOR BID**

SCALE: NTS

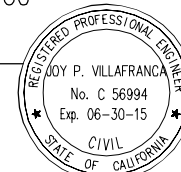
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DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-CS02.dwg

APPROVED BY  
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CIVIL  
STATE OF CALIFORNIA

DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
SOUTH APPROACH  
SHEET 2 OF 15

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS – NORTH APPROACH

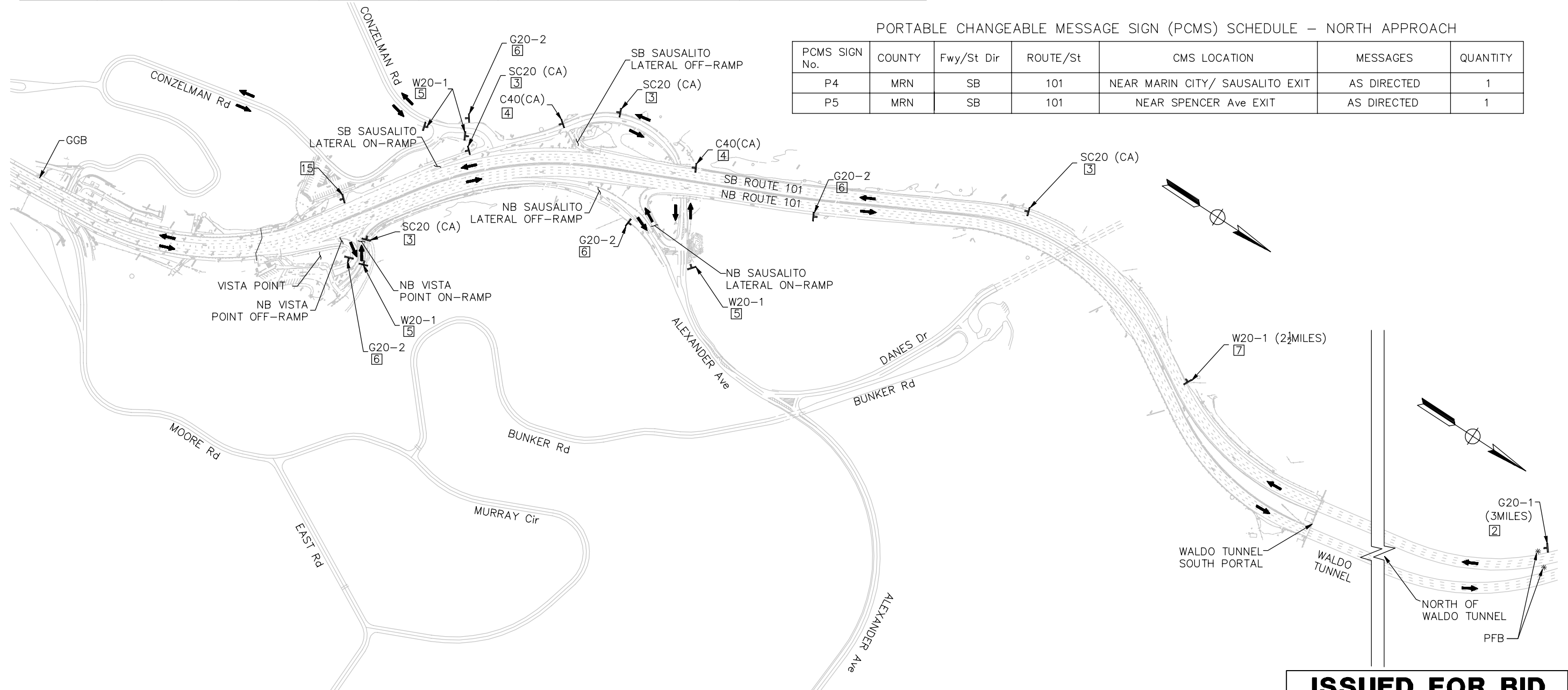
SIGN NO.	SIGN CODE		PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE	REMARKS
	FEDERAL	CALIFORNIA					
2	G20-1		90" X 48"	2 - 4" X 6"	1	ROAD WORK NEXT 3 MILES	
3		SC20 (CA)	48" X 48"	2 - 4" X 6"	4	SLOW FOR THE CONE ZONE	
4		C40A (CA)	48" X 48"	2 - 4" X 6"	2	TRAFFIC FINES DOUBLE IN WORK ZONES	
5	W20-1		48" X 48"	2 - 4" X 6"	4	ROAD WORK AHEAD	
6	G20-2		48" X 24"	2 - 4" X 6"	4	END ROAD WORK	
7	W20-1		48" X 48"	2 - 4" X 6"	1	ROAD WORK 2 1/2 MILES	
15		TYPE I	48" X 60"	2 - 4" X 6"	1		CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NOTES:

- FOR NOTES, AND/OR LEGEND, SEE DRAWING No. CS-1.
- FOR ABBREVIATIONS SEE DRAWING No. G-3.

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SCHEDULE – NORTH APPROACH

PCMS SIGN No.	COUNTY	Fwy/St Dir	ROUTE/St	CMS LOCATION	MESSAGES	QUANTITY
P4	MRN	SB	101	NEAR MARIN CITY/ SAUSALITO EXIT	AS DIRECTED	1
P5	MRN	SB	101	NEAR SPENCER Ave EXIT	AS DIRECTED	1



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS WORK ONLY.

**ISSUED FOR BID**  
SCALE: NTS

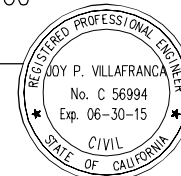
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DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

CONTRACT NO. 2014-B-1  
CADD FILE C-CS03.dwg

DRAWING NO. CS-3  
DATE 02-25-2014

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
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CIVIL  
DISTRICT ENGINEER

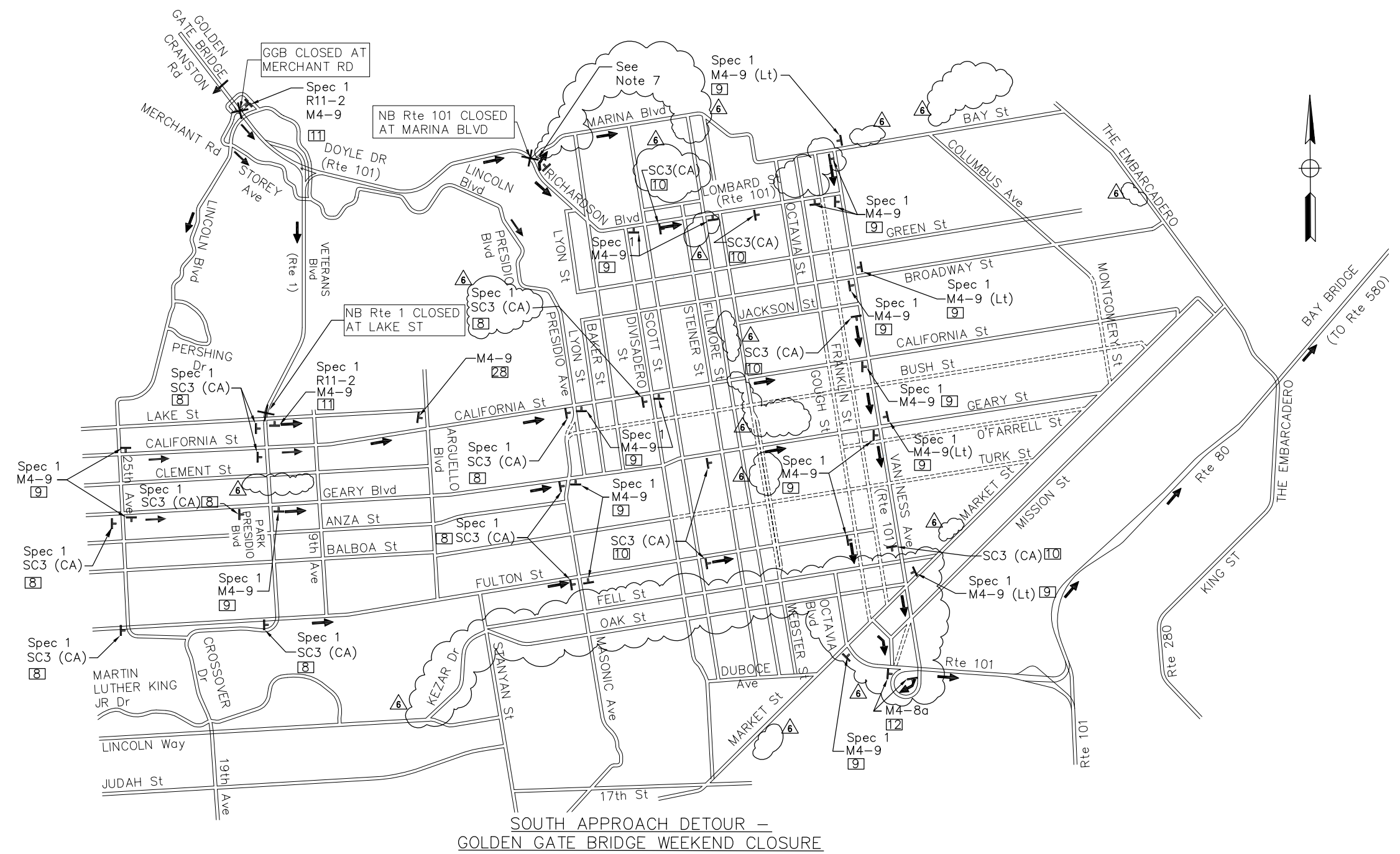
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

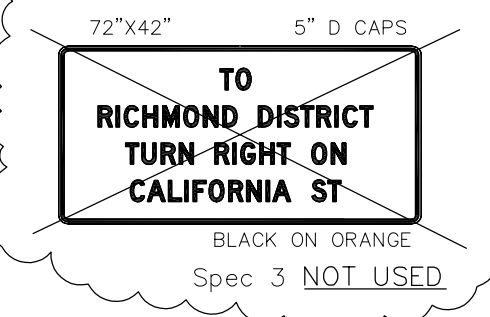
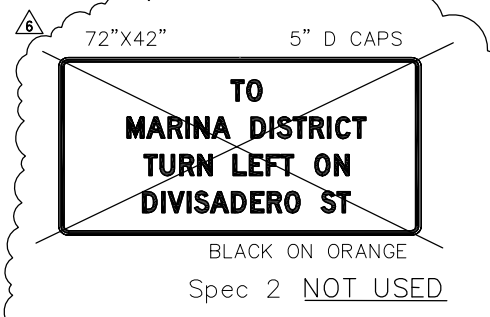
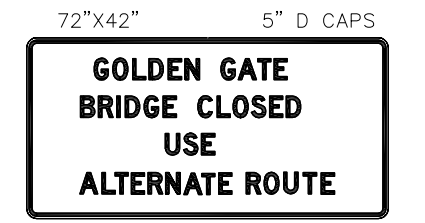
CONSTRUCTION AREA SIGNS  
NORTH APPROACH  
SHEET 3 OF 15

NOTES:

- FOR NOTES AND/OR LEGEND, SEE DRAWING No. CS-1.
- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
- THIS DETOUR ROUTE IS USED WHEN GOLDEN GATE BRIDGE IS CLOSED.
- SEE DRAWING No. CS-11 FOR STATIONARY MOUNTED CONSTRUCTION AREA SIGNS SCHEDULE.
- ALL SIGNING SHALL BE IN PLACE PRIOR TO BRIDGE CLOSURE.
- FOR PORTABLE CHANGEABLE MESSAGE SIGNS, SEE DRAWING Nos. CS-7 AND CS-8.
- COVER EXISTING "NO RIGHT TURN" SIGN BEFORE BRIDGE CLOSURE. UNCOVER SIGN AFTER BRIDGE CLOSURE.



SOUTH APPROACH DETOUR –  
GOLDEN GATE BRIDGE WEEKEND CLOSURE



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

SCALE: NTS

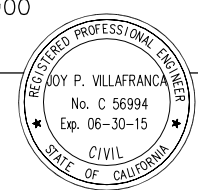
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DESIGN	BY D. AYELE	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
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OAKLAND, CA 94612

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REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



6	REVISED PER CCO 019	JV 12/15/14
3	ADDENDUM No. 3	JV 4/18/14
NO.	REVISIONS	BY DATE
CONTRACT NO. 2014-B-1		DRAWING NO. CS-4
CADD FILE C-CS04.dwg		DATE

APPROVED BY  
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EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

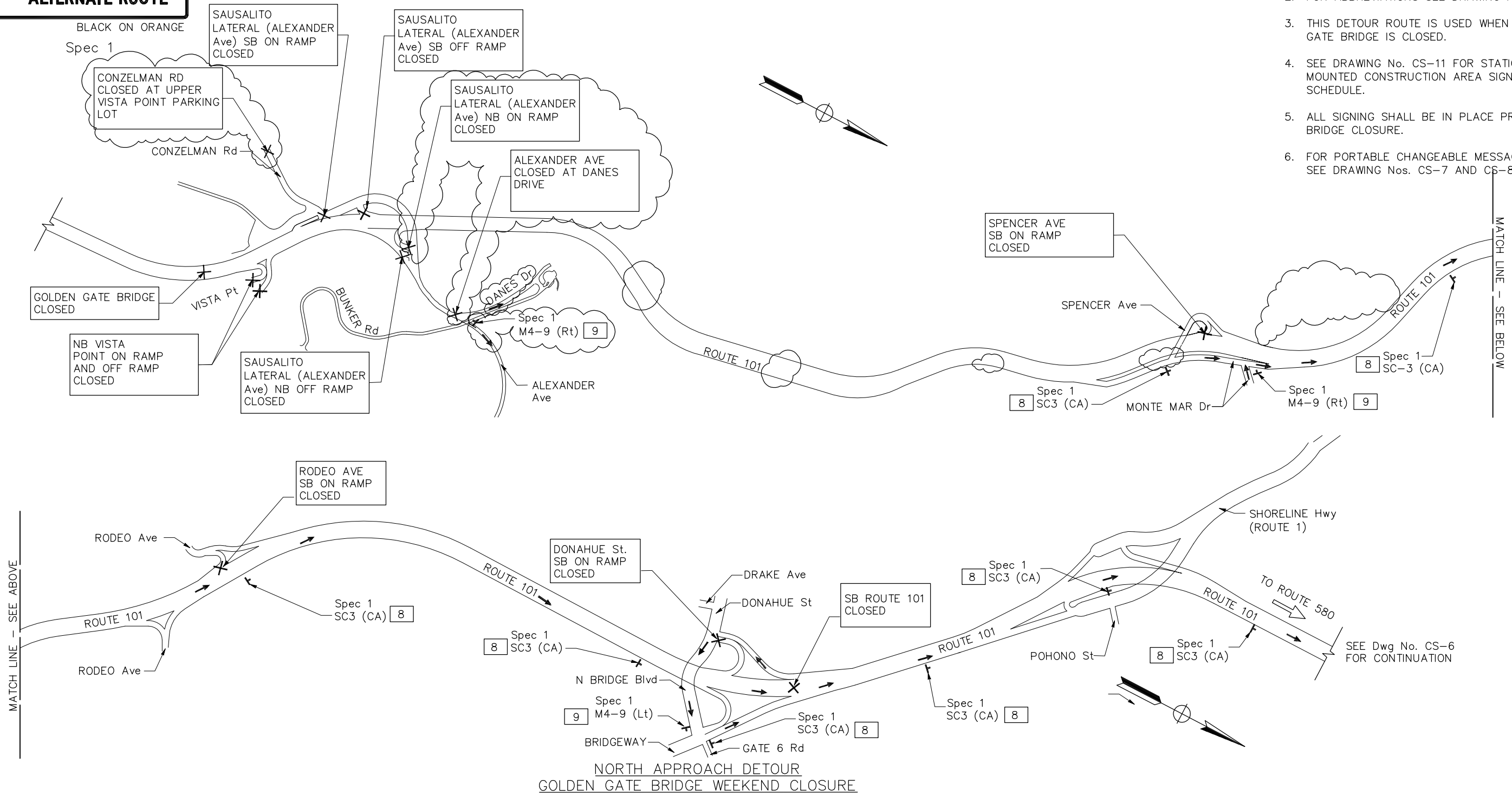
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
DETOUR – SOUTH APPROACH  
GGB WEEKEND CLOSURE (4 OF 15)

72"x42" 5" D CAPS

**GOLDEN GATE BRIDGE CLOSED  
USE  
ALTERNATE ROUTE**

- NOTES:**
- FOR NOTES, AND/OR LEGEND, SEE DRAWING No. CS-1.
  - FOR ABBREVIATIONS SEE DRAWING No. G-3.
  - THIS DETOUR ROUTE IS USED WHEN GOLDEN GATE BRIDGE IS CLOSED.
  - SEE DRAWING No. CS-11 FOR STATIONARY MOUNTED CONSTRUCTION AREA SIGNS SCHEDULE.
  - ALL SIGNING SHALL BE IN PLACE PRIOR TO BRIDGE CLOSURE.
  - FOR PORTABLE CHANGEABLE MESSAGE SIGNS, SEE DRAWING Nos. CS-7 AND CS-8.



**NORTH APPROACH DETOUR  
GOLDEN GATE BRIDGE WEEKEND CLOSURE**

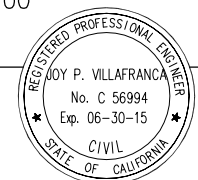
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SCALE: NTS

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OAKLAND, CA 94612

*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3		PL 04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. CS-5	
CADD FILE C-CS05.dwg		DATE 02-25-2014	

APPROVED BY  
*Ewa Z. Bauer*  
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Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**  
CONSTRUCTION AREA SIGNS  
DETOUR - NORTH APPROACH  
GGB WEEKEND CLOSURE (5 OF 15)

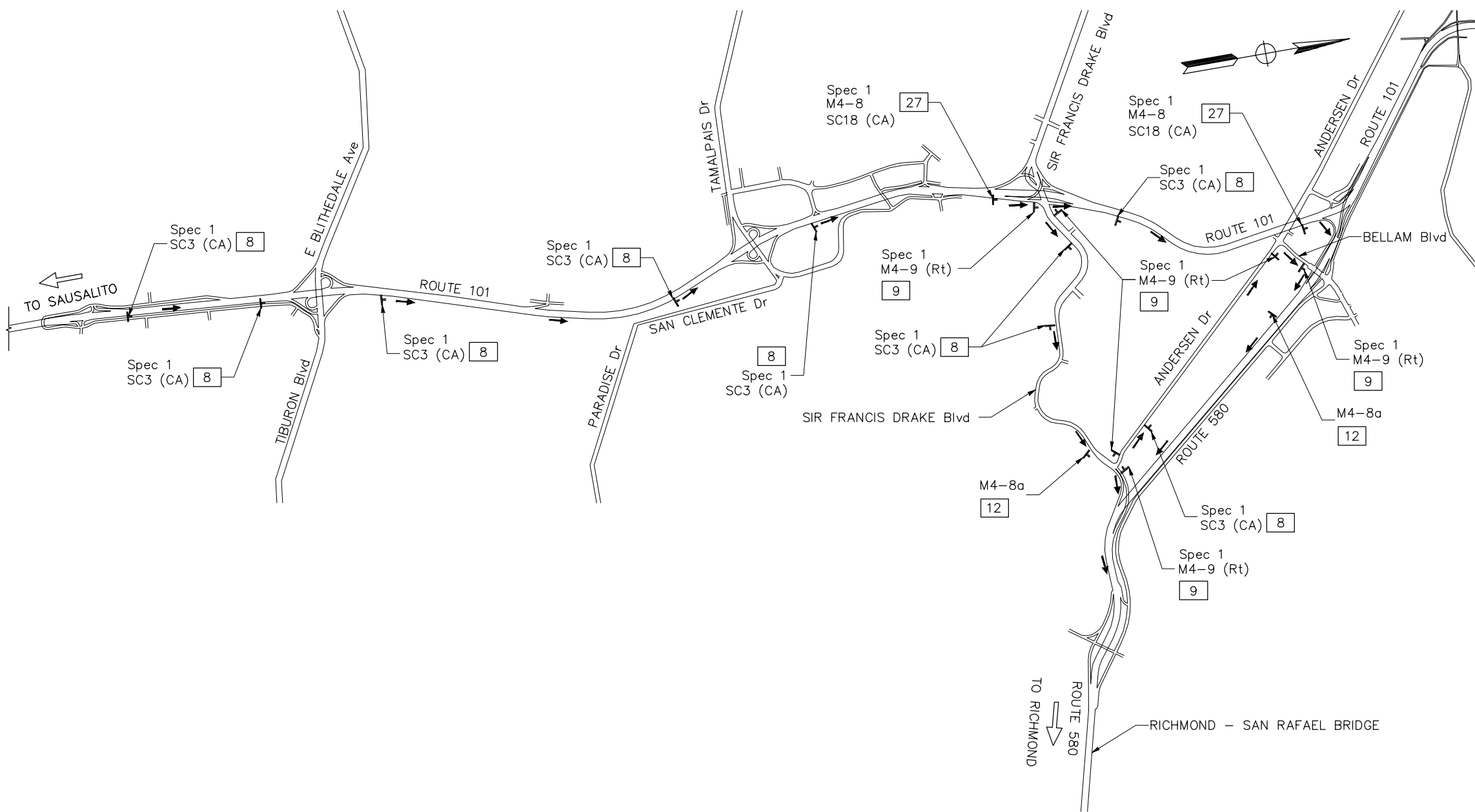
DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3



NOTES:

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- FOR ABBREVIATIONS SEE DRAWING No. G-3.
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- SEE DRAWING No. CS-11 FOR STATIONARY MOUNTED CONSTRUCTION AREA SIGNS SCHEDULE.
- ALL SIGNING SHALL BE IN PLACE PRIOR TO BRIDGE CLOSURE.
- FOR PORTABLE CHANGEABLE MESSAGE SIGNS, SEE DRAWING Nos. CS-7 and CS-8.
- SEE Dwg No. CS-5 FOR SPECIAL SIGN 1 (SPEC 1) DETAILS.



NORTH APPROACH DETOUR  
GOLDEN GATE BRIDGE WEEKEND CLOSURE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

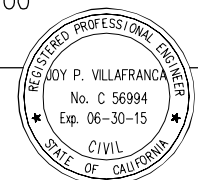
**ISSUED FOR BID**

SCALE: NTS

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*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE

APPROVED BY  
*Ewa Z. Bauer*  
REGISTERED PROFESSIONAL ENGINEER  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

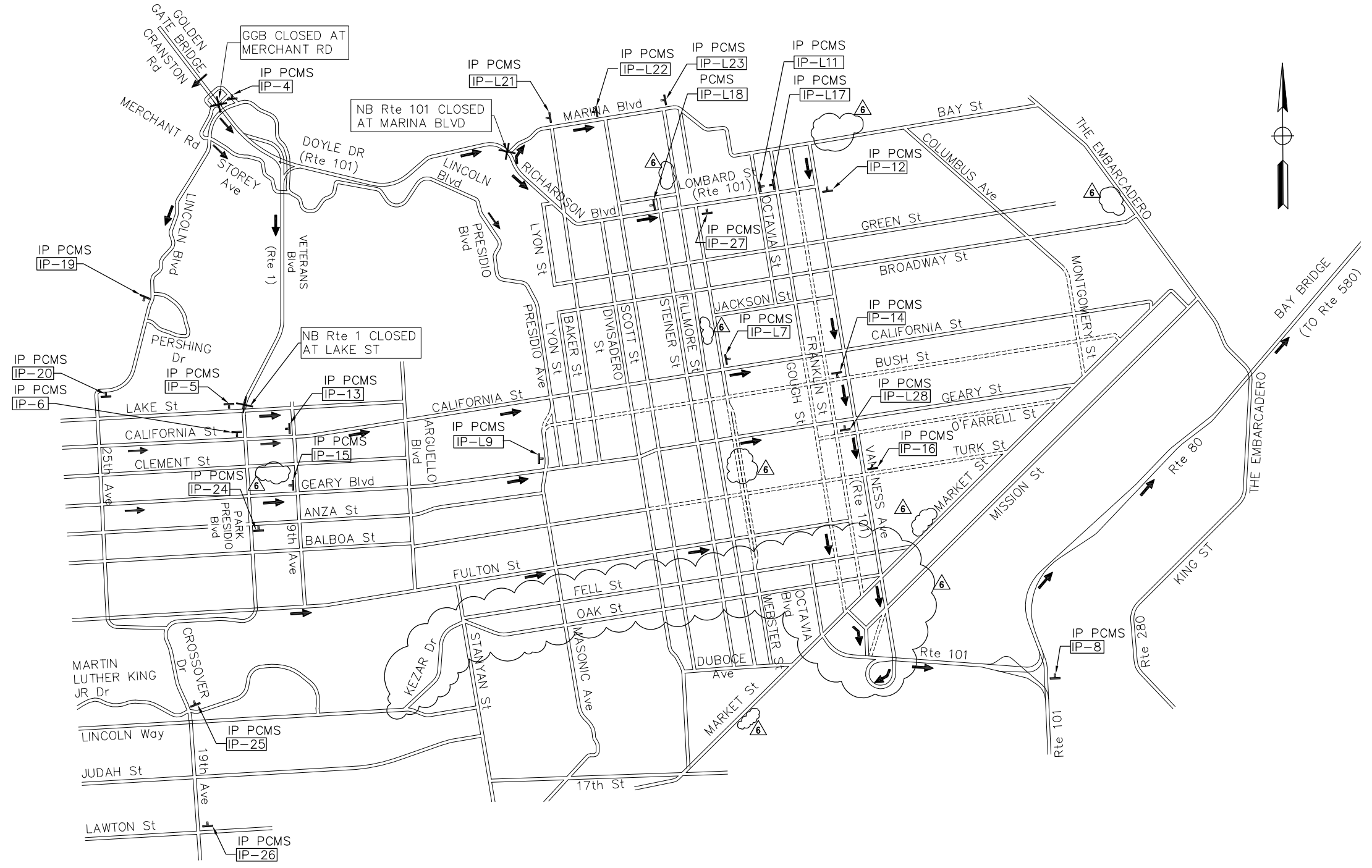
CONSTRUCTION AREA SIGNS  
DETOUR - NORTH APPROACH  
GGB WEEKEND CLOSURE (6 OF 15)

DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

NOTES:

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- FOR ABBREVIATIONS, SEE DRAWING No. G-3.
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- SEE DRAWING No. CS-11 FOR STATIONARY CONSTRUCTION AREA SIGNS SCHEDULE.
- ALL SIGNING SHALL BE IN PLACE PRIOR TO BRIDGE CLOSURE.



SOUTH APPROACH DETOUR –  
GOLDEN GATE BRIDGE WEEKEND CLOSURE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

SCALE: NTS

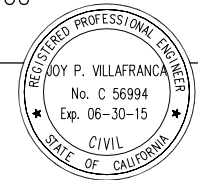
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DESIGN	BY R. LI	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



6	REVISED PER CCO 019	JPV 12/15/14
3	ADDENDUM No. 3	JCH 04/18/14
NO.	REVISIONS	BY DATE
CONTRACT NO. 2014-B-1		DRAWING NO. CS-7
CADD FILE C-CS07.dwg		DATE

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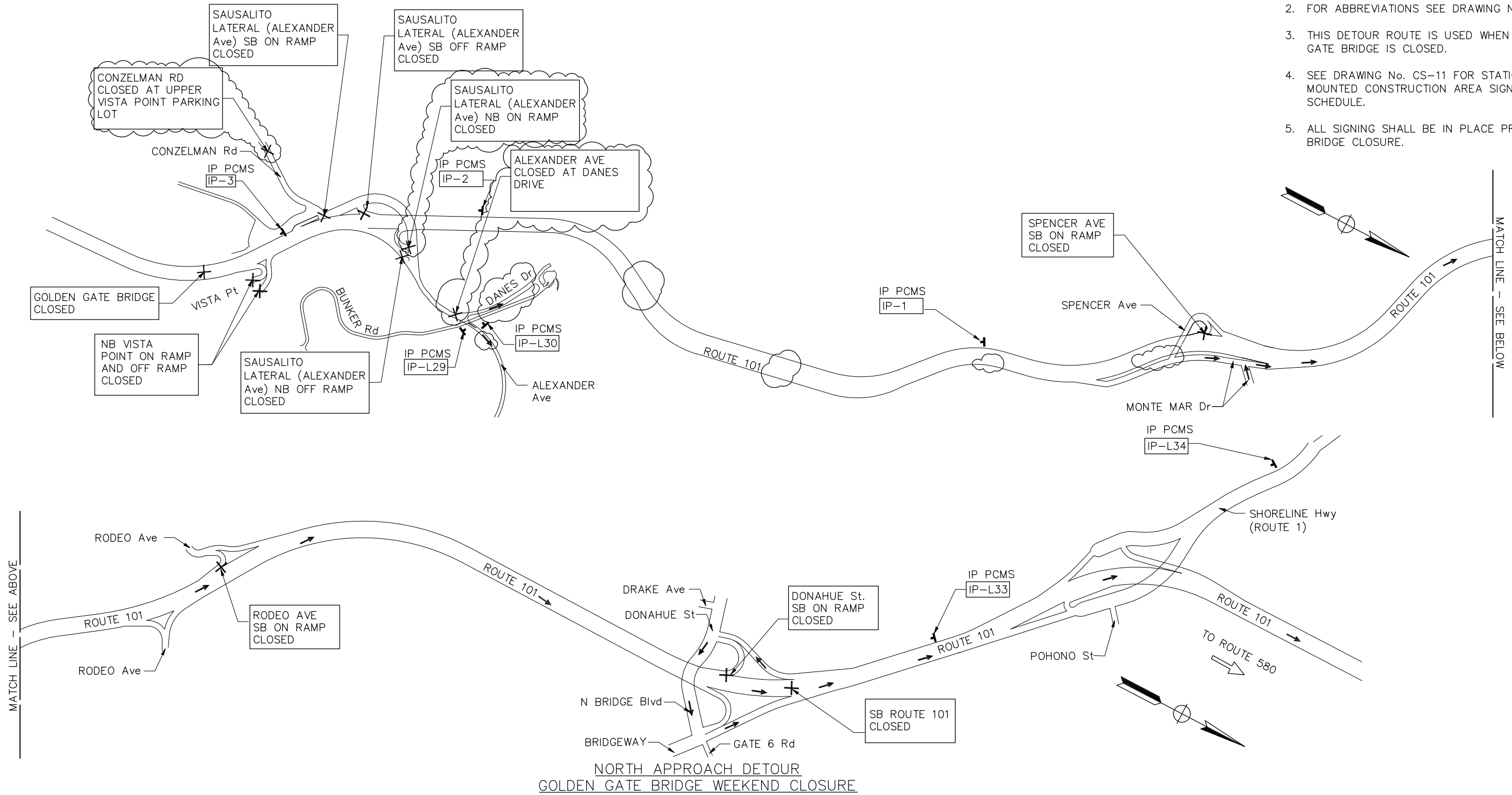
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
PCMS – SOUTH APPROACH  
GGB WEEKEND CLOSURE (7 OF 15)

**NOTES:**

1. FOR NOTES, AND/OR LEGEND, SEE DRAWING No. CS-1.
2. FOR ABBREVIATIONS SEE DRAWING No. G-3.
3. THIS DETOUR ROUTE IS USED WHEN GOLDEN GATE BRIDGE IS CLOSED.
4. SEE DRAWING No. CS-11 FOR STATIONARY MOUNTED CONSTRUCTION AREA SIGNS SCHEDULE.
5. ALL SIGNING SHALL BE IN PLACE PRIOR TO BRIDGE CLOSURE.



**NORTH APPROACH DETOUR  
GOLDEN GATE BRIDGE WEEKEND CLOSURE**

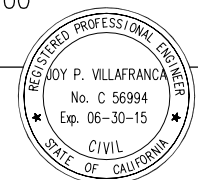
THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

SCALE: NTS

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

**AECOM**  
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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3		PL 04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. CS-8	
CADD FILE C-CS08.dwg		DATE 02-25-2014	

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**GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT**  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**  
 CONSTRUCTION AREA SIGNS  
 PCMS – NORTH APPROACH  
 GGB WEEKEND CLOSURE (8 OF 15)

DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3



NOTES:

1. FOR ABBREVIATIONS, SEE DRAWING No. G-3.
2. FOR NOTES AND/OR LEGEND, SEE DRAWING No. CS-1.

MATCHLINE SEE Dwg No CS-10

PCMS REGIONAL PLAN  
GGB WEEKEND CLOSURE

NO SCALE

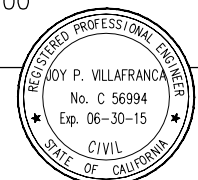
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DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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NO.	ADDENDUM No. 3	PL 04/18/14
NO.	REVISIONS	BY DATE
CONTRACT NO. 2014-B-1		DRAWING NO. CS-9
CADD FILE C-CS09.dwg		DATE

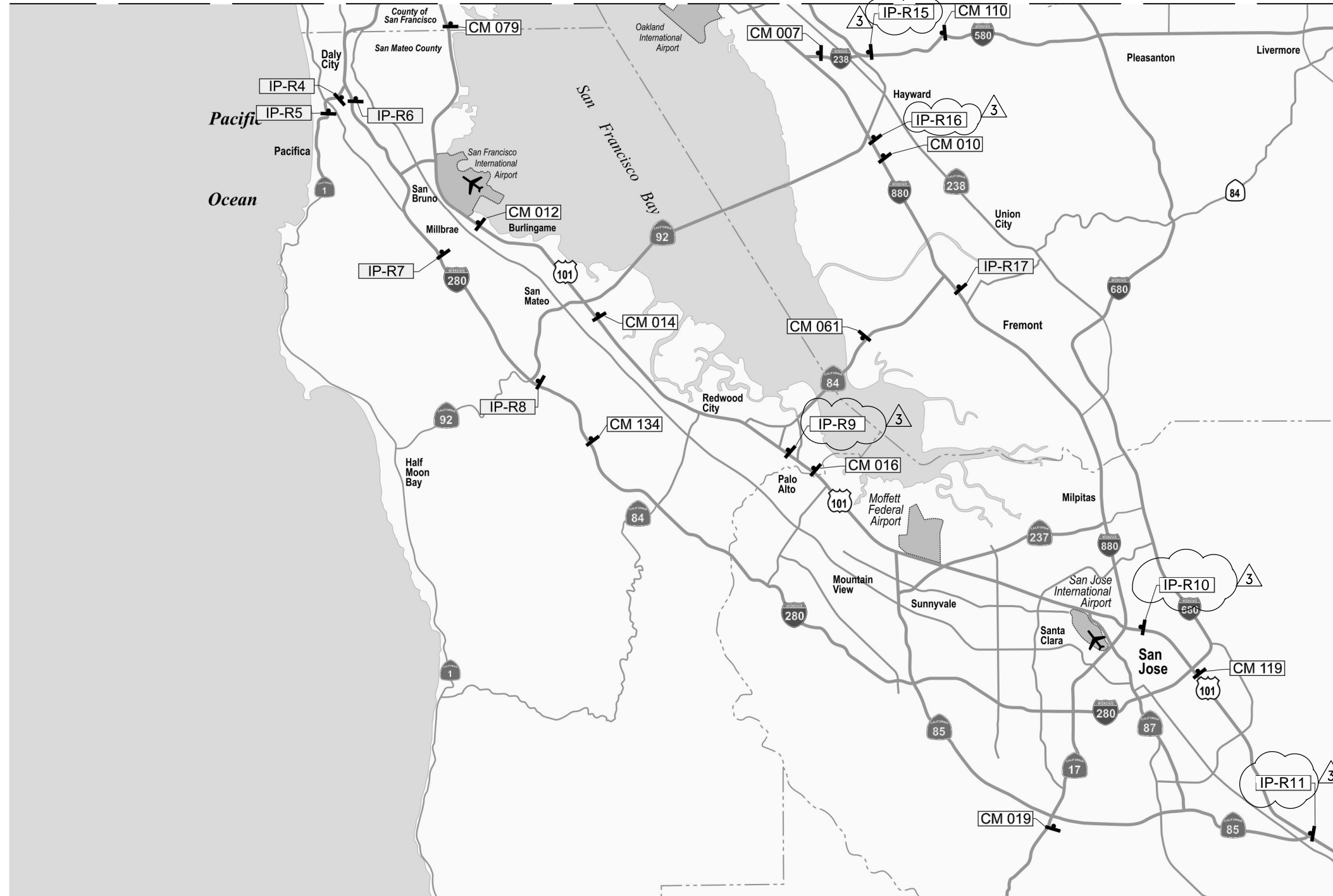
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DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
PCMS - REGIONAL  
GGB WEEKEND CLOSURE (9 OF 15)

MATCHLINE SEE DWG No CS-9



**NOTES:**

1. FOR ABBREVIATIONS, SEE DRAWING No. G-3.
2. FOR NOTES AND/OR LEGEND, SEE DRAWING No. CS-1.

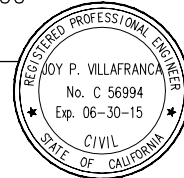
PCMS REGIONAL PLAN  
GGB WEEKEND CLOSURE

NO SCALE

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PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	PL 04/18/14
	REVISIONS	BY DATE
	CONTRACT NO. 2014-B-1	DRAWING NO. CS-10
	CADD FILE C-CS10.dwg	

APPROVED BY  
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STATE OF CALIFORNIA  
DISTRICT ENGINEER  
02-25-2014  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE  
MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
PCMS – REGIONAL  
GGB WEEKEND CLOSURE (10 OF 15)

DESIGN	BY R. LI	CHECKED J. VILLAFRANCA	JOY VILLAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILLAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

### SOUTH APPROACH DETOUR – STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

DRAWING No.	SIGN No.	SIGN CODE			PANEL SIZE	NUMBER OF POST & SIZE	No. OF SIGNS	SIGN MESSAGE		
		FEDERAL	CALIFORNIA	SPECIAL						
CS-4	8		SC3 (CA)		48"X18"	2-4"X6"	10	DETOUR WITH ARROW		
				SPEC 1	72"X42"		10	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE		
	9			SPEC 1	72"X42"		21	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE		
		M4-9			48"X36"	2-4"X6"	21	DETOUR WITH ARROW		
	10		SC3 (CA)		48"X18"	2-4"X6"	6	DETOUR WITH ARROW		
	11			SPEC 1	72"X42"		2	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE		
		M4-9			48"X36"	2-4"X6"	2	DETOUR WITH ARROW		
		R11-2			48"X36"	2-4"X6"	2	ROAD CLOSED		
	12	M4-8a			24"X18"	2-4"X6"	2	END DETOUR		
	<del>13</del>			SC3 (CA)		48"X18"	2-4"X6"	1	DETOUR WITH ARROW	NOT USED
	<del>13</del>			SPEC 1	72"X42"		1	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE	NOT USED	
	<del>13</del>			SPEC 2	72"X42"		1	TO MARINA DISTRICT TURN LEFT ON DIVISADERO ST	NOT USED	
	<del>14</del>			SC3 (CA)		48"X18"	2-4"X6"	1	DETOUR WITH ARROW	NOT USED
<del>14</del>			SPEC 1	72"X42"		1	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE	NOT USED		
<del>14</del>			SPEC 3	72"X42"		1	TO RICHMOND DISTRICT TURN RIGHT ON CALIFORNIA ST	NOT USED		
	28	M4-9			48"X36"	2-4"X6"	1	DETOUR WITH ARROW		

### NORTH APPROACH DETOUR – STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

DRAWING No.	SIGN No.	SIGN CODE			PANEL SIZE	NUMBER OF POST & SIZE	No. OF SIGNS	SIGN MESSAGE
		FEDERAL	CALIFORNIA	SPECIAL				
CS-5, CS-6	8		SC3 (CA)		48"X18"	2-4"X6"	15	DETOUR WITH ARROW
				SPEC 1	72"X42"		15	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE
	9			SPEC 1	72"X42"		9	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE
		M4-9			48"X36"	2-4"X6"	9	DETOUR WITH ARROW
	10		SC3 (CA)		48"X18"	2-4"X6"	1	DETOUR WITH ARROW
	27			SPEC 1	72"X42"		3	GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE
M4-8				30"X15"	2-4"X6"	3	END DETOUR	
			SC18 (CA)		48"X48"	2-4"X6"	3	EXIT WITH ARROW
CS-6	12	M4-8a			24"X18"	2-4"X6"	1	END DETOUR

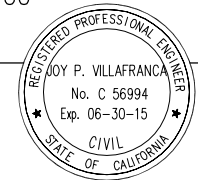
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DESIGN	BY D. AYELE	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY P. LAUGHLIN	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

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6	REVISED PER CCO 019	JPV	12/15/14
CONTRACT NO. 2014-B-1		DRAWING NO. CS-11	
CADD FILE C-CS11.dwg		DATE	

APPROVED BY  
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CIVIL  
DISTRICT ENGINEER

NO SCALE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
GGB WEEKEND BRIDGE CLOSURE  
SHEET 11 OF 15

### LOCAL PORTABLE CHANGEABLE MESSAGE SIGNS (IP PCMS) SCHEDULE

DRAWING No.	IP PCMS No.	COUNTY	FWY/ST DIR	ROUTE/ST	IP PCMS LOCATION	TWO WEEKS PRIOR TO CLOSURE IP PCMS MESSAGE			DURING CLOSURE READING			QUANTITY
						1ST FLASH	2ND FLASH	3RD FLASH	1ST FLASH	2ND FLASH	3RD FLASH	
CS-8	IP-1	MRN	SB	101	NORTH OF WALDO TUNNEL	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-8	IP-2	MRN	SB	101	NORTH OF SAUSALITO EXIT	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-8	IP-3	MRN	SB	101	SOUTH OF SAUSALITO EXIT	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-7	IP-4	SF	SB	101	SOUTH OF GGB TOLL PLAZA	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-7	IP-5	SF	SB	1	NORTH OF LAKE ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-6	SF	SB	1	NORTH OF CALIFORNIA ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L7	SF	EB	CALIFORNIA ST	EAST OF WEBSTER ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-8	SF	NB	101	SOUTH OF 101/80 INTERCHANGE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L9	SF	EB	GEARY BLVD	WEST OF MASONIC	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L11	SF	SB	LOMBARD ST	EAST OF OCTAVIA	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-12	SF	NB	VAN NESS AVE	JUST SOUTH OF LOMBARD ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-13	SF	WB	CALIFORNIA ST	WEST OF 9TH AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-14	SF	SB	VAN NESS AVE	JUST NORTH OF BUSH ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-15	SF	WB	GEARY BLVD	WEST OF 9TH AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-16	SF	NB	VAN NESS AVE	JUST NORTH OF TURK ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L17	SF	NB	LOMBARD ST	WEST OF GOUGH	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L18	SF	NB	LOMBARD ST	JUST NORTH OF STEINER ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-19	SF	SB	LINCOLN BLVD	JUST SOUTH OF PERSHING DR	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-20	SF	NB	25TH AVE	JUST NORTH OF LAKE ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1

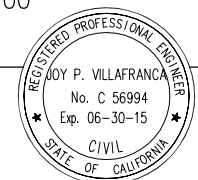
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DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
3	ADDENDUM No. 3	JCH	04/18/14
CONTRACT NO. 2014-B-1		DRAWING NO. CS-12	
CADD FILE C-CS12.dwg		DATE 02-25-2014	

APPROVED BY  
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CIVIL  
STATE OF CALIFORNIA

NO SCALE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
GGB WEEKEND BRIDGE CLOSURE  
SHEET 12 OF 15

## LOCAL PORTABLE CHANGEABLE MESSAGE SIGNS (IP PCMS) SCHEDULE

DRAWING No.	IP PCMS No.	COUNTY	FWY/ST DIR	ROUTE/ST	IP PCMS LOCATION	TWO WEEKS PRIOR TO CLOSURE IP PCMS MESSAGE			DURING CLOSURE READING			QUANTITY
						1ST FLASH	2ND FLASH	3RD FLASH	1ST FLASH	2ND FLASH	3RD FLASH	
CS-7	IP-L21	SF	WB	MARINA BLVD	JUST EAST OF BAKER ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-7	IP-L22	SF	WB	MARINA BLVD	JUST EAST OF SCOTT ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-7	IP-L23	SF	WB	MARINA BLVD	JUST EAST OF FILMORE ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-7	IP-24	SF	NB	1	JUST SOUTH OF ANZA ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	---	---	---	1
CS-7	IP-25	SF	NB	19TH AVE	NORTH OF MARTIN LUTHER KING DR	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-26	SF	NB	19TH AVE	NORTH OF LAWTON ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-27	SF	NB	WEBSTER ST	SOUTH OF LOMBARD ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L28	SF	NB	FRANKLIN ST	JUST NORTH OF O'FARRELL ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE ALT ROUTE	EXPECT DELAYS	1
CS-8	IP-L29	MRN	NB	BUNKER RD	SOUTH OF ALEXANDER AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE NB 101 FOR ALT ROUTE	EXPECT DELAYS	1
CS-8	IP-L30	MRN	WB	ALEXANDER AVE	EAST OF BUNKER RD	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	USE NB 101 FOR ALT ROUTE	EXPECT DELAYS	1
CS-7	IP-L31	MRN	SB	101	SPENCER AVE EXIT	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	ALL TRAFFIC MUST EXIT SPENCER AVE	EXPECT DELAYS	1
CS-7	IP-L32	MRN	SB	101	NORTH OF RODEO AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	LAST EXIT AT SPENCER /USE ALT ROUTE	EXPECT DELAYS	1
CS-8	IP-L33	MRN	SB	101	NORTH OF MARIN CITY/SAUSALITO	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	LAST EXIT AT MARIN CITY /USE ALT ROUTE	EXPECT DELAYS	1
CS-8	IP-L34	MRN	SB	1	NORTH OF ROUTE 101/1 INTERCHANGE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	EXPECT DELAYS	GOLDEN GATE BR CLOSED	LAST EXIT AT MARIN CITY /USE ALT ROUTE	EXPECT DELAYS	1

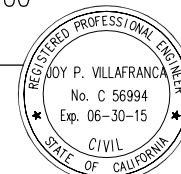
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DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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*Joy P. Villafranca*  
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FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	JCH 04/18/14
REVISIONS		BY DATE
CONTRACT NO.	2014-B-1	DRAWING NO. CS-13
CADD FILE	C-CS13.dwg	DATE 02-25-2014

APPROVED BY  
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Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

NO SCALE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
GGB WEEKEND BRIDGE CLOSURE  
SHEET 13 OF 15



## REGIONAL PORTABLE CHANGEABLE MESSAGE SIGNS (IP PCMS) SCHEDULE

DRAWING No.	IP PCMS No.	COUNTY	FWY/ST DIR	ROUTE/ST	IP PCMS LOCATION	TWO WEEKS PRIOR TO CLOSURE IP PCMS MESSAGE		DURING CLOSURE READING		QUANTITY
						1ST FLASH	2ND FLASH	1ST FLASH	2ND FLASH	
CS-9	IP-R1	MRN	SB	101	1 MILE NORTH OF 101/580 JUNCTION	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO SF	1
CS-9	IP-R2	MRN	SB	101	1/2 MILE NORTH OF 101/580 JUNCTION	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO SF	1
CS-9	IP-R3	MRN	SB	101	JUST NORTH OF TIBURON BLVD/EAST BLITHEDALE AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO SF	1
CS-10	IP-R4	SM	NB	1	JUST NORTH OF CLARINADA AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO MARIN	1
CS-10	IP-R5	SM	NB	1	1/2 MILE SOUTH OF GATEWAY DR UNDERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO MARIN	1
CS-10	IP-R6	SM	NB	280	500' JUST SOUTH OF SERRAMONTE BLVD	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO MARIN	1
CS-10	IP-R7	SM	NB	280	JUST NORTH OF MILLBRAE AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO MARIN	1
CS-10	IP-R8	SM	NB	280	SOUTH OF 280/92 INTERCHANGE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO MARIN	1
CS-10	IP-R9	SM	NB	101	1/2 MILE SOUTH OF 84	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO MARIN	1
CS-10	IP-R10	SCL	NB	101	1 MILE SOUTH OF 101/880 JUNCTION	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-10	IP-R11	SCL	NB	101	1/2 MILE SOUTH OF 85	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-9	IP-R12	CC	WB	80	NEAR MCDONALD AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-9	IP-R13	ALA	WB	580	AT CHETWOOD ST OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-9	IP-R14	ALA	NB	880	880/980 SPLIT GORE AREA	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-10	IP-R15	ALA	WB	580	1/2 MILE EAST OF 238/580	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-10	IP-R16	ALA	NB	880	SOUTH OF 880/92 INTERCHANGE	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-10	IP-R17	ALA	NB	880	JUST SOUTH OF ROUTE 84	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 TO MARIN	1
CS-9	IP-R18	MRN	WB	580	1/4 MILE EAST OF SIR FRANCIS DRAKE BLVD	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO SF	1
CS-9	IP-R19	MRN	WB	SIR FRANCIS DRAKE BLVD	1/4 MILE EAST OF 101	GOLDEN GATE BR CLOSURE MONTH XX-XX	FRI _ PM THRU MON _ AM	GOLDEN GATE BR CLOSED	USE 580 BAY BR TO SF	1

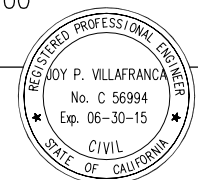
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



NO.	ADDENDUM No. 3	JCH 04/18/14
REVISIONS		BY DATE
CONTRACT NO.	2014-B-1	DRAWING NO. CS-14
CADD FILE	C-CS14.dwg	DATE 02-25-2014

APPROVED BY  
*Ewa Z. Bauer*  
REGISTERED PROFESSIONAL ENGINEER  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

CONSTRUCTION AREA SIGNS  
GGB WEEKEND BRIDGE CLOSURE  
SHEET 14 OF 15

NO SCALE

### REGIONAL CHANGEABLE MESSAGE SIGNS (CMS) SCHEDULE

DRAWING No.	CMS No.	COUNTY	FWY/ST DIR	ROUTE/ST	CMS LOCATION	THREE WEEKS PRIOR TO CLOSURE MESSAGE	TWO WEEKS PRIOR TO CLOSURE MESSAGE	DURING CLOSURE MESSAGE	
3	CS-9	CM 002	MRN	SB	101	SOUTH OF SAN PEDRO RD UNDERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 BAY BR TO SF
	CS-10	CM 007	ALA	SB	238	SOUTH OF ASHLAND AVE UNDERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN
	CS-10	CM 010	ALA	NB	880	NORTH OF INDUSTRIAL PKWY	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN
	CS-10	CM 012	SM	NB	101	NORTH OF BROADWAY OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-10	CM 014	SM	NB	101	SOUTH OF HILLSDALE BLVD	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-10	CM 016	SM	NB	101	NORTH OF EMBARCADERO RD OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-10	CM 019	SCL	NB	85	NORTH OF RUSSO RD PEDESTRIAN OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN
	CS-9	CM 029	SOL	WB	80	WEST OF WEIGH STATION	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 BAY BR TO SF
	CS-9	CM 042	SF	NB	101	NORTH OF 23RD ST OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-10	CM 061	ALA	SB	84	AT KGO STATION	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-9	CM 064	ALA	WB	80	AT SAN FRANCISCO INCLINE BEGINNING OF BRIDGE	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-9	CM 069	ALA	NB	880	OVER 5TH ST	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN
	CS-9	CM 070	ALA	WB	80	WEST OF ROUTE 13 (ASHBY AVE)	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN
	CS-9	CM 079	SF	NB	101	NORTH OF CANDLESTICK EXIT	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-9	CM 080	SF	NB	280	NORTHBOUND ON MISSION ST OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN
	CS-9	CM 090	CC	WB	80	EAST OF APPIAN WY	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 BAY BR TO SF
	CS-9	CM 092	CC	NB	680	SOUTH OF RUDGEAR UNDERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 BAY BR TO SF
CS-9	CM 096	ALA	WB	24	SHATTUCK AVE AND 55TH	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN	
CS-10	CM 110	ALA	WB	580	JUST EAST OF CASTRO VALLEY BLVD	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN	
CS-10	CM 119	SCL	NB	280	SOUTH OF TULLY RD OVERCROSSING	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE 580 TO MARIN	
CS-10	CM 134	SM	NB	280	JUST NORTH OF MILLBRAE AVE	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSURE MONTH XX-XX	GOLDEN GATE BR CLOSED USE BAY BR 580 TO MARIN	

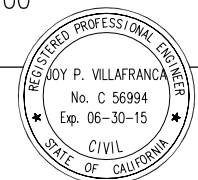
NO WORK THIS SHEET FOR REFERENCE ONLY

NO SCALE

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS AND RESOLVE ALL FIELD CONFLICTS BEFORE SUBMITTING WORKING DRAWINGS AND ORDERING AND FABRICATING ANY MATERIAL.

**AECOM**  
2101 WEBSTER STREET, SUITE 1900  
OAKLAND, CA 94612

*Joy P. Villafranca*  
REGISTERED ENGINEER  
FEBRUARY 25, 2014  
PLANS APPROVAL DATE



ADDENDUM No. 3	PL 04/17/14
NO. REVISIONS	BY DATE
CONTRACT NO. 2014-B-1	DRAWING NO. CS-15
CADD FILE C-CS15.dwg	DATE

APPROVED BY  
*Ewa Z. Bauer*  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER

 <b>GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER</b>
<b>CONSTRUCTION AREA SIGNS GGB WEEKEND BRIDGE CLOSURE SHEET 15 OF 15</b>

DESIGN	BY R. LI	CHECKED J. VILAFRANCA	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY R. LI	CHECKED J. VILAFRANCA	
QUANTITIES	BY *	CHECKED *	



## Attachment B5: Stage Construction – Long-Term Project

**NOTE:**

THE NUMBERING OF THE CONSTRUCTION WORK ITEMS ON THE STAGE CONSTRUCTION SHEETS ARE NOT INTENDED TO INDICATE THE WORK SEQUENCE.

**LEGEND:**

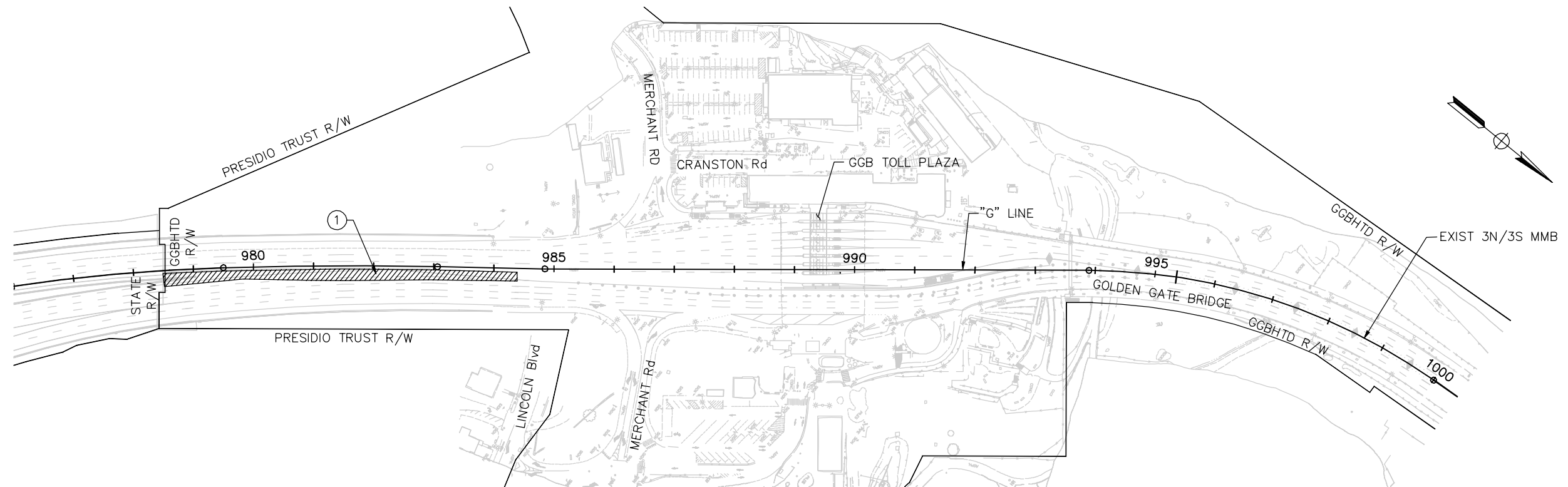
 WORK AREA

**NOTES:**

1. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.


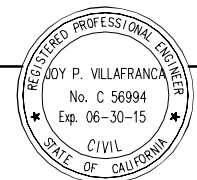
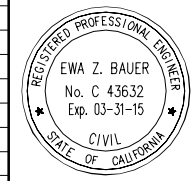

**STAGE 1 CONSTRUCTION – SOUTH APPROACH**

- ① INSTALL CONCRETE BARRIER



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

	DESIGN	BY *	CHECKED *	<b>JOY VILAFRANCA</b> PROJECT ENGINEER	 2101 WEBSTER ST. STE. 1900 OAKLAND, CA 94612					 APPROVED BY EWA Z. BAUER No. C 43632 Exp. 03-31-15 CIVIL STATE OF CALIFORNIA DISTRICT ENGINEER	 GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT <b>GOLDEN GATE BRIDGE MOVEABLE          MEDIAN BARRIER</b>			
	DETAILS	BY *	CHECKED *											
	QUANTITIES	BY *	CHECKED *											
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					PLANS APPROVAL DATE		NO. _____ REVISIONS _____ CONTRACT NO. 2013-B-3 CADD FILE C-SC01-LT.dwg	BY DATE _____ DRAWING NO. SC-1	DATE _____	STAGE CONSTRUCTION – SOUTH APPROACH STAGE 1 – LONG TERM SHEET 1 OF 3				

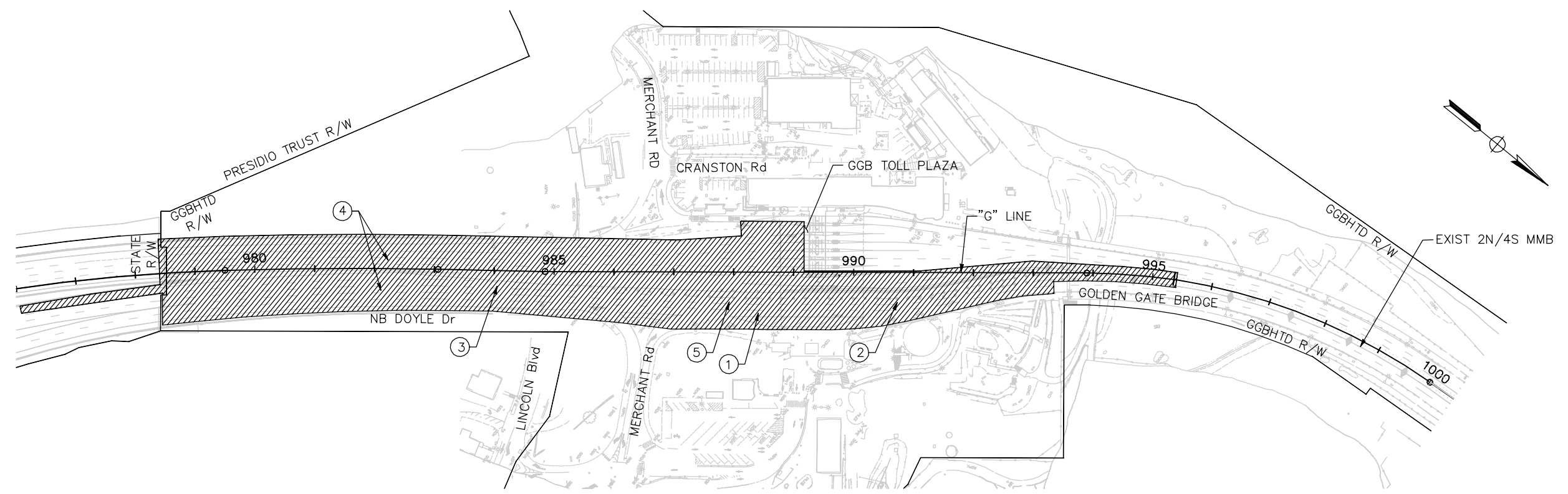
REV. NO.	SHEET NO.	TOTAL SHEETS
*	*	*

**NOTE:**

1. FOR NOTES AND/OR LEGEND, SEE DRAWING No. SC-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.

**STAGE 2 CONSTRUCTION – SOUTH APPROACH**

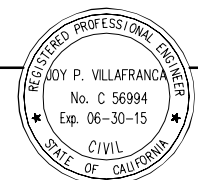
- |   |                                      |
|---|--------------------------------------|
| ① | REMOVE EXISTING STRIPING AND MARKERS |
| ② | REMOVE PYLON MOUNTING HOLES          |
| ③ | INSTALL PYLON MOUNTING HOLES.        |
| ④ | INSTALL TRAFFIC STRIPING.            |
| ⑤ | INSTALL BTM GUIDE STRIPING.          |



THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

**AECOM**  
2101 WEBSTER ST. STE, 1900  
OAKLAND, CA 94612



REGISTERED CIVIL ENGINEER  
PLANS APPROVAL DATE

NO.	REVISIONS	BY	DATE

CONTRACT NO. 2013-B-3  
CADD FILE C-SC02-LT.dwg

APPROVED BY  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
DISTRICT ENGINEER  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

STAGE CONSTRUCTION – SOUTH APPROACH  
STAGE 2 – LONG TERM  
SHEET 2 OF 3

DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

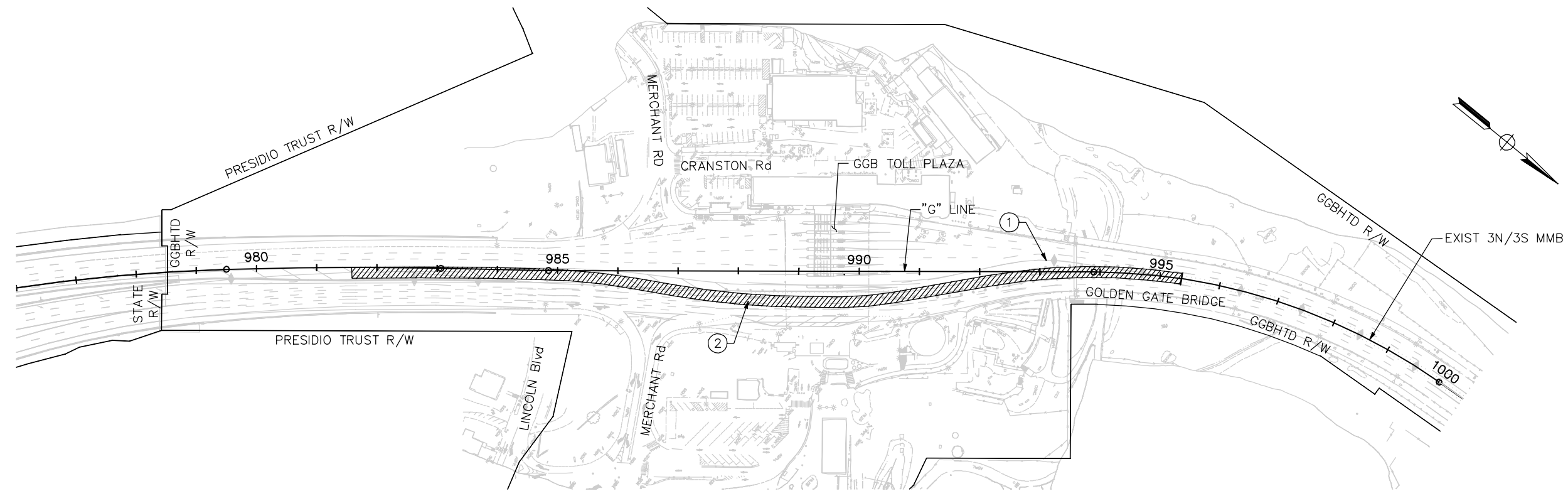
REV. NO.	SHEET NO.	TOTAL SHEETS
*	*	*

NOTE:

1. FOR NOTES AND/OR LEGEND, SEE DRAWING No. SC-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.

STAGE 3 CONSTRUCTION – SOUTH APPROACH

- |   |                                      |
|---|--------------------------------------|
| ① | REALIGN EXISTING MMB.                |
| ② | INSTALL MMB AND CONNECT TO EXISTING. |
















THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY.

SCALE: 1" = 100'

<table border="1"> <tr> <td>DESIGN</td> <td>BY *</td> <td>CHECKED *</td> <td rowspan="3">JOY VILAFRANCA PROJECT ENGINEER</td> </tr> <tr> <td>DETAILS</td> <td>BY *</td> <td>CHECKED *</td> </tr> <tr> <td>QUANTITIES</td> <td>BY *</td> <td>CHECKED *</td> </tr> </table>	DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER	DETAILS	BY *	CHECKED *	QUANTITIES	BY *	CHECKED *	<p>2101 WEBSTER ST. STE. 1900 OAKLAND, CA 94612</p>			<table border="1"> <tr> <td>NO.</td> <td>REVISIONS</td> <td>BY</td> <td>DATE</td> </tr> <tr> <td colspan="2">CONTRACT NO. 2013-B-3</td> <td colspan="2">DRAWING NO. SC-3</td> </tr> <tr> <td colspan="2">CADD FILE C-SC03-LT.dwg</td> <td colspan="2">DATE</td> </tr> </table>	NO.	REVISIONS	BY	DATE	CONTRACT NO. 2013-B-3		DRAWING NO. SC-3		CADD FILE C-SC03-LT.dwg		DATE		<p>APPROVED BY</p> <p>DISTRICT ENGINEER</p>	<p>GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT</p> <p><b>GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER</b></p> <p>STAGE CONSTRUCTION – SOUTH APPROACH STAGE 3 – LONG TERM SHEET 3 OF 3</p>
	DESIGN	BY *	CHECKED *		JOY VILAFRANCA PROJECT ENGINEER																							
DETAILS	BY *	CHECKED *																										
QUANTITIES	BY *	CHECKED *																										
NO.	REVISIONS	BY	DATE																									
CONTRACT NO. 2013-B-3		DRAWING NO. SC-3																										
CADD FILE C-SC03-LT.dwg		DATE																										
<p>ORIGINAL SCALE IN INCHES FOR REDUCED PLANS</p>		<p>REGISTERED CIVIL ENGINEER</p> <p>PLANS APPROVAL DATE</p>																										

## Attachment B6: Traffic Handling Plans– Long-Term Project

**LEGEND:**

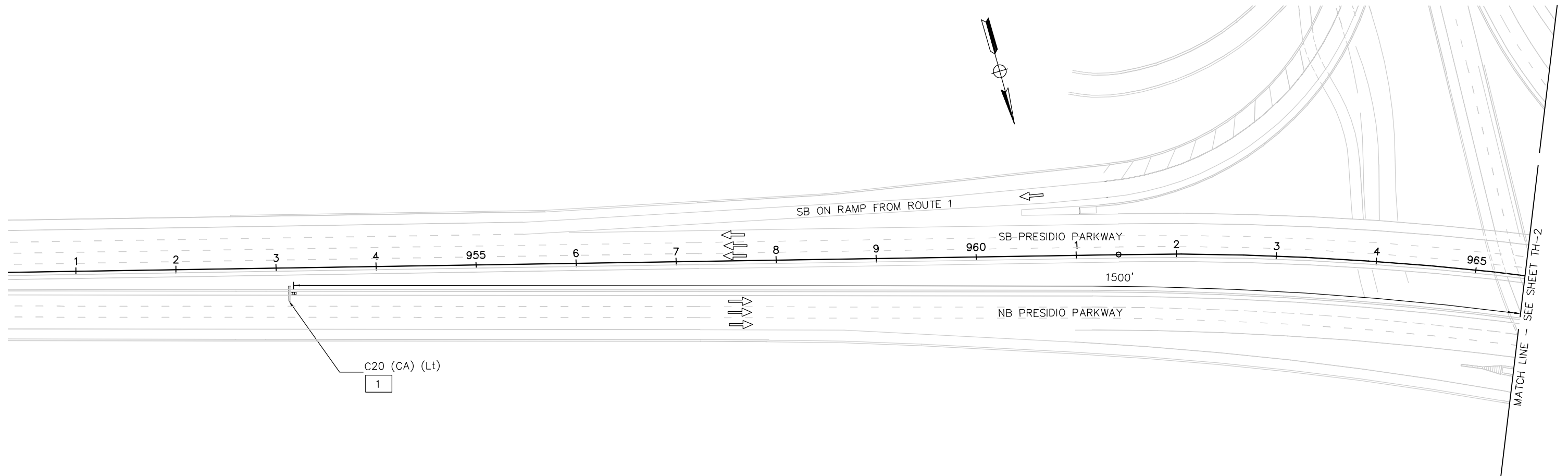
-  CONSTRUCT THIS STAGE
-  TRAFFIC DIRECTION DURING CONSTRUCTION ACTIVITY
-  SIGN
-  SIGN NUMBER
-  CRASH CUSHION
-  TRAFFIC CONES OR PORTABLE DELINEATOR
-  DISTRICT TRAFFIC PYLONS
-  PORTABLE FLASHING BEACON (PFB)
-  FLASHING ARROW SIGN (FAS) SUPPORT
-  FLASHING ARROW SIGN (FAS)
-  TEMPORARY RAILING (TYPE K)
-  FINAL PAVEMENT DELINEATION (SEE PD SHEETS)
-  TEMPORARY TRAFFIC STRIPE

**TEMPORARY ALTERNATIVE CRASH CUSHION (TL-3)  
NORTH APPROACH**

	TYPE	LENGTH	WIDTH
1	ABSORB 350 (TL-3)	32'	2'
2	ARRAY 'TB14'	22.5'	5'
3	QUADGUARD MODEL NO. OS3606	22'	3'


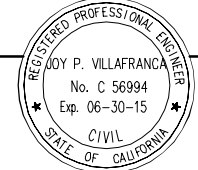
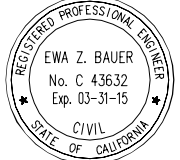
**NOTE:**

1. STATION AND OFFSETS ALONG TEMPORARY RAILING (TYPE K) ARE TO THE CENTER LINE OF RAILING.
2. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.



THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 50'

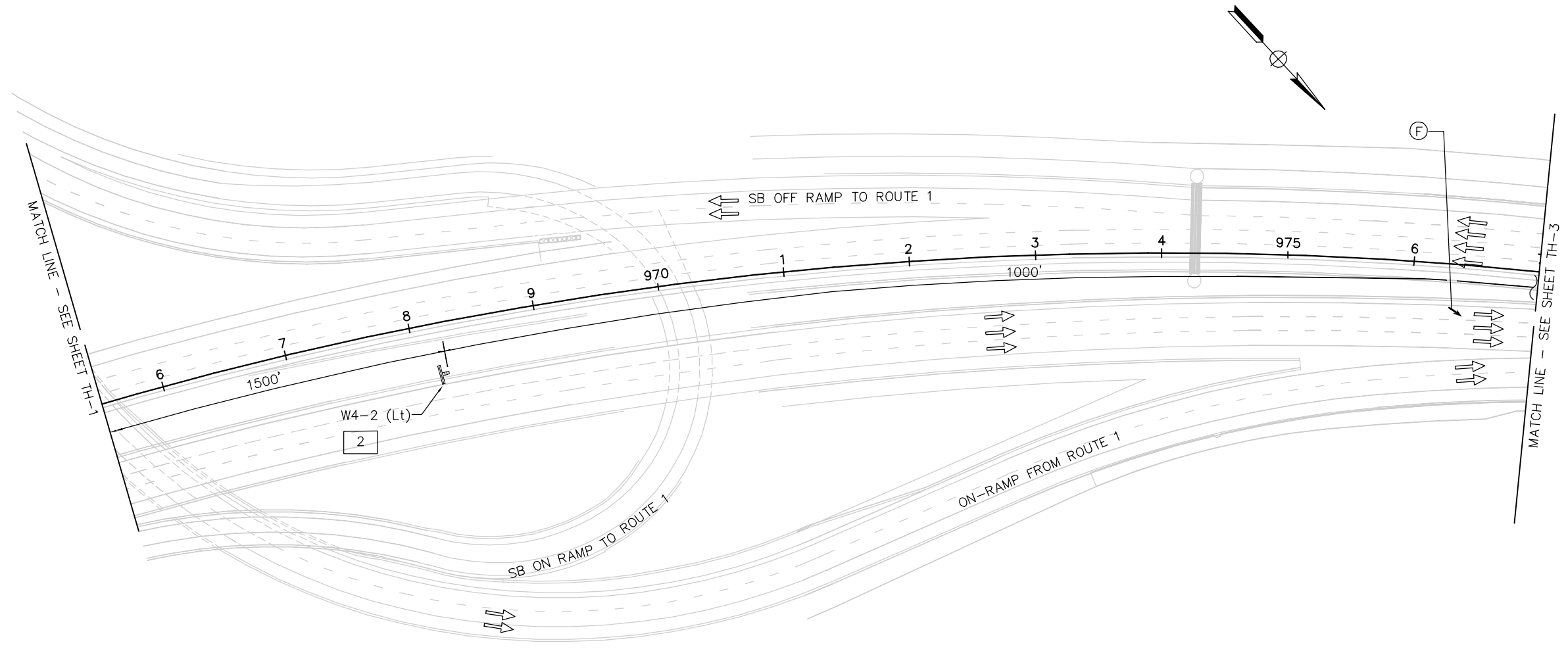
	DESIGN	BY *	CHECKED *																	
	DETAILS	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER																
	QUANTITIES	BY *	CHECKED *																	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0      1      2      3																
 2101 WEBSTER ST. STE, 1900 OAKLAND, CA 94612																				
																				
REGISTERED CIVIL ENGINEER																				
PLANS APPROVAL DATE																				
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	REVISIONS	BY	DATE													APPROVED BY  EWA Z. BAUER No. C 43632 Exp. 03-31-15 CIVIL STATE OF CALIFORNIA DISTRICT ENGINEER
NO.	REVISIONS	BY	DATE																	
		CONTRACT NO. 2013-B-3 CADD FILE C-TH01-LT.dwg		DRAWING NO. TH-1 DATE																
GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT <b>GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER</b> TRAFFIC HANDLING – SOUTH APPROACH STAGE 1 – LONG TERM SHEET 1 OF 3																				



REV. NO.	SHEET NO.	TOTAL SHEETS
*	*	*

**NOTE:**

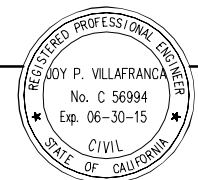
1. FOR NOTES AND/OR LEGEND, SEE DRAWING No. TH-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.



THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 50'

**AECOM**  
2101 WEBSTER ST. STE, 1900  
OAKLAND, CA 94612



REGISTERED CIVIL ENGINEER  
PLANS APPROVAL DATE

NO.	REVISIONS	BY	DATE

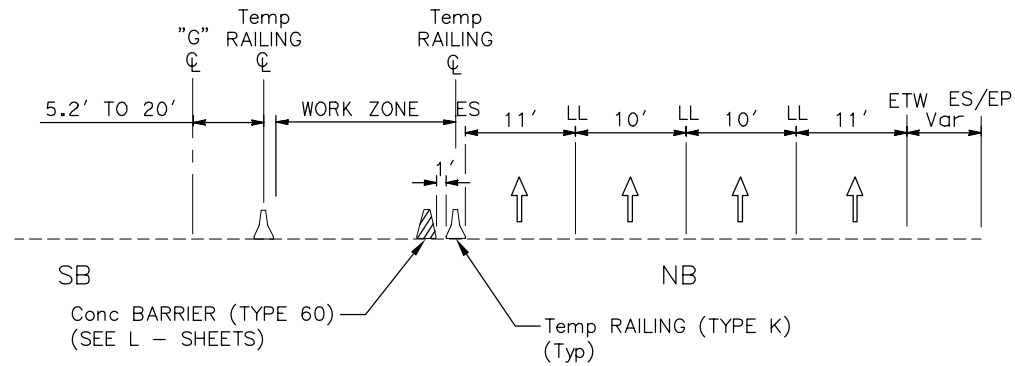
CONTRACT NO. 2013-B-3  
CADD FILE C-TH02-LT.dwg

APPROVED BY  
**EWA Z. BAUER**  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**  
TRAFFIC HANDLING – SOUTH APPROACH  
STAGE 1 – LONG TERM  
SHEET 2 OF 3

DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

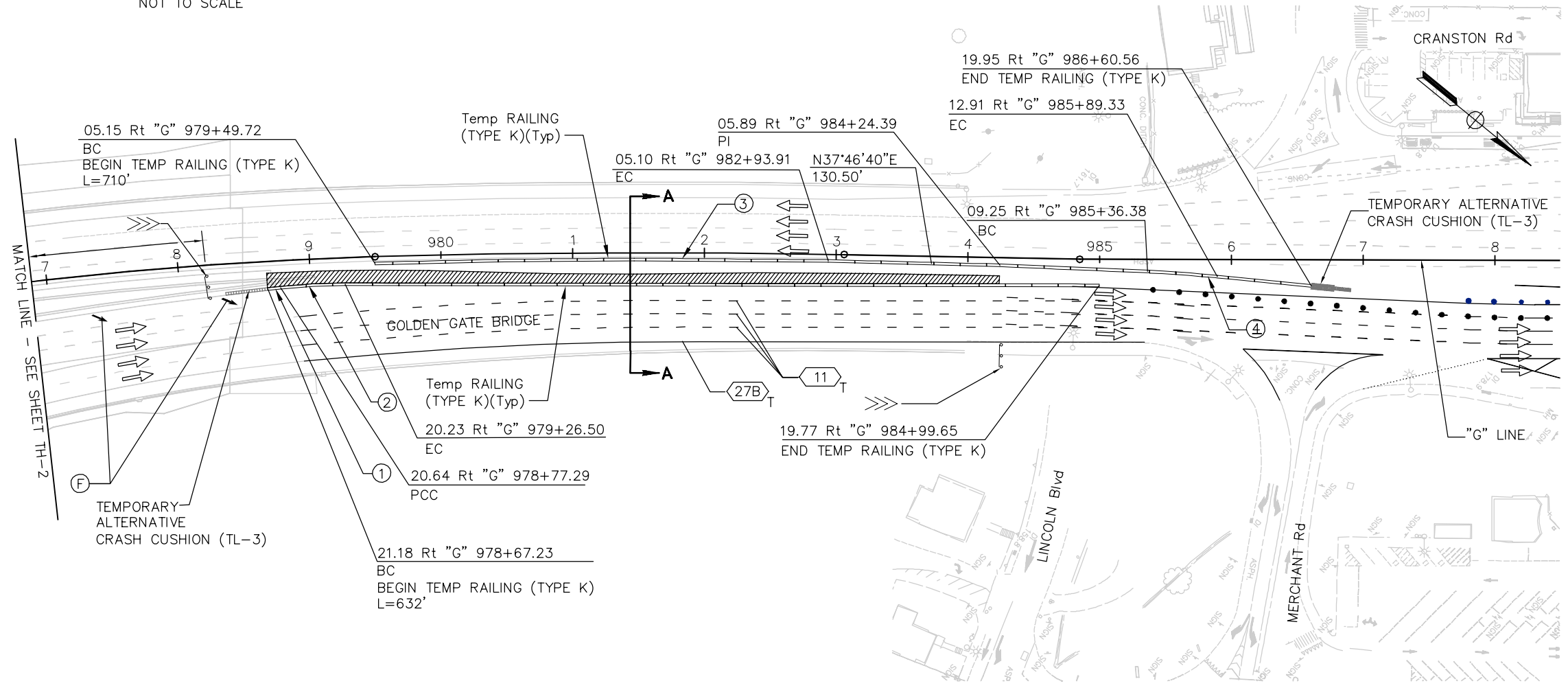
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3



CURVE DATA

NO.	R	Δ	T	L
①	3671.00'	00°09'22"	5.00'	10.00'
②	451.00'	06°12'44"	24.47'	48.90'
③	7379.00'	02°40'15"	172.01'	343.96'
④	894.00'	03°24'09"	26.55'	53.09'

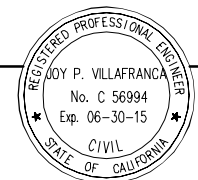
NOTE:  
 1. FOR NOTES AND/OR LEGEND, SEE DRAWING No. TH-1.  
 2. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.



THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

SCALE: 1" = 50'

**AECOM**  
 2101 WEBSTER ST. STE. 1900  
 OAKLAND, CA 94612



REGISTERED CIVIL ENGINEER  
 JOY P. VILAFRANCA  
 PROJECT ENGINEER  
 PLANS APPROVAL DATE

NO.	REVISIONS	BY	DATE

CONTRACT NO. 2013-B-3  
 CADD FILE C-TH03-LT.dwg

APPROVED BY  
 REGISTERED PROFESSIONAL ENGINEER  
 EWA Z. BAUER  
 No. C 43632  
 Exp. 03-31-15  
 CIVIL  
 STATE OF CALIFORNIA  
 DISTRICT ENGINEER  
 DATE













GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**  
 SOUTH APPROACH TRAFFIC HANDLING  
 STAGE 1 - LONG TERM  
 SHEET 3 OF 3

DESIGN	BY *	CHECKED *	
DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 0 1 2 3

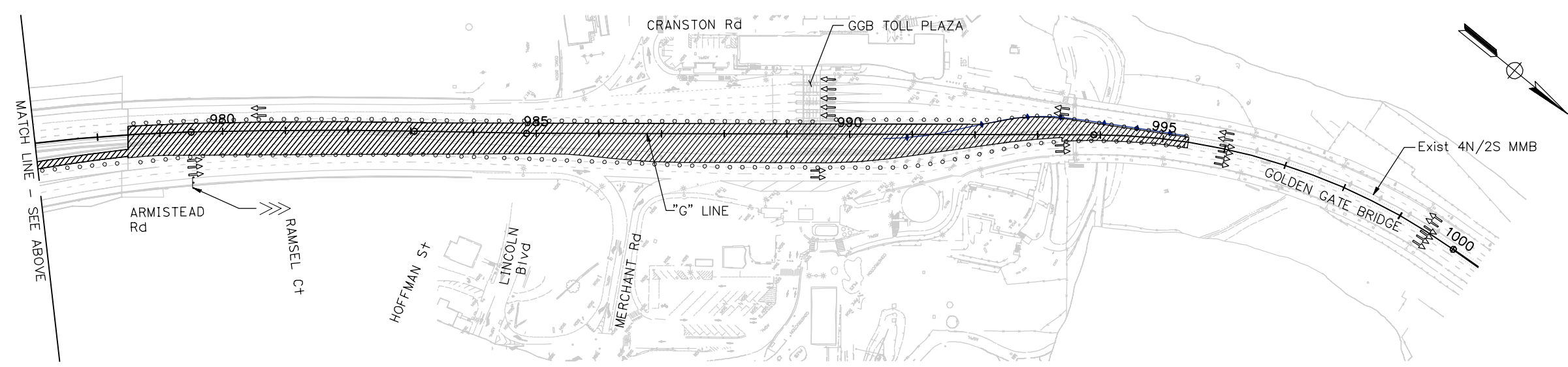
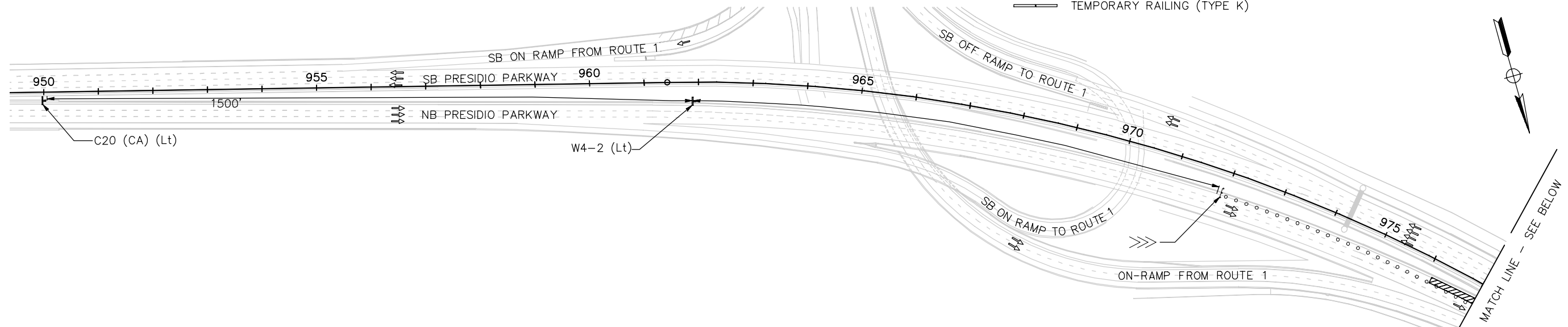
## Attachment B7: Traffic Control Plans– Long-Term Project

**LEGEND:**

-  CONSTRUCT THIS STAGE
-  TRAFFIC DIRECTION DURING CONSTRUCTION ACTIVITY
-  SIGN
-  SIGN NUMBER
-  CRASH CUSHION
-  TRAFFIC CONES
-  PORTABLE DELINEATOR
-  DISTRICT TRAFFIC PYLONS
-  PORTABLE FLASHING BEACON (PFB)
-  FLASHING ARROW SIGN (FAS) SUPPORT
-  FLASHING ARROW SIGN (FAS)
-  TEMPORARY RAILING (TYPE K)

**NOTES:**

1. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

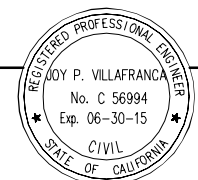
SCALE: 1" = 100'

DESIGN		BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS		BY *	CHECKED *	
QUANTITIES		BY *	CHECKED *	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				
0 1 2 3				

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OAKLAND, CA 94612

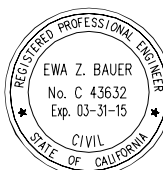
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE



NO.	REVISIONS	BY	DATE
CONTRACT NO. 2013-B-3		DRAWING NO. TC-1	
CADD FILE C-TC01-LT.dwg			


APPROVED BY



EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA

DISTRICT ENGINEER

DATE

 GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

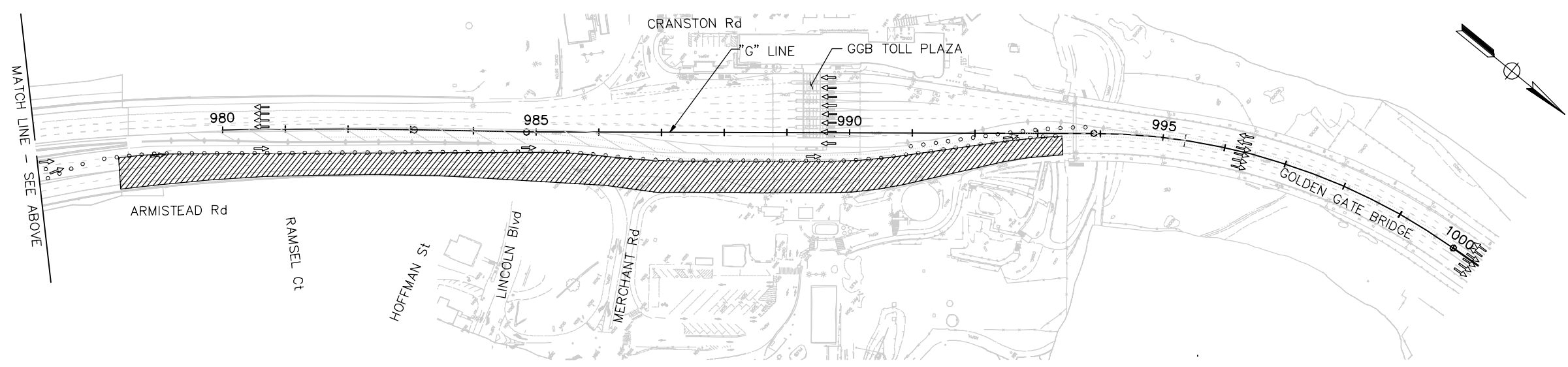
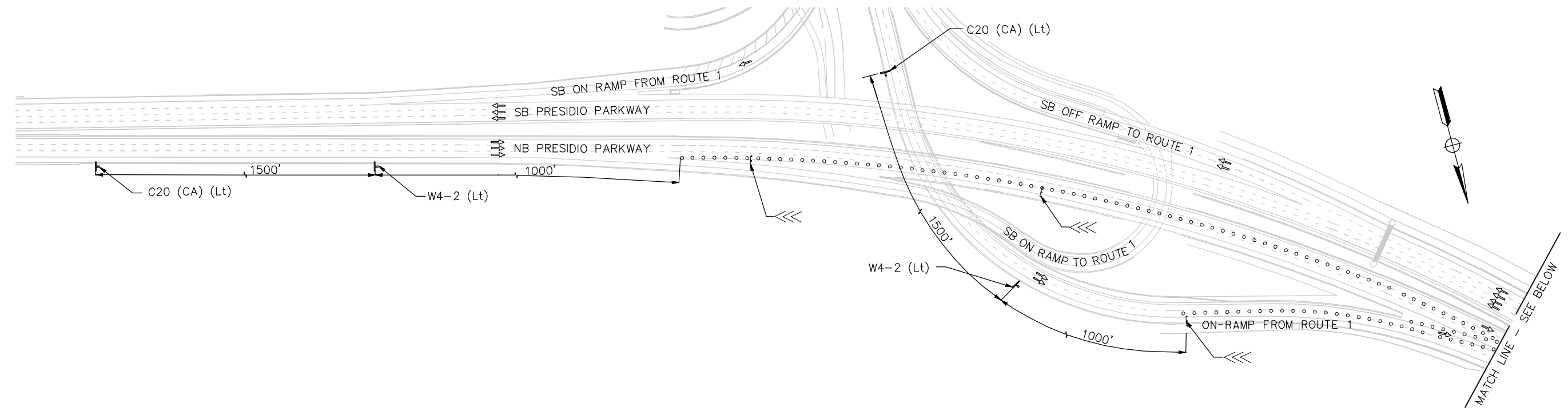
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – SOUTH APPROACH  
TWO NB AND SB LANES CLOSED  
LONG TERM – SHEET 1 OF 4

REV. NO.	SHEET NO.	TOTAL SHEETS
*	*	*

**NOTES:**

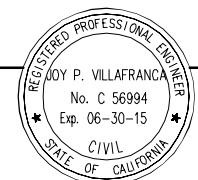
1. FOR NOTES AND LEGEND, SEE DRAWING No. TC-1.
2. FOR ABBREVIATIONS, SEE DRAWING No. IOP-1.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: 1" = 100'

**AECOM**  
2101 WEBSTER ST. STE, 1900  
OAKLAND, CA 94612



REGISTERED CIVIL ENGINEER  
PLANS APPROVAL DATE

NO.	REVISIONS	BY	DATE

CONTRACT NO. 2013-B-3  
CADD FILE C-TC02-LT.dwg

APPROVED BY  
**EWA Z. BAUER**  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

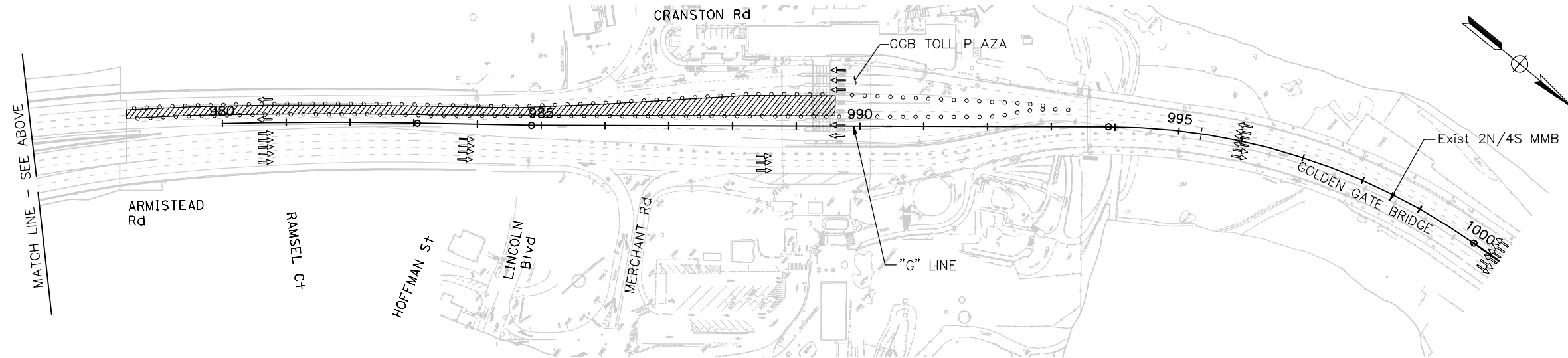
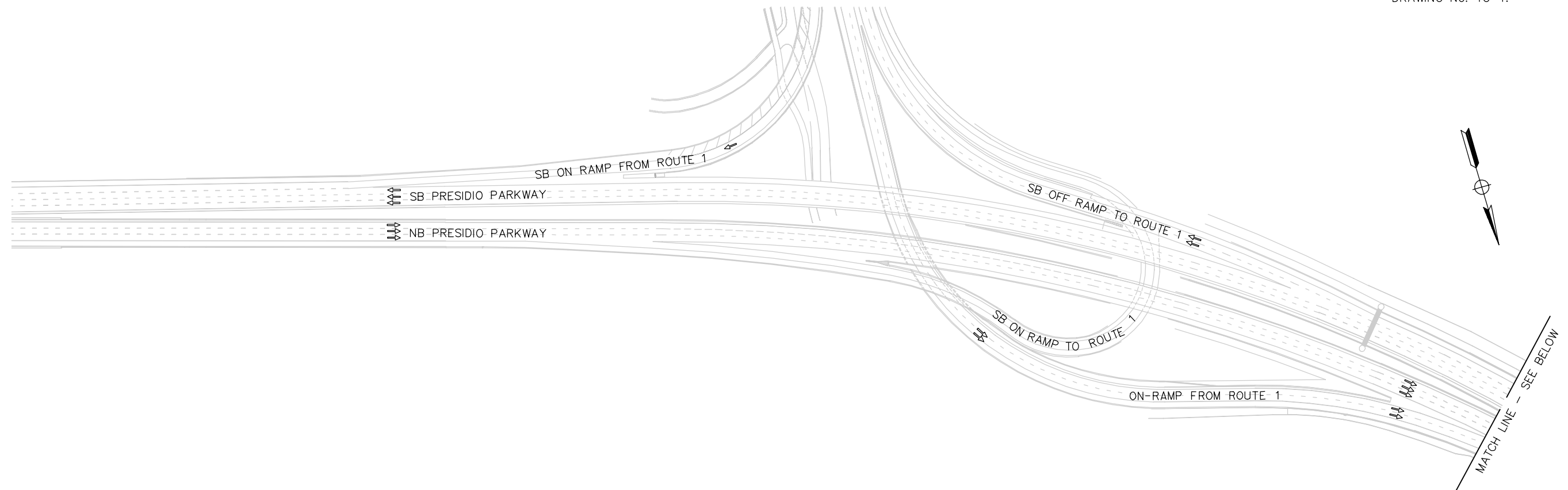
TRAFFIC CONTROL – SOUTH APPROACH  
THREE NB LANES CLOSED  
LONG TERM – SHEET 2 OF 4

DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

REV. NO.	SHEET NO.	TOTAL SHEETS
*	*	*

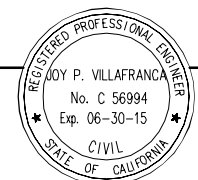
NOTE:  
FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE DRAWING No. TC-1.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: 1" = 100'

**AECOM**  
2101 WEBSTER ST. STE. 1900  
OAKLAND, CA 94612



REGISTERED CIVIL ENGINEER  
PLANS APPROVAL DATE

NO.	REVISIONS	BY	DATE

CONTRACT NO. 2013-B-3  
CADD FILE C-TC03-LT.dwg

APPROVED BY  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT

**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**

TRAFFIC CONTROL – SOUTH APPROACH  
TWO SB LANES CLOSED  
LONG TERM – SHEET 3 OF 4

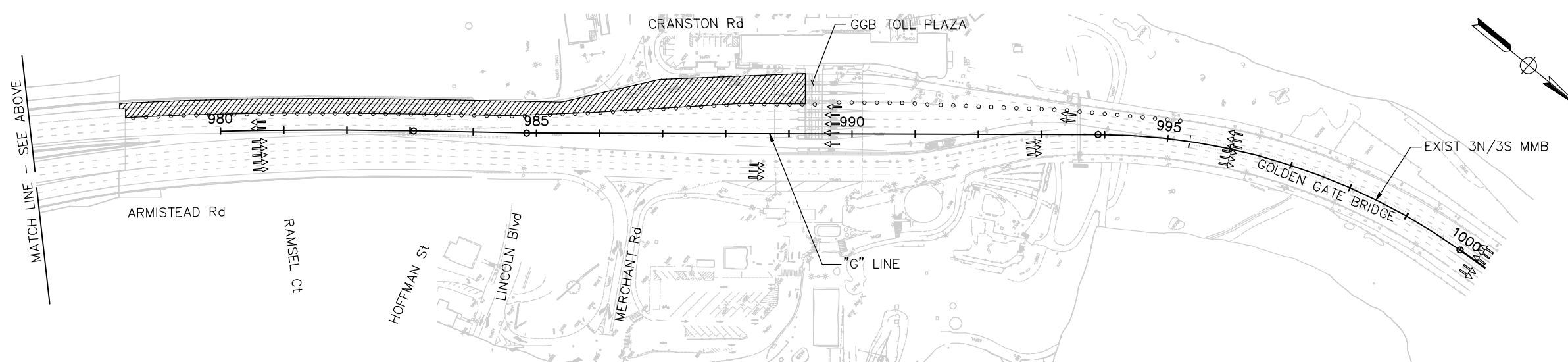
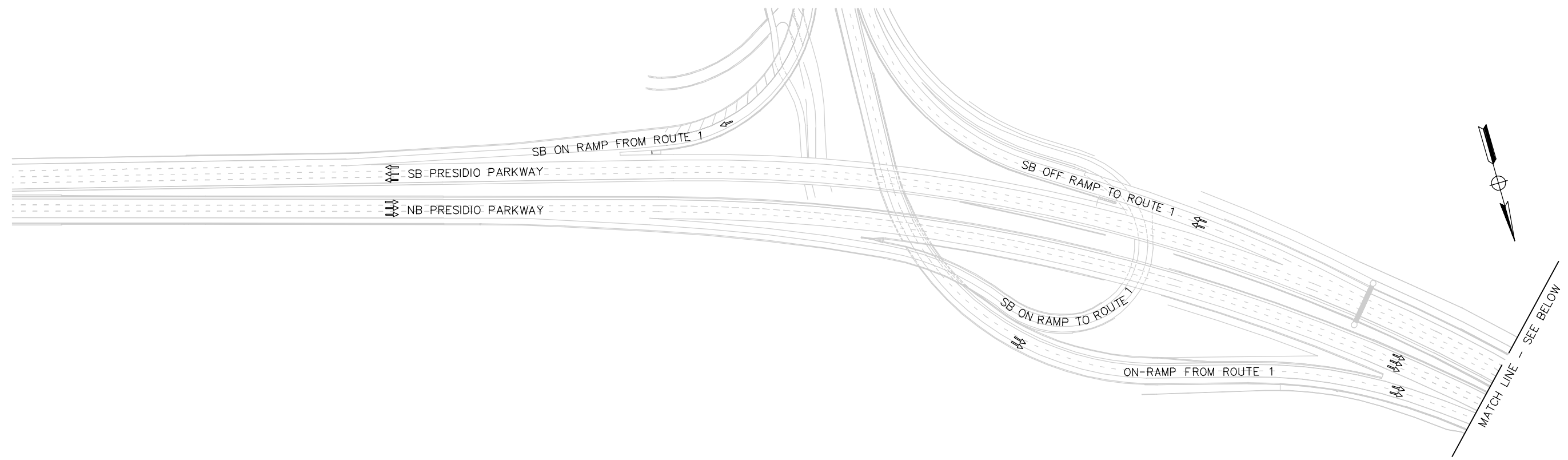
DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

REV. NO.	SHEET NO.	TOTAL SHEETS
*	*	*

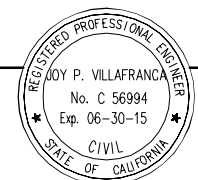
NOTE:  
FOR NOTES, ABBREVIATIONS AND/OR LEGEND, SEE DRAWING No. TC-1.



THIS PLAN ACCURATE FOR TRAFFIC CONTROL WORK ONLY.

SCALE: 1" = 100'

**AECOM**  
2101 WEBSTER ST. STE. 1900  
OAKLAND, CA 94612



REGISTERED CIVIL ENGINEER  
PLANS APPROVAL DATE

NO.	REVISIONS	BY	DATE

CONTRACT NO. 2013-B-3  
CADD FILE C-TC04-LT.dwg

APPROVED BY  
EWA Z. BAUER  
No. C 43632  
Exp. 03-31-15  
CIVIL  
STATE OF CALIFORNIA  
DISTRICT ENGINEER  
DATE

GOLDEN GATE BRIDGE, HIGHWAY AND TRANSPORTATION DISTRICT  
**GOLDEN GATE BRIDGE MOVEABLE MEDIAN BARRIER**  
TRAFFIC CONTROL – SOUTH APPROACH  
TWO SB LANES CLOSED  
LONG TERM – SHEET 4 OF 4

DESIGN	BY *	CHECKED *	JOY VILAFRANCA PROJECT ENGINEER
DETAILS	BY *	CHECKED *	
QUANTITIES	BY *	CHECKED *	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3

## Attachment C1: Lane and Ramp Closure Charts



Lane Closure Restriction for Designated Holidays and Special Days										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	<b>H</b> xx	xx	xx							
	<b>SD</b> xx									
x	xx	<b>H</b> xx	xx							
		<b>SD</b> xx								
	x	xx	<b>H</b> xx	xx						
			<b>SD</b> xx							
	x	xx	xx	<b>H</b> xx	xxx					
	x	xx	xx	<b>SD</b> xx	xxx					
				x	<b>H</b> xx					
				x	<b>SD</b> xx					
					x	<b>H</b> xx				
						<b>SD</b> xx				
						x	<b>H</b> xx	xx	xx	xx
							<b>SD</b> xx			

Legend:	
	Refer to lane requirement charts
x	The full width of the traveled way must be open for use by traffic after 2pm.
xx	The full width of the traveled way must be open for use by traffic.
xxx	The full width of the traveled way must be open for use by traffic until 7pm.
<b>H</b>	Designated holiday
<b>SD</b>	Special day

### Lane Closure Charts

Chart no. 1 Freeway/Expressway Lane Requirements																										
County: San Francisco/Marin							Route/Direction: US-101/NB							PM: SF 9.74/MRN 0.29												
Closure limits: US-101/Golden Gate Bridge, between 04-SF-101 PM 9.74 and 04-MRN-101 PM 0.29																										
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mon											#	#	#	#												
Tue-Thu	1	1	1	1	1						#	#	#	#												
Fri	1	1	1	1	1						#	#	#	#												
Sat	1	1	1	1	1	1	1																			
Sun																										

Legend:

- 1 Provide at least 1 through freeway lane open in direction of travel
- 2 Provide at least 2 adjacent through freeway lanes open in direction of travel
- # Northbound curb lane on bridge may be closed
- No lane closure permitted. Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

- At least one lane would be open to traffic throughout Project construction (except for 52-hour weekend closure)

Chart no. 2 Freeway/Expressway Lane Requirements																									
County: San Francisco/Marin							Route/Direction: US-101/SB							PM: SF 9.74/MRN 0.29											
Closure limits: US-101/Golden Gate Bridge, between 04-SF-101 PM 9.74 and 04-MRN-101 PM 0.29																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon											#	#	#	#	#							2	1	1	1
Tue-Thu	1	1	1	1	1						#	#	#	#	#							2	1	1	1
Fri	1	1	1	1	1						#	#	#	#	#								2	1	1
Sat	1	1	1	1	1	1	1																		
Sun																									

Legend:

- 1 Provide at least 1 through freeway lane open in direction of travel
- 2 Provide at least 2 adjacent through freeway lanes open in direction of travel
- # Southbound curb lane on bridge may be closed
- No lane closure permitted. Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

- At least one lane would be open to traffic throughout Project construction (except for 52-hour weekend closure)

<b>Chart no. 3</b>																															
<b>52-hour weekend closure</b>																															
<b>Complete Freeway/Expressway Closure Hours</b>																															
County: San Francisco/Marin								Route/Direction: US-101/NB SB								PM: SF 9.74/MRN 0.29															
Closure limits: Golden Gate Bridge																															
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24						
Mon	C	C	C	C																											
Fri																							2	1	1						
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C						
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C						
<p>Legend:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;">1</td> <td>Provide curb lane on the Bridge open in direction of travel</td> </tr> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;">2</td> <td>Provide at least 2 adjacent through freeway lanes open in direction of travel</td> </tr> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;">C</td> <td>Freeway may be closed completely.</td> </tr> <tr> <td style="border: 1px solid black; width: 30px; text-align: center;"></td> <td>No complete freeway or expressway closure is allowed.</td> </tr> </table>																								1	Provide curb lane on the Bridge open in direction of travel	2	Provide at least 2 adjacent through freeway lanes open in direction of travel	C	Freeway may be closed completely.		No complete freeway or expressway closure is allowed.
1	Provide curb lane on the Bridge open in direction of travel																														
2	Provide at least 2 adjacent through freeway lanes open in direction of travel																														
C	Freeway may be closed completely.																														
	No complete freeway or expressway closure is allowed.																														
<p>REMARKS:</p> <ul style="list-style-type: none"> <li>Detour traffic as per Drawing No. CS-7 and CS-8.</li> <li>Simultaneous closures of the following ramps are allowed:                      Northbound Route 101: Merchant Road off and on-ramps, Vista Point off- &amp; on-ramps and Sausalito Lateral off-ramp.                      Southbound Route 101: Merchant Road off-ramp, Sausalito Lateral on- and off- ramps, Spencer Ave on-ramp, Rodeo Ave. on-ramp, Donahue St. on-ramp.</li> <li>This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions</li> </ul>																															

<b>Chart no. 4</b>																									
<b>52-hour weekend closure</b>																									
<b>Complete Freeway/Expressway Closure Hours</b>																									
County: Marin						Route/Direction: US-101/SB						PM: MRN 0.29/MRN 3.57													
Closure limits: From Golden Gate Bridge to Sausalito/Marin City (Donahue Street) Interchange																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<b>Legend:</b>																									
<input type="checkbox"/> C Freeway and expressway may be closed completely.																									
<input type="checkbox"/> No complete freeway or expressway closure is allowed																									
<b>REMARKS:</b>																									
<ul style="list-style-type: none"> <li>• Detour traffic as per drawing no. CS-8.</li> <li>• Simultaneous closures of the following ramps are allowed:                  Southbound Route 101: Merchant Road off-ramp, Sausalito Lateral on and off-ramps,                  Spencer Ave on-ramp, Rodeo Ave on-ramp and Donahue St on-ramp.</li> <li>• This chart shall be used only during one                  52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>• Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance                  with Section 5-1.04, "Order of Work" of the Special Provisions</li> </ul>																									

<b>Chart no. 5</b>																									
<b>52-hour weekend closure</b>																									
<b>Complete Freeway/Expressway Closure Hours</b>																									
County: San Francisco								Route/Direction: US-101/NB								PM: SF 8.32/SF 9.74									
Closure limits: From Marina Blvd. to Golden Gate Bridge																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p><b>Legend:</b></p> <p><input type="checkbox"/> C Freeway and expressway may be closed completely.</p> <p><input type="checkbox"/> No complete freeway or expressway closure is allowed</p>																									
<p><b>REMARKS:</b></p> <ul style="list-style-type: none"> <li>• Detour traffic per drawing no. CS-7.</li> <li>• Simultaneous closures of the following ramps are allowed: Northbound Route 101: Marina Blvd on-ramp, Merchant Road on- &amp; off-ramps, Vista Point off- and on-ramps, and Sausalito Lateral off-ramp.</li> <li>• This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs</li> <li>• Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> </ul>																									

<b>Chart no. 6</b>																									
<b>52-hour weekend closure</b>																									
<b>Complete Freeway/Expressway Closure Hours</b>																									
County: San Francisco						Route/Direction: SR-1/NB						PM: SF 5.81/SF 7.04													
Closure limits: From Lake Street to US-101																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<b>Legend:</b> <input type="checkbox"/> C Freeway and expressway may be closed completely. <input type="checkbox"/> No complete freeway or expressway closure is allowed.																									
<b>REMARKS:</b> <ul style="list-style-type: none"> <li>• Detour traffic per drawing no. CS-7.</li> <li>• This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>• Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> </ul>																									

### Ramp Closure Charts

<b>Chart no. 7</b>																									
<b>Complete Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/NB							PM: MRN 0.065 & 0.084											
Closure limits: Vista Point On-Ramp/Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C															C	C	C	C	C
Fri	C	C	C	C	C	C															C	C	C	C	C
Sat	C	C	C	C	C	C																	C	C	C
Sun	C	C	C	C	C	C															C	C	C	C	C
Legend:																									
<input type="checkbox"/> C Ramp may be closed completely <input type="checkbox"/> No Ramp Closure Permitted																									
REMARKS:																									

<b>Chart no. 8</b>																									
<b>Complete Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/NB							PM: MRN 0.264											
Closure limits: Sausalito Lateral Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C															C	C	C	C	C
Fri	C	C	C	C	C	C															C	C	C	C	C
Sat	C	C	C	C	C	C																	C	C	C
Sun	C	C	C	C	C	C															C	C	C	C	C
Legend:																									
<input type="checkbox"/> C Ramp may be closed completely <input type="checkbox"/> No Ramp Closure Permitted																									
REMARKS:																									
<ul style="list-style-type: none"> <li>• Detour traffic to next off-ramp.</li> </ul>																									



<b>Chart no. 9</b>																									
<b>Complete Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/SB							PM: MRN 0.170											
Closure limits: Sausalito Lateral On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C																		C	C
Fri	C	C	C	C	C	C																			C
Sat	C	C	C	C	C	C	C	C	C															C	C
Sun	C	C	C	C	C	C	C	C	C															C	C
Legend:																									
<input type="checkbox"/> C Ramp may be closed completely <input type="checkbox"/> No Ramp Closure Permitted																									
REMARKS:																									
<ul style="list-style-type: none"> <li>Detour traffic per Drawing No. TC-18.</li> </ul>																									

<b>Chart no. 10</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/NB							PM: MRN 0.65 &0.084											
Closure limits: Vista Point On-Ramp/Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend:																									
<input type="checkbox"/> C Ramp may be closed completely <input type="checkbox"/> No Ramp Closure Permitted																									
REMARKS:																									
<ul style="list-style-type: none"> <li>This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs</li> </ul>																									

<b>Chart no. 11</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/NB							PM: MRN 0.264											
Closure limits: Sausalito Lateral Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely.</p> <p><input type="checkbox"/> No Ramp Closure Permitted.</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-8.</li> </ul>																									

<b>Chart no. 12</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/SB							PM: MRN 1.71											
Closure limits: Spencer Ave. On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely</p> <p><input type="checkbox"/> No Ramp Closure Permitted</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used during only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-8.</li> </ul>																									

<b>Chart no. 13</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/SB							PM: MRN 0.235											
Closure limits: Sausalito Lateral Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely</p> <p><input type="checkbox"/> No Ramp Closure Permitted</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-8.</li> </ul>																									

<b>Chart no. 14</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/SB							PM: MRN 0.170											
Closure limits: Sausalito Lateral On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely.</p> <p><input type="checkbox"/> No Ramp Closure Permitted.</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-8.</li> </ul>																									

<b>Chart no. 15</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/SB							PM: MRN 2.56											
Closure limits: Rodeo Ave On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely.</p> <p><input type="checkbox"/> No Ramp Closure Permitted.</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-8.</li> </ul>																									

<b>Chart no. 16</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: Marin							Route/Direction: US-101/SB							PM: MRN 3.40											
Closure limits: Donahue Street On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely.</p> <p><input type="checkbox"/> No Ramp Closure Permitted.</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-8.</li> </ul>																									

<b>Chart no. 17</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: San Francisco					Route/Direction: US-101/NB										PM: SF 9.80 and 9.82										
Closure limits: Merchant Road Off-Ramp/On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely</p> <p><input type="checkbox"/> No Ramp Closure Permitted</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-7.</li> </ul>																									

<b>Chart no. 18</b>																									
<b>52-hour weekend closure</b>																									
<b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: San Francisco					Route/Direction: US-101/SB										PM: SF 9.82										
Closure limits: Merchant Road Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <p><input type="checkbox"/> C Ramp may be closed completely.</p> <p><input type="checkbox"/> No Ramp Closure Permitted.</p> <p>REMARKS:</p> <ul style="list-style-type: none"> <li>This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-7.</li> </ul>																									

## Attachment C2: Lane and Ramp Closure and Damage Summary and Calculations

Freeway Lane Closure and Damage Calculations

Lanes Open	Fwy Capacity
1	1,200
2	2,600
3	4,560
4	6,080

Chart 1: Northbound Golden Gate Bridge

Hours	Sunday		Monday-Thursday		Friday		Saturday	
	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open
0-1	708	1	509	1	407	1	1,514	2
1-2	480	1	221	1	381	1	501	1
2-3	394	1	135	1	209	1	378	1
3-4	246	1	131	1	129	1	185	1
4-5	175	1	173	1	111	1	167	1
5-6	218	1	384	1	322	1	300	1
6-7	450	1	818	1	891	1	708	1
7-8	866	1	2,367	2	2,201	2	1,121	1
8-9	1,196	1	3,239	3	3,152	3	2,031	2
9-10	1,567	2	2,757	3	2,873	3	3,361	3
10-11	2,876	3	1,968	2	2,551	2	4,008	3
11-12	3,281	3	2,471	2	3,480	3	4,214	3
12-13	3,935	3	2,396	2	4,334	3	4,262	3
13-14	3,013	3	2,842	3	4,425	3	3,321	3
14-15	2,565	2	3,965	3	4,639	4	3,745	3
15-16	3,230	3	4,095	3	4,312	3	3,835	3
16-17	3,721	3	4,284	3	4,530	3	4,439	3
17-18	3,650	3	5,203	4	5,079	4	3,730	3
18-19	2,663	3	5,210	4	4,007	3	2,794	3
19-20	2,053	2	3,349	3	3,203	3	2,698	3
20-21	1,818	2	2,529	2	2,066	2	2,698	3
21-22	1,684	2	2,074	2	1,494	2	2,058	2
22-23	1,112	1	1,061	1	1,361	2	2,060	2
23-24	720	1	845	1	1,142	1	1,281	2

- Notes:  
 1 = Provide at least one through freeway lane open in direction of travel  
 2 = Provide at least two through freeway lanes open in direction of travel  
 3 = Provide at least three through freeway lanes open in direction of travel  
 4 = Provide at least four through freeway lanes open in direction of travel

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 NB, Golden Gate Bridge  
 Locations Chart 1: Northbound Golden Gate Bridge  
 Traffic Date Construction Conditions Lane Closure  
 Condition Two lanes open to through traffic  
 Closure Overnight closure  
 Capacity 2,600 VPH per Lane

Hour of Day	Demand a	Capacity b	Cum Demand c	Cum Capacity d	Cum Queue e	Average Queue f	Time Interval g	Cum Delay h	Unit Delay Cost j	Total Cost Delay k
	a	b	a1+a2+..	b1+b2+..	c-d	(e1+e2)/2		f x g		h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
5 - 6 AM	384	2,600	384	2,600	0	0	60	0	\$0.19	\$0
6 - 7 AM	818	2,600	1,202	5,200	0	0	60	0	\$0.19	\$0
7 - 8 AM	2,367	2,600	3,569	7,800	0	0	60	0	\$0.19	\$0
8 - 9 AM	3,239	2,600	6,808	10,400	0	0	60	0	\$0.19	\$0
9 - 10 AM	2,757	2,600	9,565	13,000	0	0	60	0	\$0.19	\$0

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C=.19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)

Average delay cost of first 2 hours \$0  
 Delay Cost for 10 min = \$0 /12 = \$0

Average delay cost of first 5 hours \$0  
 Delay Cost for 10 min = \$0 /30 = \$0

Freeway Lane Closure and Damage Calculations

Lanes Open	Fwy Capacity
1	1,200
2	2,600
3	4,560
4	6,080

Chart 2: Southbound Golden Gate Bridge

Hours	Sunday		Monday-Thursday		Friday		Saturday	
	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open
0-1	431	1	251	1	175	1	343	1
1-2	197	1	119	1	108	1	208	1
2-3	145	1	84	1	114	1	127	1
3-4	134	1	152	1	140	1	145	1
4-5	213	1	428	1	413	1	209	1
5-6	493	1	1,181	1	1,290	2	451	1
6-7	935	1	3,317	3	2,846	3	991	1
7-8	962	1	5,291	4	4,482	3	1,370	2
8-9	1,487	2	5,453	4	4,546	3	2,252	2
9-10	1,880	2	4,287	3	3,619	3	2,837	3
10-11	2,137	2	3,112	3	3,160	3	3,356	3
11-12	2,736	3	2,737	3	2,737	3	3,574	3
12-13	2,560	2	2,356	2	2,337	2	3,242	3
13-14	3,086	3	2,423	2	2,562	2	2,926	3
14-15	3,281	3	2,537	2	2,838	3	3,128	3
15-16	3,420	3	2,554	2	3,105	3	3,421	3
16-17	3,675	3	3,095	3	3,029	3	3,589	3
17-18	3,677	3	3,655	3	2,553	2	3,169	3
18-19	3,084	3	2,773	3	2,504	2	3,124	3
19-20	2,525	2	1,759	2	1,775	2	2,020	2
20-21	2,152	2	1,389	2	1,258	2	2,020	2
21-22	1,682	2	1,166	1	1,148	1	1,402	2
22-23	907	1	747	1	889	1	1,213	2
23-24	470	1	338	1	611	1	960	1

Notes:

- 1 = Provide at least one through freeway lane open in direction of travel
- 2 = Provide at least two through freeway lanes open in direction of travel
- 3 = Provide at least three through freeway lanes open in direction of travel
- 4 = Provide at least four through freeway lanes open in direction of travel

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 SB, Golden Gate Bridge  
 Locations Chart 2: Southbound Golden Gate Bridge  
 Traffic Date Construction Conditions Lane Closure  
 Condition Two lanes open to through traffic  
 Closure Overnight Closure  
 Capacity 2,600 VPH per Lane

Hour of Day	Demand a	Capacity b	Cum Demand c	Cum Capacity d	Cum Queue e	Average Queue f	Time Interval g	Cum Delay h	Unit Delay Cost j	Total Cost Delay k
	a	b	a1+a2+..	b1+b2+..	c-d	(e1+e2)/2	g	f x g	j	h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
5 - 6 AM	1,181	2,600	1,181	2,600	0	0	60	0	\$0.19	\$0
6 - 7 AM	3,317	2,600	4,498	5,200	0	0	60	0	\$0.19	\$0
7 - 8 AM	5,291	2,600	9,789	7,800	1,989	995	60	59,670	\$0.19	\$11,504
8 - 9 AM	5,453	2,600	15,242	10,400	4,842	3,416	60	264,600	\$0.19	\$51,013
9 - 10 AM	4,287	2,600	19,529	13,000	6,529	5,686	60	546,060	\$0.19	\$105,277

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C= .19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)

Average delay cost of first 2 hours \$0  
 delay cost for 10 min = \$0 /12 = \$0

Average delay cost of first 3 hours \$11,504  
 delay cost for 10 min = \$11,504 /18 = \$639



Freeway Lane Closure and Damage Calculations

Lanes Open	Fwy Capacity
0	0
1	1,200
2	2,600
3	4,560
4	6,080

Chart 1: Northbound Golden Gate Bridge

Hours	Sunday		Monday-Thursday		Friday		Saturday	
	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open
0-1	708	1	509	1	407	1	1,514	2
1-2	480	1	221	1	381	1	501	1
2-3	394	1	135	1	209	1	378	1
3-4	246	1	131	1	129	1	185	1
4-5	175	1	173	1	111	1	167	1
5-6	218	1	384	1	322	1	300	1
6-7	450	1	818	1	891	1	708	1
7-8	866	1	2,367	2	2,201	2	1,121	1
8-9	1,196	1	3,239	3	3,152	3	2,031	2
9-10	1,567	2	2,757	3	2,873	3	3,361	3
10-11	2,876	3	1,968	2	2,551	2	4,008	3
11-12	3,281	3	2,471	2	3,480	3	4,214	3
12-13	3,935	3	2,396	2	4,334	3	4,262	3
13-14	3,013	3	2,842	3	4,425	3	3,321	3
14-15	2,565	2	3,965	3	4,639	4	3,745	3
15-16	3,230	3	4,095	3	4,312	3	3,835	3
16-17	3,721	3	4,284	3	4,530	3	4,439	3
17-18	3,650	3	5,203	4	5,079	4	3,730	3
18-19	2,663	3	5,210	4	4,007	3	2,794	3
19-20	2,053	2	3,349	3	3,203	3	2,698	3
20-21	1,818	2	2,529	2	2,066	2	2,698	3
21-22	1,684	2	2,074	2	1,494	2	2,058	2
22-23	1,112	1	1,061	1	1,361	2	2,060	2
23-24	720	1	845	1	1,142	1	1,281	2

Notes:  
 1 = Provide at least one through freeway lane open in direction of travel  
 2 = Provide at least two through freeway lanes open in direction of travel  
 3 = Provide at least three through freeway lanes open in direction of travel  
 4 = Provide at least four through freeway lanes open in direction of travel

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 NB, Golden Gate Bridge  
 Locations Chart 1: Northbound Golden Gate Bridge  
 Traffic Data Construction Conditions Lane Closure  
 Condition Zero lanes open to through traffic  
 Closure Weekend closure  
 Capacity 0 VPH per Lane

Hour of Day	Demand a	Capacity b	Cum Demand c	Cum Capacity d	Cum Queue e	Average Queue f	Time Interval g	Cum Delay h	Unit Delay Cost j	Total Cost k
	VEH	VEH	a1+a2+...	b1+b2+...	c-d	(e1+e2)/2	MIN	f x g	\$	\$
4 - 5 AM	173	0	173	0	173	87	60	5190	\$0.19	\$1,001
5 - 6 AM	384	0	557	0	557	365	60	21,900	\$0.19	\$4,222
6 - 7 AM	818	0	1,375	0	1,375	966	60	79,860	\$0.19	\$15,396
7 - 8 AM	2,367	0	3,742	0	3,742	2,559	60	211,470	\$0.19	\$40,770
8 - 9 AM	3,239	0	6,981	0	6,981	5,362	60	475,200	\$0.19	\$91,615

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C=.19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)  
 Minimum Delay Cost: \$ 1,000 per 10 minutes

Time (Hours)	Minimum Delay Cost	Avg. Cost/ 10 Minutes	Vol. Based Delay Cost	Avg. Cost/ 10 Minutes	Final Delay Cost
1	\$ 6,000	\$ 1,000	\$ 1,001	\$ 167	\$ 6,000
2	\$ 12,000	\$ 1,000	\$ 4,222	\$ 704	\$ 12,000
3	\$ 18,000	\$ 1,000	\$ 15,396	\$ 2,566	\$ 18,000
4	\$ 24,000	\$ 1,000	\$ 40,770	\$ 6,795	\$ 40,770
5	\$ 30,000	\$ 1,000	\$ 91,615	\$ 15,269	\$ 91,615

Freeway Lane Closure and Damage Calculations

Lanes Open	Fwy Capacity
0	0
1	1,200
2	2,600
3	4,560
4	6,080

Chart 2: Southbound Golden Gate Bridge

Hours	Sunday		Monday-Thursday		Friday		Saturday	
	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open
0-1	431	1	251	1	175	1	343	1
1-2	197	1	119	1	108	1	208	1
2-3	145	1	84	1	114	1	127	1
3-4	134	1	152	1	140	1	145	1
4-5	213	1	428	1	413	1	209	1
5-6	493	1	1,181	1	1,290	2	451	1
6-7	935	1	3,317	3	2,846	3	991	1
7-8	962	1	5,291	4	4,482	3	1,370	2
8-9	1,487	2	5,453	4	4,546	3	2,252	2
9-10	1,880	2	4,287	3	3,619	3	2,837	3
10-11	2,137	2	3,112	3	3,160	3	3,356	3
11-12	2,736	3	2,737	3	2,737	3	3,574	3
12-13	2,560	2	2,356	2	2,337	2	3,242	3
13-14	3,086	3	2,423	2	2,562	2	2,926	3
14-15	3,281	3	2,537	2	2,838	3	3,128	3
15-16	3,420	3	2,554	2	3,105	3	3,421	3
16-17	3,675	3	3,095	3	3,029	3	3,589	3
17-18	3,677	3	3,655	3	2,553	2	3,169	3
18-19	3,084	3	2,773	3	2,504	2	3,124	3
19-20	2,525	2	1,759	2	1,775	2	2,020	2
20-21	2,152	2	1,389	2	1,258	2	2,020	2
21-22	1,682	2	1,166	1	1,148	1	1,402	2
22-23	907	1	747	1	889	1	1,213	2
23-24	470	1	338	1	611	1	960	1

Notes:

- 1 = Provide at least one through freeway lane open in direction of travel
- 2 = Provide at least two through freeway lanes open in direction of travel
- 3 = Provide at least three through freeway lanes open in direction of travel
- 4 = Provide at least four through freeway lanes open in direction of travel

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 SB, Golden Gate Bridge  
 Locations Chart 2: Southbound Golden Gate Bridge  
 Traffic Date Construction Conditions Lane Closure  
 Condition Zero lanes open to through traffic  
 Closure Weekend Closure  
 Capacity 0 VPH per Lane

Hour of Day	Demand a	Capacity b	Cum Demand c	Cum Capacity d	Cum Queue e	Average Queue f	Time Interval g	Cum Delay h	Unit Delay Cost j	Total Cost Delay k
	a	b	a1+a2+..	b1+b2+..	c-d	(e1+e2)/2	MIN	f x g		h x j
	VEH	VEH	VEH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
4 - 5 AM	428	0	428	0	428	214	60	12,840	\$0.19	\$2,475
5 - 6 AM	1,181	0	1,609	0	1,609	1,019	60	61,110	\$0.19	\$11,782
6 - 7 AM	3,317	0	4,926	0	4,926	3,268	60	257,160	\$0.19	\$49,579
7 - 8 AM	5,291	0	10,217	0	10,217	7,572	60	650,340	\$0.19	\$125,381
8 - 9 AM	5,453	0	15,670	0	15,670	12,944	60	1,230,900	\$0.19	\$237,309

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C=.19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)  
 Minimum Delay Cost: \$ 1,000 per 10 minutes

Time (Hours)	Minimum Delay Cost	Avg. Cost/ 10 Minutes	Vol. Based Delay Cost	Avg. Cost/ 10 Minutes	Final Delay Cost
1	\$ 6,000	\$ 1,000	\$ 2,475	\$ 413	\$ 6,000
2	\$ 12,000	\$ 1,000	\$ 11,782	\$ 1,964	\$ 12,000
3	\$ 18,000	\$ 1,000	\$ 49,579	\$ 8,263	\$ 49,579
4	\$ 24,000	\$ 1,000	\$ 125,381	\$ 20,897	\$ 125,381
5	\$ 30,000	\$ 1,000	\$ 237,309	\$ 39,551	\$ 237,309

Ramp Closure Damage Calculations

Chart 1: NB US 101 On-Ramp from Vista Point Closure

Ramp Capacity 1,200 vph

Hours	Sunday				Monday-Thursday				Friday				Saturday			
	Vista Point	Monte Mar	Total	Closure	Vista Point	Monte Mar	Total	Closure	Vista Point	Monte Mar	Total	Closure	Vista Point	Monte Mar	Total	Closure
0-1	32	41	73	C	29	20	49	C	12	30	42	C	40	44	84	C
1-2	32	20	52	C	10	14	24	C	14	7	21	C	20	19	39	C
2-3	16	14	30	C	15	12	27	C	4	19	23	C	9	19	28	C
3-4	18	14	32	C	6	12	18	C	3	8	11	C	16	7	23	C
4-5	3	7	10	C	1	5	6	C	1	5	6	C	7	10	17	C
5-6	6	8	14	C	3	15	18	C	7	10	17	C	11	10	21	C
6-7	11	8	19	C	11	15	26	C	10	8	18	C	7	7	14	C
7-8	29	24	53	C	44	39	83	C	31	46	77	C	30	25	55	C
8-9	70	34	104	C	47	58	105	C	29	69	98	C	52	44	96	C
9-10	153	42	195	C	96	81	177	C	78	44	122	C	71	69	140	C
10-11	277	71	348	C	146	63	209	C	147	81	228	C	163	78	241	C
11-12	316	124	440	C	157	102	259	C	164	103	267	C	288	88	376	C
12-13	335	127	462	C	188	95	283	C	191	102	293	C	411	132	543	C
13-14	381	158	539	C	222	97	319	C	163	132	295	C	416	122	538	C
14-15	347	139	486	C	198	91	289	C	170	137	307	C	367	163	530	C
15-16	387	147	534	C	139	134	273	C	132	134	266	C	403	156	559	C
16-17	383	186	569	C	157	156	313	C	165	178	343	C	382	173	555	C
17-18	306	125	431	C	119	168	287	C	176	154	330	C	405	137	542	C
18-19	290	129	419	C	42	168	210	C	151	146	297	C	365	134	499	C
19-20	170	105	275	C	65	124	189	C	140	171	311	C	158	100	258	C
20-21	106	64	170	C	42	98	140	C	78	125	203	C	117	98	215	C
21-22	56	59	115	C	49	69	118	C	47	68	115	C	84	64	148	C
22-23	45	37	82	C	31	78	109	C	61	78	139	C	59	61	120	C
23-24	37	34	71	C	29	37	66	C	52	71	123	C	39	63	102	C

C = Ramp may be completely closed

Route: NB US 101

Traffic Date: Short Term Construction Closure

Direction: Northbound

Condition: To be conducted during Stage 2 construction activities

Duration: Overnight closure only

Ramp Closure: NB Vista Point On-Ramp

Ramp Detour: NB Spencer/Monte Mar On-Ramp

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 NB, Vista Point On-Ramp  
 Locations NB Vista Point On-Ramp  
 Traffic Date Construction Conditions Ramp Closure  
 Condition Ramp Closure and Detour  
 Closure Overnight Closure  
 Capacity 1,200 VPH per lane

Hour of Day	Demand a	Capacity b	Cum Demand c	Cum Capacity d	Cum Queue e	Average Queue f	Time Interval g	Cum Delay h	Unit Delay Cost j	Total Cost Delay k
	a	b	a1+a2+..	b1+b2+..	c-d	(e1+e2)/2	g	f x g	j	h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
5 - 6 AM	18	1,200	18	1,200	0	0	60	0	\$0.19	\$0.00
6 - 7 AM	26	1,200	44	2,400	0	0	60	0	\$0.19	\$0.00
7 - 8 AM	83	1,200	127	3,600	0	0	60	0	\$0.19	\$0.00
8 - 9 AM	105	1,200	232	4,800	0	0	60	0	\$0.19	\$0.00
9 - 10 AM	177	1,200	409	6,000	0	0	60	0	\$0.19	\$0.00

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C=.19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)

Average delay cost of 2 first hours delay cost for 10 min = \$0.00 /12 = \$0.00

Average delay cost of 5 first hours delay cost for 10 min = \$0.00 /60 = \$0.00

Ramp Closure Damage Calculations

Chart 2: NB US 101 Off-Ramp to Vista Point and Sausalito Lateral Closure

Ramp Capacity 1,200 vph

Hours	Sunday					Monday-Thursday					Friday					Saturday				
	Sausalito Lateral	Vista Point	Monte Mar	Total	Closure	Sausalito Lateral	Vista Point	Monte Mar	Total	Closure	Sausalito Lateral	Vista Point	Monte Mar	Total	Closure	Sausalito Lateral	Vista Point	Monte Mar	Total	Closure
0-1	59	28	24	111	C	18	5	12	35	C	34	11	18	63	C	59	24	26	109	C
1-2	38	22	12	72	C	10	11	8	29	C	19	9	4	32	C	39	16	11	66	C
2-3	23	10	8	41	C	14	4	7	25	C	24	2	11	37	C	24	8	11	43	C
3-4	13	11	8	32	C	7	1	7	15	C	7	1	5	13	C	15	11	4	30	C
4-5	11	3	4	18	C	12	2	3	17	C	13	2	3	18	C	12	10	6	28	C
5-6	10	9	5	24	C	36	6	9	51	C	34	9	6	49	C	15	4	6	25	C
6-7	43	14	5	62	C	71	10	9	90	C	58	13	5	76	C	28	7	4	39	C
7-8	46	30	14	90	C	124	19	23	166	C	108	21	27	156	C	50	27	15	92	C
8-9	98	68	20	186	C	236	36	34	306	C	199	30	41	270	C	107	41	26	174	C
9-10	236	168	25	429	C	223	61	48	332	C	241	84	26	351	C	185	85	41	311	C
10-11	338	258	42	638	C	208	116	37	361	C	257	135	48	440	C	286	164	46	496	C
11-12	444	296	73	813	C	248	163	60	471	C	268	177	61	506	C	286	299	52	637	C
12-13	418	282	75	775	C	231	169	56	456	C	263	142	60	465	C	383	360	78	821	C
13-14	450	300	93	843	C	234	174	57	465	C	274	134	78	486	C	365	358	72	795	C
14-15	549	384	82	1,015	C	280	216	54	550	C	245	145	81	471	C	387	409	96	892	C
15-16	481	464	87	1,032	C	273	187	79	539	C	277	128	79	484	C	390	413	92	895	C
16-17	399	252	110	761	C	255	169	92	516	C	248	130	105	483	C	428	436	102	966	C
17-18	308	221	74	603	C	322	103	99	524	C	271	142	91	504	C	351	286	81	718	C
18-19	187	182	76	445	C	229	106	99	434	C	241	112	86	439	C	218	190	79	487	C
19-20	174	109	62	345	C	176	78	73	327	C	165	97	101	363	C	129	99	59	287	C
20-21	140	52	38	230	C	131	50	58	239	C	128	44	74	246	C	107	71	58	236	C
21-22	99	36	35	170	C	123	32	41	196	C	120	39	40	199	C	92	63	38	193	C
22-23	78	38	22	138	C	94	30	46	170	C	98	49	46	193	C	90	38	36	164	C
23-24	45	24	20	89	C	54	26	22	102	C	73	32	42	147	C	65	36	37	138	C

C = Ramp may be completely closed  
 Route: NB US 101  
 Traffic Date: Short Term Construction Closure  
 Direction: Northbound  
 Condition: To be conducted during Stage 2 construction activities  
 Duration: Overnight closure only  
 Ramp Closure: NB Vista Point and Sausalito Lateral Off-Ramps  
 Ramp Detour: NB Spencer/Monte Mar Off-Ramp

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 NB, Vista Point Off-Ramp and Sausalito Lateral Off-Ramp  
 Locations NB Vista Point Off-Ramp and Sausalito Lateral Off-Ramp  
 Traffic Date Short Term Construction Conditions Ramp Closures  
 Condition Ramp Closure and Detour  
 Closure Overnight Closure  
 Capacity 1,200 VPH per lane

Hour of Day	Demand	Capacity	Cum Demand	Cum Capacity	Cum Queue	Average Queue	Time Interval	Cum Delay	Unit Delay Cost	Total Cost Delay
	a	b	c	d	e	f	g	h	j	k
	a	b	a1+a2+..	b1+b2+..	c-d	(e1+e2)/2	MIN	f x g		h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
5 - 6 AM	51	1,200	51	1,200	0	0	60	0	\$0.19	\$0.00
6 - 7 AM	90	1,200	141	2,400	0	0	60	0	\$0.19	\$0.00
7 - 8 AM	166	1,200	307	3,600	0	0	60	0	\$0.19	\$0.00
8 - 9 AM	306	1,200	613	4,800	0	0	60	0	\$0.19	\$0.00
9 - 10 AM	332	1,200	945	6,000	0	0	60	0	\$0.19	\$0.00

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C=-.19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)

Average delay cost of 2 first hours delay cost for 10 min = \$0.00 /12 = \$0.00

Average delay cost of 5 first hours delay cost for 10 min = \$0.00 /60 = \$0.00

Ramp Closure Damage Calculations

Chart 3: SB US 101 On-Ramp from Sausalito Lateral Closure

Ramp Capacity 1,200 vph

Hours	Sunday				Monday-Thursday				Friday				Saturday			
	Sausalito Lateral	Monte Mar	Total	Closure	Sausalito Lateral	Monte Mar	Total	Closure	Sausalito Lateral	Monte Mar	Total	Closure	Sausalito Lateral	Monte Mar	Total	Closure
0-1	77	20	97	C	31	10	41	C	30	15	45	C	55	21	76	C
1-2	27	10	37	C	15	7	22	C	16	3	19	C	40	9	49	C
2-3	27	7	34	C	11	6	17	C	12	9	21	C	24	9	33	C
3-4	13	7	20	C	10	6	16	C	16	4	20	C	14	3	17	C
4-5	14	3	17	C	9	2	11	C	18	2	20	C	15	5	20	C
5-6	14	4	18	C	47	7	54	C	33	5	38	C	18	5	23	C
6-7	26	4	30	C	107	7	114	C	95	4	99	C	28	3	31	C
7-8	64	11	75	C	222	19	241	C	219	22	241	C	84	12	96	C
8-9	97	16	113	C	281	28	309	C	245	33	278	C	118	21	139	C
9-10	178	20	198	C	233	39	272	C	237	21	258	C	192	33	225	C
10-11	261	34	295	C	222	30	252	C	235	39	274	C	228	37	265	C
11-12	354	59	413	C	252	49	301	C	311	50	361	C	310	42	352	C
12-13	452	61	513	C	275	46	321	C	337	49	386	C	434	63	497	C
13-14	554	76	630	C	266	46	312	C	372	63	435	C	436	59	495	C
14-15	662	67	729	C	256	44	300	C	409	66	475	C	574	78	652	C
15-16	652	71	723	C	252	64	316	C	404	64	468	C	688	75	763	C
16-17	757	89	846	C	304	75	379	C	394	85	479	C	639	83	722	C
17-18	785	60	845	C	373	81	454	C	459	74	533	C	629	66	695	C
18-19	609	62	671	C	267	81	348	C	424	70	494	C	593	64	657	C
19-20	440	50	490	C	186	59	245	C	294	82	376	C	470	48	518	C
20-21	320	31	351	C	146	47	193	C	226	60	286	C	353	47	400	C
21-22	176	28	204	C	130	33	163	C	183	33	216	C	237	31	268	C
22-23	108	18	126	C	88	37	125	C	188	37	225	C	154	29	183	C
23-24	43	16	59	C	44	18	62	C	121	34	155	C	136	30	166	C

C = Ramp may be completely closed  
 Route: SB US 101  
 Traffic Date: Short Term Construction Closure  
 Direction: Southbound  
 Condition: To be conducted during Stage 5 construction activities  
 Duration: Overnight closure only  
 Ramp Closure: SB Sausalito Lateral On-Ramp  
 Ramp Detour: SB Spencer/Monte Mar On-Ramp

**DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP**

Route US 101 SB, Sausalito Lateral On-Ramp  
 Locations SB Sausalito Lateral On-Ramp  
 Traffic Date Short-Term Construction Conditions Ramp Closure  
 Condition Ramp Closure and Detour  
 Closure Overnight Closure  
 Capacity 1,200 VPH per lane

Hour of Day	Demand	Capacity	Cum Demand	Cum Capacity	Cum Queue	Average Queue	Time Interval	Cum Delay	Unit Delay Cost	Total Cost Delay
	a	b	c	d	e	f	g	h	j	k
	a	b	a1+a2+..	b1+b2+..	c-d	(e1+e2)/2	MIN	f x g		h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
5 - 6 AM	54	1,200	54	1,200	0	0	60	0	\$0.19	\$0.00
6 - 7 AM	114	1,200	168	2,400	0	0	60	0	\$0.19	\$0.00
7 - 8 AM	241	1,200	409	3,600	0	0	60	0	\$0.19	\$0.00
8 - 9 AM	309	1,200	718	4,800	0	0	60	0	\$0.19	\$0.00
9 - 10 AM	272	1,200	990	6,000	0	0	60	0	\$0.19	\$0.00

Truck %: 1.33% (from 2011 Truck Data)  
 Unit delay cost: \$ 0.193 [C=.19(1-T%)+0.40XT%]  
 (Based on \$0.19 for VEH and \$0.40 for truck)

Average delay cost of 2 first hours delay cost for 10 min = \$0.00 /12 = \$0.00

Average delay cost of 5 first hours delay cost for 10 min = \$0.00 /60 = \$0.00

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)			Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	361	489	236	358	486	244	719	975	480
1-2	200	212	139	184	267	150	200	212	139	384	479	289
2-3	119	138	107	125	153	133	119	138	107	244	291	240
3-4	124	130	157	116	93	112	124	130	157	240	223	269
4-5	174	170	510	171	124	355	174	170	510	345	294	865
5-6	406	335	1312	328	214	904	406	335	1312	734	549	2216
6-7	339	690	2375	591	455	1544	339	690	2375	1430	1145	4419
7-8	1491	963	4377	1064	718	2043	1491	963	4377	2555	1681	6420
8-9	2197	1564	4844	1403	1066	2128	2197	1564	4844	3600	2630	6972
9-10	2861	2442	3665	1872	1580	1840	2861	2442	3665	4733	4022	5505
10-11	3054	3417	3040	2282	2131	1842	3054	3417	3040	5336	5548	4882
11-12	3485	3796	2925	2311	2271	1913	3485	3796	2925	5796	6067	4838
12-13	3727	4403	2758	2036	2200	1893	3727	4403	2758	5763	6603	4651
13-14	3775	4139	2663	2055	2159	1952	3775	4139	2663	5830	6236	4815
14-15	3626	3337	2878	2316	2459	2388	3626	3337	2878	5942	5796	5266
15-16	3098	2988	3004	2256	2473	2697	3098	2988	3004	5354	5461	5701
16-17	2927	3549	3322	2726	2739	3213	2927	3549	3322	5653	6288	6535
17-18	3384	3238	3473	2730	2994	3481	3384	3238	3473	6114	6232	6954
18-19	2788	2620	2812	2608	2797	2371	2788	2620	2812	5396	5417	5183
19-20	2294	2257	1865	2108	2260	1680	2294	2257	1865	4402	4517	3545
20-21	2087	2013	1439	1604	1646	1231	2087	2013	1439	3891	3659	2670
21-22	1721	1649	1118	1481	1476	1039	1721	1649	1118	3202	3125	2157
22-23	1517	1083	665	1357	1001	697	1517	1083	665	2874	2084	1362
23-24	1010	519	344	848	531	399	1010	519	344	1858	1050	743

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxx All lanes on GGB open to traffic
- xxxxx Volume exceeds capacity

Assumptions

Speed Limit	65 mph	Speed limit
Base Capacity	1850 pc/h/lane	
Lanes	2	
Volume Distribution	0% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 580	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.94	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP

Route	Interstate 580 Westbound
Traffic Date	Detour Conditions Weekend Closure of GGB
Condition	Two lanes open to through traffic
Closure	52 hour weekend closure

Hour of Day	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Time Interval	Cum Delay	Unit Delay Cost	Total Cost
	a	b	c	d	e	f	g	h	j	k
	VEH	VEH	ac+c1+..	b2+c1+..	c-d	(e1+e2)/2	MIN	f x g	h x j	h x j
			VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
4 - 5 AM	865	3,146	865	3,146	0	0	60	0	\$0.25	\$0.00
5 - 6 AM	2,216	3,146	3,081	4,011	0	0	60	0	\$0.25	\$0.00
6 - 7 AM	4,419	3,146	7,500	6,227	1,273	637	60	38,190	\$0.25	\$9,461
7 - 8 AM	6,420	3,146	13,920	10,646	3,274	2,274	60	136,410	\$0.25	\$33,792
8 - 9 AM	6,972	3,146	20,892	17,066	3,826	3,550	60	213,000	\$0.25	\$52,765

Assumptions

Average Effective Vehicle Length (AV)	25 Feet
Truck %:	3.41% (from 2012 Truck Data: <a href="http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf">http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf</a> )
Unit delay cost:	\$ 0.25 [C=veh(1-T%)+trucks(T%)]
	(Based on \$0.24 for VEH and \$0.48 for Trucks)
Veh	\$ 0.24
Trucks	\$ 0.48
PM 9.96	
AADT	189,000
Trucks	6,445
Trucks in Traffic	0.034
Passenger Car Equiv.	2

Delay Costs

Average delay cost of first 2 hours		\$0	
delay cost	for 10 min =	\$0 /12	\$0
Average delay cost of first 5 hours		\$52,765.39	
delay cost	for 10 min =	\$52,765 /30	\$1,758.85

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a b VEH	b VEH	c a2+c1+. VPH	d b2+c1+. VEH	e d VEH	f (e1+e2)/2 VEH	g f/(Vpl+Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	719	3,146	719	3,146	0	0	0.0	0.0
	1-2	384	3,146	1,103	3,865	0	0	0.0	0.0
	2-3	244	3,146	1,347	4,249	0	0	0.0	0.0
	3-4	240	3,146	1,587	4,493	0	0	0.0	0.0
	4-5	345	3,146	1,932	4,733	0	0	0.0	0.0
	5-6	734	3,146	2,666	5,078	0	0	0.0	0.0
	6-7	1,430	3,146	4,096	5,812	0	0	0.0	0.0
	7-8	2,555	3,146	6,651	7,242	0	0	0.0	0.0
	8-9	3,600	3,146	10,251	9,797	454	227	1.1	0.1
	9-10	4,733	3,146	14,984	13,397	1,587	1,021	5.1	0.6
	10-11	5,336	3,146	20,320	18,130	2,190	1,889	9.4	1.2
	11-12	5,796	3,146	26,116	23,466	2,650	2,420	12.1	1.5
	12-13	5,763	3,146	31,879	29,262	2,617	2,634	13.2	1.7
	13-14	5,930	3,146	37,709	35,025	2,684	2,651	13.3	1.7
	14-15	5,942	3,146	43,651	40,855	2,796	2,740	13.7	1.7
	15-16	5,354	3,146	49,005	46,797	2,208	2,502	12.5	1.6
	16-17	5,653	3,146	54,658	52,151	2,507	2,358	11.8	1.5
	17-18	6,114	3,146	60,772	57,804	2,968	2,738	13.7	1.7
	18-19	5,396	3,146	66,168	63,918	2,250	2,609	13.0	1.7
	19-20	4,402	3,146	70,570	69,314	1,256	1,753	8.8	1.1
	20-21	3,691	3,146	74,261	73,716	545	901	4.5	0.6
	21-22	3,202	3,146	77,463	77,407	56	901	1.5	0.2
	22-23	2,874	3,146	80,337	80,609	0	28	0.1	0.0
	23-24	1,858	3,146	82,195	83,483	0	0	0.0	0.0
Sunday	0-1	975	3,146	83,170	85,341	0	0	0.0	0.0
	1-2	479	3,146	83,649	86,316	0	0	0.0	0.0
	2-3	291	3,146	83,940	86,795	0	0	0.0	0.0
	3-4	223	3,146	84,163	87,086	0	0	0.0	0.0
	4-5	294	3,146	84,457	87,309	0	0	0.0	0.0
	5-6	549	3,146	85,006	87,603	0	0	0.0	0.0
	6-7	1,145	3,146	86,151	88,152	0	0	0.0	0.0
	7-8	1,681	3,146	87,832	89,297	0	0	0.0	0.0
	8-9	2,630	3,146	90,462	90,978	0	0	0.0	0.0
	9-10	4,022	3,146	94,484	93,608	876	438	2.2	0.3
	10-11	5,548	3,146	100,032	97,530	2,402	1,639	8.2	1.0
	11-12	6,067	3,146	106,099	103,178	2,921	2,662	13.3	1.7
	12-13	6,603	3,146	112,702	109,245	3,457	3,189	15.9	2.0
	13-14	6,288	3,146	119,000	115,848	3,152	3,305	16.5	2.1
	14-15	5,796	3,146	124,796	122,146	2,650	2,901	14.5	1.8
	15-16	5,461	3,146	130,257	127,942	2,315	2,483	12.4	1.6
	16-17	6,288	3,146	136,545	133,403	3,142	2,729	13.6	1.7
	17-18	6,232	3,146	142,777	139,691	3,086	3,114	15.6	2.0
	18-19	5,417	3,146	148,194	145,923	2,271	2,679	13.4	1.7
	19-20	4,517	3,146	152,711	151,340	1,371	1,821	9.1	1.2
	20-21	3,659	3,146	156,370	155,857	513	942	4.7	0.6
	21-22	3,125	3,146	159,495	159,516	0	257	1.3	0.2
	22-23	2,084	3,146	161,579	162,641	0	0	0.0	0.0
	23-24	1,050	3,146	162,629	164,725	0	0	0.0	0.0
Monday	0-1	480	3,146	163,109	165,775	0	0	0.0	0.0
	1-2	289	3,146	163,398	166,255	0	0	0.0	0.0
	2-3	240	3,146	163,638	166,544	0	0	0.0	0.0
	3-4	269	3,146	163,907	166,784	0	0	0.0	0.0
	4-5	865	3,146	164,772	167,053	0	0	0.0	0.0
	5-6	904	3,146	165,676	167,918	0	0	0.0	0.0
	6-7	1,544	3,146	167,220	168,822	0	0	0.0	0.0
	7-8	2,043	3,146	169,263	170,366	0	0	0.0	0.0
	8-9	2,128	3,146	171,391	172,409	0	0	0.0	0.0
	9-10	1,840	3,146	173,231	174,537	0	0	0.0	0.0
	10-11	1,842	3,146	175,073	176,377	0	0	0.0	0.0
	11-12	1,913	3,146	176,986	178,219	0	0	0.0	0.0
	12-13	1,893	3,146	178,879	180,132	0	0	0.0	0.0
	13-14	1,962	3,146	180,831	182,025	0	0	0.0	0.0
	14-15	2,388	3,146	183,219	183,977	0	0	0.0	0.0
	15-16	2,697	3,146	185,916	186,365	0	0	0.0	0.0
	16-17	3,213	3,146	189,129	189,062	67	34	0.2	0.0
	17-18	3,481	3,146	192,610	192,275	335	201	1.0	0.1
	18-19	2,371	3,146	194,981	195,756	0	168	0.8	0.0
	19-20	1,680	3,146	196,661	198,127	0	0	0.0	0.0
	20-21	1,231	3,146	197,892	199,807	0	0	0.0	0.0
	21-22	1,039	3,146	198,931	201,038	0	0	0.0	0.0
	22-23	697	3,146	199,628	202,077	0	0	0.0	0.0
	23-24	399	3,146	200,027	202,774	0	0	0.0	0.0

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)			Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	490	487	305	1070	999	619	1560	1486	924
1-2	583	612	346	222	323	195	583	612	346	805	935	541
2-3	437	470	173	195	201	119	437	470	173	632	671	292
3-4	243	259	129	144	135	179	243	259	129	387	394	308
4-5	179	172	163	277	203	393	179	172	163	456	375	556
5-6	373	217	396	508	332	1085	373	217	396	881	549	1471
6-7	603	426	1059	1032	621	2933	603	426	1059	1635	1047	3332
7-8	1223	814	2348	1737	1024	3653	1223	814	2348	2960	1838	6001
8-9	2100	1562	3095	2380	1428	3417	2100	1562	3095	4480	2990	6512
9-10	3044	2565	2815	2796	2072	2818	3044	2565	2815	5840	4637	5633
10-11	3829	3441	2971	3207	2570	2162	3829	3441	2971	7036	6011	5133
11-12	3727	3633	3183	3206	2934	2097	3727	3633	3183	6933	6567	5280
12-13	3486	3027	3275	3288	2892	1992	3486	3027	3275	6774	5919	5267
13-14	3266	2955	3259	3282	2925	2080	3266	2955	3259	6548	5880	5339
14-15	3000	2624	3812	3272	2631	1810	3000	2624	3812	6272	5265	5822
15-16	2883	2368	4423	2867	2686	1938	2883	2368	4423	5750	5054	6361
16-17	3071	2460	4621	2533	2519	2110	3071	2460	4621	5804	4979	6731
17-18	4223	3863	4953	2373	2396	2252	4223	3863	4953	6596	6269	7205
18-19	5622	5643	4195	1884	1865	2090	5622	5643	4195	7506	7508	6285
19-20	3136	3109	2737	1411	1578	1425	3136	3109	2737	4547	4687	4162
20-21	2029	2399	1961	1281	1435	1001	2029	2399	1961	3310	3744	2962
21-22	1862	2433	1635	1374	1216	929	1862	2433	1635	3256	3652	2564
22-23	2306	1932	1233	1335	949	716	2306	1932	1233	3641	2881	1949
23-24	1539	1067	795	735	588	476	1539	1067	795	2274	1655	1271

Notes:

<sup>(1)</sup>pc/h passenger cars per hour

xxxxx	All lanes on GGB open to traffic
xxxxx	Volume exceeds capacity

Assumptions

Speed Limit	65 mph	Speed limit
Base Capacity	1850	VPH per Lane
Lanes	2	
Volume Distribution	0% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 580	
djstment for Heavy Vehicles	0.97	
Volume / Capacity	0.99	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Storage	100	vehicles / lane / mile

DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP

Route	Interstate 580 Westbound
Traffic Date	Detour Conditions Weekend Closure of GGB
Condition	Two lanes open to through traffic
Closure	52 hour weekend closure

Hour of Day	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Time Interval	Cum Delay	Unit Delay	Total Cost
	a	b	c	d	e	f	g	h	i	k
	a	b	ac+c1+..	b2+c1+..	c-d	(e1+e2)/2	g	f x g	j	h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
4 - 5 AM	556	3,146	556	3,146	0	0	60	0	\$0.25	\$0.00
5 - 6 AM	1,471	3,146	2,027	2,027	0	0	60	0	\$0.25	\$0.00
6 - 7 AM	3,992	3,146	6,019	5,173	846	423	60	25,380	\$0.25	\$6,287
7 - 8 AM	6,001	3,146	12,020	9,165	2,855	1,851	60	111,030	\$0.25	\$27,505
8 - 9 AM	6,512	3,146	18,532	15,166	3,366	3,111	60	186,630	\$0.25	\$46,233

Assumptions

Average Effective Vehicle Le	25	Feet
Truck %:	3.41%	(from 2012 Truck Data: <a href="http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf">http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf</a> )
Unit delay cost:	\$ 0.25	[C=veh(1-1%)+trucks*(1%)]
		(Based on \$0.24 for VEH and \$0.48 for Trucks)
Veh	\$ 0.24	
Trucks	\$ 0.48	
PM 9.96		
AADT	189,000	
Trucks	6,445	
Trucks in Traffic	0.034	
Passenger Car Equiv.	2	

Delay Costs

Average delay cost of first 2 hours	\$0
delay cost for 10 min =	\$0 /12
	\$0
Average delay cost of first 5 hours	\$46,232.89
delay cost for 10 min =	\$46,233 /30
	\$1,541.10



**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (WESTBOUND)**

Day	Hours	Demand a VEH	Capacity b VEH	Cum Demand c a2+c1+ VPH	Cum Output d b2+c1+ VEH	Cum Queue e c-d VEH	Average Queue f (e1+e2)/2 VEH	Average Queue Distance g f/(Vp1+Lanes) MILES	Average Queue Delay h e1*(a2-b2))/b2 HOURS
Saturday	0-1	1,560	3,146	1,560	3,146	0	0	0.0	0.0
	1-2	805	3,146	2,365	4,706	0	0	0.0	0.0
	2-3	632	3,146	2,997	5,511	0	0	0.0	0.0
	3-4	387	3,146	3,384	6,143	0	0	0.0	0.0
	4-5	456	3,146	3,840	6,530	0	0	0.0	0.0
	5-6	881	3,146	4,721	6,986	0	0	0.0	0.0
	6-7	1,635	3,146	6,356	7,867	0	0	0.0	0.0
	7-8	2,960	3,146	9,316	9,502	0	0	0.0	0.0
	8-9	4,480	3,146	13,796	12,462	1,334	667	3.3	0.4
	9-10	5,840	3,146	19,636	16,942	2,694	2,014	10.1	1.3
	10-11	7,036	3,146	26,672	22,782	3,890	3,292	16.5	2.1
	11-12	6,933	3,146	33,605	29,818	3,787	3,839	19.2	2.4
	12-13	6,774	3,146	40,379	36,751	3,628	3,708	18.5	2.4
	13-14	6,548	3,146	46,927	43,525	3,402	3,515	17.6	2.2
	14-15	6,272	3,146	53,199	50,073	3,126	3,264	16.3	2.1
	15-16	5,750	3,146	58,949	56,345	2,604	2,865	14.3	1.8
	16-17	5,604	3,146	64,553	62,095	2,458	2,531	12.7	1.6
	17-18	6,596	3,146	71,149	67,699	3,450	2,954	14.8	1.9
	18-19	7,500	3,146	78,649	74,945	3,705	3,605	15.5	2.0
	19-20	4,547	3,146	83,202	81,801	1,401	2,881	14.4	1.8
	20-21	3,310	3,146	86,512	86,348	164	783	3.9	0.5
	21-22	3,256	3,146	89,768	89,658	110	137	0.7	0.1
	22-23	3,641	3,146	93,409	92,914	495	303	1.5	0.2
	23-24	2,274	3,146	95,683	96,555	0	248	1.2	0.0
Sunday	0-1	1,486	3,146	97,169	98,829	0	0	0.0	0.0
	1-2	935	3,146	98,104	100,315	0	0	0.0	0.0
	2-3	671	3,146	98,775	101,250	0	0	0.0	0.0
	3-4	394	3,146	99,169	101,921	0	0	0.0	0.0
	4-5	375	3,146	99,544	102,315	0	0	0.0	0.0
	5-6	549	3,146	100,093	102,690	0	0	0.0	0.0
	6-7	1,047	3,146	101,140	103,239	0	0	0.0	0.0
	7-8	1,838	3,146	102,978	104,286	0	0	0.0	0.0
	8-9	2,990	3,146	105,968	106,124	0	0	0.0	0.0
	9-10	4,637	3,146	110,605	109,114	1,491	746	3.7	0.5
	10-11	6,011	3,146	116,616	113,751	2,865	2,178	10.9	1.4
	11-12	6,567	3,146	123,183	118,782	3,421	3,143	18.7	2.0
	12-13	5,919	3,146	129,102	126,329	2,773	3,097	15.5	2.0
	13-14	5,880	3,146	134,982	132,248	2,734	2,754	13.8	1.8
	14-15	5,255	3,146	140,237	138,128	2,109	2,422	12.1	1.5
	15-16	5,054	3,146	145,291	143,383	1,908	2,009	10.0	1.3
	16-17	4,979	3,146	150,270	148,437	1,833	1,871	9.4	1.2
	17-18	6,259	3,146	156,529	153,416	3,113	2,473	12.4	1.6
	18-19	7,508	3,146	164,037	159,675	4,362	3,738	18.7	2.4
	19-20	4,687	3,146	168,724	167,183	1,541	2,952	14.8	1.9
	20-21	3,744	3,146	172,468	171,870	598	1,070	5.3	0.7
	21-22	3,652	3,146	176,120	175,614	506	552	2.8	0.4
	22-23	2,881	3,146	179,001	179,266	0	253	1.3	0.1
	23-24	1,655	3,146	180,656	182,147	0	0	0.0	0.0
Monday	0-1	924	3,146	181,580	183,902	0	0	0.0	0.0
	1-2	541	3,146	182,121	184,726	0	0	0.0	0.0
	2-3	292	3,146	182,413	185,267	0	0	0.0	0.0
	3-4	308	3,146	182,721	185,559	0	0	0.0	0.0
	4-5	556	3,146	183,277	185,867	0	0	0.0	0.0
	5-6	1,085	3,146	184,362	186,423	0	0	0.0	0.0
	6-7	2,933	3,146	187,295	187,508	0	0	0.0	0.0
	7-8	3,653	3,146	190,948	190,441	507	254	1.3	0.2
	8-9	3,417	3,146	194,365	194,094	271	389	1.9	0.2
	9-10	2,818	3,146	197,183	197,511	0	136	0.7	0.0
	10-11	2,162	3,146	199,345	200,329	0	0	0.0	0.0
	11-12	2,097	3,146	201,442	202,491	0	0	0.0	0.0
	12-13	1,992	3,146	203,434	204,588	0	0	0.0	0.0
	13-14	2,080	3,146	205,514	206,580	0	0	0.0	0.0
	14-15	1,810	3,146	207,324	208,660	0	0	0.0	0.0
	15-16	1,938	3,146	209,262	210,470	0	0	0.0	0.0
	16-17	2,110	3,146	211,372	212,408	0	0	0.0	0.0
	17-18	2,252	3,146	213,624	214,518	0	0	0.0	0.0
	18-19	2,090	3,146	215,714	216,770	0	0	0.0	0.0
	19-20	1,425	3,146	217,139	218,860	0	0	0.0	0.0
	20-21	1,001	3,146	218,140	220,285	0	0	0.0	0.0
	21-22	929	3,146	219,069	221,286	0	0	0.0	0.0
	22-23	716	3,146	219,785	222,215	0	0	0.0	0.0
	23-24	476	3,146	220,261	222,931	0	0	0.0	0.0

**Notes:**

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>1)</sup>		
	Saturday	Sunday	Monday
	Interstate 80	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure/Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)			Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	3881	3937	2516	1070	999	619	4951	4896	3135
1-2	583	612	346	3002	3231	1348	583	612	346	3585	3843	1694
2-3	437	470	173	2940	3463	982	437	470	173	3377	3933	1155
3-4	243	259	129	1482	1875	731	243	259	129	1725	2134	860
4-5	179	172	163	1012	1043	853	179	172	163	1191	1215	1016
5-6	373	217	386	1361	1065	1730	373	217	386	1734	1282	2116
6-7	603	426	1059	2127	1644	3785	603	426	1059	2730	2070	4844
7-8	1223	814	2348	3429	2587	6180	1223	814	2348	4652	3401	8523
8-9	2100	1562	3095	4777	3537	6753	2100	1562	3095	6877	5099	9848
9-10	3044	2565	2815	5709	4673	5859	3044	2565	2815	8763	7238	8674
10-11	3829	3441	2971	6669	5693	5575	3829	3441	2971	10498	9134	8546
11-12	3727	3633	3183	6814	6125	5577	3727	3633	3183	10841	9758	8760
12-13	3486	3027	3275	6573	6474	6010	3486	3027	3275	10689	9501	9285
13-14	3266	2955	3239	6513	6773	6510	3266	2955	3239	9719	9723	9769
14-15	3000	2624	3812	7202	6917	7893	3000	2624	3812	10202	8541	11705
15-16	2883	2368	4423	7574	6993	8608	2883	2368	4423	10457	9361	13031
16-17	3071	2460	4621	7171	7571	8292	3071	2460	4621	10242	10031	12913
17-18	4223	3863	4953	7554	7417	7818	4223	3863	4953	11777	11280	12771
18-19	5622	5643	4195	7853	7692	6819	5622	5643	4195	13475	13335	11014
19-20	3136	3109	2737	7459	7460	5831	3136	3109	2737	10895	10569	8563
20-21	2029	2309	1961	7461	7342	4966	2029	2309	1961	7454	8654	6929
21-22	1882	2433	1635	6344	7225	4493	1882	2433	1635	8226	8659	6128
22-23	2306	1932	1233	6303	7276	3988	2306	1932	1233	8609	9208	5221
23-24	1539	1067	795	5035	4387	2881	1539	1067	795	6574	5454	3676

Notes:

<sup>1)</sup>pc/h passenger cars per hour

xxxx All lanes on GGB open to traffic

xxxxx Volume exceeds capacity

Assumptions

Speed Limit	65 mph	Speed limit
Base Capacity	1850	VPH per Lane
Lanes	5	
Volume Distribution	0% of GGB traffic will not drive and/or use public transit and other modes of transportation. 100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.93	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100	vehicles / lane / mile

DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP

Route	Interstate 80 Eastbound
Traffic Date	Detour Conditions Weekend Closure of GGB
Condition	Two lanes open to through traffic
Closure	52 hour weekend closure

Hour of Day	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Time Interval	Cum Delay	Unit Delay Cost	Total Cost Delay
	a	b	c	d	e	f	g	h	i	k
	VEH	VEH	ac+c1+..	b2+c1+..	c-d	(e1+e2)/2	MIN	f x g	j	h x j
			VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
4 - 5 AM	1,016	8,352	1,016	8,352	0	0	60	0	\$0.25	\$0.00
5 - 6 AM	2,116	8,352	3,132	9,368	0	0	60	0	\$0.25	\$0.00
6 - 7 AM	4,844	8,352	7,976	11,484	0	0	60	0	\$0.25	\$0.00
8 - 9 AM	8,528	8,352	16,504	16,328	176	88	60	5,274	\$0.25	\$1,295.20
9 - 10 AM	9,848	8,352	26,352	24,856	1,496	836	60	50,141	\$0.25	\$12,321.83

Assumptions

Average Effective Vehicle Length (AVL)	25	Feet
Truck %:	2.58%	(from 2012 Truck Data: <a href="http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf">http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf</a> )
Unit delay cost:	\$ 0.25	[C=veh(1-T%)+trucks*(T%)] (Based on \$0.24 for VEH and \$0.48 for truck)
Veh	\$ 0.24	
Trucks	\$ 0.48	
PM 1.989		
AADT	241,000	
Trucks	6218	
Trucks in Traffic	0.026	
Passenger Car Equiv.	2	

Delay Costs

Average delay cost of first 2 hours		\$0	
delay cost	for 10 min =	\$0 /12	\$0
Average delay cost of first 5 hours		\$12,322	
delay cost	for 10 min =	\$12,322 /30	\$410.73

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a a VEH	b b VEH	c a2+c1- VPH	d b2+c1+- VEH	e c-d VEH	f (e1+e2)/2 VEH	g f/(Vp/m*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	4,951	8,352	4,951	8,352	0	0	0.0	0.0
	1-2	3,585	8,352	8,536	13,303	0	0	0.0	0.0
	2-3	3,377	8,352	11,913	16,888	0	0	0.0	0.0
	3-4	1,725	8,352	13,638	20,265	0	0	0.0	0.0
	4-5	1,191	8,352	14,829	21,996	0	0	0.0	0.0
	5-6	1,734	8,352	16,563	23,181	0	0	0.0	0.0
	6-7	2,730	8,352	19,293	24,915	0	0	0.0	0.0
	7-8	4,652	8,352	23,945	27,645	0	0	0.0	0.0
	8-9	6,877	8,352	30,822	32,297	0	0	0.0	0.0
	9-10	8,753	8,352	39,575	39,174	401	200	0.4	0.0
	10-11	10,498	8,352	50,073	47,927	2,146	1,273	2.5	0.3
	11-12	10,541	8,352	60,614	58,425	2,189	2,167	4.3	0.5
	12-13	10,059	8,352	70,673	68,966	1,707	1,949	3.9	0.5
	13-14	9,779	8,352	80,452	79,025	1,427	1,567	3.1	0.4
	14-15	10,202	8,352	90,654	88,804	1,850	1,638	3.3	0.4
	15-16	10,457	8,352	101,111	99,006	2,105	1,977	4.0	0.5
	16-17	10,242	8,352	111,353	109,463	1,890	1,997	4.0	0.5
	17-18	11,777	8,352	123,130	119,705	3,425	2,657	5.3	0.6
	18-19	10,595	8,352	147,200	144,957	2,243	3,683	7.4	0.9
	19-20	9,490	8,352	156,690	155,552	1,138	1,690	3.4	0.4
	20-21	8,226	8,352	164,916	165,042	0	569	1.1	0.1
	21-22	8,609	8,352	173,525	173,268	257	128	0.3	0.0
	22-23	6,574	8,352	180,099	181,877	0	128	0.3	0.0
	0-1	4,896	8,352	184,995	188,451	0	0	0.0	0.0
1-2	3,843	8,352	188,838	193,347	0	0	0.0	0.0	
2-3	3,333	8,352	192,771	197,190	0	0	0.0	0.0	
3-4	2,134	8,352	194,905	201,123	0	0	0.0	0.0	
4-5	1,215	8,352	196,120	203,257	0	0	0.0	0.0	
5-6	1,282	8,352	197,402	204,472	0	0	0.0	0.0	
6-7	2,070	8,352	199,472	205,754	0	0	0.0	0.0	
7-8	3,401	8,352	202,873	207,824	0	0	0.0	0.0	
8-9	5,099	8,352	207,972	211,225	0	0	0.0	0.0	
9-10	7,238	8,352	215,210	215,324	0	0	0.0	0.0	
10-11	9,134	8,352	224,344	223,562	782	391	0.8	0.1	
11-12	9,758	8,352	234,102	232,696	1,406	1,094	2.2	0.3	
12-13	9,501	8,352	243,603	242,454	1,149	1,277	2.6	0.3	
13-14	9,728	8,352	253,331	251,955	1,376	1,262	2.5	0.3	
14-15	9,541	8,352	262,872	261,683	1,189	1,282	2.6	0.3	
15-16	9,361	8,352	272,233	271,224	1,009	1,099	2.2	0.3	
16-17	10,031	8,352	282,264	280,585	1,679	1,344	2.7	0.3	
17-18	11,280	8,352	293,544	290,616	2,928	2,303	4.6	0.6	
18-19	13,335	8,352	306,879	301,896	4,983	3,955	7.9	0.9	
19-20	10,569	8,352	317,448	315,231	2,217	3,600	7.2	0.9	
20-21	9,651	8,352	327,099	325,800	1,299	1,758	3.5	0.4	
21-22	9,659	8,352	336,758	335,451	1,307	1,303	2.6	0.3	
22-23	9,208	8,352	345,966	345,110	856	1,081	2.2	0.3	
23-24	5,454	8,352	351,420	354,318	0	428	0.9	0.0	
0-1	3,135	8,352	354,555	359,772	0	0	0.0	0.0	
1-2	1,694	8,352	356,249	362,907	0	0	0.0	0.0	
2-3	1,155	8,352	357,404	364,601	0	0	0.0	0.0	
3-4	860	8,352	358,264	365,756	0	0	0.0	0.0	
4-5	1,016	8,352	359,280	366,616	0	0	0.0	0.0	
5-6	1,730	8,352	361,010	367,632	0	0	0.0	0.0	
6-7	3,785	8,352	364,795	369,362	0	0	0.0	0.0	
7-8	6,180	8,352	370,975	373,147	0	0	0.0	0.0	
8-9	8,753	8,352	377,728	375,327	0	0	0.0	0.0	
9-10	8,859	8,352	383,587	386,080	0	0	0.0	0.0	
10-11	5,575	8,352	389,162	391,939	0	0	0.0	0.0	
11-12	5,577	8,352	394,739	397,514	0	0	0.0	0.0	
12-13	6,010	8,352	400,749	403,091	0	0	0.0	0.0	
13-14	6,510	8,352	407,259	409,101	0	0	0.0	0.0	
14-15	7,893	8,352	415,152	415,611	0	0	0.0	0.0	
15-16	8,608	8,352	423,760	423,504	256	128	0.3	0.0	
16-17	8,292	8,352	432,052	432,112	0	128	0.3	0.0	
17-18	7,818	8,352	439,870	440,404	0	0	0.0	0.0	
18-19	6,819	8,352	446,689	448,222	0	0	0.0	0.0	
19-20	5,831	8,352	452,520	455,041	0	0	0.0	0.0	
20-21	4,968	8,352	457,488	460,872	0	0	0.0	0.0	
21-22	4,493	8,352	461,981	465,640	0	0	0.0	0.0	
22-23	3,988	8,352	465,969	470,333	0	0	0.0	0.0	
23-24	2,881	8,352	468,850	474,321	0	0	0.0	0.0	

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pchs) <sup>(1)</sup>		
	Saturday	Sunday	Monday
	Interstate 80	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)			Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	2032	2447	1492	358	486	244	2390	2933	1736
1-2	200	212	139	1351	1903	859	200	212	139	1551	2115	998
2-3	119	138	107	1118	1081	812	119	138	107	1237	1219	919
3-4	124	130	157	1168	966	1342	124	130	157	1292	1096	1499
4-5	174	170	510	1791	1391	3531	174	170	510	1965	1561	4041
5-6	406	335	1312	3333	2176	8412	406	335	1312	3739	2511	9724
6-7	839	690	2875	4350	3114	9144	839	690	2875	5189	3904	12019
7-8	1491	963	4377	4721	3568	8453	1491	963	4377	6212	4531	12839
8-9	2197	1564	4844	6034	4975	7688	2197	1564	4844	8231	6539	12632
9-10	2861	2442	3665	7234	6529	8099	2861	2442	3665	10095	8974	11764
10-11	3054	3417	3040	7954	8090	7228	3054	3417	3040	11008	11507	10268
11-12	3485	3796	2925	8051	7909	7249	3485	3796	2925	11536	11705	10174
12-13	3727	4403	2758	6861	8171	6654	3727	4403	2758	10508	12574	9412
13-14	3775	4139	2683	7375	6911	6153	3775	4139	2683	11350	11060	8818
14-15	3626	3337	2878	7876	7273	6467	3626	3337	2878	11502	10610	9348
15-16	3098	2988	3004	7947	7260	6032	3098	2988	3004	11045	10248	9036
16-17	2927	3549	3322	7731	7392	7017	2927	3549	3322	10658	10941	10339
17-18	3384	3238	3473	7740	7502	6777	3384	3238	3473	11124	10740	10250
18-19	2788	2620	2812	6972	7227	5627	2788	2620	2812	9760	9847	8438
19-20	2294	2257	1865	6154	6538	4841	2294	2257	1865	8445	7155	6706
20-21	2087	2013	1439	5900	6238	4056	2087	2013	1439	7987	8251	5495
21-22	1721	1649	1118	6548	5640	3828	1721	1649	1118	8269	7289	4946
22-23	1517	1083	665	6058	5045	3362	1517	1083	665	7575	6128	4027
23-24	1010	519	344	4502	2792	2052	1010	519	344	5512	3311	2396

Notes:

- <sup>(1)</sup>pchs passenger cars per hour
- xxx All lanes on GGB open to traffic
- xxx Volume exceeds capacity

Assumptions

- Speed Limit 65 mph Speed limit
- Base Capacity 1850 pch/lane
- Lanes 5
- Volume Distribution 0% of GGB traffic will not drive and/or use public transit and other modes of transportation.
- 100% of GGB detour traffic will use Interstate 80
- Adjustment for Heavy Vehicles 0.97
- Volume / Capacity 0.99
- Peak Hour Factor 0.95
- Adjustment for Driver Pop. 0.975
- Average Rate of Vehicle Storage 100 vehicles / lane / mile

DAMAGE CALCULATIONS FOR LATE LANE CLOSURE PICK UP

Route Interstate 80 Westbound  
 Traffic Date Detour Conditions Weekend Closure of GGB  
 Condition Two lanes open to through traffic  
 Closure 52 hour weekend closure

Hour of Day	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Time Interval	Cum Delay	Unit Delay Cost	Total Cost
	a	b	c	d	e	f	g	h	i	k
	a	b	ac+c1+..	b2+c1+..	c-d	(e1+e2)/2		f x g	j	h x j
	VEH	VEH	VPH	VEH	VEH	VEH	MIN	VEH.MIN	\$	\$
4 - 5 AM	4,041	8,352	4,041	8,352	0	0	60	0	\$0.25	\$0
5 - 6 AM	9,724	8,352	13,765	12,393	1,372	1,372	60	82,301	\$0.25	\$20,225
6 - 7 AM	12,019	8,352	25,784	22,117	3,667	2,519	60	151,151	\$0.25	\$37,144
8 - 9 AM	12,830	8,352	38,614	34,136	4,478	2,715	60	162,887	\$0.25	\$40,028
9 - 10 AM	12,532	8,352	51,146	46,966	4,180	2,164	60	129,861	\$0.25	\$31,912

Assumptions

- Average Effective Vehicle Length (AVL) 25 Feet
- Truck %: 2.58% (from 2012 Truck Data: [http://traffic-counts.dot.ca.gov/docs/2012\\_aadt\\_truck.pdf](http://traffic-counts.dot.ca.gov/docs/2012_aadt_truck.pdf))
- Unit delay cost: \$ 0.25 [C=veh(1-T%)+trucks\*(T%)] (Based on \$0.24 for VEH and \$0.48 for truck)
- veh \$ 0.24
- trucks \$ 0.48
- PM 1,989
- AADT 241,000
- Trucks 6218
- Trucks in Traffic 0.026
- Passenger Car Equiv. 2

Delay Costs

Average delay cost of first 2 hours		\$20,225	
delay cost	for 10 min =	\$20,225 /12	<u>\$1,685</u>
Average delay cost of first 5 hours		\$31,912.35	
delay cost	for 10 min =	\$31,912 /30	<u>\$1,063.75</u>

**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (WESTBOUND)**

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay	
		a VEH	b VEH	c a2+c1.. VPH	d b2+c1+.. VEH	e c-d VEH	f (e1+e2)/2 VEH	g l/(Vplm*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS	
Saturday	0-1	2,380	8,352	2,380	0	0	0	0.0	0.0	
	1-2	1,551	8,352	3,941	0	0	0	0.0	0.0	
	2-3	1,237	8,352	5,178	0	0	0	0.0	0.0	
	3-4	1,292	8,352	6,470	0	0	0	0.0	0.0	
	4-5	1,965	8,352	8,435	0	0	0	0.0	0.0	
	5-6	3,739	8,352	12,174	0	0	0	0.0	0.0	
	6-7	5,189	8,352	17,363	0	0	0	0.0	0.0	
	7-8	6,212	8,352	23,575	0	0	0	0.0	0.0	
	8-9	8,231	8,352	31,806	0	0	0	0.0	0.0	
	9-10	10,095	8,352	41,901	0	1,743	871	1.7	0.2	
	10-11	11,008	8,352	52,909	0	50,253	2,656	2,199	4.4	0.5
	11-12	11,536	8,352	64,445	0	61,261	3,184	2,920	5.8	0.7
	12-13	10,588	8,352	75,033	0	72,797	2,236	2,710	5.4	0.6
	13-14	11,350	8,352	86,383	0	83,385	2,998	2,617	5.2	0.6
	14-15	11,502	8,352	97,885	0	94,736	3,150	3,074	6.1	0.7
	15-16	11,045	8,352	108,930	0	106,237	2,693	2,821	5.8	0.7
	16-17	10,658	8,352	119,588	0	117,282	2,306	2,499	5.0	0.6
	17-18	11,124	8,352	130,712	0	127,940	2,772	2,539	5.1	0.6
	18-19	9,760	8,352	140,472	0	139,064	1,408	2,090	4.2	0.5
	19-20	8,448	8,352	148,920	0	148,824	96	752	1.5	0.2
	20-21	7,987	8,352	156,907	0	157,272	0	48	0.1	0.0
	21-22	8,269	8,352	165,176	0	165,259	0	0	0.0	0.0
	22-23	7,575	8,352	172,751	0	173,529	0	0	0.0	0.0
23-24	5,512	8,352	178,263	0	181,103	0	0	0.0	0.0	
Sunday	0-1	2,933	8,352	2,933	0	0	0	0.0	0.0	
	1-2	2,115	8,352	5,048	0	0	0	0.0	0.0	
	2-3	1,219	8,352	6,267	0	0	0	0.0	0.0	
	3-4	1,096	8,352	7,363	0	0	0	0.0	0.0	
	4-5	1,561	8,352	8,924	0	0	0	0.0	0.0	
	5-6	2,511	8,352	11,435	0	0	0	0.0	0.0	
	6-7	3,804	8,352	15,239	0	0	0	0.0	0.0	
	7-8	4,531	8,352	19,770	0	0	0	0.0	0.0	
	8-9	6,539	8,352	26,309	0	0	0	0.0	0.0	
	9-10	8,971	8,352	35,280	0	619	309	0.6	0.1	
	10-11	11,507	8,352	46,787	0	221,895	3,155	1,887	3.8	0.5
	11-12	11,705	8,352	58,492	0	233,402	3,353	3,254	6.5	0.8
	12-13	12,377	8,352	70,869	0	245,101	4,277	3,477	7.5	0.9
	13-14	11,050	8,352	81,919	0	257,681	2,698	3,460	6.9	0.8
	14-15	10,610	8,352	92,529	0	268,731	2,258	2,478	5.0	0.6
	15-16	10,248	8,352	102,777	0	279,341	1,896	2,077	4.2	0.5
	16-17	10,941	8,352	113,718	0	289,589	2,589	2,242	4.5	0.5
	17-18	10,740	8,352	124,458	0	300,530	2,388	2,488	5.0	0.6
	18-19	9,847	8,352	132,765	0	311,270	1,495	1,941	3.9	0.5
	19-20	8,795	8,352	141,117	0	321,117	443	969	1.9	0.2
	20-21	8,251	8,352	149,368	0	329,912	0	221	0.4	0.0
	21-22	7,289	8,352	156,657	0	338,163	0	0	0.0	0.0
	22-23	6,128	8,352	162,785	0	345,452	0	0	0.0	0.0
23-24	3,311	8,352	166,096	0	351,580	0	0	0.0	0.0	
Monday	0-1	1,736	8,352	1,736	0	0	0	0.0	0.0	
	1-2	998	8,352	2,734	0	0	0	0.0	0.0	
	2-3	919	8,352	3,653	0	0	0	0.0	0.0	
	3-4	1,499	8,352	5,152	0	0	0	0.0	0.0	
	4-5	3,531	8,352	8,683	0	0	0	0.0	0.0	
	5-6	8,412	8,352	17,095	0	60	30	0.1	0.0	
	6-7	9,144	8,352	26,239	0	792	426	0.9	0.1	
	7-8	8,453	8,352	34,692	0	1,011	446	0.9	0.1	
	8-9	7,688	8,352	42,380	0	1,503	50	0.1	0.0	
	9-10	8,099	8,352	50,479	0	2,005	0	0.0	0.0	
	10-11	7,228	8,352	57,707	0	2,507	0	0.0	0.0	
	11-12	7,249	8,352	64,956	0	3,009	0	0.0	0.0	
	12-13	6,654	8,352	71,610	0	3,511	0	0.0	0.0	
	13-14	6,153	8,352	77,763	0	4,013	0	0.0	0.0	
	14-15	6,467	8,352	84,230	0	4,515	0	0.0	0.0	
	15-16	6,032	8,352	90,262	0	5,017	0	0.0	0.0	
	16-17	7,017	8,352	96,779	0	5,519	0	0.0	0.0	
	17-18	6,777	8,352	103,556	0	6,021	0	0.0	0.0	
	18-19	5,827	8,352	109,383	0	6,523	0	0.0	0.0	
	19-20	4,841	8,352	115,224	0	7,025	0	0.0	0.0	
	20-21	4,056	8,352	121,280	0	7,527	0	0.0	0.0	
	21-22	3,828	8,352	127,108	0	8,029	0	0.0	0.0	
	22-23	3,362	8,352	133,470	0	8,531	0	0.0	0.0	
23-24	2,052	8,352	140,522	0	9,033	0	0.0	0.0		

**Notes:**

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)			Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	361	489	236	322	437	220	683	926	456
1-2	200	212	139	184	267	150	180	191	125	364	458	275
2-3	119	138	107	125	153	133	107	124	96	232	277	229
3-4	124	130	157	116	93	112	112	117	141	228	210	253
4-5	174	170	510	171	124	355	157	153	459	328	277	814
5-6	406	335	1312	328	214	904	365	302	1181	693	516	2085
6-7	839	690	2875	591	455	1544	755	621	2588	1346	1076	4132
7-8	1491	963	4377	1064	718	2043	1342	867	3939	2406	1585	5982
8-9	2197	1564	4844	1403	1066	2128	1977	1408	4360	3380	2474	6488
9-10	2861	2442	3665	1872	1580	1840	2575	2198	3299	4447	3773	5139
10-11	3054	3417	3040	2282	2131	1842	2749	3075	2736	5031	5206	4578
11-12	3485	3796	2925	2311	2271	1913	3137	3416	2633	5448	5687	4546
12-13	3727	4403	2758	2036	2200	1893	3354	3963	2482	5390	6163	4375
13-14	3775	4139	2663	2055	2159	1952	3398	3725	2397	5453	5894	4349
14-15	3626	3337	2878	2316	2459	2388	3263	3003	2590	5579	5462	4978
15-16	3098	2988	3004	2256	2473	2697	2788	2689	2704	5044	5162	5401
16-17	2927	3549	3322	2726	2739	3213	2634	3194	2990	5360	6933	6003
17-18	3384	3238	3473	2730	2994	3481	3046	2914	3126	5776	5808	6607
18-19	2788	2620	2812	2608	2797	2371	2509	2358	2531	5117	5155	4902
19-20	2294	2257	1865	2108	2260	1680	2065	2031	1679	4173	4291	3399
20-21	2087	2013	1439	1604	1646	1231	1878	1812	1295	3482	3456	2526
21-22	1721	1649	1118	1481	1476	1039	1549	1484	1006	3030	2960	2045
22-23	1517	1083	665	1357	1001	697	1365	975	599	2722	1976	1296
23-24	1010	519	344	848	531	399	909	467	310	1757	998	709

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxx All lanes on GGB open to traffic
- xxxx Volume exceeds capacity

Assumptions

- Speed Limit 65 mph Speed limit
- Base Capacity 1850 pc/h/lane
- Lanes 2
- Volume Distribution 10% of GGB traffic will not drive and/or use public transit and other modes of transportation.
- Adjustment for Heavy Vehicles 100% of GGB detour traffic will use Interstate 580
- Volume / Capacity 0.97
- Peak Hour Factor 0.94
- Adjustment for Driver Pop. 0.95
- Average Rate of Vehicle Storage 100 vehicles / lane / mile

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a b VEH	b VEH	c a2+c1. VPH	d b2+c1+. VEH	e e-d VEH	f (e1+e2)/2 VEH	g f/(Vpl+Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	683	3,146	683	3,146	0	0	0.0	0.0
	1-2	364	3,146	1,047	3,829	0	0	0.0	0.0
	2-3	232	3,146	1,279	4,193	0	0	0.0	0.0
	3-4	228	3,146	1,507	4,425	0	0	0.0	0.0
	4-5	328	3,146	1,835	4,653	0	0	0.0	0.0
	5-6	683	3,146	2,528	4,961	0	0	0.0	0.0
	6-7	1,346	3,146	3,874	5,674	0	0	0.0	0.0
	7-8	2,406	3,146	6,280	7,020	0	0	0.0	0.0
	8-9	3,380	3,146	9,660	9,426	234	117	0.6	0.1
	9-10	4,447	3,146	14,107	12,806	1,301	768	3.8	0.5
	10-11	5,031	3,146	19,138	17,253	1,885	1,593	8.0	1.0
	11-12	5,448	3,146	24,585	22,284	2,302	2,093	10.5	1.3
	12-13	5,390	3,146	29,976	27,731	2,244	2,273	11.4	1.4
	13-14	5,453	3,146	35,428	33,122	2,307	2,275	11.4	1.4
	14-15	5,579	3,146	41,007	38,574	2,433	2,370	11.8	1.5
	15-16	5,044	3,146	46,052	44,153	1,898	2,166	10.8	1.4
	16-17	5,360	3,146	51,412	49,198	2,214	2,056	10.3	1.3
	17-18	5,776	3,146	57,188	54,558	2,630	2,422	12.1	1.5
	18-19	5,117	3,146	62,305	60,334	1,971	2,300	11.5	1.5
	19-20	4,173	3,146	66,477	65,451	1,027	1,499	7.5	1.0
	20-21	3,146	3,146	69,623	69,623	336	681	3.4	0.4
	21-22	3,030	3,146	72,990	73,106	0	168	0.8	0.1
	22-23	2,722	3,146	75,712	76,136	0	0	0.0	0.0
	23-24	1,757	3,146	77,469	78,858	0	0	0.0	0.0
Sunday	0-1	926	3,146	78,395	80,615	0	0	0.0	0.0
	1-2	458	3,146	78,853	81,541	0	0	0.0	0.0
	2-3	277	3,146	79,130	81,999	0	0	0.0	0.0
	3-4	210	3,146	79,340	82,278	0	0	0.0	0.0
	4-5	277	3,146	79,617	82,486	0	0	0.0	0.0
	5-6	516	3,146	80,133	82,763	0	0	0.0	0.0
	6-7	1,076	3,146	81,209	83,279	0	0	0.0	0.0
	7-8	1,585	3,146	82,793	84,355	0	0	0.0	0.0
	8-9	2,474	3,146	85,267	85,939	0	0	0.0	0.0
	9-10	3,778	3,146	89,045	88,413	632	316	1.6	0.2
	10-11	5,206	3,146	94,251	92,191	2,060	1,346	6.7	0.9
	11-12	5,687	3,146	99,939	97,397	2,541	2,301	11.5	1.5
	12-13	6,163	3,146	106,101	103,085	3,017	2,779	13.9	1.8
	13-14	5,884	3,146	111,985	109,247	2,738	2,877	14.4	1.8
	14-15	5,462	3,146	117,448	115,131	2,316	2,527	12.6	1.6
	15-16	5,162	3,146	122,610	120,594	2,016	2,166	10.8	1.4
	16-17	5,933	3,146	128,543	125,756	2,787	2,402	12.0	1.5
	17-18	5,908	3,146	134,451	131,689	2,762	2,775	13.9	1.8
	18-19	5,155	3,146	139,606	137,597	2,009	2,386	11.9	1.5
	19-20	4,291	3,146	143,897	142,752	1,145	1,577	7.9	1.0
	20-21	3,458	3,146	147,355	147,043	312	729	3.6	0.5
	21-22	2,960	3,146	150,315	150,501	0	156	0.8	0.0
	22-23	1,976	3,146	152,291	153,461	0	0	0.0	0.0
	23-24	998	3,146	153,289	155,437	0	0	0.0	0.0
Monday	0-1	456	3,146	153,745	156,435	0	0	0.0	0.0
	1-2	275	3,146	154,020	156,891	0	0	0.0	0.0
	2-3	229	3,146	154,249	157,166	0	0	0.0	0.0
	3-4	253	3,146	154,502	157,395	0	0	0.0	0.0
	4-5	814	3,146	155,316	157,648	0	0	0.0	0.0
	5-6	904	3,146	156,220	158,462	0	0	0.0	0.0
	6-7	1,544	3,146	157,764	159,366	0	0	0.0	0.0
	7-8	2,043	3,146	159,807	160,910	0	0	0.0	0.0
	8-9	2,128	3,146	161,935	162,953	0	0	0.0	0.0
	9-10	1,840	3,146	163,775	165,081	0	0	0.0	0.0
	10-11	1,842	3,146	165,617	166,921	0	0	0.0	0.0
	11-12	1,913	3,146	167,530	168,763	0	0	0.0	0.0
	12-13	1,893	3,146	169,423	170,676	0	0	0.0	0.0
	13-14	1,962	3,146	171,375	172,569	0	0	0.0	0.0
	14-15	2,388	3,146	173,763	174,521	0	0	0.0	0.0
	15-16	2,697	3,146	176,460	176,909	0	0	0.0	0.0
	16-17	3,213	3,146	179,673	179,606	67	34	0.2	0.0
	17-18	3,481	3,146	183,154	182,819	335	201	1.0	0.1
	18-19	2,371	3,146	185,525	186,300	0	168	0.8	0.0
	19-20	1,680	3,146	187,205	188,671	0	0	0.0	0.0
	20-21	1,231	3,146	188,436	190,351	0	0	0.0	0.0
	21-22	1,039	3,146	189,475	191,582	0	0	0.0	0.0
	22-23	697	3,146	190,172	192,621	0	0	0.0	0.0
	23-24	399	3,146	190,571	193,318	0	0	0.0	0.0

Notes:

xx Queue length is greater than 0 miles  
 xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)			Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	490	487	305	963	899	557	1453	1386	862
1-2	583	612	346	222	323	195	525	551	311	747	874	506
2-3	437	470	173	195	201	119	393	423	156	586	624	275
3-4	243	259	129	144	135	179	219	233	116	363	368	295
4-5	179	172	163	277	203	393	161	155	147	438	358	540
5-6	373	217	386	508	332	1085	336	195	347	844	527	1432
6-7	603	426	1059	1032	621	2933	543	383	953	1575	1004	3866
7-8	1223	814	2348	1737	1024	3653	1101	733	2113	2838	1757	5766
8-9	2100	1562	3095	2380	1428	3417	1890	1406	2786	4270	2834	6203
9-10	3044	2565	2815	2796	2072	2818	2740	2309	2534	5536	4381	5352
10-11	3829	3441	2971	3207	2570	2162	3446	3097	2674	6853	5697	4836
11-12	3727	3633	3183	3206	2934	2097	3354	3270	2865	6560	6204	4862
12-13	3486	3027	3275	3288	2892	1992	3137	2724	2948	6425	5516	4940
13-14	3266	2955	3259	3282	2925	2080	2939	2660	2933	6221	5585	5013
14-15	3000	2624	3812	3272	2631	1810	2700	2362	3431	5972	4993	5241
15-16	2883	2368	4423	2867	2686	1938	2595	2131	3981	5462	4817	5919
16-17	3071	2460	4621	2533	2519	2110	2764	2214	4159	5297	4733	6269
17-18	4223	3863	4953	2373	2396	2252	3901	3477	4458	8174	6913	6710
18-19	5622	5643	4195	1894	1865	2090	5050	5079	3776	8944	6944	5866
19-20	3136	3109	2737	1411	1578	1425	2822	2798	2463	4233	4376	3888
20-21	2029	2309	1961	1281	1435	1001	1826	2078	1765	3107	3513	2766
21-22	1882	2433	1635	1374	1219	929	1694	2190	1472	3068	3409	2401
22-23	2306	1932	1233	1335	949	716	2075	1739	1110	3410	2688	1826
23-24	1539	1067	795	735	588	476	1385	960	716	2120	1548	1192

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxxx All lanes on GGB open to traffic
- xxxxx Volume exceeds capacity

Assumptions

- Speed Limit 65 mph Speed limit
- Base Capacity 1850 VPH per Lane
- Lanes 2
- Volume Distribution 10% of GGB traffic will not drive and/or use public transit and other modes of transportation.
- 100% of GGB detour traffic will use Interstate 580
- djustment for Heavy Vehicles 0.97
- Volume / Capacity 0.99
- Peak Hour Factor 0.95
- Adjustment for Driver Pop. 0.975
- Average Rate of Storage 100 vehicles / lane / mile



**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (WESTBOUND)**

Day	Hours	Demand a VEH	Capacity b VEH	Cum Demand c a2+c1+ VEH	Cum Output d b2+c1+ VEH	Cum Queue e c-d VEH	Average Queue f (e1+e2)/2 VEH	Average Queue Distance g f/(Vp1+Lanes) MILES	Average Queue Delay h e1*(a2-b2)/b2 HOURS
Saturday	0-1	1,453	3,146	1,453	3,146	0	0	0.0	0.0
	1-2	747	3,146	2,200	4,599	0	0	0.0	0.0
	2-3	588	3,146	2,788	5,346	0	0	0.0	0.0
	3-4	363	3,146	3,151	5,934	0	0	0.0	0.0
	4-5	438	3,146	3,589	6,297	0	0	0.0	0.0
	5-6	944	3,146	4,433	6,735	0	0	0.0	0.0
	6-7	1,575	3,146	6,007	7,579	0	0	0.0	0.0
	7-8	2,838	3,146	8,845	9,153	0	0	0.0	0.0
	8-9	4,270	3,146	13,115	11,991	1,124	562	2.8	0.4
	9-10	5,536	3,146	18,651	16,261	2,390	1,757	8.8	1.1
	10-11	6,653	3,146	25,304	21,797	3,507	2,948	14.7	1.9
	11-12	8,500	3,146	33,804	23,500	3,413	3,413	17.3	2.2
	12-13	6,425	3,146	38,289	35,010	3,279	3,347	16.7	2.1
	13-14	6,221	3,146	44,511	41,435	3,075	3,177	18.9	2.0
	14-15	5,972	3,146	50,483	47,657	2,826	2,951	14.8	1.9
	15-16	5,462	3,146	55,944	53,629	2,316	2,571	12.9	1.6
	16-17	5,297	3,146	61,241	59,090	2,151	2,233	11.2	1.4
	17-18	6,174	3,146	67,415	64,387	3,028	2,589	12.9	1.6
	18-19	6,944	3,146	74,359	70,561	3,798	3,413	17.1	2.2
	19-20	4,233	3,146	78,592	77,505	1,087	2,443	12.2	1.6
	20-21	3,107	3,146	81,699	81,738	0	544	2.7	0.3
	21-22	3,068	3,146	84,767	84,845	0	0	0.0	0.0
	22-23	3,410	3,146	88,178	87,913	264	132	0.7	0.1
	23-24	2,120	3,146	90,298	91,324	0	132	0.7	0.0
Sunday	0-1	1,386	3,146	1,386	3,146	0	0	0.0	0.0
	1-2	874	3,146	2,260	4,830	0	0	0.0	0.0
	2-3	624	3,146	2,884	5,704	0	0	0.0	0.0
	3-4	368	3,146	3,252	6,328	0	0	0.0	0.0
	4-5	358	3,146	3,610	6,696	0	0	0.0	0.0
	5-6	527	3,146	4,137	7,053	0	0	0.0	0.0
	6-7	1,004	3,146	5,141	7,581	0	0	0.0	0.0
	7-8	1,757	3,146	6,898	8,585	0	0	0.0	0.0
	8-9	2,834	3,146	9,732	10,030	0	0	0.0	0.0
	9-10	4,381	3,146	14,113	10,376	1,235	617	3.1	0.4
	10-11	5,667	3,146	19,780	10,556	2,221	1,878	9.4	1.2
	11-12	6,204	3,146	25,984	11,323	3,058	2,769	13.9	1.8
	12-13	5,616	3,146	31,600	11,927	2,470	2,764	13.8	1.8
	13-14	5,585	3,146	37,185	12,543	2,439	2,454	12.3	1.6
	14-15	4,993	3,146	42,178	13,027	1,847	2,143	10.7	1.4
	15-16	4,817	3,146	47,000	13,520	1,671	1,759	8.8	1.1
	16-17	4,733	3,146	51,733	14,037	1,587	1,629	8.1	1.0
	17-18	3,873	3,146	55,606	14,570	2,727	2,157	10.8	1.4
	18-19	6,944	3,146	62,550	15,043	3,798	3,262	18.3	2.1
	19-20	4,376	3,146	66,926	15,987	1,230	2,514	12.6	1.6
	20-21	3,513	3,146	70,439	16,363	367	799	4.0	0.5
	21-22	3,409	3,146	73,848	16,876	263	315	1.6	0.2
	22-23	2,688	3,146	76,466	16,826	0	131	0.7	0.0
	23-24	1,548	3,146	78,014	17,075	0	0	0.0	0.0
Monday	0-1	862	3,146	862	3,146	0	0	0.0	0.0
	1-2	506	3,146	1,368	3,833	0	0	0.0	0.0
	2-3	275	3,146	1,643	4,889	0	0	0.0	0.0
	3-4	295	3,146	1,938	5,164	0	0	0.0	0.0
	4-5	540	3,146	2,478	5,459	0	0	0.0	0.0
	5-6	1,085	3,146	3,563	5,999	0	0	0.0	0.0
	6-7	2,933	3,146	6,496	6,771	0	0	0.0	0.0
	7-8	3,653	3,146	10,149	7,017	507	254	1.3	0.2
	8-9	3,417	3,146	13,566	7,370	271	389	1.9	0.2
	9-10	2,818	3,146	16,384	7,687	0	136	0.7	0.0
	10-11	2,162	3,146	18,546	7,905	0	0	0.0	0.0
	11-12	2,097	3,146	20,643	8,067	0	0	0.0	0.0
	12-13	1,992	3,146	22,655	8,164	0	0	0.0	0.0
	13-14	2,080	3,146	24,735	8,156	0	0	0.0	0.0
	14-15	1,810	3,146	26,545	8,236	0	0	0.0	0.0
	15-16	1,938	3,146	28,483	8,306	0	0	0.0	0.0
	16-17	2,110	3,146	30,593	8,384	0	0	0.0	0.0
	17-18	2,252	3,146	32,845	8,404	0	0	0.0	0.0
	18-19	2,090	3,146	34,935	8,346	0	0	0.0	0.0
	19-20	1,425	3,146	36,360	8,336	0	0	0.0	0.0
	20-21	1,001	3,146	37,361	8,361	0	0	0.0	0.0
	21-22	929	3,146	38,290	8,362	0	0	0.0	0.0
	22-23	716	3,146	39,006	8,361	0	0	0.0	0.0
	23-24	476	3,146	39,480	8,367	0	0	0.0	0.0

**Notes:**

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 80	8,352	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)			Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	3881	3897	2516	963	899	557	4844	4796	3073
1-2	583	612	346	3002	3231	1348	525	551	311	3527	3782	1659
2-3	437	470	173	2940	3463	982	393	423	156	3333	3886	1138
3-4	243	259	129	1482	1875	731	219	233	116	1701	2108	847
4-5	179	172	163	1012	1043	853	161	155	147	1173	1198	1000
5-6	373	217	386	1361	1065	1730	336	195	347	1697	1260	2077
6-7	603	426	1059	2127	1644	3785	543	383	953	2670	2027	4738
7-8	1223	814	2348	3429	2587	6180	1101	733	2113	4530	3320	8293
8-9	2100	1562	3095	4777	3537	6753	1890	1406	2786	6667	4943	9539
9-10	3044	2565	2815	5709	4673	5859	2740	2309	2534	8440	6962	8343
10-11	3829	3441	2971	6669	5693	5575	3446	3097	2674	10115	8730	8249
11-12	3727	3633	3183	6814	6125	5577	3354	3270	2865	10168	9395	8442
12-13	3486	3027	3275	6573	6474	6010	3137	2724	2948	9710	9198	8968
13-14	3266	2955	3259	6513	6773	6510	2939	2660	2933	9462	9433	9443
14-15	3000	2624	3812	7202	6917	7893	2700	2362	3431	9902	9279	11324
15-16	2883	2368	4423	7574	6993	8608	2595	2131	3981	10169	9124	12589
16-17	3071	2460	4621	7171	7571	8292	2764	2214	4159	9935	9785	12451
17-18	4223	3863	4853	7554	7417	7818	3901	3477	4458	11855	10994	12276
18-19	5622	5643	4195	7853	7892	6819	5060	5079	3776	12913	12771	10585
19-20	3136	3109	2737	7459	7460	5831	2822	2798	2463	10281	10258	8294
20-21	2029	2309	1961	7461	7342	4968	1826	2078	1765	9287	9420	6733
21-22	1882	2433	1635	6344	7226	4493	1694	2190	1472	8038	9416	5965
22-23	2306	1932	1233	6303	7276	3988	2075	1739	1110	8378	9015	5098
23-24	1539	1067	795	5035	4387	2881	1385	960	716	6420	5347	3597

Notes:

<sup>(1)</sup>pc/h passenger cars per hour

xxxx All lanes on GGB open to traffic

xxxx Volume exceeds capacity

Assumptions

Speed Limit	65 mph	Speed limit
Base Capacity	1850 VPH per Lane	
Lanes	5	
Volume Distribution	10% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.93	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a VEH	b VEH	a2+c1- VPH	d b2+c1+ VEH	e c-d VEH	f (e1+e2)/2 VEH	g f/(Vplm/Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	4,844	8,352	4,844	8,352	0	0	0.0	0.0
	1-2	3,527	8,352	8,371	13,196	0	0	0.0	0.0
	2-3	3,333	8,352	11,704	16,723	0	0	0.0	0.0
	3-4	1,701	8,352	13,405	20,056	0	0	0.0	0.0
	4-5	1,173	8,352	14,578	21,757	0	0	0.0	0.0
	5-6	1,697	8,352	16,275	22,930	0	0	0.0	0.0
	6-7	2,670	8,352	18,944	24,627	0	0	0.0	0.0
	7-8	4,530	8,352	23,474	27,297	0	0	0.0	0.0
	8-9	6,667	8,352	30,141	31,826	0	0	0.0	0.0
	9-10	8,449	8,352	38,590	38,493	96	48	0.1	0.0
	10-11	10,115	8,352	48,705	46,942	1,763	930	1.9	0.2
	11-12	10,168	8,352	58,873	57,057	1,816	1,789	3.6	0.4
	12-13	9,710	8,352	68,583	67,225	1,358	1,567	3.2	0.4
	13-14	9,452	8,352	78,036	76,936	1,100	1,229	2.5	0.3
	14-15	9,902	8,352	87,938	86,388	1,550	1,325	2.6	0.3
	15-16	10,169	8,352	98,106	96,290	1,816	1,683	3.4	0.4
	16-17	9,935	8,352	108,041	106,459	1,583	1,699	3.4	0.4
	17-18	11,355	8,352	119,396	116,394	3,002	2,292	4.6	0.5
	18-19	12,103	8,352	131,500	127,313	4,187	3,373	7.1	1.1
	19-20	10,281	8,352	142,590	140,661	1,929	3,245	6.5	0.8
	20-21	9,287	8,352	151,877	150,943	935	1,432	2.9	0.3
	21-22	8,038	8,352	159,915	160,230	0	467	0.9	0.1
	22-23	8,378	8,352	168,294	168,267	26	13	0.0	0.0
	23-24	6,420	8,352	174,714	176,646	0	13	0.0	0.0
Sunday	0-1	4,796	8,352	4,796	8,352	0	0	0.0	0.0
	1-2	3,762	8,352	8,558	13,114	0	0	0.0	0.0
	2-3	3,896	8,352	12,454	16,910	0	0	0.0	0.0
	3-4	2,108	8,352	14,562	19,018	0	0	0.0	0.0
	4-5	1,198	8,352	15,760	19,736	0	0	0.0	0.0
	5-6	1,260	8,352	17,020	20,996	0	0	0.0	0.0
	6-7	2,027	8,352	19,047	23,023	0	0	0.0	0.0
	7-8	3,320	8,352	22,367	26,343	0	0	0.0	0.0
	8-9	4,943	8,352	27,310	31,286	0	0	0.0	0.0
	9-10	6,982	8,352	34,292	38,268	0	0	0.0	0.0
	10-11	8,790	8,352	43,082	47,060	438	219	0.4	0.1
	11-12	9,395	8,352	52,477	56,455	1,042	740	1.5	0.2
	12-13	9,198	8,352	61,675	65,653	846	944	1.9	0.2
	13-14	9,433	8,352	71,108	75,586	1,080	963	1.9	0.2
	14-15	9,279	8,352	80,387	85,065	926	1,003	2.0	0.2
	15-16	9,124	8,352	89,511	94,439	772	849	1.7	0.2
	16-17	9,785	8,352	98,296	103,924	1,433	1,102	2.2	0.3
	17-18	10,894	8,352	108,190	114,118	2,541	1,987	4.0	0.5
	18-19	12,771	8,352	120,961	127,689	4,418	3,480	7.0	0.8
	19-20	10,258	8,352	131,219	138,947	3,065	1,906	3.1	0.4
	20-21	9,420	8,352	140,639	148,367	1,068	1,487	3.0	0.4
	21-22	9,416	8,352	150,055	157,883	1,063	1,066	2.1	0.3
	22-23	9,015	8,352	159,070	167,398	662	863	1.7	0.2
	23-24	5,347	8,352	164,417	172,745	0	331	0.7	0.0
Monday	0-1	3,073	8,352	3,073	8,352	0	0	0.0	0.0
	1-2	1,659	8,352	4,732	10,011	0	0	0.0	0.0
	2-3	1,138	8,352	5,870	11,149	0	0	0.0	0.0
	3-4	847	8,352	6,717	12,287	0	0	0.0	0.0
	4-5	1,000	8,352	7,717	13,425	0	0	0.0	0.0
	5-6	1,730	8,352	9,447	15,155	0	0	0.0	0.0
	6-7	3,785	8,352	13,232	18,940	0	0	0.0	0.0
	7-8	6,180	8,352	19,412	25,120	0	0	0.0	0.0
	8-9	6,753	8,352	26,165	31,873	0	0	0.0	0.0
	9-10	8,859	8,352	35,024	38,932	0	0	0.0	0.0
	10-11	5,575	8,352	40,599	44,407	0	0	0.0	0.0
	11-12	5,577	8,352	46,176	49,984	0	0	0.0	0.0
	12-13	6,010	8,352	52,186	56,094	0	0	0.0	0.0
	13-14	6,510	8,352	58,696	62,604	0	0	0.0	0.0
	14-15	7,893	8,352	66,589	70,497	0	0	0.0	0.0
	15-16	8,608	8,352	75,197	79,105	256	128	0.3	0.0
	16-17	8,292	8,352	83,489	87,397	0	128	0.3	0.0
	17-18	7,818	8,352	91,307	95,205	0	0	0.0	0.0
	18-19	6,819	8,352	98,126	101,024	0	0	0.0	0.0
	19-20	5,831	8,352	103,957	106,855	0	0	0.0	0.0
	20-21	4,968	8,352	108,925	111,823	0	0	0.0	0.0
	21-22	4,493	8,352	113,432	116,330	0	0	0.0	0.0
	22-23	3,988	8,352	117,420	120,318	0	0	0.0	0.0
	23-24	2,881	8,352	120,301	123,206	0	0	0.0	0.0

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 80	8,352	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)			Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	2032	2447	1492	322	437	220	2354	2884	1712
1-2	200	212	139	1351	1903	859	180	191	125	1531	2094	984
2-3	119	138	107	1118	1081	812	107	124	96	1225	1205	908
3-4	124	130	157	1168	966	1342	112	117	141	1280	1083	1483
4-5	174	170	510	1791	1391	3531	157	153	459	1948	1544	3990
5-6	406	335	1312	3333	2176	8412	365	302	1181	3698	2478	9693
6-7	839	690	2875	4350	3114	9144	755	621	2588	5105	3735	11732
7-8	1491	963	4377	4721	3568	8453	1342	867	3939	6063	4435	12392
8-9	2197	1564	4844	6034	4975	7688	1977	1408	4360	8011	6383	12048
9-10	2861	2442	3665	7234	6529	8099	2575	2198	3299	3005	3717	11398
10-11	3054	3417	3040	7954	8090	7228	2749	3075	2736	10703	11165	9964
11-12	3485	3796	2925	8051	7909	7249	3137	3416	2633	11188	11325	9882
12-13	3727	4403	2758	6861	8171	6654	3354	3963	2482	10215	12134	9136
13-14	3775	4139	2663	7575	6911	6153	3398	3725	2397	10973	10636	8550
14-15	3626	3337	2878	7876	7273	6467	3263	3003	2590	11139	10276	9057
15-16	3098	2988	3004	7947	7260	6032	2788	2669	2704	10735	9949	8736
16-17	2927	3549	3322	7731	7392	7017	2634	3194	2990	10965	10586	10007
17-18	3384	3238	3473	7740	7502	6777	3046	2914	3126	10788	10416	9903
18-19	2788	2620	2812	6972	7227	5627	2509	2358	2531	9481	9585	8158
19-20	2294	2257	1865	6154	6538	4841	2065	2031	1679	8219	8569	6520
20-21	2087	2013	1439	5900	6238	4056	1878	1812	1295	7778	8050	5351
21-22	1721	1649	1118	6548	5640	3828	1549	1484	1006	8097	7124	4834
22-23	1517	1083	665	6058	5045	3362	1365	975	599	7423	6020	3961
23-24	1010	519	344	4502	2792	2052	909	467	310	5411	3259	2362

Notes:

- <sup>(1)</sup>pc/h, passenger cars per hour
- xxxx All lanes on GGB open to traffic
- xxxx Volume exceeds capacity

**Assumptions**

Speed Limit	65 mph	Speed limit
Base Capacity	1850 pc/h/lane	
Lanes	5	
Volume Distribution	10% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.99	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (WESTBOUND)**

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay	
		a VEH	b VEH	c a2+c1.. VPH	d b2+c1+.. VEH	e c-d VEH	f (e1+e2)/2 VEH	g l/(Vplm*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS	
Saturday	0-1	2,354	8,352	2,354	0	8,352	0	0.0	0.0	
	1-2	1,531	8,352	3,885	10,707	0	0	0.0	0.0	
	2-3	1,225	8,352	5,110	12,238	0	0	0.0	0.0	
	3-4	1,280	8,352	6,390	13,463	0	0	0.0	0.0	
	4-5	1,948	8,352	8,338	14,742	0	0	0.0	0.0	
	5-6	3,698	8,352	12,036	16,690	0	0	0.0	0.0	
	6-7	5,105	8,352	17,141	20,388	0	0	0.0	0.0	
	7-8	6,063	8,352	23,204	25,493	0	0	0.0	0.0	
	8-9	8,011	8,352	31,215	31,556	0	0	0.0	0.0	
	9-10	9,809	8,352	41,024	39,568	1,457	728	1.5	0.2	
	10-11	10,703	8,352	51,727	49,376	2,350	1,903	3.8	0.5	
	11-12	11,188	8,352	62,914	60,079	2,835	2,593	5.2	0.6	
	12-13	10,215	8,352	73,130	71,267	1,863	2,349	4.7	0.6	
	13-14	10,973	8,352	84,102	81,482	2,620	2,242	4.5	0.5	
	14-15	11,139	8,352	95,241	92,454	2,787	2,704	5.4	0.6	
	15-16	10,735	8,352	105,976	103,594	2,383	2,585	5.2	0.6	
	16-17	10,365	8,352	116,342	114,329	2,013	2,198	4.4	0.5	
	17-18	10,786	8,352	127,128	124,694	2,433	2,223	4.4	0.5	
	18-19	9,481	8,352	136,609	135,480	1,129	1,781	3.6	0.4	
	19-20	8,219	8,352	144,827	144,961	0	564	1.1	0.1	
	20-21	7,778	8,352	152,606	153,180	0	0	0.0	0.0	
	21-22	8,097	8,352	160,703	160,958	0	0	0.0	0.0	
	22-23	7,423	8,352	168,126	169,055	0	0	0.0	0.0	
	23-24	5,411	8,352	173,537	176,478	0	0	0.0	0.0	
Sunday	0-1	2,884	8,352	2,884	0	8,352	0	0.0	0.0	
	1-2	2,094	8,352	4,978	18,774	0	0	0.0	0.0	
	2-3	1,205	8,352	6,183	19,867	0	0	0.0	0.0	
	3-4	1,083	8,352	7,266	20,950	0	0	0.0	0.0	
	4-5	1,544	8,352	8,810	22,494	0	0	0.0	0.0	
	5-6	2,478	8,352	11,288	24,038	0	0	0.0	0.0	
	6-7	3,735	8,352	15,023	25,582	0	0	0.0	0.0	
	7-8	4,435	8,352	19,458	27,126	0	0	0.0	0.0	
	8-9	6,383	8,352	25,841	28,670	0	0	0.0	0.0	
	9-10	8,727	8,352	34,568	29,714	374	187	0.4	0.0	
	10-11	11,165	8,352	45,733	31,258	2,813	1,594	3.2	0.4	
	11-12	11,325	8,352	57,058	32,802	2,973	2,893	5.8	0.7	
	12-13	10,157	8,352	67,215	34,346	3,731	3,371	6.1	0.6	
	13-14	10,636	8,352	77,851	35,890	2,284	3,033	6.1	0.7	
	14-15	10,276	8,352	88,127	37,434	1,924	2,704	4.2	0.5	
	15-16	9,949	8,352	97,076	38,978	1,597	1,760	3.5	0.4	
	16-17	10,586	8,352	107,662	40,522	2,234	1,915	3.8	0.5	
	17-18	10,416	8,352	118,078	42,066	2,064	2,149	4.3	0.5	
	18-19	9,585	8,352	127,663	43,610	1,233	1,648	3.3	0.4	
	19-20	8,569	8,352	136,232	45,154	217	725	1.4	0.2	
	20-21	8,050	8,352	144,282	46,700	0	108	0.2	0.0	
	21-22	7,124	8,352	151,406	48,244	0	0	0.0	0.0	
	22-23	6,020	8,352	157,426	49,788	0	0	0.0	0.0	
	23-24	3,259	8,352	160,685	51,332	0	0	0.0	0.0	
Monday	0-1	1,712	8,352	1,712	345,551	0	0	0.0	0.0	
	1-2	984	8,352	2,696	347,263	0	0	0.0	0.0	
	2-3	938	8,352	3,634	348,247	0	0	0.0	0.0	
	3-4	1,483	8,352	5,117	349,155	0	0	0.0	0.0	
	4-5	3,531	8,352	8,648	350,639	0	0	0.0	0.0	
	5-6	8,412	8,352	17,060	351,770	60	30	0.1	0.0	
	6-7	9,144	8,352	26,204	352,582	792	426	0.9	0.1	
	7-8	8,453	8,352	34,657	371,726	101	446	0.9	0.1	
	8-9	7,688	8,352	42,345	380,179	0	50	0.1	0.0	
	9-10	8,099	8,352	50,444	387,867	0	0	0.0	0.0	
	10-11	7,228	8,352	57,672	394,841	395,966	0	0	0.0	0.0
	11-12	7,249	8,352	64,921	403,194	0	0	0.0	0.0	
	12-13	6,654	8,352	71,575	410,443	0	0	0.0	0.0	
	13-14	6,153	8,352	77,728	414,897	417,097	0	0	0.0	0.0
	14-15	6,467	8,352	84,195	423,250	0	0	0.0	0.0	
	15-16	6,032	8,352	90,227	427,396	429,717	0	0	0.0	0.0
	16-17	7,017	8,352	96,244	435,749	0	0	0.0	0.0	
	17-18	6,777	8,352	102,021	442,766	0	0	0.0	0.0	
	18-19	5,827	8,352	107,198	448,617	449,543	0	0	0.0	0.0
	19-20	4,841	8,352	111,039	451,658	455,170	0	0	0.0	0.0
	20-21	4,056	8,352	114,095	455,714	460,011	0	0	0.0	0.0
	21-22	3,828	8,352	117,923	459,542	464,067	0	0	0.0	0.0
	22-23	3,362	8,352	121,261	462,904	467,895	0	0	0.0	0.0
	23-24	2,052	8,352	123,313	464,956	471,257	0	0	0.0	0.0

**Notes:**

- Queue length is greater than 0 miles
- Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)			Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	361	489	236	286	389	195	647	878	431
1-2	200	212	139	184	267	150	160	170	111	344	437	261
2-3	119	138	107	125	153	133	95	110	86	220	263	219
3-4	124	130	157	116	93	112	99	104	126	215	197	238
4-5	174	170	510	171	124	355	139	136	408	310	260	763
5-6	406	335	1312	328	214	904	325	268	1050	653	482	1854
6-7	839	690	2875	591	455	1544	671	552	2300	1262	1007	3844
7-8	1491	963	4377	1064	718	2043	1193	770	3502	2257	1488	5545
8-9	2197	1564	4844	1403	1066	2128	1758	1251	3875	3161	2317	6003
9-10	2861	2442	3665	1872	1580	1840	2289	1954	2932	4161	3334	4772
10-11	3054	3417	3040	2282	2131	1842	2443	2734	2432	4725	4866	4274
11-12	3485	3796	2925	2311	2271	1913	2788	3037	2340	5099	5308	4263
12-13	3727	4403	2758	2036	2200	1893	2982	3522	2206	5018	5722	4099
13-14	3775	4139	2663	2055	2159	1952	3020	3311	2130	5075	5470	4082
14-15	3626	3337	2878	2316	2459	2388	2901	2670	2302	5217	5129	4690
15-16	3098	2988	3004	2256	2473	2697	2478	2390	2403	4734	4863	5100
16-17	2927	3549	3322	2726	2739	3213	2342	2839	2858	5068	5578	5811
17-18	3384	3238	3473	2730	2994	3481	2707	2590	2778	5437	5554	6269
18-19	2788	2620	2812	2608	2797	2371	2230	2096	2250	4838	4893	4621
19-20	2294	2257	1865	2108	2260	1680	1835	1806	1492	3943	4066	3172
20-21	2087	2013	1439	1604	1646	1231	1670	1610	1151	3274	3256	2382
21-22	1721	1649	1118	1481	1476	1039	1377	1319	894	2858	2795	1933
22-23	1517	1083	665	1357	1001	697	1214	866	532	2571	1867	1229
23-24	1010	519	344	848	531	399	808	415	275	1656	946	674

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxx All lanes on GGB open to traffic
- xxxx Volume exceeds capacity

Assumptions	
Speed Limit	65 mph Speed limit
Base Capacity	1850 pc/h/lane
Lanes	2
Volume Distribution	20% of GGB traffic will not drive and/or use public transit and other modes of transportation. 100% of GGB detour traffic will use Interstate 580
Adjustment for Heavy Vehicles	0.97
Volume / Capacity	0.94
Peak Hour Factor	0.95
Adjustment for Driver Pop.	0.975
Average Rate of Vehicle Storage	100 vehicles / lane / mile

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a b VEH	b VEH	c a2+c1.. VPH	d b2+c1+.. VEH	e e-d VEH	f (e1+e2)/2 VEH	g f/(Vpl+Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	647	3,146	647	3,146	0	0	0.0	0.0
	1-2	344	3,146	991	3,793	0	0	0.0	0.0
	2-3	220	3,146	1,212	4,137	0	0	0.0	0.0
	3-4	215	3,146	1,427	4,358	0	0	0.0	0.0
	4-5	310	3,146	1,737	4,573	0	0	0.0	0.0
	5-6	653	3,146	2,390	4,863	0	0	0.0	0.0
	6-7	1,262	3,146	3,652	5,536	0	0	0.0	0.0
	7-8	2,257	3,146	5,909	6,798	0	0	0.0	0.0
	8-9	3,161	3,146	9,069	9,055	15	7	0.0	0.0
	9-10	4,161	3,146	13,230	12,215	1,015	515	2.6	0.3
	10-11	4,725	3,146	17,955	16,376	1,579	1,297	6.5	0.8
	11-12	5,099	3,146	23,054	21,101	1,953	1,766	8.8	1.1
	12-13	5,018	3,146	28,072	26,200	1,872	1,912	9.6	1.2
	13-14	5,075	3,146	33,147	31,218	1,929	1,900	9.5	1.2
	14-15	5,217	3,146	38,364	36,293	2,071	2,000	10.0	1.3
	15-16	4,734	3,146	43,098	41,510	1,588	1,830	9.1	1.2
	16-17	5,068	3,146	48,166	46,244	1,922	1,755	8.8	1.1
	17-18	5,437	3,146	53,603	51,312	2,291	2,106	10.5	1.3
	18-19	4,838	3,146	58,441	56,749	1,692	1,992	10.0	1.3
	19-20	3,943	3,146	62,395	61,587	797	1,245	6.2	0.8
	20-21	3,274	3,146	65,658	65,531	128	462	2.3	0.3
	21-22	2,858	3,146	68,516	68,804	0	64	0.3	0.0
	22-23	2,571	3,146	71,087	71,662	0	0	0.0	0.0
	23-24	1,656	3,146	72,743	74,233	0	0	0.0	0.0
Sunday	0-1	878	3,146	73,620	75,889	0	0	0.0	0.0
	1-2	437	3,146	74,057	76,766	0	0	0.0	0.0
	2-3	263	3,146	74,320	77,203	0	0	0.0	0.0
	3-4	197	3,146	74,517	77,466	0	0	0.0	0.0
	4-5	260	3,146	74,777	77,663	0	0	0.0	0.0
	5-6	482	3,146	75,259	77,923	0	0	0.0	0.0
	6-7	1,007	3,146	76,266	78,405	0	0	0.0	0.0
	7-8	1,488	3,146	77,755	79,412	0	0	0.0	0.0
	8-9	2,317	3,146	80,072	80,901	0	0	0.0	0.0
	9-10	3,534	3,146	83,606	83,218	388	194	1.0	0.1
	10-11	4,865	3,146	88,470	86,752	1,719	1,053	5.3	0.7
	11-12	5,308	3,146	93,778	91,616	2,162	1,940	9.7	1.2
	12-13	5,722	3,146	99,500	96,924	2,576	2,369	11.8	1.5
	13-14	5,470	3,146	104,971	102,646	2,324	2,450	12.3	1.6
	14-15	5,129	3,146	110,099	108,117	1,983	2,153	10.8	1.4
	15-16	4,863	3,146	114,963	113,245	1,717	1,850	9.3	1.2
	16-17	5,578	3,146	120,541	118,109	2,432	2,075	10.4	1.3
	17-18	5,584	3,146	126,125	123,687	2,438	2,435	12.2	1.5
	18-19	4,893	3,146	131,018	129,271	1,747	2,093	10.5	1.3
	19-20	4,066	3,146	135,084	134,164	920	1,333	6.7	0.8
	20-21	3,256	3,146	138,340	138,230	110	515	2.6	0.3
	21-22	2,795	3,146	141,135	141,486	0	55	0.3	0.0
	22-23	1,867	3,146	143,003	144,281	0	0	0.0	0.0
	23-24	946	3,146	143,949	146,149	0	0	0.0	0.0
Monday	0-1	431	3,146	144,380	147,095	0	0	0.0	0.0
	1-2	261	3,146	144,641	147,536	0	0	0.0	0.0
	2-3	219	3,146	144,860	147,767	0	0	0.0	0.0
	3-4	238	3,146	145,098	148,006	0	0	0.0	0.0
	4-5	763	3,146	145,861	148,244	0	0	0.0	0.0
	5-6	904	3,146	146,765	149,007	0	0	0.0	0.0
	6-7	1,544	3,146	148,309	149,911	0	0	0.0	0.0
	7-8	2,043	3,146	150,352	151,455	0	0	0.0	0.0
	8-9	2,128	3,146	152,480	153,498	0	0	0.0	0.0
	9-10	1,840	3,146	154,320	155,626	0	0	0.0	0.0
	10-11	1,842	3,146	156,162	157,466	0	0	0.0	0.0
	11-12	1,913	3,146	158,075	159,308	0	0	0.0	0.0
	12-13	1,893	3,146	159,968	161,221	0	0	0.0	0.0
	13-14	1,962	3,146	161,920	163,114	0	0	0.0	0.0
	14-15	2,388	3,146	164,308	165,066	0	0	0.0	0.0
	15-16	2,697	3,146	167,005	167,454	0	0	0.0	0.0
	16-17	3,213	3,146	170,218	170,161	657	34	0.2	0.0
	17-18	3,481	3,146	173,699	173,364	335	201	1.0	0.1
	18-19	2,371	3,146	176,070	176,845	0	168	0.8	0.0
	19-20	1,680	3,146	177,750	179,216	0	0	0.0	0.0
	20-21	1,231	3,146	178,981	180,896	0	0	0.0	0.0
	21-22	1,039	3,146	180,020	182,127	0	0	0.0	0.0
	22-23	697	3,146	180,717	183,166	0	0	0.0	0.0
	23-24	399	3,146	181,116	183,963	0	0	0.0	0.0

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)			Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	490	487	305	856	799	495	1346	1286	800
1-2	583	612	346	222	323	195	466	490	277	688	813	472
2-3	437	470	173	195	201	119	350	376	138	545	577	257
3-4	243	259	129	144	135	179	194	207	103	338	342	282
4-5	179	172	163	277	203	393	143	138	130	420	341	523
5-6	373	217	386	508	332	1085	298	174	309	806	506	1394
6-7	603	426	1059	1032	621	2933	482	341	847	1514	962	3760
7-8	1223	814	2348	1737	1024	3653	978	651	1878	2715	1675	5531
8-9	2100	1562	3095	2380	1428	3417	1680	1250	2476	4060	2678	5893
9-10	3044	2565	2815	2796	2072	2818	2435	2052	2252	5231	4124	5070
10-11	3829	3441	2971	3207	2570	2162	3063	2753	2377	6270	5303	4539
11-12	3727	3633	3183	3206	2934	2097	2982	2906	2546	6188	5840	4843
12-13	3486	3027	3275	3288	2892	1992	2789	2422	2620	6077	5314	4612
13-14	3266	2955	3259	3282	2925	2080	2613	2364	2607	5895	5289	4687
14-15	3000	2624	3812	3272	2631	1810	2400	2099	3050	5672	4730	4860
15-16	2883	2368	4423	2867	2686	1938	2306	1894	3538	5173	4580	5476
16-17	3071	2460	4621	2533	2519	2110	2457	1968	3697	4990	4487	5807
17-18	4223	3863	4953	2373	2396	2252	3378	3090	3962	5761	5486	6214
18-19	5622	5643	4195	1894	1865	2090	4498	4514	3356	6382	6379	5446
19-20	3136	3109	2737	1411	1578	1425	2509	2487	2190	3920	4065	3615
20-21	2029	2309	1961	1281	1435	1001	1623	1847	1569	2904	3282	2570
21-22	1882	2433	1635	1374	1219	929	1506	1946	1308	2880	3165	2237
22-23	2306	1932	1233	1335	949	716	1845	1546	986	3180	2495	1702
23-24	1539	1067	795	735	588	476	1231	854	636	1966	1442	1112

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxxx All lanes on GGB open to traffic
- xxxxx Volume exceeds capacity

**Assumptions**

Speed Limit	65 mph	Speed limit
Base Capacity	1850 VPH per Lane	
Lanes	2	
Volume Distribution	20% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 580	
djustment for Heavy Vehicles	0.97	
Volume / Capacity	0.99	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Storage	100 vehicles / lane / mile	



**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (WESTBOUND)**

Day	Hours	Demand a VEH	Capacity b VEH	Cum Demand c a2+c1+ VEH	Cum Output d b2+c1+ VEH	Cum Queue e c-d VEH	Average Queue f (e1+e2)/2 VEH	Average Queue Distance g f/(Vp1+Lanes) MILES	Average Queue Delay h e1+(a2-b2)/b2 HOURS
Saturday	0-1	1,346	3,146	1,346	3,146	0	0	0.0	0.0
	1-2	688	3,146	2,034	4,492	0	0	0.0	0.0
	2-3	545	3,146	2,579	5,180	0	0	0.0	0.0
	3-4	338	3,146	2,917	5,725	0	0	0.0	0.0
	4-5	420	3,146	3,338	6,063	0	0	0.0	0.0
	5-6	806	3,146	4,144	6,484	0	0	0.0	0.0
	6-7	1,514	3,146	5,658	7,290	0	0	0.0	0.0
	7-8	2,715	3,146	8,374	8,804	0	0	0.0	0.0
	8-9	4,060	3,146	12,434	11,520	914	457	2.3	0.3
	9-10	5,231	3,146	17,665	15,580	2,085	1,500	7.5	1.0
	10-11	6,270	3,146	23,935	20,811	3,124	2,605	13.0	1.7
	11-12	5,123	3,146	20,723	21,051	3,327	3,033	15.4	2.0
	12-13	6,077	3,146	36,200	33,269	2,931	2,986	14.9	1.9
	13-14	5,895	3,146	42,094	39,346	2,749	2,840	14.2	1.8
	14-15	5,672	3,146	47,766	45,240	2,526	2,637	13.2	1.7
	15-16	5,173	3,146	52,940	50,912	2,027	2,277	11.4	1.4
	16-17	4,990	3,146	57,930	56,086	1,844	1,936	9.7	1.2
	17-18	5,751	3,146	63,681	61,076	2,605	2,225	11.1	1.4
	18-19	6,382	3,146	70,063	66,827	3,236	2,921	14.6	1.9
	19-20	3,920	3,146	73,982	73,209	774	2,005	10.0	1.3
	20-21	2,904	3,146	76,887	77,128	0	387	1.9	0.2
	21-22	2,880	3,146	79,766	80,033	0	0	0.0	0.0
	22-23	3,180	3,146	82,946	82,912	34	17	0.1	0.0
	23-24	1,966	3,146	84,912	86,092	0	17	0.1	0.0
Sunday	0-1	1,286	3,146	86,198	88,058	0	0	0.0	0.0
	1-2	813	3,146	87,011	89,344	0	0	0.0	0.0
	2-3	577	3,146	87,588	90,157	0	0	0.0	0.0
	3-4	342	3,146	87,930	90,734	0	0	0.0	0.0
	4-5	341	3,146	88,271	91,076	0	0	0.0	0.0
	5-6	506	3,146	88,776	91,417	0	0	0.0	0.0
	6-7	962	3,146	89,738	91,922	0	0	0.0	0.0
	7-8	1,675	3,146	91,413	92,884	0	0	0.0	0.0
	8-9	2,678	3,146	94,091	94,559	0	0	0.0	0.0
	9-10	4,124	3,146	98,215	97,237	978	489	2.4	0.3
	10-11	5,323	3,146	103,538	101,364	2,177	1,577	7.9	1.0
	11-12	5,840	3,146	109,378	106,684	2,694	2,436	12.2	1.5
	12-13	5,314	3,146	114,692	112,524	2,168	2,431	12.2	1.5
	13-14	5,289	3,146	119,981	117,838	2,143	2,155	10.8	1.4
	14-15	4,730	3,146	124,711	123,127	1,584	1,864	9.3	1.2
	15-16	4,580	3,146	129,291	127,857	1,434	1,509	7.5	1.0
	16-17	4,487	3,146	133,778	132,437	1,341	1,388	6.9	0.9
	17-18	5,486	3,146	139,265	136,924	2,340	1,841	9.2	1.2
	18-19	6,379	3,146	145,644	142,411	3,233	2,787	13.9	1.8
	19-20	4,065	3,146	149,709	148,790	919	2,076	10.4	1.3
	20-21	3,282	3,146	152,992	152,855	136	528	2.6	0.3
	21-22	3,165	3,146	156,157	156,138	19	78	0.4	0.0
	22-23	2,495	3,146	158,652	159,303	0	10	0.0	0.0
	23-24	1,442	3,146	160,093	161,798	0	0	0.0	0.0
Monday	0-1	800	3,146	160,893	163,239	0	0	0.0	0.0
	1-2	472	3,146	161,365	164,039	0	0	0.0	0.0
	2-3	257	3,146	161,623	164,511	0	0	0.0	0.0
	3-4	282	3,146	161,905	164,769	0	0	0.0	0.0
	4-5	523	3,146	162,428	165,051	0	0	0.0	0.0
	5-6	1,085	3,146	163,513	165,574	0	0	0.0	0.0
	6-7	2,933	3,146	166,446	166,659	0	0	0.0	0.0
	7-8	3,653	3,146	170,099	169,592	507	254	1.3	0.2
	8-9	3,417	3,146	173,516	173,245	271	389	1.9	0.2
	9-10	2,818	3,146	176,334	176,682	0	136	0.7	0.0
	10-11	2,162	3,146	178,496	179,480	0	0	0.0	0.0
	11-12	2,097	3,146	180,593	181,642	0	0	0.0	0.0
	12-13	1,992	3,146	182,585	183,739	0	0	0.0	0.0
	13-14	2,080	3,146	184,665	185,731	0	0	0.0	0.0
	14-15	1,810	3,146	186,475	187,811	0	0	0.0	0.0
	15-16	1,938	3,146	188,413	188,621	0	0	0.0	0.0
	16-17	2,110	3,146	190,523	191,559	0	0	0.0	0.0
	17-18	2,252	3,146	192,775	193,669	0	0	0.0	0.0
	18-19	2,090	3,146	194,865	195,921	0	0	0.0	0.0
	19-20	1,425	3,146	196,290	198,011	0	0	0.0	0.0
	20-21	1,001	3,146	197,291	199,436	0	0	0.0	0.0
	21-22	929	3,146	198,220	200,437	0	0	0.0	0.0
	22-23	716	3,146	198,936	201,366	0	0	0.0	0.0
	23-24	476	3,146	199,412	202,082	0	0	0.0	0.0

**Notes:**

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 80	8,352	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)			Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	3881	3897	2516	856	799	495	4737	4696	3011
1-2	583	612	346	3002	3231	1348	466	490	277	3468	3721	1625
2-3	437	470	173	2940	3463	982	350	376	138	3290	3839	1120
3-4	243	259	129	1482	1875	731	194	207	103	1676	2082	834
4-5	179	172	163	1012	1043	853	143	138	130	1155	1181	983
5-6	373	217	386	1361	1065	1730	298	174	309	1659	1239	2039
6-7	603	426	1059	2127	1644	3785	482	341	847	2609	1985	4632
7-8	1223	814	2348	3429	2587	6180	978	651	1878	4407	3238	8058
8-9	2100	1562	3095	4777	3537	6753	1680	1250	2476	6457	4787	9229
9-10	3044	2565	2815	5709	4673	5859	2435	2052	2252	8144	6725	8111
10-11	3829	3441	2971	6669	5693	5575	3063	2753	2377	9712	8416	7952
11-12	3727	3633	3183	6814	6125	5577	2982	2906	2546	9796	9031	8123
12-13	3486	3027	3275	6573	6474	6010	2789	2422	2620	9362	8896	8630
13-14	3266	2955	3259	6513	6773	6510	2613	2364	2607	9126	9137	9117
14-15	3000	2624	3812	7202	6917	7893	2400	2099	3050	9602	9016	10943
15-16	2883	2368	4423	7574	6993	8608	2306	1894	3538	9880	8887	12146
16-17	3071	2460	4621	7171	7571	8292	2457	1968	3697	9628	9539	11989
17-18	4223	3863	4853	7554	7417	7818	3378	3090	3962	10912	10597	11160
18-19	5622	5643	4195	7853	7892	6819	4498	4514	3356	12361	12206	10175
19-20	3136	3109	2737	7459	7460	5831	2509	2190	9988	9947	8021	
20-21	2029	2309	1961	7461	7342	4968	1623	1847	1569	9084	9189	6537
21-22	1882	2433	1635	6344	7226	4493	1506	1946	1308	7850	9172	5801
22-23	2306	1932	1233	6303	7276	3988	1845	1546	986	8148	8822	4974
23-24	1539	1067	795	5035	4387	2881	1231	854	636	6266	5241	3517

Notes:

<sup>(1)</sup>pc/h passenger cars per hour

xxxx All lanes on GGB open to traffic

xxxx Volume exceeds capacity

Assumptions

Speed Limit	65 mph	Speed limit
Base Capacity	1850	VPH per Lane
Lanes	5	
Volume Distribution	20% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.93	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay	
		a a VEH	b b VEH	c a2+c1- VPH	d b2+c1+ VEH	e c-d VEH	f (e1+e2)/2 VEH	g f/(Vplm*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS	
Saturday	0-1	4,737	8,352	4,737	8,352	0	0	0.0	0.0	
	1-2	3,468	8,352	8,205	13,089	0	0	0.0	0.0	
	2-3	3,290	8,352	11,495	16,558	0	0	0.0	0.0	
	3-4	1,676	8,352	13,171	19,847	0	0	0.0	0.0	
	4-5	1,155	8,352	14,327	21,524	0	0	0.0	0.0	
	5-6	1,659	8,352	15,986	22,679	0	0	0.0	0.0	
	6-7	2,609	8,352	18,595	24,338	0	0	0.0	0.0	
	7-8	4,407	8,352	23,003	26,948	0	0	0.0	0.0	
	8-9	6,457	8,352	29,460	31,355	0	0	0.0	0.0	
	9-10	8,144	8,352	37,604	37,812	0	0	0.0	0.0	
	10-11	9,732	8,352	47,336	45,956	1,380	690	1.4	0.2	
	11-12	9,796	8,352	57,132	55,689	1,443	1,412	2.8	0.3	
	12-13	9,362	8,352	66,494	65,494	1,009	1,226	2.5	0.3	
	13-14	9,126	8,352	75,619	74,846	773	891	1.8	0.2	
	14-15	9,602	8,352	85,221	83,972	1,250	1,012	2.0	0.2	
	15-16	9,880	8,352	95,102	93,574	1,528	1,389	2.8	0.3	
	16-17	9,628	8,352	104,730	103,454	1,275	1,402	2.8	0.3	
	17-18	10,932	8,352	115,662	113,082	2,580	1,928	3.9	0.5	
	18-19	12,153	8,352	127,815	124,335	3,480	2,316	5.6	0.7	
	19-20	9,988	8,352	137,980	136,365	1,615	2,807	5.6	0.7	
	20-21	9,084	8,352	147,065	146,333	732	1,174	2.3	0.3	
	21-22	7,850	8,352	154,914	155,417	0	366	0.7	0.0	
	22-23	8,148	8,352	163,062	163,267	0	0	0.0	0.0	
	23-24	6,266	8,352	169,328	171,414	0	0	0.0	0.0	
Sunday	0-1	4,696	8,352	4,696	8,352	0	0	0.0	0.0	
	1-2	3,721	8,352	8,417	12,173	0	0	0.0	0.0	
	2-3	3,839	8,352	12,256	16,012	0	0	0.0	0.0	
	3-4	2,082	8,352	14,338	18,094	0	0	0.0	0.0	
	4-5	1,181	8,352	15,519	19,275	0	0	0.0	0.0	
	5-6	1,239	8,352	16,758	20,514	0	0	0.0	0.0	
	6-7	1,985	8,352	18,743	21,753	0	0	0.0	0.0	
	7-8	3,238	8,352	22,001	23,001	0	0	0.0	0.0	
	8-9	4,787	8,352	26,788	23,220	3,568	0	0	0.0	
	9-10	6,725	8,352	33,513	24,447	9,066	0	0	0.0	
	10-11	8,446	8,352	41,959	21,172	20,787	93	47	0.1	
	11-12	9,031	8,352	51,000	21,618	29,382	386	0.8	0.1	
	12-13	8,896	8,352	59,352	22,650	36,702	611	1.2	0.1	
	13-14	9,137	8,352	67,704	23,545	44,159	785	1.3	0.2	
	14-15	9,016	8,352	76,056	24,346	51,710	664	1.4	0.2	
	15-16	8,887	8,352	84,408	25,233	59,175	535	1.2	0.1	
	16-17	9,539	8,352	92,757	26,572	66,185	1,187	1.7	0.2	
	17-18	10,507	8,352	101,105	27,620	73,485	2,155	1,671	3.3	0.4
	18-19	12,206	8,352	113,311	28,486	84,825	3,854	3,005	6.0	0.7
	19-20	9,947	8,352	123,258	29,433	93,825	1,595	2,724	5.4	0.7
	20-21	9,189	8,352	132,447	30,623	101,824	837	1,216	2.4	0.3
	21-22	9,172	8,352	141,639	31,675	109,964	820	828	1.7	0.2
	22-23	8,822	8,352	150,461	32,517	117,944	469	645	1.3	0.2
	23-24	5,241	8,352	155,702	33,857	124,845	0	235	0.5	0.0
Monday	0-1	3,011	8,352	3,011	8,352	0	0	0.0	0.0	
	1-2	1,625	8,352	4,636	9,977	0	0	0.0	0.0	
	2-3	1,120	8,352	5,756	11,127	0	0	0.0	0.0	
	3-4	834	8,352	6,590	12,441	0	0	0.0	0.0	
	4-5	983	8,352	7,573	13,824	0	0	0.0	0.0	
	5-6	1,730	8,352	9,303	15,314	0	0	0.0	0.0	
	6-7	3,785	8,352	13,088	16,949	0	0	0.0	0.0	
	7-8	6,180	8,352	19,268	18,229	1,039	0	0	0.0	
	8-9	6,753	8,352	26,021	19,479	6,542	0	0	0.0	
	9-10	8,859	8,352	34,880	20,732	14,148	0	0	0.0	
	10-11	5,575	8,352	40,455	21,991	18,464	0	0	0.0	
	11-12	5,577	8,352	46,032	23,240	22,792	0	0	0.0	
	12-13	6,010	8,352	52,042	24,243	27,800	0	0	0.0	
	13-14	6,510	8,352	58,552	25,253	33,300	0	0	0.0	
	14-15	7,893	8,352	66,445	26,263	40,182	0	0	0.0	
	15-16	8,608	8,352	75,053	27,273	47,780	256	128	0.3	0.0
	16-17	8,292	8,352	83,345	28,283	55,062	0	128	0.3	0.0
	17-18	7,818	8,352	91,563	29,293	62,270	0	0	0.0	0.0
	18-19	6,819	8,352	98,382	30,240	68,143	0	0	0.0	0.0
	19-20	5,831	8,352	104,213	31,193	73,020	0	0	0.0	0.0
	20-21	4,968	8,352	109,245	32,102	77,143	0	0	0.0	0.0
	21-22	4,493	8,352	113,752	32,965	80,787	0	0	0.0	0.0
	22-23	3,988	8,352	117,740	33,790	83,950	0	0	0.0	0.0
	23-24	2,881	8,352	120,619	34,573	86,046	0	0	0.0	0.0

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 80	8,352	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)			Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	2032	2447	1492	286	389	195	2318	2836	1687
1-2	200	212	139	1351	1903	859	160	170	111	1511	2073	970
2-3	119	138	107	1118	1081	812	95	110	86	1213	1191	898
3-4	124	130	157	1168	966	1342	99	104	126	1267	1070	1468
4-5	174	170	510	1791	1391	3531	139	136	408	1930	1527	3939
5-6	406	335	1312	3333	2176	8412	325	268	1050	3658	2444	9462
6-7	839	690	2875	4350	3114	9144	671	552	2300	5021	3666	11444
7-8	1491	963	4377	4721	3568	8453	1193	770	3502	5914	4338	11955
8-9	2197	1564	4844	6034	4975	7688	1758	1251	3875	7792	6226	11863
9-10	2861	2442	3665	7234	6529	8099	2289	1954	2932	3723	2433	11031
10-11	3054	3417	3040	7954	8090	7228	2443	2734	2432	10397	10824	9660
11-12	3485	3796	2925	8051	7909	7249	2788	3037	2340	10839	10946	9589
12-13	3727	4403	2758	6861	8171	6654	2982	3522	2206	9843	11693	8860
13-14	3775	4139	2663	7575	6911	6153	3020	3311	2130	10595	10222	8283
14-15	3626	3337	2878	7876	7273	6467	2901	2670	2302	10777	9943	8769
15-16	3098	2988	3004	7947	7260	6032	2478	2350	2403	10426	9660	8436
16-17	2927	3549	3322	7731	7392	7017	2342	2639	2658	10079	10231	9375
17-18	3384	3238	3473	7740	7502	6777	2707	2590	2778	10447	10092	9555
18-19	2788	2620	2812	6972	7227	5627	2230	2096	2250	9202	9323	7877
19-20	2294	2257	1865	6154	6538	4841	1835	1806	1492	7989	8344	6333
20-21	2087	2013	1439	5900	6238	4056	1670	1610	1151	7570	7848	5207
21-22	1721	1649	1118	6548	5640	3828	1377	1319	894	7925	6959	4722
22-23	1517	1083	665	6058	5045	3362	1214	866	532	7272	5911	3894
23-24	1010	519	344	4502	2792	2052	808	415	275	5310	3207	2327

Notes:

	<sup>(1)</sup> pc/h passenger cars per hour
xxxx	All lanes on GGB open to traffic
xxxx	Volume exceeds capacity

**Assumptions**

Speed Limit	65 mph	Speed limit
Base Capacity	1850 pc/h/lane	
Lanes	5	
Volume Distribution	20% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.99	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (WESTBOUND)**

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a VEH	b VEH	c a2+c1.. VPH	d b2+c1+.. VEH	e c-d VEH	f (e1+e2)/2 VEH	g l/(Vplm*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	2,318	8,352	2,318	0	8,352	0	0.0	0.0
	1-2	1,511	8,352	3,829	0	10,671	0	0.0	0.0
	2-3	1,213	8,352	5,043	0	12,182	0	0.0	0.0
	3-4	1,267	8,352	6,310	0	13,395	0	0.0	0.0
	4-5	1,930	8,352	8,240	0	14,662	0	0.0	0.0
	5-6	3,658	8,352	11,898	0	16,592	0	0.0	0.0
	6-7	5,021	8,352	16,919	0	20,250	0	0.0	0.0
	7-8	5,914	8,352	22,833	0	25,271	0	0.0	0.0
	8-9	7,792	8,352	30,624	0	31,185	0	0.0	0.0
	9-10	9,523	8,352	40,147	38,977	1,170	585	1.2	0.1
	10-11	10,397	8,352	50,544	48,500	2,045	1,608	3.2	0.4
	11-12	10,839	8,352	61,383	58,897	2,487	2,266	4.5	0.5
	12-13	9,843	8,352	71,226	69,736	1,490	1,988	4.0	0.5
	13-14	10,595	8,352	81,821	79,578	2,243	1,866	3.7	0.4
	14-15	10,777	8,352	92,598	90,173	2,424	2,334	4.7	0.6
	15-16	10,425	8,352	103,023	100,950	2,073	2,249	4.5	0.5
	16-17	10,073	8,352	113,096	111,376	1,720	1,897	3.8	0.5
	17-18	10,447	8,352	123,543	121,448	2,095	1,908	3.8	0.5
	18-19	9,202	8,352	132,745	131,895	850	1,472	2.9	0.4
	19-20	7,989	8,352	140,735	141,098	0	425	0.9	0.1
	20-21	7,570	8,352	148,304	149,087	0	0	0.0	0.0
	21-22	7,925	8,352	156,229	156,657	0	0	0.0	0.0
	22-23	7,272	8,352	163,501	164,591	0	0	0.0	0.0
23-24	5,310	8,352	168,811	171,853	0	0	0.0	0.0	
Sunday	0-1	2,836	8,352	2,836	0	8,352	0	0.0	0.0
	1-2	2,073	8,352	4,909	0	10,725	0	0.0	0.0
	2-3	1,191	8,352	6,100	0	11,916	0	0.0	0.0
	3-4	1,070	8,352	7,170	0	12,986	0	0.0	0.0
	4-5	1,527	8,352	8,697	0	14,513	0	0.0	0.0
	5-6	2,444	8,352	11,141	0	16,957	0	0.0	0.0
	6-7	3,666	8,352	14,807	0	20,623	0	0.0	0.0
	7-8	4,338	8,352	19,145	0	24,961	0	0.0	0.0
	8-9	6,226	8,352	25,371	19,608	5,763	0	0.0	0.0
	9-10	8,483	8,352	33,854	20,534	13,320	65	0.1	0.0
	10-11	10,824	8,352	44,678	21,017	23,661	1,301	2.6	0.3
	11-12	10,946	8,352	55,624	22,841	32,783	2,532	5.1	0.6
	12-13	11,333	8,352	66,957	24,715	42,242	7,527	13.1	1.7
	13-14	10,222	8,352	77,179	24,480	52,699	2,605	5.2	0.6
	14-15	9,943	8,352	86,122	25,702	60,420	1,590	3.5	0.4
	15-16	9,650	8,352	94,772	26,645	68,127	1,444	2.9	0.3
	16-17	10,231	8,352	105,003	27,295	77,708	1,879	3.2	0.4
	17-18	10,092	8,352	115,095	28,626	86,469	1,740	3.6	0.4
	18-19	9,323	8,352	124,418	29,619	94,799	1,355	2.7	0.3
	19-20	8,344	8,352	132,762	30,942	101,820	485	1.8	0.1
	20-21	7,848	8,352	140,610	32,285	108,325	0	0.0	0.0
	21-22	6,959	8,352	147,569	32,134	115,435	0	0.0	0.0
	22-23	5,911	8,352	153,480	32,093	122,387	0	0.0	0.0
23-24	3,207	8,352	156,687	33,004	123,683	0	0.0	0.0	
Monday	0-1	1,687	8,352	1,687	0	8,352	0	0.0	0.0
	1-2	970	8,352	2,657	0	9,322	0	0.0	0.0
	2-3	896	8,352	3,553	0	10,218	0	0.0	0.0
	3-4	1,468	8,352	5,021	0	11,686	0	0.0	0.0
	4-5	3,531	8,352	8,552	0	15,217	0	0.0	0.0
	5-6	8,412	8,352	16,964	34,765	17,201	60	0.1	0.0
	6-7	9,144	8,352	26,108	35,177	26,931	792	4.26	0.9
	7-8	8,453	8,352	34,561	36,221	36,374	101	4.46	0.9
	8-9	7,688	8,352	42,249	37,074	45,146	50	0.1	0.0
	9-10	8,099	8,352	50,348	37,462	52,886	0	0.0	0.0
	10-11	7,228	8,352	57,576	38,651	60,927	0	0.0	0.0
	11-12	7,249	8,352	64,825	39,686	69,143	0	0.0	0.0
	12-13	6,654	8,352	71,479	40,138	76,305	0	0.0	0.0
	13-14	6,153	8,352	77,632	40,692	82,458	0	0.0	0.0
	14-15	6,467	8,352	84,099	41,345	88,803	0	0.0	0.0
	15-16	6,032	8,352	90,131	42,012	95,115	0	0.0	0.0
	16-17	7,017	8,352	96,148	42,644	101,759	0	0.0	0.0
	17-18	6,777	8,352	102,125	43,361	108,416	0	0.0	0.0
	18-19	5,627	8,352	107,452	44,018	115,434	0	0.0	0.0
	19-20	4,841	8,352	112,293	44,765	122,519	0	0.0	0.0
	20-21	4,056	8,352	116,349	45,606	129,625	0	0.0	0.0
	21-22	3,828	8,352	120,177	45,662	136,811	0	0.0	0.0
	22-23	3,362	8,352	123,539	45,490	144,043	0	0.0	0.0
23-24	2,052	8,352	125,591	45,552	151,145	0	0.0	0.0	

**Notes:**

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)			Golden Gate Bridge (Southbound)			Interstate 580 Richmond-San Rafael Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	361	489	236	251	340	171	612	829	407
1-2	200	212	139	184	267	150	140	148	97	324	415	247
2-3	119	138	107	125	153	133	83	97	75	208	250	208
3-4	124	130	157	116	93	112	87	91	110	203	184	222
4-5	174	170	510	171	124	355	122	119	357	293	243	712
5-6	406	335	1312	328	214	904	284	235	918	612	449	1822
6-7	839	690	2875	591	455	1544	587	483	2013	1178	938	3557
7-8	1491	963	4377	1064	718	2043	1044	674	3064	2108	1392	5107
8-9	2197	1564	4844	1403	1066	2128	1538	1095	3391	2841	2161	5519
9-10	2861	2442	3665	1872	1580	1840	2003	1709	2566	3373	3739	4406
10-11	3054	3417	3040	2282	2131	1842	2138	2382	2128	4420	4523	3970
11-12	3485	3796	2925	2311	2271	1913	2440	2657	2048	4751	4928	3961
12-13	3727	4403	2758	2036	2200	1893	2609	3082	1931	4645	5282	3824
13-14	3775	4139	2663	2055	2159	1952	2643	2897	1864	4698	5056	3816
14-15	3626	3337	2878	2316	2459	2388	2538	2336	2015	4854	4795	4403
15-16	3098	2988	3004	2256	2473	2697	2169	2092	2103	4425	4565	4600
16-17	2927	3549	3322	2726	2739	3213	2049	2484	2325	4775	5223	5533
17-18	3384	3238	3473	2730	2994	3481	2369	2267	2431	5099	5261	5912
18-19	2788	2620	2812	2608	2797	2371	1952	1834	1968	4560	4631	4339
19-20	2294	2257	1865	2108	2260	1680	1606	1580	1306	3714	3840	2986
20-21	2087	2013	1439	1604	1646	1231	1461	1409	1007	3065	3055	2238
21-22	1721	1649	1118	1481	1476	1039	1205	1154	783	2686	2630	1822
22-23	1517	1083	665	1357	1001	697	1062	758	466	2419	1759	1163
23-24	1010	519	344	848	531	399	707	363	241	1555	894	640

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxx All lanes on GGB open to traffic
- xxxx Volume exceeds capacity

Assumptions

- Speed Limit 65 mph Speed limit
- Base Capacity 1850 pc/h/lane
- Lanes 2
- Volume Distribution 30% of GGB traffic will not drive and/or use public transit and other modes of transportation.
- Adjustment for Heavy Vehicles 100% of GGB detour traffic will use Interstate 580
- Volume / Capacity 0.97
- Peak Hour Factor 0.94
- Adjustment for Driver Pop. 0.95
- Average Rate of Vehicle Storage 0.975
- 100 vehicles / lane / mile

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a b VEH	b VEH	c a2+c1.. VPH	d b2+c1+.. VEH	e c-d VEH	f (e1+e2)/2 VEH	g f/(Vplm*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	612	3,146	612	3,146	0	0	0.0	0.0
	1-2	324	3,146	936	3,758	0	0	0.0	0.0
	2-3	208	3,146	1,144	4,082	0	0	0.0	0.0
	3-4	203	3,146	1,347	4,290	0	0	0.0	0.0
	4-5	293	3,146	1,640	4,493	0	0	0.0	0.0
	5-6	612	3,146	2,252	4,795	0	0	0.0	0.0
	6-7	1,179	3,146	3,430	5,398	0	0	0.0	0.0
	7-8	2,108	3,146	5,538	6,576	0	0	0.0	0.0
	8-9	2,941	3,146	8,479	8,684	0	0	0.0	0.0
	9-10	3,875	3,146	12,353	11,625	729	364	1.8	0.2
	10-11	4,420	3,146	16,773	15,499	1,274	1,001	5.0	0.6
	11-12	4,751	3,146	21,524	19,919	1,605	1,439	7.2	0.9
	12-13	4,645	3,146	26,169	24,670	1,499	1,552	7.8	1.0
	13-14	4,698	3,146	30,866	29,315	1,552	1,525	7.6	1.0
	14-15	4,854	3,146	35,720	34,012	1,708	1,630	8.1	1.0
	15-16	4,425	3,146	40,145	38,866	1,279	1,493	7.5	0.9
	16-17	4,775	3,146	44,920	43,291	1,629	1,454	7.3	0.9
	17-18	5,099	3,146	50,019	48,066	1,953	1,791	9.0	1.1
	18-19	4,560	3,146	54,578	53,165	1,414	1,683	8.4	1.1
	19-20	3,714	3,146	58,292	57,124	568	991	5.0	0.6
	20-21	3,065	3,146	61,357	61,438	0	284	4.4	0.2
	21-22	2,688	3,146	64,043	64,503	0	0	0.0	0.0
	22-23	2,419	3,146	66,461	67,189	0	0	0.0	0.0
23-24	1,555	3,146	68,016	69,607	0	0	0.0	0.0	
Sunday	0-1	829	3,146	88,846	71,162	0	0	0.0	0.0
	1-2	415	3,146	69,261	71,992	0	0	0.0	0.0
	2-3	250	3,146	69,511	72,407	0	0	0.0	0.0
	3-4	184	3,146	69,695	72,657	0	0	0.0	0.0
	4-5	243	3,146	69,938	72,841	0	0	0.0	0.0
	5-6	449	3,146	70,386	73,084	0	0	0.0	0.0
	6-7	938	3,146	71,324	73,532	0	0	0.0	0.0
	7-8	1,392	3,146	72,716	74,470	0	0	0.0	0.0
	8-9	2,161	3,146	74,877	75,862	0	0	0.0	0.0
	9-10	3,289	3,146	78,166	78,023	143	72	0.4	0.0
	10-11	4,523	3,146	82,689	81,312	1,377	760	3.8	0.5
	11-12	4,928	3,146	87,616	85,835	1,782	1,580	7.9	1.0
	12-13	5,282	3,146	92,900	90,764	2,136	1,959	9.8	1.2
	13-14	5,056	3,146	97,956	96,046	1,910	2,023	10.1	1.3
	14-15	4,795	3,146	102,751	101,102	1,649	1,780	8.9	1.1
	15-16	4,565	3,146	107,315	105,897	1,419	1,534	7.7	1.0
	16-17	5,223	3,146	112,539	110,461	2,077	1,748	8.7	1.1
	17-18	3,731	3,146	122,430	113,305	1,485	2,005	10.1	1.3
	18-19	4,631	3,146	129,430	120,945	1,485	1,800	9.0	1.1
	19-20	3,840	3,146	126,270	125,576	694	1,089	5.4	0.7
	20-21	3,055	3,146	129,325	129,416	0	347	1.7	0.2
	21-22	2,630	3,146	131,956	132,471	0	0	0.0	0.0
	22-23	1,759	3,146	133,715	135,102	0	0	0.0	0.0
23-24	894	3,146	134,609	136,861	0	0	0.0	0.0	
Monday	0-1	407	3,146	135,016	137,755	0	0	0.0	0.0
	1-2	247	3,146	135,263	138,162	0	0	0.0	0.0
	2-3	208	3,146	135,471	138,409	0	0	0.0	0.0
	3-4	222	3,146	135,693	138,617	0	0	0.0	0.0
	4-5	712	3,146	136,405	138,839	0	0	0.0	0.0
	5-6	904	3,146	137,309	139,551	0	0	0.0	0.0
	6-7	1,544	3,146	138,853	140,455	0	0	0.0	0.0
	7-8	2,043	3,146	140,896	141,999	0	0	0.0	0.0
	8-9	2,128	3,146	143,024	144,042	0	0	0.0	0.0
	9-10	1,840	3,146	144,864	146,170	0	0	0.0	0.0
	10-11	1,842	3,146	146,706	148,010	0	0	0.0	0.0
	11-12	1,913	3,146	148,619	149,852	0	0	0.0	0.0
	12-13	1,893	3,146	150,512	151,765	0	0	0.0	0.0
	13-14	1,962	3,146	152,464	153,668	0	0	0.0	0.0
	14-15	2,388	3,146	154,852	155,610	0	0	0.0	0.0
	15-16	2,697	3,146	157,549	157,998	0	0	0.0	0.0
	16-17	3,213	3,146	160,762	160,695	67	34	0.2	0.0
	17-18	3,481	3,146	164,243	163,908	335	201	1.0	0.1
	18-19	2,371	3,146	166,614	167,389	0	168	0.8	0.0
	19-20	1,680	3,146	168,294	169,760	0	0	0.0	0.0
	20-21	1,231	3,146	169,525	171,440	0	0	0.0	0.0
	21-22	1,039	3,146	170,564	172,671	0	0	0.0	0.0
	22-23	697	3,146	171,261	173,710	0	0	0.0	0.0
23-24	399	3,146	171,660	174,407	0	0	0.0	0.0	

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 580	3,146	3,146	3,146

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)			Golden Gate Bridge (Northbound)			Interstate 580 Richmond-San Rafael Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	490	487	305	749	699	433	1239	1186	738
1-2	583	612	346	222	323	195	408	426	242	630	751	437
2-3	437	470	173	195	201	119	306	329	121	501	530	240
3-4	243	259	129	144	135	179	170	181	90	314	316	269
4-5	179	172	163	277	203	393	125	120	114	402	323	507
5-6	373	217	386	508	332	1085	261	152	270	769	484	1355
6-7	603	426	1059	1032	621	2933	422	298	741	1454	919	3674
7-8	1223	814	2348	1737	1024	3653	856	570	1644	2593	1594	5297
8-9	2100	1562	3095	2380	1428	3417	1470	1093	2167	3850	2521	5584
9-10	3044	2555	2815	2796	2072	2818	2131	1796	1971	4827	3868	4789
10-11	3829	3441	2971	3207	2570	2162	2680	2409	2080	5887	4919	4242
11-12	3727	3633	3183	3206	2934	2097	2609	2543	2228	5815	5477	4325
12-13	3486	3027	3275	3288	2892	1992	2440	2119	2293	5728	5011	4285
13-14	3266	2955	3259	3282	2925	2080	2286	2069	2281	5568	4994	4361
14-15	3000	2624	3812	3272	2631	1810	2100	1837	2668	5372	4468	4478
15-16	2883	2368	4423	2867	2686	1938	2018	1658	3096	4885	4344	5034
16-17	3071	2460	4621	2533	2519	2110	2150	1722	3235	4683	4241	5345
17-18	4223	3863	4953	2373	2396	2252	2956	2704	3467	5328	5100	5719
18-19	5622	5643	4195	1894	1865	2090	3935	3950	2937	5819	5815	5027
19-20	3136	3109	2737	1411	1578	1425	2195	2176	1916	3606	3754	3341
20-21	2029	2309	1961	1281	1435	1001	1420	1616	1373	2701	3051	2374
21-22	1882	2433	1635	1374	1219	929	1317	1703	1145	2691	2922	2074
22-23	2306	1932	1233	1335	949	716	1614	1352	863	2949	2301	1579
23-24	1539	1067	795	735	588	476	1077	747	557	1812	1335	1033

Notes:

- <sup>(1)</sup>pc/h passenger cars per hour
- xxxxx All lanes on GGB open to traffic
- xxxxx Volume exceeds capacity

**Assumptions**

Speed Limit	65 mph	Speed limit
Base Capacity	1850	VPH per Lane
Lanes	2	
Volume Distribution	30% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 580	
djustment for Heavy Vehicles	0.97	
Volume / Capacity	0.99	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Storage	100 vehicles / lane / mile	



**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - RICHMOND-SAN RAFAEL BRIDGE (WESTBOUND)**

Day	Hours	Demand a VEH	Capacity b VEH	Cum Demand c a2+c1+ VEH	Cum Output d b2+c1+ VEH	Cum Queue e c-d VEH	Average Queue f e1+c2/2 VEH	Average Queue Distance g f/(Vp1+Lanes) MILES	Average Queue Delay h e1+(a2-b2)/b2 HOURS
Saturday	0-1	1,239	3,146	1,239	3,146	0	0	0.0	0.0
	1-2	630	3,146	1,869	4,385	0	0	0.0	0.0
	2-3	501	3,146	2,370	5,015	0	0	0.0	0.0
	3-4	314	3,146	2,684	5,516	0	0	0.0	0.0
	4-5	402	3,146	3,086	5,830	0	0	0.0	0.0
	5-6	769	3,146	3,856	6,232	0	0	0.0	0.0
	6-7	1,454	3,146	5,310	7,002	0	0	0.0	0.0
	7-8	2,593	3,146	7,903	8,456	0	0	0.0	0.0
	8-9	3,850	3,146	11,753	11,049	704	352	1.8	0.2
	9-10	4,927	3,146	16,680	14,899	1,781	1,242	6.2	0.8
	10-11	5,887	3,146	22,567	19,826	2,741	2,261	11.3	1.4
	11-12	5,315	3,146	23,872	23,743	2,130	2,705	13.5	1.7
	12-13	5,728	3,146	34,110	31,528	2,582	2,626	13.1	1.7
	13-14	5,568	3,146	39,678	37,256	2,422	2,502	12.5	1.6
	14-15	5,372	3,146	45,050	42,824	2,226	2,324	11.6	1.5
	15-16	4,885	3,146	49,935	48,196	1,739	1,983	9.9	1.3
	16-17	4,683	3,146	54,618	53,081	1,537	1,638	8.2	1.0
	17-18	5,329	3,146	59,947	57,764	2,183	1,860	9.3	1.2
	18-19	5,819	3,146	65,766	63,093	2,673	2,428	12.1	1.5
	19-20	3,666	3,146	69,373	68,912	460	1,567	7.8	1.0
	20-21	2,701	3,146	72,074	72,519	0	230	1.2	0.0
	21-22	2,691	3,146	74,765	75,220	0	0	0.0	0.0
	22-23	2,949	3,146	77,715	77,911	0	0	0.0	0.0
	23-24	1,812	3,146	79,527	80,861	0	0	0.0	0.0
Sunday	0-1	1,186	3,146	80,713	82,673	0	0	0.0	0.0
	1-2	751	3,146	81,465	83,859	0	0	0.0	0.0
	2-3	530	3,146	81,995	84,611	0	0	0.0	0.0
	3-4	316	3,146	82,311	85,141	0	0	0.0	0.0
	4-5	323	3,146	82,634	85,457	0	0	0.0	0.0
	5-6	484	3,146	83,118	85,780	0	0	0.0	0.0
	6-7	919	3,146	84,037	86,264	0	0	0.0	0.0
	7-8	1,594	3,146	85,631	87,183	0	0	0.0	0.0
	8-9	2,521	3,146	88,153	88,777	0	0	0.0	0.0
	9-10	3,868	3,146	92,020	91,299	722	361	1.8	0.2
	10-11	4,979	3,146	96,999	95,166	1,833	1,277	6.4	0.8
	11-12	5,477	3,146	102,476	100,145	2,331	2,082	10.4	1.3
	12-13	5,011	3,146	107,487	105,622	1,865	2,098	10.5	1.3
	13-14	4,994	3,146	112,480	110,633	1,848	1,856	9.3	1.2
	14-15	4,468	3,146	116,948	115,626	1,322	1,585	7.9	1.0
	15-16	4,344	3,146	121,292	120,094	1,198	1,260	6.3	0.8
	16-17	4,241	3,146	125,533	124,438	1,095	1,146	5.7	0.7
	17-18	5,100	3,146	130,633	128,679	1,954	1,525	7.8	1.0
	18-19	5,815	3,146	136,448	133,779	2,669	2,312	11.6	1.5
	19-20	3,754	3,146	140,202	139,594	608	1,639	8.2	1.0
	20-21	3,051	3,146	143,253	143,348	0	304	1.5	0.2
	21-22	2,922	3,146	146,176	146,399	0	0	0.0	0.0
	22-23	2,301	3,146	148,477	149,322	0	0	0.0	0.0
	23-24	1,335	3,146	149,812	151,623	0	0	0.0	0.0
Monday	0-1	738	3,146	150,550	152,958	0	0	0.0	0.0
	1-2	437	3,146	150,987	153,696	0	0	0.0	0.0
	2-3	240	3,146	151,227	154,133	0	0	0.0	0.0
	3-4	269	3,146	151,497	154,373	0	0	0.0	0.0
	4-5	507	3,146	152,004	154,643	0	0	0.0	0.0
	5-6	1,085	3,146	153,089	155,150	0	0	0.0	0.0
	6-7	2,933	3,146	156,022	156,235	0	0	0.0	0.0
	7-8	3,653	3,146	159,675	159,168	507	254	1.3	0.2
	8-9	3,417	3,146	163,092	162,821	271	389	5.9	0.8
	9-10	2,818	3,146	165,910	166,238	0	136	0.7	0.0
	10-11	2,162	3,146	168,072	169,056	0	0	0.0	0.0
	11-12	2,097	3,146	170,169	171,218	0	0	0.0	0.0
	12-13	1,992	3,146	172,161	173,315	0	0	0.0	0.0
	13-14	2,080	3,146	174,241	175,307	0	0	0.0	0.0
	14-15	1,810	3,146	176,051	177,387	0	0	0.0	0.0
	15-16	1,938	3,146	177,989	178,187	0	0	0.0	0.0
	16-17	2,110	3,146	180,099	181,135	0	0	0.0	0.0
	17-18	2,252	3,146	182,351	183,245	0	0	0.0	0.0
	18-19	2,090	3,146	184,441	185,497	0	0	0.0	0.0
	19-20	1,425	3,146	185,866	187,587	0	0	0.0	0.0
	20-21	1,001	3,146	186,867	189,012	0	0	0.0	0.0
	21-22	929	3,146	187,796	190,013	0	0	0.0	0.0
	22-23	716	3,146	188,512	190,942	0	0	0.0	0.0
	23-24	476	3,146	188,988	191,658	0	0	0.0	0.0

**Notes:**

- xx** Queue length is greater than 0 miles
- xx** Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 80	8,352	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)			Golden Gate Bridge (Northbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Eastbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	1070	999	619	3881	3897	2516	749	699	433	4630	4596	2949
1-2	583	612	346	3002	3231	1348	408	428	242	3410	3659	1590
2-3	437	470	173	2940	3463	982	306	329	121	3246	3792	1103
3-4	243	259	129	1482	1875	731	170	181	90	1652	2056	821
4-5	179	172	163	1012	1043	853	125	120	114	1137	1163	967
5-6	373	217	386	1361	1065	1730	261	152	270	1622	1217	2000
6-7	603	426	1059	2127	1644	3785	422	298	741	2549	1942	4526
7-8	1223	814	2348	3429	2587	6180	856	570	1644	4285	3157	7824
8-9	2100	1562	3095	4777	3537	6753	1470	1093	2167	6247	4630	8920
9-10	3044	2565	2815	5709	4673	5859	2131	1796	1971	7840	6469	7830
10-11	3829	3441	2971	6669	5693	5575	2680	2409	2080	9349	8102	7655
11-12	3727	3633	3183	6814	6125	5577	2609	2543	2228	9423	8668	7805
12-13	3486	3027	3275	6573	6474	6010	2440	2119	2293	9013	8593	8303
13-14	3266	2955	3259	6513	6773	6510	2286	2069	2281	8799	8842	8791
14-15	3000	2624	3812	7202	6917	7893	2100	1837	2668	9302	8754	10561
15-16	2883	2368	4423	7574	6993	8608	2018	1658	3096	9592	8651	11704
16-17	3071	2460	4621	7171	7571	8292	2150	1722	3235	9321	9293	11627
17-18	4223	3863	4853	7554	7417	7818	2956	2704	3467	10810	10121	11283
18-19	5622	5643	4195	7853	7892	6819	3935	3950	2937	11788	11642	9766
19-20	3136	3109	2737	7459	7460	5831	2195	1916	1916	9654	9636	7747
20-21	2029	2309	1961	7461	7342	4968	1420	1616	1373	8881	8958	6341
21-22	1882	2433	1635	6344	7226	4493	1317	1703	1145	7661	8929	5638
22-23	2306	1932	1233	6303	7276	3988	1614	1352	863	7917	8628	4851
23-24	1539	1067	795	5035	4387	2881	1077	747	557	6112	5134	3438

Notes:

<sup>(1)</sup>pc/h passenger cars per hour

xxxx All lanes on GGB open to traffic

xxxx Volume exceeds capacity

Assumptions

Speed Limit	65 mph	Speed limit
Base Capacity	1850 VPH per Lane	
Lanes	5	
Volume Distribution	30% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.93	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (EASTBOUND)

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay
		a a VEH	b b VEH	a2+c1- VPH	d b2+c1+ VEH	e c-d VEH	f (e1+e2)/2 VEH	g f/(Vplm/Lanes) MILES	h (e1+(a2-b2))/b2 HOURS
Saturday	0-1	4,630	8,352	4,630	8,352	0	0	0.0	0.0
	1-2	3,410	8,352	8,040	12,982	0	0	0.0	0.0
	2-3	3,246	8,352	11,286	16,392	0	0	0.0	0.0
	3-4	1,652	8,352	12,938	19,638	0	0	0.0	0.0
	4-5	1,137	8,352	14,075	21,290	0	0	0.0	0.0
	5-6	1,622	8,352	15,698	22,428	0	0	0.0	0.0
	6-7	2,549	8,352	18,247	24,050	0	0	0.0	0.0
	7-8	4,285	8,352	22,532	26,599	0	0	0.0	0.0
	8-9	6,247	8,352	28,779	30,884	0	0	0.0	0.0
	9-10	7,840	8,352	36,619	37,131	0	0	0.0	0.0
	10-11	9,349	8,352	45,968	44,971	997	498	1.0	0.1
	11-12	9,423	8,352	55,391	54,320	1,071	1,034	2.1	0.2
	12-13	9,013	8,352	64,404	63,743	661	666	1.7	0.2
	13-14	8,799	8,352	73,203	72,756	447	554	1.1	0.1
	14-15	9,302	8,352	82,505	81,555	950	698	1.4	0.2
	15-16	9,592	8,352	92,097	90,857	1,240	1,095	2.2	0.3
	16-17	9,321	8,352	101,418	100,450	968	1,104	2.2	0.3
	17-18	10,510	8,352	111,928	109,770	2,158	1,563	3.1	0.4
	18-19	11,700	8,352	123,628	121,320	3,308	2,375	5.1	0.7
	19-20	8,654	8,352	133,371	132,069	1,302	2,369	4.7	0.6
	20-21	8,881	8,352	142,252	141,723	529	915	1.8	0.2
	21-22	7,661	8,352	149,913	150,604	0	264	0.5	0.0
	22-23	7,917	8,352	157,831	158,266	0	0	0.0	0.0
	23-24	6,112	8,352	163,943	166,183	0	0	0.0	0.0
Sunday	0-1	4,596	8,352	4,596	8,352	0	0	0.0	0.0
	1-2	3,659	8,352	8,255	12,911	0	0	0.0	0.0
	2-3	3,792	8,352	12,047	16,703	0	0	0.0	0.0
	3-4	2,056	8,352	14,103	18,759	0	0	0.0	0.0
	4-5	1,163	8,352	15,266	19,922	0	0	0.0	0.0
	5-6	1,217	8,352	16,483	21,139	0	0	0.0	0.0
	6-7	1,942	8,352	18,425	22,361	0	0	0.0	0.0
	7-8	3,157	8,352	21,582	23,518	0	0	0.0	0.0
	8-9	4,630	8,352	26,212	24,688	1,524	1,524	0.0	0.0
	9-10	6,469	8,352	32,681	26,148	6,533	6,533	0.0	0.0
	10-11	8,102	8,352	40,783	27,490	13,293	13,293	0.0	0.0
	11-12	8,668	8,352	49,451	28,737	20,714	20,714	0.3	0.0
	12-13	8,593	8,352	58,044	29,984	28,060	28,060	0.6	0.1
	13-14	8,842	8,352	66,886	31,231	35,655	35,655	0.7	0.1
	14-15	8,754	8,352	75,638	32,478	43,160	43,160	0.9	0.1
	15-16	8,651	8,352	84,289	33,725	50,564	50,564	0.7	0.1
	16-17	9,293	8,352	92,940	34,972	57,968	57,968	1.2	0.1
	17-18	10,121	8,352	101,591	36,219	65,372	65,372	2.7	0.3
	18-19	11,642	8,352	110,242	37,466	72,776	72,776	5.1	0.6
	19-20	9,636	8,352	118,893	38,713	80,180	80,180	4.6	0.5
	20-21	8,958	8,352	127,544	39,960	87,584	87,584	1.9	0.2
	21-22	8,929	8,352	136,195	41,207	94,988	94,988	1.2	0.1
	22-23	8,628	8,352	144,846	42,454	102,392	102,392	0.9	0.1
	23-24	5,134	8,352	153,497	43,701	109,796	109,796	0.3	0.0
Monday	0-1	2,949	8,352	2,949	8,352	0	0	0.0	0.0
	1-2	1,590	8,352	4,539	12,902	0	0	0.0	0.0
	2-3	1,103	8,352	5,642	16,355	0	0	0.0	0.0
	3-4	821	8,352	6,463	19,808	0	0	0.0	0.0
	4-5	967	8,352	7,430	23,261	0	0	0.0	0.0
	5-6	1,730	8,352	9,160	26,714	0	0	0.0	0.0
	6-7	3,785	8,352	12,945	30,167	0	0	0.0	0.0
	7-8	6,180	8,352	19,125	33,620	0	0	0.0	0.0
	8-9	6,753	8,352	25,878	37,073	0	0	0.0	0.0
	9-10	8,859	8,352	34,737	40,526	0	0	0.0	0.0
	10-11	5,575	8,352	40,312	43,979	0	0	0.0	0.0
	11-12	5,577	8,352	45,889	47,432	0	0	0.0	0.0
	12-13	6,010	8,352	52,099	50,885	0	0	0.0	0.0
	13-14	6,510	8,352	58,609	54,338	0	0	0.0	0.0
	14-15	7,893	8,352	66,502	57,791	0	0	0.0	0.0
	15-16	8,608	8,352	75,110	61,244	2,866	128	0.3	0.0
	16-17	8,292	8,352	83,402	64,697	18,705	128	0.3	0.0
	17-18	7,818	8,352	91,694	68,150	23,544	0	0.0	0.0
	18-19	6,819	8,352	98,513	71,603	26,910	0	0.0	0.0
	19-20	5,831	8,352	104,344	75,056	29,283	0	0.0	0.0
	20-21	4,968	8,352	110,175	78,509	31,656	0	0.0	0.0
	21-22	4,493	8,352	116,006	81,962	34,029	0	0.0	0.0
	22-23	3,988	8,352	121,837	85,415	36,402	0	0.0	0.0
	23-24	2,881	8,352	127,668	88,868	38,775	0	0.0	0.0

Notes:

- xx Queue length is greater than 0 miles
- xx Maximum Expected Queue / Delay

Full Weekend Closure of the Golden Gate Bridge Detour Volume Calculations

Freeway	Peak Capacity (pc/h) <sup>(1)</sup>		
	Saturday	Sunday	Monday
Interstate 80	8,352	8,352	8,352

Hours	Existing Traffic Volume						Detour Traffic Volumes			Total Closure Traffic Volume		
	Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)			Golden Gate Bridge (Southbound)			Interstate 80 San Francisco-Oakland Bay Bridge (Westbound)		
	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday	Saturday	Sunday	Monday
0-1	358	486	244	2032	2447	1492	251	340	171	2283	2787	1663
1-2	200	212	139	1351	1903	859	140	148	97	1491	2051	956
2-3	119	138	107	1118	1081	812	83	97	75	1201	1178	887
3-4	124	130	157	1168	966	1342	87	91	110	1255	1057	1452
4-5	174	170	510	1791	1391	3531	122	119	357	1913	1510	3888
5-6	406	335	1312	3333	2176	8412	284	235	918	3617	2411	9330
6-7	839	690	2875	4350	3114	9144	587	483	2013	4937	3597	11157
7-8	1491	963	4377	4721	3568	8453	1044	674	3064	5765	4242	11517
8-9	2197	1564	4844	6034	4975	7688	1538	1095	3391	7572	6070	11079
9-10	2861	2442	3665	7234	6529	8099	2003	1709	2566	9237	8238	10665
10-11	3054	3417	3040	7954	8090	7228	2138	2392	2128	10092	10482	9356
11-12	3485	3796	2925	8051	7909	7249	2440	2657	2048	10491	10566	9297
12-13	3727	4403	2758	6861	8171	6654	2609	3082	1931	9470	11253	8585
13-14	3775	4139	2663	7575	6911	6153	2643	2897	1864	10218	9808	8017
14-15	3626	3337	2878	7876	7273	6467	2538	2336	2015	10414	9609	8482
15-16	3098	2988	3004	7947	7260	6032	2169	2092	2103	10116	9362	8195
16-17	2927	3549	3322	7731	7392	7017	2049	2484	2325	9780	8916	8142
17-18	3384	3238	3473	7740	7502	6777	2369	2267	2431	10109	9768	9208
18-19	2788	2620	2812	6972	7227	5627	1952	1834	1968	8924	9081	7595
19-20	2294	2257	1865	6154	6538	4841	1606	1580	1306	7760	8118	6147
20-21	2087	2013	1439	5900	6238	4056	1461	1409	1007	7361	7647	5063
21-22	1721	1649	1118	6548	5640	3828	1205	1154	783	7753	6794	4611
22-23	1517	1083	665	6058	5045	3362	1062	758	466	7120	5803	3828
23-24	1010	519	344	4502	2792	2052	707	363	241	5209	3155	2293

Notes:

	<sup>(1)</sup> pc/h passenger cars per hour
xxxx	All lanes on GGB open to traffic
xxxx	Volume exceeds capacity

**Assumptions**

Speed Limit	65 mph	Speed limit
Base Capacity	1850 pc/h/lane	
Lanes	5	
Volume Distribution	30% of GGB traffic will not drive and/or use public transit and other modes of transportation.	
	100% of GGB detour traffic will use Interstate 80	
Adjustment for Heavy Vehicles	0.97	
Volume / Capacity	0.99	
Peak Hour Factor	0.95	
Adjustment for Driver Pop.	0.975	
Average Rate of Vehicle Storage	100 vehicles / lane / mile	

**VEHICLE QUEUE CALCULATIONS DURING FULL WEEKEND CLOSURE - SAN FRANCISCO-OAKLAND BAY BRIDGE (WESTBOUND)**

Day	Hours	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance	Average Queue Delay	
		a VEH	b VEH	c a2+c1.. VPH	d b2+c1+.. VEH	e c-d VEH	f (e1+e2)/2 VEH	g l/(Vplm*Lanes) MILES	h (e1+(a2-b2))/b2 HOURS	
Saturday	0-1	2,283	8,352	2,283	0	8,352	0	0.0	0.0	
	1-2	1,491	8,352	3,774	0	10,835	0	0.0	0.0	
	2-3	1,201	8,352	4,975	0	12,126	0	0.0	0.0	
	3-4	1,255	8,352	6,230	0	13,327	0	0.0	0.0	
	4-5	1,913	8,352	8,143	0	14,582	0	0.0	0.0	
	5-6	3,617	8,352	11,760	0	16,495	0	0.0	0.0	
	6-7	4,937	8,352	16,697	0	20,112	0	0.0	0.0	
	7-8	5,765	8,352	22,462	0	25,049	0	0.0	0.0	
	8-9	7,572	8,352	30,034	0	30,814	0	0.0	0.0	
	9-10	9,237	8,352	39,270	0	38,386	884	442	0.9	0.1
	10-11	10,092	8,352	49,362	0	47,623	1,739	1,312	2.6	0.3
	11-12	10,491	8,352	59,853	0	57,714	2,138	1,939	3.9	0.5
	12-13	9,470	8,352	69,323	0	68,205	1,118	1,628	3.3	0.4
	13-14	10,218	8,352	79,540	0	77,675	1,865	1,491	3.0	0.4
	14-15	10,414	8,352	89,954	0	87,892	2,062	1,864	3.9	0.5
	15-16	10,116	8,352	100,070	0	98,307	1,763	1,913	3.8	0.5
	16-17	9,780	8,352	109,850	0	108,422	1,428	1,595	3.2	0.4
	17-18	10,109	8,352	119,959	0	118,202	1,756	1,592	3.2	0.4
	18-19	8,924	8,352	128,882	0	128,311	571	1,164	2.3	0.3
	19-20	7,760	8,352	136,642	0	137,234	0	286	0.6	0.0
	20-21	7,361	8,352	144,003	0	144,994	0	0	0.0	0.0
	21-22	7,753	8,352	151,756	0	152,355	0	0	0.0	0.0
	22-23	7,120	8,352	158,876	0	160,108	0	0	0.0	0.0
23-24	5,209	8,352	164,084	0	167,228	0	0	0.0	0.0	
Sunday	0-1	2,787	8,352	2,787	0	8,352	0	0.0	0.0	
	1-2	2,051	8,352	4,838	0	10,403	0	0.0	0.0	
	2-3	1,178	8,352	6,016	0	11,581	0	0.0	0.0	
	3-4	1,057	8,352	7,073	0	12,638	0	0.0	0.0	
	4-5	1,510	8,352	8,583	0	14,148	0	0.0	0.0	
	5-6	2,411	8,352	10,994	0	16,559	0	0.0	0.0	
	6-7	3,597	8,352	14,591	0	20,156	0	0.0	0.0	
	7-8	4,242	8,352	18,833	0	24,398	0	0.0	0.0	
	8-9	6,070	8,352	24,903	0	30,468	0	0.0	0.0	
	9-10	8,238	8,352	33,141	0	38,706	0	0.0	0.0	
	10-11	10,482	8,352	43,623	0	49,188	2,130	1,065	2.1	0.3
	11-12	10,566	8,352	54,189	0	59,754	2,214	1,172	4.3	0.5
	12-13	11,233	8,352	65,422	0	71,000	2,510	1,571	5.1	0.7
	13-14	9,808	8,352	75,230	0	80,808	1,456	2,178	4.4	0.5
	14-15	9,609	8,352	84,839	0	90,417	1,257	1,356	2.7	0.3
	15-16	9,352	8,352	94,191	0	99,769	999	1,128	2.3	0.3
	16-17	9,876	8,352	103,067	0	108,645	1,524	1,262	2.5	0.3
	17-18	9,769	8,352	111,419	0	117,521	1,416	1,470	2.9	0.4
	18-19	9,061	8,352	120,271	0	126,373	709	1,062	2.1	0.3
	19-20	8,119	8,352	128,623	0	135,225	0	354	0.7	0.1
	20-21	7,647	8,352	136,970	0	144,077	0	0	0.0	0.0
	21-22	6,794	8,352	143,764	0	152,871	0	0	0.0	0.0
	22-23	5,803	8,352	150,017	0	161,665	0	0	0.0	0.0
23-24	3,155	8,352	156,172	0	170,459	0	0	0.0	0.0	
Monday	0-1	1,663	8,352	1,663	0	8,352	0	0.0	0.0	
	1-2	956	8,352	2,619	0	9,308	0	0.0	0.0	
	2-3	887	8,352	3,506	0	10,195	0	0.0	0.0	
	3-4	1,452	8,352	4,958	0	11,647	0	0.0	0.0	
	4-5	3,531	8,352	8,489	0	15,178	0	0.0	0.0	
	5-6	8,412	8,352	16,901	60	23,638	30	0.1	0.0	
	6-7	9,144	8,352	26,045	792	32,837	426	0.9	0.1	
	7-8	8,453	8,352	34,398	101	42,938	446	0.9	0.1	
	8-9	7,688	8,352	42,086	0	51,626	50	0.1	0.0	
	9-10	8,099	8,352	50,185	0	60,725	0	0.0	0.0	
	10-11	7,228	8,352	57,413	0	69,953	0	0.0	0.0	
	11-12	7,249	8,352	64,662	0	79,202	0	0.0	0.0	
	12-13	6,654	8,352	71,316	0	88,856	0	0.0	0.0	
	13-14	6,153	8,352	77,469	0	98,009	0	0.0	0.0	
	14-15	6,467	8,352	83,936	0	107,476	0	0.0	0.0	
	15-16	6,032	8,352	90,000	0	117,508	0	0.0	0.0	
	16-17	7,017	8,352	96,987	0	128,025	0	0.0	0.0	
	17-18	6,777	8,352	103,764	0	138,802	0	0.0	0.0	
	18-19	5,827	8,352	110,591	0	149,629	0	0.0	0.0	
	19-20	4,841	8,352	117,432	0	160,470	0	0.0	0.0	
	20-21	4,056	8,352	124,488	0	171,526	0	0.0	0.0	
	21-22	3,828	8,352	131,316	0	182,854	0	0.0	0.0	
	22-23	3,362	8,352	138,678	0	194,476	0	0.0	0.0	
23-24	2,052	8,352	146,730	0	206,528	0	0.0	0.0		

**Notes:**

- Queue length is greater than 0 miles
- Maximum Expected Queue / Delay

**Golden Gate Bridge Lane Closure Charts**

Lanes Open	Fwy Capacity
1	1,170
2	2,960
3	4,560
4	6,080

**Chart 1: Northbound Golden Gate Bridge**

Hours	Friday		Saturday		Sunday		Monday	
	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open
0-1	602	3	1,070	0	999	0	619	0
1-2	317	3	583	0	612	0	346	0
2-3	212	3	437	0	470	0	173	0
3-4	135	3	243	0	259	0	129	0
4-5	138	3	179	0	172	0	163	3
5-6	379	3	373	0	217	0	386	3
6-7	930	3	603	0	426	0	1,059	3
7-8	2,468	3	1,223	0	814	0	2,348	3
8-9	3,307	3	2,100	0	1,562	0	3,095	3
9-10	3,130	3	3,044	0	2,565	0	2,815	3
10-11	3,244	3	3,829	0	3,441	0	2,971	3
11-12	3,517	3	3,727	0	3,633	0	3,183	3
12-13	3,785	3	3,486	0	3,027	0	3,275	3
13-14	4,051	3	3,266	0	2,955	0	3,259	3
14-15	4,407	3	3,000	0	2,624	0	3,812	3
15-16	5,113	3	2,883	0	2,368	0	4,423	3
16-17	5,438	3	3,071	0	2,460	0	4,621	3
17-18	5,005	3	4,223	0	3,863	0	4,953	3
18-19	5,210	3	5,622	0	5,643	0	4,195	3
19-20	3,961	3	3,136	0	3,109	0	2,737	3
20-21	2,501	3	2,029	0	2,309	0	1,961	3
21-22	2,058	3	1,882	0	2,433	0	1,635	3
22-23	2,356	2	2,306	0	1,932	0	1,233	3
23-24	3,085	1	1,539	0	1,067	0	795	3

**Notes:**

Golden Gate Bridge traffic volumes observed in May 2012. Weekday and weekend volumes represent typical conditions

- 1 = Provide at least one through freeway lane open in direction of travel
- 2 = Provide at least two through freeway lanes open in direction of travel
- 3 = Provide at least three through freeway lanes open in direction of travel
- 4 = Provide at least four through freeway lanes open in direction of travel

**Assumptions**

Speed Limit  
 Base Capacity 2,960 VPH per Lane  
 Average Vehicle Length (AVL) 25 feet  
 Average Rate of Vehicle Storage 100 vehicles / lane / mile

**DELAY CALCULATIONS FOR GGB LANE CLOSURE - FRIDAY**

Route US 101 NB, Golden Gate Bridge  
 Locations Chart 1: Northbound Golden Gate Bridge  
 Capacity 2,960 VPH per Lane

Hour of Day	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance (Miles)
	a	b	c	d	e	f	g
	a	b	a2+c1+..	b2+c1+..	c-d	(e1+e2)/2	f/(Vplm*Lanes)
	VEH	VEH	VPH	VEH	VEH	VEH	MILES
21:00 - 22:00	2,058	4,560	2,058	4,560	0	0	0.0
22:00 - 23:00	2,356	2,960	4,414	5,018	0	0	0.0
23:00 - 24:00	3,085	1,170	7,499	5,584	1,915	1,915	19.2

**Golden Gate Bridge Lane Closure Charts**

Lanes Open	Fwy Capacity
1	1,170
2	2,960
3	4,560
4	6,080

**Chart 2: Southbound Golden Gate Bridge**

Hours	Friday		Saturday		Sunday		Monday	
	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open	Mainline	Lanes Open
0-1	217	3	358	0	486	0	244	0
1-2	140	3	200	0	212	0	139	0
2-3	95	3	119	0	138	0	107	0
3-4	188	3	124	0	130	0	157	0
4-5	424	3	174	0	170	0	510	3
5-6	1,258	3	406	0	335	0	1,312	3
6-7	2,738	3	839	0	690	0	2,875	3
7-8	4,744	3	1,491	0	963	0	4,377	3
8-9	5,255	3	2,197	0	1,564	0	4,844	3
9-10	3,983	3	2,861	0	2,442	0	3,665	3
10-11	3,429	3	3,054	0	3,417	0	3,040	3
11-12	3,301	3	3,485	0	3,796	0	2,925	3
12-13	2,997	3	3,727	0	4,403	0	2,758	3
13-14	3,136	3	3,775	0	4,139	0	2,663	3
14-15	3,437	3	3,626	0	3,337	0	2,878	3
15-16	2,991	3	3,098	0	2,988	0	3,004	3
16-17	2,856	3	2,927	0	3,549	0	3,322	3
17-18	3,506	3	3,384	0	3,238	0	3,473	3
18-19	3,510	3	2,788	0	2,620	0	2,812	3
19-20	2,163	3	2,294	0	2,257	0	1,865	3
20-21	1,550	3	2,087	0	2,013	0	1,439	3
21-22	1,193	2	1,721	0	1,649	0	1,118	3
22-23	1,062	1	1,517	0	1,083	0	665	3
23-24	640	1	1,010	0	519	0	344	3

**Notes:**

Golden Gate Bridge traffic volumes observed in May 2012. Weekday and weekend volumes represent typical conditions

- 1 = Provide at least one through freeway lane open in direction of travel
- 2 = Provide at least two through freeway lanes open in direction of travel
- 3 = Provide at least three through freeway lanes open in direction of travel
- 4 = Provide at least four through freeway lanes open in direction of travel

**Assumptions**

- Speed Limit
- Base Capacity 2,960 VPH per Lane
- Average Vehicle Length (AVL) 25 feet
- Average Rate of Vehicle Storage 100 vehicles / lane / mile

**DELAY CALCULATIONS FOR GGB LANE CLOSURE - FRIDAY**

Route US 101 NB, Golden Gate Bridge  
 Locations Chart 2: Southbound Golden Gate Bridge  
 Capacity 2,960 VPH per Lane

Hour of Day	Demand	Capacity	Cum Demand	Cum Output	Cum Queue	Average Queue	Average Queue Distance (Miles)
	a	b	c	d	e	f	g
	a	b	a2+c1+..	b2+c1+..	c-d	(e1+e2)/2	f/(Vplm*Lanes)
	VEH	VEH	VEH	VEH	VEH	VEH	MILES
21:00 - 22:00	1,193	2,960	1,193	2,960	0	0	0.0
22:00 - 23:00	1,062	1,170	2,255	2,363	0	0	0.0
23:00 - 24:00	640	1,170	2,895	3,425	0	0	0.0

**Revise Special Provisions Section 8-1.10 as marked:**

**8-1.10 LIQUIDATED DAMAGES**

**Replace section 8-1.10A with:**

**8-1.10A PROSECUTION OF WORK AND LIQUIDATED DAMAGE AMOUNT**

The Contractor shall begin work within no later than 15 days of the effective date of the Notice to Proceed and shall thereafter diligently and continuously prosecute the work to full and final completion.

The entire work shall be fully and finally completed to the satisfaction of the Engineer before the expiration of

**240-290 calendar days**

of the effective date of the Notice to Proceed.

The Contractor shall be subject to liquidated damages in the event that its work is completed late. It is hereby agreed that in case all of the work called for under the Contract in all parts and requirements is not fully and finally completed within the number of days as set forth above, damage will be sustained by the District. Moreover, it is further agreed that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage that the District will sustain in the event of and by reason of such delay. Therefore, it is agreed that the Contractor will pay to the District the following liquidated damage amount:

**THREE THOUSAND DOLLARS (\$3,000) PER CALENDAR DAY**

for each and every day that the Contractor delays the full and final completion of the work beyond the number of days specified above and the number of additional or deductive days, if any, authorized by Contract Change Order. Contractor shall pay said liquidated damages as herein provided and further agrees that the District may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

Liquidated Damages due herein shall be in addition to any amounts that may be due under Sections 8-1.10B and 8-1.10C of these Special Provisions and elsewhere in the Contract.

**Replace section 8-1.10B with:**

**8-1.10B FAILURE TO COMPLETE WORK PARTS WITHIN SPECIFIED TIMES**

Attention is directed to Sections 12-4.04, 12-4.05B, 12-4.05C and 12-4.05E of these Special Provisions for the traffic lane closure charts.

EXCEPT FOR THE 52-HOUR WEEKEND BRIDGE CLOSURE, LIQUIDATED DAMAGES FOR FAILING TO OPEN THE REQUIRED BRIDGE OR EXPRESSWAY TRAFFIC LANES TO PUBLIC TRAFFIC BY THE TIMES SPECIFIED SHALL BE FIVE THOUSAND DOLLARS (\$5,000) FOR EACH FULL TEN MINUTE PERIOD OR PART THEREOF AFTER THE FIRST TEN MINUTE PERIOD. THE TOTAL LIQUIDATED DAMAGES FOR EACH TWELVE (12) HOURS OF SUCH DELAY SHALL NOT EXCEED ONE HUNDRED FIFTY THOUSAND DOLLARS (\$150,000). Contractor shall pay said liquidated



damages as herein provided and further agrees that the District may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

LIQUIDATED DAMAGES FOR FAILING TO COMPLETE ALL THE WORK FOR STAGES 4S AND 5N IN ALL PARTS AND REQUIREMENTS BY THE TIMES SPECIFIED SHALL BE TEN THOUSAND DOLLARS (\$10,000) FOR EACH FULL TEN MINUTE PERIOD OR PART THEREOF AFTER THE FIRST TEN MINUTE PERIOD FOR THE INITIAL FIRST HOUR. LIQUIDATED DAMAGES FOR EACH ADDITIONAL 10 MINUTE PERIOD OR PART THEREOF AFTER THE INITIAL FIRST HOUR IS TWENTY-FIVE THOUSAND DOLLARS (\$25,000). THE TOTAL LIQUIDATED DAMAGES FOR EACH TWELVE (12) HOURS OF SUCH DELAY SHALL NOT EXCEED THREE HUNDRED THOUSAND DOLLARS (\$300,000). Contractor shall pay said liquidated damages as herein provided and further agrees that the District may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

In addition to the liquidated damages specified above, Contractor shall indemnify and hold harmless the District and its representatives from and against all claims, suits, or actions of every name, kind and description, brought for or on account of traffic delays, monetary losses or other consequential damages which resulted from, or were alleged to have resulted from, in whole or in part, Contractor's (and its subcontractors') failure to maintain bridge traffic lanes open for use by the public as required by the terms of the Contract. The duty of the Contractor to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. This indemnification shall survive termination of the Contract. All terms and conditions in Section 3-1.07, 7-1.05 and 7-1.06 of these specifications are hereby incorporated into this section.

**Replace section 8-1.10C with:**

**8-1.10C FAILURE TO COMPLETE WORK PARTS BY SPECIFIED DATES.**

LIQUIDATED DAMAGES FOR FAILING TO COMPLETE ALL THE WORK FOR STAGES 1S, 2S, 3S, 1B, 1N, 2N, 3N, AND 4N IN ALL PARTS AND REQUIREMENTS BY THE DATE SPECIFIED IN SECTION 5-1.04, "ORDER OF WORK," SHALL BE THREE HUNDRED THOUSAND DOLLARS (\$300,000). Contractor shall pay said liquidated damages as herein provided and further agrees that the District may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

## Attachment D: Typical District Daily Lane Arrangement Schedule

## District Daily Lane Arrangement Schedule

The typical District daily lane arrangement schedule is as follows:

### Monday through Thursday

Time of Start of Lane Change *	No. of NB Lanes	No. of SB Lanes	No. of Center (Buffer) Lanes
4:30 AM	2	4	0
10:00 AM	3	3	0
8:00 PM	2	2	2

### Friday

Time of Start of Lane Change *	No. of NB Lanes	No. of SB Lanes	No. of Center (Buffer) Lanes
4:30 AM	2	4	0
10:00 AM	3	3	0
8:00 PM	3	2	1

### Saturday

Time of Start of Lane Change *	No. of NB Lanes	No. of SB Lanes	No. of Center (Buffer) Lanes
8:00 AM	3	3	0
8:00 PM	3	2	1

### Sunday

Time of Start of Lane Change *	No. of NB Lanes	No. of SB Lanes	No. of Center (Buffer) Lanes
8:00 AM	3	3	0
8:00 PM	2	3	1

### \*Notes

The times listed reflect when District forces typically begin to implement the lane changes. It typically takes approximately 45 minutes to achieve the final configuration shown in the tables. This information does not affect the time allowed for overnight lane closures listed in the lane closure charts in Section 10-1.10, "Maintaining Traffic," of the Special Provisions.

During heavy traffic on weekday afternoons, the District may change the lane arrangement to 4 northbound lanes and 2 southbound lanes with no buffer lanes. The 8:00 PM lane change will still occur.

During heavy traffic on Saturday and Sunday afternoons, the District may change the lane arrangement to 2 northbound lanes and 4 southbound lanes with no buffer lanes. The 8:00 PM lane change will still occur.

Times listed in the table are subject to adjustments based on weather and traffic conditions.

## Attachment E: TMP Cost Data Sheet

<b>TMP COST DATA SHEET SUMMARY</b>				<b>COST</b>
<b>1 Public Information</b>	NO	<input checked="" type="checkbox"/> YES	MAYBE	\$ 200,000.00
<b>2 Motorist Information Strategies</b>	NO	<input checked="" type="checkbox"/> YES	MAYBE	\$ 285,000.00
<b>3 Incident Management</b>	NO	<input checked="" type="checkbox"/> YES	MAYBE	\$ 1,693,800.00
<b>4 Construction Strategies</b>	NO	<input checked="" type="checkbox"/> YES	MAYBE	\$ 200,000.00
<b>5 Demand Management (DM)</b>	NO	<input checked="" type="checkbox"/> YES	MAYBE	\$ 200,000.00
<b>TMP TOTAL</b>				<b>\$ 2,578,800.00</b>

Prepared by: Joy Villafranca, AECOM  
Date: 6/17/2014

<b>TMP Cost Data Sheet</b>							
An X in the check box means the item is included in the project unless staging, material, or work hour changes eliminate the need for the item. A "?" in the box means TMP anticipates this - please check. A blank box means the item is not needed at this time based on the information received.							
<b>1 Public Information/Public Awareness Campaign (PAC)</b>							<b>COST</b>
1.1	<input type="checkbox"/>	Include Rideshare information in public affairs material to encourage vehicles reduction in work area					
1.2	<input type="checkbox"/>	Brochures and Mailers					
1.3	<input checked="" type="checkbox"/>	Media Releases (& minority media sources)					\$ 50,000
1.4	<input type="checkbox"/>	Paid Advertising					
1.5	<input type="checkbox"/>	Public Information Center/Kiosk					
1.6	<input type="checkbox"/>	Public Meetings/PAC Mtgs/Speakers Bureau					
1.7	<input type="checkbox"/>	Hand deliver notices to vicinity					
1.8	<input type="checkbox"/>	Broadcast fax service					
1.9	<input checked="" type="checkbox"/>	Telephone Hotline OR					\$ 50,000
1.10	<input type="checkbox"/>	Visual Information (videos, slide shows, etc)					
1.11	<input checked="" type="checkbox"/>	Local Cable TV & News					\$ 50,000
1.12	<input type="checkbox"/>	Traveler InforMAtion Systems (Internet)					
1.13	<input checked="" type="checkbox"/>	Internet, Email					\$ 25,000
1.14	<input type="checkbox"/>	Notification to Targeted groups					\$ 25,000
	<input checked="" type="checkbox"/>	Revised Transit Schedules/maps					
	<input type="checkbox"/>	Rideshare organizations					
	<input type="checkbox"/>	schools					
	<input type="checkbox"/>	organizations representing people with disabilities					
	<input checked="" type="checkbox"/>	bicycle organizations					
1.15	<input type="checkbox"/>	Commercial traffic reporters/feeds - e.g. brief Traffic information people					
1.16	<input type="checkbox"/>	Insert SSP					
		"A representative of the Contractor, at Superintendent level or higher, and authorized to commit the Contractor, shall attend and participate in all Public Awareness Campaign meetings. Time commitment for the meetings(s) varies from two to four hours per month."					
1.17	<input type="checkbox"/>	Others					
<b>SUBTOTAL</b>							<b>\$ 200,000</b>

2 Traveler Information Strategies							COST
2.1	<input type="checkbox"/>	Existing Electronic Message Signs (Stationary) - list locations.					
	<input type="checkbox"/>	New Installation (Stationary) CHANGEABLE MESSAGE SIGN SYSTEM - list locations.					
2.2	<input checked="" type="checkbox"/>	Portable Changeable Message Signs (PCMS).					\$ 285,000
2.3	<input type="checkbox"/>	Extinguishable Signs					
2.4		Ground Mounted Signs/ Fabric Signs					
	<input checked="" type="checkbox"/>	SC3 (CA) and/or M4-9 Detour with Arrow					
	<input type="checkbox"/>	Regulatory Speed Signs					
	<input checked="" type="checkbox"/>	M4-8 End Detour					
	<input checked="" type="checkbox"/>	R11-2 Road Closed					
	<input checked="" type="checkbox"/>	Spec 1 Special with message "GOLDEN GATE BRIDGE CLOSED USE ALTERNATE ROUTE"					
2.5	<input checked="" type="checkbox"/>	Highway Advisory Radio (HAR) - Fixed. List locations here. They can be obtained from the TMC Manager.					
	<input type="checkbox"/>	Highway Advisory Radio - mobile signs alerting motorists to the HAR will also be needed.) Contact TMC Manager for assistance with specifications to include portable HARs as bid item in the contract. To avoice FCC fines, CT Portable HAR cannot be used except for emergencies. Seldom used. List proposed locations here:					
2.6	<input type="checkbox"/>	Lane Closure Website					
2.7	<input type="checkbox"/>	Caltrans Highway Information Network (CHIN)					
2.8	<input type="checkbox"/>	Radar Speed Message Sign (Specter sign) BEES ##### (approx. EA @ \$30,000)					
2.9	<input type="checkbox"/>	Bicycle and pedestrian information, BEES ##### e.g. Detour maps					
2.10	<input type="checkbox"/>	Others					
<b>SUBTOTAL</b>							<b>\$ 285,000</b>

<b>3 Incident Management</b>						<b>COST</b>
3.1 CHP's Construction or Maintenance Zone Enhanced Enforcement Program						
COZEEP or MAZEEP. Show under "State or Agency furnished" in the Cost Estimate.						
Consider the LC hours and add CHP driving time to/from their office						
Hourly COZEEP overtime load						\$ 110
COZEEP - to protect active closures (other than full Bridge Closure)						
			170	8	2	\$ 300,000
# of days	hours	# of officers	nights	hours	# of officers	
		1 per car			(remember - nights require 2 per car)	
COZEEP for extended closures (52 hour weekend closure)						
2	16	20	3	8	40	\$ 823,000
# of days	hours	# of officers	nights	hours	see above	
(add weekends days as needed)						
CHP or Local PD TRAFFIC HANDLING - reduce delay by keeping traffic flowing and/or to enforce closures - total facility/structure/major traffic shifts/ramps/connectors/local road/extended closures. Freeway closures with local road detour may require <b>2 officers per intersection</b> to direct traffic.						
SFPD (52 hour weekend closure)						
						\$ 250,000
# of days	hours	# of officers	nights	hours	see above	
GGNRA Park Police (52 hour weekend closure)						
						\$ 150,000
# of days	hours	# of officers	nights	hours	see above	
(add weekends days as needed)						
Sausalito & Marin County Sheriff (52 hour weekend closure)						
						\$ 150,000
# of days	hours	# of officers	nights	hours	see above	
CHP Officer in TMC during major construction closures						
# of days	hours	# of officers				
CHP officer for Command Post during regional impact construction closures						
<b>3.1 SUBTOTAL</b>						<b>\$ 1,673,000</b>



3 INCIDENT MANAGEMENT (CONTINUED)						COST
<b>3.2 BLANK</b>						
<b>3.3 Freeway Service Patrol (FSP) for Construction (CFSP)</b>						\$/hr/truck \$ 100
Show under "State or Agency Furnished" in the Cost Estimate						
Short duration or remote area CFSP usually is bid w much higher hourly rates. If enhancement of program FSP feasible, CFSP could tie into the lower long-term FSP rates						
FOR SERVICE WITHIN REGULAR FSP HOURS:						
<b>A</b>	# of trucks:	4	days & hrs	3	52	\$ 20,800
FOR SERVICE OUTSIDE REGULAR FSP HOURS:						
Night Partial Closure hour coverage						
<b>B</b>	# of trucks:		days & hrs			
Night support during structure freeway closures and major traffic shifts						
<b>C</b>	# of trucks:		days & hrs			
Weekend support						
<b>D</b>	# of trucks:		days & hrs			
Local agency (SAFE) support				% of truck cost		
CFSP CHP Support				% of truck cost		
Equipment supplies				% of truck cost unless more detail available		
<b>METHOD 1</b>						
CFSP CHP Support				% of truck cost		
or						
CFSP Dispatcher @ \$ 45.00 per hr						
	days/nights	hours	dispatcher(s)			
CFSP CHP Officers (See COZEEP rate)						
	day	hours	# of officers	nights	hours	
Cooperative Agreement or Task Order with SAFE						
for						
<input type="checkbox"/>	Task Order with CHP (Statewide Master Agreement for FSP support).					
for						
<input type="checkbox"/>	Contact District FSP Coordinator for task orders.					
<input type="checkbox"/>	Service Contract					
<input type="checkbox"/>	Local Agency will arrange CFSP with SAFE					
<input type="checkbox"/>	Local Agency will arrange CCFSP administration with CHP					
<b>3.3 TOTAL</b>						<b>\$20,800</b>

<b>3 INCIDENT MANAGEMENT (CONTINUED)</b>							<b>COST</b>
3.4	<input type="checkbox"/>	CHP Helicopter/Airplane					
3.5	<input type="checkbox"/>	Traffic Surveillance Stations for construction impact mitigation (loop detectors and CCTV)					
		<b>Keep existing operational during construction</b>					
	<input type="checkbox"/>	New CCTV					
	<input type="checkbox"/>	New loops					
3.6	<input type="checkbox"/>	Call Boxes					
	<input type="checkbox"/>	TEMPORARY INSTALLATION to mitigate impact (\$4000/box/move from project funds to SAFE). Design PE: Discuss with D4 Call Box coordinator if it is feasible to keep this motorist aid available during construction. If it is not, please notify TMP, then other mitigation needs to be considered.					
3.7	<input type="checkbox"/>	911 Cellular Calls					
3.8	<input type="checkbox"/>	Project needs to provide resources to Transportation Management Center Unit 370 for additional staff during high impact closures					
3.9	<input type="checkbox"/>	On-Site Traffic Advisor					
3.10	<input type="checkbox"/>	Others					
<b>3.4-3.10 SUBTOTAL</b>							<b>\$0</b>

4 CONSTRUCTION STRATEGIES							COST
4.1	This TMP presumes works is planned as below. If different, TMP needs to be revised.						
	The Lead Project Engineer is responsible to include all appropriate closure charts.						
	<input checked="" type="checkbox"/>	Off peak					
	<input checked="" type="checkbox"/>	Night					
	<input checked="" type="checkbox"/>	Weekend					
4.2							
	<input checked="" type="checkbox"/>	Flagging	at local streets				
	<input checked="" type="checkbox"/>	Shoulder					
	<input checked="" type="checkbox"/>	Lane					
	<input type="checkbox"/>	Street					
	<input checked="" type="checkbox"/>	Ramp					
	<input type="checkbox"/>	Connector*		* Consult with TMP and DTM re COZEEP			
	<input type="checkbox"/>	Extended Weekend Closures*		& other cost. Show your detour and			
	<input checked="" type="checkbox"/>	Total Facility Closures *		traffic diversion plans.			
	CAUTION: If the Lane Closure Chart (LCC) for full mainline closures (one or both directions on a highway or freeway) does not show a maximum number of allowable days ,the PS&E cannot be certified by the DTM/TMP.						
4.3	<input checked="" type="checkbox"/>	Project Phasing					
4.4	<input type="checkbox"/>	Contra Flow (put traffic into opposing roadbed)					
4.5	<input type="checkbox"/>	Reversible Lanes					
4.6	<input checked="" type="checkbox"/>	K-Rail				\$ 100,000	
	<input type="checkbox"/>	Temporary Traffic Screens		Miles	Duration (yr)		
4.7	<input type="checkbox"/>	Movable Barrier					
4.8	<input type="checkbox"/>	Truck Traffic Restrictions					
4.9	<input type="checkbox"/>	Coordinate with adjacent construction and planned projects - also on detour routes					
4.10	<input type="checkbox"/>	Incentives/Disincentives					
4.11	<input checked="" type="checkbox"/>	Others				100000	
					<b>4 SUBTOTAL</b>	<b>\$200,000</b>	

5 Demand Management								COST
		Traffic diversion may increase available work hours.						
5.1	<input type="checkbox"/>	A cooperation will be executed - mentioned in the PSR or PR						
	<input type="checkbox"/>	Instead of a cooperation, 15% is added to the cost of DM elements since the payment to the local agency will be routed through the contractor						
	<input type="checkbox"/>	Instead of a cooperation, the local agency will make their own arrangements						
	<input type="checkbox"/>	PA/CL or local agency need to inform commuters through MTC/BATA. Funds part of PA/CL.						
5.2	<input type="checkbox"/>	HOV Lanes/Ramps (New or Convert)						
5.3	<input type="checkbox"/>	Park and Ride Lots						
	<input type="checkbox"/>	Leased Spaces (sponsored spaces may be feasible in exchange for signs and print coverage)						
5.4	<input type="checkbox"/>	Parking Management/Pricing (Coordination with local agency required)						
5.5	<input type="checkbox"/>	Rideshare Promotion						
5.6		Rideshare Incentives						
		As far as D4 DTM/TMP knows, incentives to individuals cannot be paid by the State, however, State can pay for Local Transportation agency staff time, postage, cost of extra buses, etc.						
	<input type="checkbox"/>	Carpool/vanpool						
	<input type="checkbox"/>	Transit						
	<input type="checkbox"/>	Train						
	<input type="checkbox"/>	Light-Rail						
5.7		Public Transit Support/Improvements/Shuttle Service						
	<input type="checkbox"/>	School Shuttle Service						
5.8	<input type="checkbox"/>	Variable Work Hours						
5.9	<input type="checkbox"/>	Telecommute						
5.10	<input type="checkbox"/>	Ramp Metering (Modify or new)						
5.11	<input type="checkbox"/>	Blue and white Rideshare signs needed - unless already signed. See 2.4						
5.12	<input checked="" type="checkbox"/>	Others Added Bus and Ferry Service						\$200,000
<b>5 SUBTOTAL</b>							<b>\$200,000</b>	

## Attachment F: TMP Contact List

Golden Gate Bridge Transportatin Management Plan Contact List  
 Associations & Clubs-Community

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip	Entry/Edit Date
<b>Marin</b>													
American Legion, Twin Cities, CA Post 313				<a href="mailto:americanlegion313@gmail.com">americanlegion313@gmail.com</a>	<a href="http://www.americanlegion313.org">www.americanlegion313.org</a>	415-924-6283		500 Magnolia Avenue		Larkspur	CA	94939	10/17/2012
Baywood Artists				<a href="mailto:baywoodartists@gmail.com">baywoodartists@gmail.com</a>	<a href="http://www.baywoodartists.org">www.baywoodartists.org</a>	754-229-9663		5800 Northgate Mall	Suite 250	San Rafael	CA	94903	10/17/2012
Boy Scouts of America - Marin Council				<a href="mailto:staff@boyscouts-marin.org">staff@boyscouts-marin.org</a>	<a href="http://www.boyscouts-marin.org">www.boyscouts-marin.org</a>	415-454-1087		225 West End Avenue		San Rafael	CA	94901	10/17/2012
Center for Volunteer and Nonprofit Leadership of Marin				<a href="mailto:info@cvnlor.org">info@cvnlor.org</a>	<a href="http://www.cvnlor.org">www.cvnlor.org</a>	415-479-5710		555 Northgate Drive		San Rafael	CA	94903	10/17/2012
Downtown Novato Business Association				<a href="mailto:info@downtownnovato.com">info@downtownnovato.com</a>	<a href="http://www.DowntownNovato.com">www.DowntownNovato.com</a>			PO Box 312		Novato	CA	94948	10/17/2012
Downtown San Rafael Business Improvement District				<a href="mailto:director@downtownsanrafael.org">director@downtownsanrafael.org</a>	<a href="http://www.downtownsanrafael.org/">www.downtownsanrafael.org/</a>	415-720-5591		PO Box 151050		San Rafael	CA	94915	10/17/2012
Golden Gate Better Business Bureau				<a href="mailto:info@goldengatebbb.org">info@goldengatebbb.org</a>	<a href="http://www.Oakland.bbb.org">www.Oakland.bbb.org</a>	866-411-2221							10/17/2012
Golden Gate Computer Society				<a href="mailto:editor@ggcs.org">editor@ggcs.org</a>	<a href="http://www.ggcs.org">www.ggcs.org</a>	415-454-5556		PO Box 151696		San Rafael	CA	94915	10/17/2012
Marin Amateur Radio Society				<a href="mailto:n1zkw@arrl.net">n1zkw@arrl.net</a>	<a href="http://www.wfsg.net">www.wfsg.net</a>			PO Box 6423		San Rafael	CA	94903	10/17/2012
Marin Association of Realtors				<a href="mailto:info@marincountyrealtors.com">info@marincountyrealtors.com</a>	<a href="http://www.marincountyrealtors.com">www.marincountyrealtors.com</a>	415-507-1000		40 Mitchell Boulevard		San Rafael	CA	94903	10/17/2012
Marin Builders Association				<a href="mailto:mha@marinba.org">mha@marinba.org</a>	<a href="http://www.marinba.org">www.marinba.org</a>	415-462-1220		660 Las Gallinas		San Rafael	CA	94903	10/17/2012
Marin County Bar Association				<a href="mailto:info@marinbar.org">info@marinbar.org</a>	<a href="http://www.marinbar.org">www.marinbar.org</a>	415-499-1314		30 North San Pedro	Suite 140	San Rafael	CA	94903	10/17/2012
Marin County Legal Professionals Association				<a href="mailto:info@mclpa.org">info@mclpa.org</a>	<a href="http://www.mclpa.org">www.mclpa.org</a>	415-459-2000	Ext. 11	1000 Fourth Street	Suite 875	San Rafael	CA	94901	10/17/2012
Marin Professionals				<a href="mailto:marin_pro@hotmail.com">marin_pro@hotmail.com</a>	<a href="http://www.marinprofessionals.org">www.marinprofessionals.org</a>	415-507-2140		120 North Redwood		San Rafael	CA	94903	10/17/2012
Marin County Bicycle Coalition				<a href="mailto:bob@marinbike.org">bob@marinbike.org</a>	<a href="http://www.marinbike.org">www.marinbike.org</a>	415-456-3469	Ext. 3	PO Box 1115		Fairfax	CA	94978	10/17/2012
Marin County Motorcycle Association				<a href="mailto:MCMAC.Changes@gmail.com">MCMAC.Changes@gmail.com</a>	<a href="http://www.mcmadirt.com">www.mcmadirt.com</a>	415-455-5418				Novato	CA	94945-4114	10/17/2012
Marin Golden Gate Barbershop Chorus				<a href="mailto:information@marinbarbershopchorus.org">information@marinbarbershopchorus.org</a>	<a href="http://marinbarbershopchorus.org">marinbarbershopchorus.org</a>	510-297-2684		1010 Lootens Place	Studio 9	San Rafael	CA	94901	10/24/2012
Marin Photography Club	Bruce	Kocen	President	<a href="mailto:brucekocen@comcast.net">brucekocen@comcast.net</a>	<a href="http://www.marinphotoclub.org">www.marinphotoclub.org</a>	415-717-9078				San Rafael	CA	94903	10/24/2012
Marin Rose Society	Don	Chapman	President	<a href="mailto:gail@marinrose.org">gail@marinrose.org</a>	<a href="http://www.marinrose.org">www.marinrose.org</a>	415-383-9177							10/24/2012
Marin County Grassroots Leadership Network	John	Young, Jr.	Executive Director	<a href="mailto:info@maringrassroots.org">info@maringrassroots.org</a>	<a href="http://www.maringrassroots.org">www.maringrassroots.org</a>	415-451-4350		30 North San Pedro Road	Suite 290	San Rafael	CA	94903	10/24/2012
NAHREP of Marin County - National Association of Hispanic Real Estate Professionals	Marti	Guerra	President	<a href="mailto:marti@bradleyrealestate.com">marti@bradleyrealestate.com</a>	<a href="http://www.nahrep.org/home">www.nahrep.org/home</a>	415-209-1000		1701 Novato Boulevard	Suite 100	Novato	CA	94947	10/24/2012
North Bay Coaches - Marin, Napa, and Sonoma Counties				<a href="mailto:info@NorthBayCoaches.org">info@NorthBayCoaches.org</a>	<a href="http://www.northbaycoaches.org">www.northbaycoaches.org</a>								10/24/2012
North Bay Multimedia Association	Randy	Stemmer	President	<a href="mailto:info@nbma.com">info@nbma.com</a>	<a href="http://www.nbma.com">www.nbma.com</a>			4460-16 Redwood Highway	#301	San Rafael	CA	94903	10/24/2012
North Bay Piano Club				<a href="mailto:charles@westwindkayaking.com">charles@westwindkayaking.com</a>		571-451-4851		34 Woodoaks Drive		San Rafael	CA	94903	10/26/2012
Novato Horseman	Art	Yee	President	<a href="mailto:novatorhorsemen@gmail.com">novatorhorsemen@gmail.com</a>	<a href="http://www.novatorhorsemen.com">www.novatorhorsemen.com</a>	415-897-0794		600 Bugeia Lane		Novato	CA	94945	10/26/2012
Outdoor Art Club				<a href="mailto:rental@outdoorartclub.org">rental@outdoorartclub.org</a>	<a href="http://www.outdoorartclub.org">www.outdoorartclub.org</a>	415-388-9886		One West Blithedale Avenue		Mill Valley	CA	94941	10/26/2012
Premier Networking Group				<a href="mailto:info@pngnovato.com">info@pngnovato.com</a>	<a href="http://www.pngnovato.com">www.pngnovato.com</a>	415-370-5454		411 Bloom Lane	Suite A	Novato	CA	94947	10/26/2012
Sausalito Woman's Club	Paula	Fancher	President	<a href="mailto:rentals@sausalitowomansclub.org">rentals@sausalitowomansclub.org</a>	<a href="http://www.sausalitowomansclub.org">www.sausalitowomansclub.org</a>	415-332-2700		PO Box 733		Sausalito	CA	94965	10/26/2012
SoFTech, North Bay Software & Information Technology Association	John Robert	Melendez	President	<a href="mailto:john@jorome.com">john@jorome.com</a>	<a href="http://www.softech.org">www.softech.org</a>	415-472-7490		PO Box 5636		Novato	CA	94948	10/26/2012
Spectrum Lesbian, Gay, Bisexual, and Transgender Center	Paula	Pilecki	Executive Director	<a href="mailto:info@SpectrumLGBTCenter.org">info@SpectrumLGBTCenter.org</a>	<a href="http://www.spectrumlgbtcenter.org">www.spectrumlgbtcenter.org</a>	415-457-1115		30 North San Pedro Road	#160	San Rafael	CA	94903	10/26/2012
Tam Twirlers	Gen	Sheppard	President	<a href="mailto:brad@bradchristie.com">brad@bradchristie.com</a>	<a href="http://www.tamtwirlers.org">www.tamtwirlers.org</a>	415-389-9622		2675 East Francisco Boulevard		San Rafael	CA	94941	10/26/2012
The Marin Needle Arts Guild	Laura	Fraser	President	<a href="mailto:lwf.quilts@gmail.com">lwf.quilts@gmail.com</a>	<a href="http://www.mnag.org">www.mnag.org</a>	415-479-3175		PO Box 6015		San Rafael	CA	94903	10/26/2012
<b>Sonoma</b>													
Alpabet Soup Thrift Store	Ron	Baysman		<a href="mailto:Ron@pefinfo.com">Ron@pefinfo.com</a>	<a href="http://pefinfo.com/alpha.asp">http://pefinfo.com/alpha.asp</a>	707-776-4620		217 Western Avenue		Petaluma	CA	94952	1/8/2013
American Cancer Society	Julie	Van Dooren		<a href="mailto:julie.vandooren@cancer.org">julie.vandooren@cancer.org</a>	<a href="http://www.cancer.org/">http://www.cancer.org/</a>	707-545-6720		1451 Guerneville Road	Suite 220	Santa Rosa	CA	95403	1/8/2013
Benevolent & Protective Order of Elks	Gary	Corda	Manager	<a href="mailto:secretary@elks901.org">secretary@elks901.org</a>	<a href="http://www.elks.org/lodges/contactus.cfm?LodgeNumber=0901">http://www.elks.org/lodges/contactus.cfm?LodgeNumber=0901</a>	707-763-0901		2105 S. McDowell Boulevard		Petaluma	CA	94954	1/8/2013
Better Business Bureau, Inc.	Jumana	Dajani		<a href="mailto:info@bbbemail.org">info@bbbemail.org</a>	<a href="http://goldengate.bbb.org/">http://goldengate.bbb.org/</a>	866-411-2221		1000 Broadway	Suite 625	Oakland	CA	94607	1/8/2013
BNI - Rivertown Business Builders	Ken	Schrier	President	<a href="mailto:kenschrier@aol.com">kenschrier@aol.com</a>	<a href="http://www.rivertownbni.com/">http://www.rivertownbni.com/</a>	707-781-6705		111 Lynch Creek Way		Petaluma	CA	94954	1/8/2013
Boys & Girls Clubs of Marin - Southern Sonoma Counties	David	Solo	President	<a href="mailto:dsolo@petalumabgc.org">dsolo@petalumabgc.org</a>	<a href="http://www.petaluma-marinbgc.org/">http://www.petaluma-marinbgc.org/</a>	707-769-2301		203 Maria Drive		Petaluma	CA	94954	1/8/2013
California Mentor	Stephanie	Glick		<a href="mailto:Stephanie.Glick@TheMentorNetwork.com">Stephanie.Glick@TheMentorNetwork.com</a>	<a href="http://www.camentorffa.com/">http://www.camentorffa.com/</a>	707-545-6261		131A Stony Circle	Suite 450	Santa Rosa	CA	95401	1/8/2013
Carousel Fund	Arnie	Cohen	President	<a href="mailto:arnie@carouselfund.org">arnie@carouselfund.org</a>	<a href="http://www.carouselfund.org/">http://www.carouselfund.org/</a>	707-762-9136		17 Buckeye Court		Petaluma	CA	94952	1/8/2013
Charles M. Schulz Museum and Research Center	Toma	Day		<a href="mailto:toma@schulzmuseum.org">toma@schulzmuseum.org</a>	<a href="http://schulzmuseum.org/">http://schulzmuseum.org/</a>	707-579-4452		2301 Hardies Lane		Santa Rosa	CA	94952	1/8/2013
COTS - Committee on the Shelterless	Kristin	Nelson	Director of Leadership Giving and Events	<a href="mailto:kristin@cots-homeless.org">kristin@cots-homeless.org</a>	<a href="http://www.cots-homeless.org/">http://www.cots-homeless.org/</a>	707-765-6530		900 Hopper Street		Petaluma	CA	94952	1/8/2013
Cruisin' the Boulevard, Inc. Salute to American Graffiti	Pennylee	Christensen	President	<a href="mailto:info@americangraffiti.net">info@americangraffiti.net</a>	<a href="http://www.americangraffiti.net/">http://www.americangraffiti.net/</a>	707-762-3394		P.O. Box 4412		Petaluma	CA	94955	1/8/2013
Healthy Community Consortium	Denise	Di Pasqua	Coordinator	<a href="mailto:info@healthycommunity.info">info@healthycommunity.info</a>	<a href="http://healthycommunity.info/">http://healthycommunity.info/</a>	707-778-4951		200 Douglas Street		Petaluma	CA	94952	1/8/2013
Heritage Homes of Petaluma	Terry	Kosewic		<a href="mailto:terry@kozyhomes.com">terry@kozyhomes.com</a>	<a href="http://www.heritagepetaluma.com/">http://www.heritagepetaluma.com/</a>	707-762-3456		P.O. Box 2152		Petaluma	CA	94953-2152	1/8/2013

Golden Gate Bridge Transportatin Management Plan Contact List  
Associations & Clubs-Community

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip	Entry/Edit Date
Hermann Sons Hall Association	Astrid	Schardt		<a href="mailto:hermannsons@gmail.com">hermannsons@gmail.com</a>		707-762-9962		860 Western Avenue		Petaluma	CA	94952	1/8/2013
Mentor Me Petaluma	Darlene	Barrett-Garrahan	Program Director	<a href="mailto:info@mentormepetaluma.org">info@mentormepetaluma.org</a>	<a href="http://www.mentormepetaluma.org/">http://www.mentormepetaluma.org/</a>	707-778-4798		14 Keller Street		Petaluma	CA	94952	1/8/2013
North Bay Association of Realtors	Kathy	Hayes	Executive VP	<a href="mailto:kathyh@norbarrealtor.com">kathyh@norbarrealtor.com</a>	<a href="http://www.norbarrealtor.com/">http://www.norbarrealtor.com/</a>	707-542-1579		131 B Stony Circle	Suite 1700	Santa Rosa	CA	95401	1/8/2013
North Bay Leadership Council	Cynthia	Murray	President & CEO	<a href="mailto:info@northbaycouncil.org">info@northbaycouncil.org</a>	<a href="http://www.northbayleadership.org/">http://www.northbayleadership.org/</a>	707-283-0028		775 Baywood Drive	Suite 101	Petaluma	CA	94954	1/8/2013
North Coast Builders Exchange	Keith	Woods	CEO	<a href="mailto:keith@ncbeonline.com">keith@ncbeonline.com</a>	<a href="http://www.ncbeonline.com/">http://www.ncbeonline.com/</a>	707-542-9502		1030 Apollo Way		Santa Rosa	CA	95407	1/8/2013
North Coast Score Chapter 450	Lynn	Reiter		<a href="mailto:lireit@ix.netcom.com">lireit@ix.netcom.com</a>	<a href="http://northcoast.score.org/">http://northcoast.score.org/</a>	707-571-8342		777 Sonoma Avenue	Suite 115D	Santa Rosa	CA	95404	1/8/2013
Old Adobe Developmental Services (O.A.D.S.)	Elizabeth	Clary	Executive Director	<a href="mailto:Elizabeth@oadsinc.org">Elizabeth@oadsinc.org</a>	<a href="http://www.oadsinc.org/Oads_Home.html">http://www.oadsinc.org/Oads_Home.html</a>	707-763-9807		1301 A Rand Street		Petaluma	CA	94954	1/8/2013
Peace Officers Assoc. of Petaluma	Tamara	Shoemaker		<a href="mailto:tshoemaker@ci.petaluma.ca.us">tshoemaker@ci.petaluma.ca.us</a>	<a href="http://petalumapoap.org">http://petalumapoap.org</a>	707-778-4372		969 Petaluma Boulevard North		Petaluma	CA	94952	1/8/2013
Petaluma Community Foundation	Marilyn K.	Segal	Executive Director	<a href="mailto:info@petalumacf.org">info@petalumacf.org</a>	<a href="http://petalumacf.org/">http://petalumacf.org/</a>	707-773-3863		159 Kentucky Street	Suite 10	Petaluma	CA	94952	1/8/2013
Petaluma Downtown Association	Marie	McCusker	Executive Director	<a href="mailto:info@petalumadowntown.com">info@petalumadowntown.com</a>	<a href="http://www.petalumadowntown.com/welcome.html">http://www.petalumadowntown.com/welcome.html</a>	707-762-9348		210 Lakeville		Petaluma	CA	94952	1/8/2013
Petaluma Educational Foundation	Janet	Ramatici	Executive Director	<a href="mailto:janet@PEFinfo.com">janet@PEFinfo.com</a>	<a href="http://www.pefinfo.com/">http://www.pefinfo.com/</a>	707-778-4632		200 Douglas Street		Petaluma	CA	94952	1/8/2013
Petaluma Firefighters Local #1415	Ken	Dick	Union President		<a href="http://petalumaff.com/index.cfm?section=1">http://petalumaff.com/index.cfm?section=1</a>	707-364-4465		P.O. Box 750065		Petaluma	CA	94978	1/8/2013
Petaluma-Hamilton Lodge #180 Masonic Lodge	Guy	Chalmers		<a href="mailto:jmc329@aol.com">jmc329@aol.com</a>		707-762-6513		9 Western Avenue		Petaluma	CA	94952	1/16/2013
Petaluma Host Lions	Mary	Mansi	Treasurer	<a href="mailto:dbaggenstos@fishmansupply.com">dbaggenstos@fishmansupply.com</a>	<a href="http://www.petalumahostlionsclubca.lionwap.org/">http://www.petalumahostlionsclubca.lionwap.org/</a>	707-762-3518		P.O. Box 946		Petaluma	CA	94953	1/8/2013
Petaluma Kiwanis Club	William	Sullivan		<a href="mailto:petalumabear@gmail.com">petalumabear@gmail.com</a>		707-778-9200		P.O. Box 162		Petaluma	CA	94953	1/8/2013
Petaluma Museum Association	Joe	Noriel	President	<a href="mailto:mary@petalumamuseum.com">mary@petalumamuseum.com</a>	<a href="http://www.petalumamuseum.com/">http://www.petalumamuseum.com/</a>	707-778-4398		20 Fourth Street		Petaluma	CA	94952	1/8/2013
Petaluma People Services Center	Elece	Hempel	Executive Director	<a href="mailto:admin@petalumapeople.org">admin@petalumapeople.org</a>	<a href="http://www.petalumapeople.org/">http://www.petalumapeople.org/</a>	707-765-8488		1500 Petaluma Boulevard South	Suite A	Petaluma	CA	94952	1/8/2013
Petaluma Regional Library	Doug	Cisney	Branch Manager	<a href="mailto:dcisney@sonoma.lib.ca.us">dcisney@sonoma.lib.ca.us</a>	<a href="http://www.sonomalibrary.org/">http://www.sonomalibrary.org/</a>	707-763-9801		100 Fairgrounds Drive		Petaluma	CA	94952	1/8/2013
Petaluma Small Craft Center/ Petaluma Water Ways	Susan	Starbird	c/o Clavey Paddlesports	<a href="mailto:info@susanstarbird.com">info@susanstarbird.com</a>	<a href="http://www.sites.google.com/site/petalumasmallcraftcenter/directory">www.sites.google.com/site/petalumasmallcraftcenter/directory</a>	707-778-7277		409 Petaluma Blvd South		Petaluma	CA	94952	1/8/2013
Petaluma Trolley	Christopher	Stevick	Managing Director	<a href="mailto:livingart@comcast.net">livingart@comcast.net</a>	<a href="http://www.petalumatrolley.org">www.petalumatrolley.org</a>	707-778-7878		110 Bayliss Street		Petaluma	CA	94952	1/8/2013
Petaluma Visitors Program	Colleen	Rustad		<a href="mailto:colleen@visitpetaluma.com">colleen@visitpetaluma.com</a>	<a href="http://www.visitpetaluma.com">www.visitpetaluma.com</a>	707-769-0429		210 Lakeville		Petaluma	CA	94952	1/8/2013
Petaluma Woman's Club II	Leslie	McNicol	Editor	<a href="mailto:lmcnicol@hotmail.com">lmcnicol@hotmail.com</a>	<a href="http://www.petalumawomansclub.com">www.petalumawomansclub.com</a>	707-762-4271		518 B Street		Petaluma	CA	94952	1/16/2013
Petaluma Yacht Club	David	Quist	Secretary	<a href="mailto:dsquist@earthlink.net">dsquist@earthlink.net</a>	<a href="http://www.petalumayachtclub.com">www.petalumayachtclub.com</a>	707-765-9725		10 "C" Street		Petaluma	CA	94952	1/16/2013
Polly Klass Foundation	Gary	Judd	President	<a href="mailto:service@pollyklaas.org">service@pollyklaas.org</a>	<a href="http://www.pollyklaas.org">www.pollyklaas.org</a>	707-763-1334		312 Western Avenue		Petaluma	CA	94952	1/16/2013
United Cerebral Palsy of the North Bay	Margaret	Farman	Executive Director	<a href="mailto:mfarman@ucpnb.org">mfarman@ucpnb.org</a>	<a href="http://www.ucpnb.ucplabs.org/about-us/leadership-team">www.ucpnb.ucplabs.org/about-us/leadership-team</a>	707-766-9990		3835 Cypress Drive	#103	Petaluma	CA	94954	1/16/2013
Vietnam Veterans of CA	Peter	Cameron	Executive Director	<a href="mailto:nbvrc@vietvets.org">nbvrc@vietvets.org</a>	<a href="http://www.vietvets.org">www.vietvets.org</a>	707-578-8387		2455 Bennett Valley Road		Santa Rosa	CA	95404	1/16/2013
<b>San Francisco</b>													
Marina Merchants Association	Kelly	Keiser	President	<a href="mailto:kelly@kellykeiserdesign.com">kelly@kellykeiserdesign.com</a>	(415) 567-8818			2269 Chestnut Street, #235		San Francisco	CA	94123	10/6/2009
San Francisco Council of District Merchants Associations	Jim	Maxwell	President	<a href="mailto:info@sfcdma.org">info@sfcdma.org</a> <a href="mailto:Arch2info@mindspring.com">Arch2info@mindspring.com</a>	415-441-0848			3444 Broderick		San Francisco	CA	94123	10/6/2009
Building Owners and Managers of San Francisco	Tory	Brubaker	Member Services Director	<a href="mailto:toryb@boma.com">toryb@boma.com</a>	415-362-2662 x115			233 Sansome Street, 8th Floor		San Francisco	CA	94104	3/30/2011
California Alliance for Jobs	Jim	Earp	Executive Director	<a href="mailto:jearp@rebuildca.org">jearp@rebuildca.org</a>	925-521-9719			928 Second Street	Suite 200	Sacramento	CA	95814	10/6/2009
East Bay Economic Development Alliance	Karen	Engel	Executive Director	<a href="mailto:karen@eastbayeda.org">karen@eastbayeda.org</a> <a href="mailto:info@eastbayeda.org">info@eastbayeda.org</a>	(510) 272-3874	510-272-3885		1221 Oak Street	Suite 555	Oakland	CA	94612	12/21/2010
Northern California Concierge Association	Ric	Lee	President	<a href="mailto:nccapres@gmail.com">nccapres@gmail.com</a>				588 Sutter St. #22		San Francisco	CA	94102	10/6/2009
San Mateo County Economic Development Association				<a href="mailto:info@sanceda.org">info@sanceda.org</a>	(650) 413-5600			1301 Shoreway Road	Suite 150	Belmont	CA	94002	3/4/2011
Small Business Advisory Council	Marian	Costello	Co-Chair	<a href="mailto:mcostello@scomas.com">mcostello@scomas.com</a>									10/6/2009
Chinese Real Estate Association of America	Albert	Tam	President	<a href="mailto:albert.tam@gmail.com">albert.tam@gmail.com</a>	650-740-9928			945 Taraval Street	Suite 328	San Francisco	CA	94116	1/10/2013
Coalition for Better Housing	Brook	Turner	Executive Director	<a href="mailto:battime@shcglobal.net">battime@shcglobal.net</a>	415-474-6987			1388 Sutter Street	#800	San Francisco	CA	94109	1/10/2013
Golden Gate Business Association	Pat	Mayfield	Executive Director	<a href="mailto:pat@ggba.com">pat@ggba.com</a>	865-5545			1800 Market Street, Suite Q32		San Francisco	CA	94114	1/10/2013
Golden Gate Restaurant Association	Rob	Black	Executive Director	<a href="mailto:ggra@ggra.org">ggra@ggra.org</a>	781-5348 x 1			100 Montgomery Street	Suite 1280	San Francisco	CA	94104	1/10/2013
National Associaton of Women Business Owners	Wendi	Moradian	Administrator	<a href="mailto:info@nawbo-sfba.org">info@nawbo-sfba.org</a>	333-2130	586-6606		985 Darien Way		San Francisco	CA	94127	1/10/2013
San Francisco Small Business Network	Pat	Christensen	Public Affairs Director	<a href="mailto:patdchris@yahoo.com">patdchris@yahoo.com</a>	731-2859			2261 Market St., #288		San Francisco	CA	94114	1/10/2013
San Francisco Council of District Merchants Association	Jim	Maxwell		<a href="mailto:mma_prez@mindspring.com">mma_prez@mindspring.com</a>	974-9000	564-7879		P.O. Box 225024		San Francisco	CA	94122	1/10/2013
San Francisco Fashion Industries	Randy	Harris		<a href="mailto:sffi@dnai.com">sffi@dnai.com</a>	621-6100	621-6384		1000 Brannan St.		San Francisco	CA	94103	1/10/2013
San Francisco Locally-Owned Merchant Alliance	Neil Sofman			<a href="mailto:info@sfloma.org">info@sfloma.org</a>	561-7687	561-7685		P.O. Box 29169		San Francisco	CA	94129	1/10/2013
Bay Area Council	Jim	Wunderman	President & CEO	<a href="mailto:Jim@bayareacouncil.org">Jim@bayareacouncil.org</a>	415-981-8702			201 California Street	Suite 1450	San Francisco	CA	94111	1/15/2013

Golden Gate Bridge Transportatin Management Plan Contact List  
Associations - Neighborhood

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
<b>SF Cow Hollow Residents</b>												
Cow Hollow Association	Jennifer	Gridley		<a href="mailto:cowhollowassociation@yahoo.com">cowhollowassociation@yahoo.com</a>	<a href="http://www.cowhollowassociation.org/">http://www.cowhollowassociation.org/</a>			2611 Filbert Street		San Francisco	CA	94123
Cow Hollow Association	Tony	Imhof		<a href="mailto:imhof3@sbcglobal.net">imhof3@sbcglobal.net</a>	<a href="http://www.cowhollowassociation.org/">http://www.cowhollowassociation.org/</a>	415-921-4657		2409 Green Street		San Francisco	CA	94123
Cow Hollow Association	Lori	Brooke	President	<a href="mailto:lbrooke@lmi.net">lbrooke@lmi.net</a>	<a href="http://www.cowhollowassociation.org/">http://www.cowhollowassociation.org/</a>							
Cow Hollow Neighbors in Action	Max	DelleSedie		<a href="mailto:mdellesedi@aol.com">mdellesedi@aol.com</a>		415-922-9906	415-921-0181	3160 Lyon Street		San Francisco	CA	94123
Cow Hollow Neighbors in Action	Patricia	Vaughey		<a href="mailto:info@cowhollowassociation.org">info@cowhollowassociation.org</a>		415-776-3191		2742 Baker Street		San Francisco	CA	94123
Cow Hollow Associations - President & Board				<a href="mailto:chaboard@cowhollowassociation.org">chaboard@cowhollowassociation.org</a>								
Cow Hollow Associations - Block Captains				<a href="mailto:blocks@cowhollowassociation.org">blocks@cowhollowassociation.org</a>								
<b>SF Marina Residents</b>												
Golden Gate Valley Neighborhood Association	Robert	Bardell	President	<a href="mailto:BBardell@comcast.net">BBardell@comcast.net</a>		415-931-3438		2634 Franklin Street		San Francisco	CA	94123
Marina Civic Improvement & Property Owners Association	Joan Marie	Girardot		<a href="mailto:CSFN_SF@yahoo.com">CSFN_SF@yahoo.com</a>		415-346-5525	415-282-5014	349 Marina Boulevard		San Francisco	CA	94123
Marina Merchants Association	James	Maxwell		<a href="mailto:Arch2info@mindspring.com">Arch2info@mindspring.com</a>		415-441-0848		3444 Broderick Street		San Francisco	CA	94123
Marina Merchants Association	Peter	Singh		<a href="mailto:crownstigh@aol.com">crownstigh@aol.com</a>		928-7852				San Francisco	CA	94123
Marina Merchants Association	Nick	Pertrulakis		<a href="mailto:npertrulakis@booksinc.net">npertrulakis@booksinc.net</a>		931-3633		2251 Chestnut St.		San Francisco	CA	94123
Marina Merchants Association	Alex	Feldman	President	<a href="mailto:alex@sfoptics.com">alex@sfoptics.com</a>	<a href="http://themarinasf.com/">http://themarinasf.com/</a>	415-614-0259		2248 Chestnut St		San Francisco	CA	94123
Marina Merchants Association				<a href="mailto:president@themarinasf.com">president@themarinasf.com</a>		415-922-7500						
Russian Hill Neighbors	Francisco	Centurion		<a href="mailto:sfrhn@rhn.org">sfrhn@rhn.org</a>		415-267-0575		2750 Polk St., Apt. 3		San Francisco	CA	94109
Pacific Heights Resident Association	Greg	Scott	President	<a href="mailto:info@phra-sf.org">info@phra-sf.org</a>		415-922-3572		2585 Pacific Ave.		San Francisco	CA	94115
Marina Community Association	Ronald	Mulcare		<a href="mailto:info@sfmca.org">info@sfmca.org</a>				1517 North Point St	Box #531	San Francisco	CA	94123
Marina Neighborhood Association	Gloria	Fontanello		No Answer, No Voicemail Available		415-771-8662		1435 Bay Street		San Francisco	CA	94123
<b>SFPresidio Residents</b>												
Neighborhood Association for Presidio Planning	Michael	Marston		<a href="mailto:marstonmichael@yahoo.com">marstonmichael@yahoo.com</a>		415-922-3375		3375 Jackson Street		San Francisco	CA	94118
Presidio Heights Association of Neighbors	Carol	Solfannelli	President	<a href="mailto:info@phansf.org">info@phansf.org</a>				P.O. Box 29503		San Francisco	CA	94129
Presidio Residents & Tenants	Lindy	Beasley		<a href="mailto:lindyb@earthlink.net">lindyb@earthlink.net</a>		415-389-5961		131 Barbaree Way		Tiburon	CA	94920
West Presidio Neighborhood Association	Melanie	Marks		<a href="mailto:2mrmarks@comcast.net">2mrmarks@comcast.net</a>				110 El Camino Del Mar		San Francisco	CA	94121
<b>Richmond Residents</b>												
Richmond Presidio Neighbors Association	Andrea	Lewin		<a href="mailto:ajlewin@gmail.com">ajlewin@gmail.com</a>		415 386-9075				San Francisco	CA	
Planning Association for the Richmond	Raymond	Holland	President	<a href="mailto:president@sfpar.org">president@sfpar.org</a> <a href="mailto:raymondsmf@aol.com">raymondsmf@aol.com</a>		(415) 668-8914		747 23rd Avenue		San Francisco	CA	94121
Planning Association for the Richmond	Paul	Epstein		<a href="mailto:paulsfo@gmail.com">paulsfo@gmail.com</a>		415-751-6657		116 - 11th Avenue		San Francisco	CA	94118
<b>Other SF Neighborhood Associations</b>												
301 Gough Homeowners Association				No Answer, No Voicemail Available		415-701-8451		301 Gough Street		San Francisco	CA	94102
Asian Business Association	Basilio	Chen		<a href="mailto:Aaba.inc@att.net">Aaba.inc@att.net</a>		284-6765		41 Sutter St. Mail Stop 1080		San Francisco	CA	94104
Asian Business League of San Francisco				<a href="mailto:info@ablsf.org">info@ablsf.org</a>	<a href="http://www.ablsf.org/">http://www.ablsf.org/</a>	415-670-9022		PO Box 191345		San Francisco	CA	94119-1345
Barbary Coast Neighborhood Association	Bill	Sauro	President	<a href="mailto:williamsauro@yahoo.com">williamsauro@yahoo.com</a>	<a href="http://www.barbaryneighbors.org">www.barbaryneighbors.org</a>			640 Davis St	Unit #28	San Francisco	CA	94111
BayCrest Residential Association	Ed	Walsh	Resident	<a href="mailto:edwalsh94105@yahoo.com">edwalsh94105@yahoo.com</a>	<a href="http://www.baycrestview.com/">http://www.baycrestview.com/</a>	415-543-1135		201 Harrison Street	#120	San Francisco	CA	94105
BayCrest Residential Association	James	Pounders	Residential Service Manager	<a href="mailto:JPounders@pacbell.net">JPounders@pacbell.net</a>	<a href="http://www.baycrestview.com/">http://www.baycrestview.com/</a>			201 Harrison Street	#120	San Francisco	CA	94105
Bayview Hunters Point Coordinating Council	Francisco	Da Costa		<a href="mailto:frandacosta@att.net">frandacosta@att.net</a>		415-822-9602						
Bayview Merchants' Association	Al	Norman	President	<a href="mailto:info@bayviewmerchantsassociation.com">info@bayviewmerchantsassociation.com</a>	<a href="http://bayviewmerchants.org/">http://bayviewmerchants.org/</a>	415-647-3728		3801 3rd Street	Suite 1068	San Francisco	CA	94124
Buena Vista Neighborhood Association				<a href="mailto:info@bvnsaf.com">info@bvnsaf.com</a>	<a href="http://www.bvnsaf.com/">http://www.bvnsaf.com/</a>	415-431-2359						
Cathedral Hill Neighbors Association	Marlayne	Morgan	President	<a href="mailto:cathedralhillneighbors@gmail.com">cathedralhillneighbors@gmail.com</a>	<a href="http://sfchna.org/">http://sfchna.org/</a>			1450 Sutter Street	PMB 309	San Francisco	CA	94109-9801
Castro/Eureka Valley Neighborhood Association	Alan	Beach-Nelson		<a href="mailto:info@evpa.org">info@evpa.org</a>	<a href="http://evna.org/">http://evna.org/</a>							
Cayuga Improvement Association	Christine	Dillon	President	<a href="mailto:nabby@comcast.net">nabby@comcast.net</a>	<a href="http://li257-123.members.linode.com/">http://li257-123.members.linode.com/</a>	415-337-0472		314 Foote Avenue		San Francisco	CA	94112
Chinatown Merchants Association	Eva	Lee		<a href="mailto:elee@moonfestival.org">elee@moonfestival.org</a>	<a href="http://www.moonfestival.org/">http://www.moonfestival.org/</a>	982-6306	982-6306	667 Grant Ave.		San Francisco	CA	94108
Chinatown Merchants Association				<a href="mailto:info@moonfestival.org">info@moonfestival.org</a>	<a href="http://www.moonfestival.org/">http://www.moonfestival.org/</a>							
Clement Street Merchants Association	Jessie	Fink	President	<a href="mailto:toymanj@aol.com">toymanj@aol.com</a>	<a href="http://www.clementmerchants.org/">www.clementmerchants.org/</a>	415-751-7505		Clement@ 5th Avenue	Toy Boat Dessert Café	San Francisco	CA	94118
Coalition for San Francisco Neighborhoods				<a href="mailto:CSFN_SF@yahoo.com">CSFN_SF@yahoo.com</a>	<a href="http://www.csfn.net/">www.csfn.net/</a>	415-262-0440		PO Box 320098		San Francisco	CA	94132
Cole Valley Improvement Association	David	Crommie	President	<a href="mailto:cviasf@aol.com">cviasf@aol.com</a>	<a href="http://www.cviasf.org/">www.cviasf.org/</a>	415-431-1414		P.O. Box 170611		San Francisco	CA	94117
Cortland Merchants Association	Darcy	Lee		<a href="mailto:info@heartfelttsf.com">info@heartfelttsf.com</a>		415-648-1380		436 Cortland Avenue		San Francisco	CA	94110
Dolores Heights Improvement Club				<a href="mailto:dhic123@gmail.com">dhic123@gmail.com</a>	<a href="http://www.doloresheights.org">www.doloresheights.org</a>							
Duboce Triangle Neighborhood Association	Pat	Tura	President	<a href="mailto:info@dtna.org">info@dtna.org</a>	<a href="http://www.dtna.org/">http://www.dtna.org/</a>							



Golden Gate Bridge Transportatin Management Plan Contact List  
Associations - Neighborhood

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
East Mission Improvement Association	Cathy	Ramacciotti	President	lilcheckers@aol.com	http://www.csfm.net/memberpages/EMIA.html							
East Mission Improvement Association	John	Wilson	Vice President	<a href="mailto:jwilson153@aol.com">jwilson153@aol.com</a>	http://www.csfm.net/memberpages/EMIA.html							
East Mission Improvement Association	Judith	Berkowitz	Recording Secretary	sfjberk@mac.com	http://www.csfm.net/memberpages/EMIA.html							
East Mission Improvement Association	Sheryl	Connell	Corresponding Secretary	connellsa@aol.com	http://www.csfm.net/memberpages/EMIA.html							
Ewing Terrace Neighborhood Association	John	Munz	President	<a href="mailto:johnmunz@pacbell.net">johnmunz@pacbell.net</a>		415-346-3447						
Excelsior Action Group/EnCore	Cristy	Johnston	Operations Manager	<a href="mailto:cristy@eagsf.org">cristy@eagsf.org</a>	<a href="http://eagsf.org/">http://eagsf.org/</a>	415-585-0110		4702 Mission		San Francisco	CA	94112
Excelsior Business Association	Min	Suen		<a href="mailto:msuen@msn.com">msuen@msn.com</a>		587-1231	587-1231	4477 Misstion St.		San Francisco	CA	94112
Excelsior Business Association	Rebecca	Silverberg		<a href="mailto:sfrebecca@aol.com">sfrebecca@aol.com</a>		584-0535	584-4680	154 Lisbon St.		San Francisco	CA	94112
Excelsior District Improvement Association	May	Wong	President	<a href="mailto:ediasf-info@yahoo.com">ediasf-info@yahoo.com</a>	http://excelsiorsf.org/	415-294-0503		PO Box 12005		San Francisco	CA	94112-0005
Fairmount Heights Neighborhood Association	Gregg	Brooks		<a href="mailto:sflyric@yahoo.com">sflyric@yahoo.com</a>								
Fair Oaks Community Coalition	Andy	Segal	President	<a href="mailto:focc.neighbors@gmail.com">focc.neighbors@gmail.com</a>	<a href="http://www.fairoaks-sf.org/">http://www.fairoaks-sf.org/</a>							
Fillmore Merchants & Imp. Association	Thomas	Reynolds		<a href="mailto:trr@thomasreynolds.com">trr@thomasreynolds.com</a>	<a href="http://www.sanfrancisco.com/merchants.com/merchant_associations/fillmore_merchants_association.htm">http://www.sanfrancisco.com/merchants.com/merchant_associations/fillmore_merchants_association.htm</a>	441-4093		2291 Pine St.		San Francisco	CA	94115
Fisherman's Wharf Merchants Association				<a href="http://fishermanswharf@sbcglobal.net">fishermanswharf@sbcglobal.net</a>	<a href="http://www.fishermanswharf.org/default.aspx">http://www.fishermanswharf.org/default.aspx</a>	202-0436		5 Jefferson Street		San Francisco	CA	94133
Forest Knolls Neighborhood Organization				<a href="mailto:whcaplan@comcast.net">whcaplan@comcast.net</a>	http://www.forestknolls.org/							
Francisco Heights Improvement Association	David	Weiss	Co-President	<a href="mailto:davidhomesf@comcast.net">davidhomesf@comcast.net</a>		415-379-3620		76 Rossi Avenue		San Francisco	CA	94118
Glen Park Association				<a href="mailto:news@glenparkassociation.org">news@glenparkassociation.org</a>	<a href="http://glenparkassociation.org/">http://glenparkassociation.org/</a>	585-5761		PO Box 31292		San Francisco	CA	94131
Greater Geary	David	Heller		<a href="mailto:david@beautyntnetwork.com">david@beautyntnetwork.com</a>		387-1477	387-2291	5748 Geary Blvd.		San Francisco	CA	94121
Greater West Portal Neighborhood Association	Emeric	Kalman		<a href="mailto:info@gwpna.org">info@gwpna.org</a>	http://www.gwpna.org/			P.O. Box 27116		San Francisco	CA	94127
Haight Ashbury Improvement Association				<a href="mailto:haia_sf@yahoo.com">haia_sf@yahoo.com</a>	<a href="https://sites.google.com/site/sfhaia/">https://sites.google.com/site/sfhaia/</a>			P.O. Box 170098		San Francisco	CA	94117
Haight Ashbury Merchants Association	Dave	McLean		<a href="mailto:dave@magnoliapub.com">dave@magnoliapub.com</a>								
Hayes Valley Merchants Associaton	Russell	Pritchard		<a href="mailto:zonalhayes@earthlink.net">zonalhayes@earthlink.net</a>	<a href="http://www.hayesvalley.com">http://www.hayesvalley.com</a>	415-255-9307	386-2492	555 Hayes Street		San Francisco	CA	94102
Inner Sunset Action Committee	John	Bardis		<a href="mailto:jbardis@xdm.com">jbardis@xdm.com</a>								
Inner Sunset Mechants Association	Rolf	Mueller		<a href="mailto:rmueller@rjmsystems.com">rmueller@rjmsystems.com</a>		731-2884	731-3740	917 Irving St. Suite 4		San Francisco	CA	94112
Inner Sunset Merchants Association	David	Zimmerman	President	<a href="mailto:blackthorns@gmail.com">blackthorns@gmail.com</a>	www.innersunsetmerchants.org			1032 Irving St, Suite 711		San Francisco	CA	94112
Inner Sunset Merchants Association				<a href="mailto:innersunsetmerchants@gmail.com">innersunsetmerchants@gmail.com</a>								
Japantown Merchants Association	Richard	Hashimoto	President	<a href="mailto:rhashimoto@aol.com">rhashimoto@aol.com</a>	http://www.sfjapantown.org	415-567-4573		1610 Geary Blvd.		San Francisco	CA	94115
Japantown Taskforce	Linda	Jofuku		<a href="mailto:heiwaj@jtowntaskforce.org">heiwaj@jtowntaskforce.org</a>		346-1239	346-6703	1765 Sutter Street		San Francisco	CA	94115
Jetrof	Naoyuki	Haraoka		<a href="mailto:sfwebmaster@jetro.go.jp">sfwebmaster@jetro.go.jp</a>		392-1333	788-6927	235 Pine St. Suite 1700		San Francisco	CA	94104
Jordan Park Neighborhood Association	Larry	Costello	President	<a href="mailto:larryoracleoak@me.com">larryoracleoak@me.com</a>	http://jpia.echapters.com/home.php	415-314-5833						
Judah Merchants Association	Buffy	Maguire	President	<a href="mailto:buffy@javabeachcafe.com">buffy@javabeachcafe.com</a>		415-606-1884		1396 La Playa Street		San Francisco	CA	94122
Laurel Village Merchants Association	Jeff	Leopold		<a href="mailto:leopold@standard5n10.com">leopold@standard5n10.com</a>	http://www.neighborhoodlink.com/sanfran/laurel-village-merchants/	751-5767				San Francisco	CA	
Laurel Village Merchants Association	Tricia	Tong	Merchant Coordinator	<a href="mailto:lvma.triciatong@gmail.com">lvma.triciatong@gmail.com</a>	http://www.neighborhoodlink.com/sanfran/laurel-village-merchants/	415-308-7482						
Liberty Hill Neighborhood Association	John	Barbey		<a href="mailto:libertyhillneighborhood@gmail.com">libertyhillneighborhood@gmail.com</a>	http://libertyhillsf.org/							
Lower 24th Street Merchants Association	Erick	Arguello	President	<a href="mailto:erik@lower24thstreet.org">erik@lower24thstreet.org</a> , <a href="mailto:eriq94110@aol.com">eriq94110@aol.com</a>	<a href="http://lower24thstreet.org/english/about.html">http://lower24thstreet.org/english/about.html</a>	415-902-5893	415-323-8939					
Lower height Merchant & Neighbor Association—LoHaMNA	Thea	Selby	Contact	<a href="mailto:thea@nextstepsmarketing.com">thea@nextstepsmarketing.com</a>		415-773-1841						
Lower Polk Neighbors and Merchants	Recia	Young	Chairperson	<a href="mailto:Reciaannyoung@yahoo.com">Reciaannyoung@yahoo.com</a>								
Market Street Association	Carolyn	Diamond		<a href="mailto:msady@pacbell.net">msady@pacbell.net</a>		362-2500	362-6128	870 Market Street	Suite 456	San Francisco	CA	94102
Merchants of Upper Market & Castro (MUMC)	Richard	Magary	Operations Manager	<a href="mailto:Mumc-sf@earthlink.net">Mumc-sf@earthlink.net</a>	http://castromerchants.com/index.html	415-431-2359		450 Castro Street		San Francisco	CA	94114
Merchants of Upper Market & Castro (MUMC)	Terry	Asten Bennett	President	<a href="mailto:info@castromerchants.com">info@castromerchants.com</a>	http://castromerchants.com/index.html	861-5787				San Francisco	CA	
Merchants of Upper Market & Castro (MUMC)	Herb	Cohn		<a href="mailto:mumcpres@aol.com">mumcpres@aol.com</a>	http://castromerchants.com/index.html	621-1188	621-0343	584 Castro Street, #333		San Francisco	CA	94114
Mid Divisadero Merchants Association	Remy	Nelson	President	<a href="mailto:rem@mojobicyclecafe.com">rem@mojobicyclecafe.com</a>		415-440-2338	415-515-3558					
Miraloma Park Improvement Club				<a href="mailto:miralomapark@gmail.com">miralomapark@gmail.com</a>	http://www.miralomapark.org/							
Mission Chinese Bus. Improvement Group				<a href="mailto:maiswong@aol.com">maiswong@aol.com</a>		206-9326	206-1639	3372 20th St.		San Francisco	CA	94110
Mission Creek Merchant Association	Candace	Combs	President	<a href="mailto:ccombs@insymmetry.com">ccombs@insymmetry.com</a>	www.mcma-sf.com	415.531.8232	cell					
Mission Economic Development Association				<a href="mailto:Info@medasf.org">Info@medasf.org</a>	<a href="http://www.medasf.org">www.medasf.org</a>	415-282-3334		3505 - 20th Street		San Francisco	CA	
Mission Merchant Association	Phillip	Lesser	Government/ Media Relation vp	<a href="mailto:phsan@msn.com">phsan@msn.com</a>		650-347-6014		555 Laurel Ave Suite 501		San Mateo	CA	94401

Golden Gate Bridge Transportatin Management Plan Contact List  
Associations - Neighborhood

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
Mission Merchant Association	Don	Allan	President	sfmissionmerchants@gmail.com / hemanova@earthlink.net	http://www.missionmerchants.com/	415.552.7835		P.O. Box 41420		San Francisco	CA	94120
Mission Neighborhood Centers, Inc.				Barbara.Walden@mncsf.org	http://www.mncsf.org/index.php	415-206-7752		362 Capp Street		San Francisco	CA	94110
Mission Terrace Neighborhood				Mtbeautify@aol.com	http://www.missionterrace.org/index.html							
New Mission Terrace Improvement Assn.					http://newmissionterrace.wordpress.com/	415-584-7444		P.O. Box 12111		San Francisco	CA	94112
Nob Hill Association				info@nobhillassociation.org	www.nobhillassociation.org	415-346-8720		235 Montgomery Street	Suite 870	San Francisco	CA	94104
Nob Hill Urban Neighbors				nobhillurbansf@aol.com	http://nobhillurbanneighbors.com/	415-928-8904		P.O. Box 640024		San Francisco	CA	94164
Noe Valley Merchants Association	Robert T.	Roddick	President	info@noevalleymerchants.com	http://www.noevalleymerchants.com/	415-641-8687		PO Box 460574		San Francisco	CA	94146
Noriega-Lawton Merchants Association	Don	Schmidt	President	dmschmid@pacbell.net		415-665-6291		1811 21st Ave		San Francisco	CA	94122
North Beach Business Association	Shell	Thomas	President	info@northbeachbusinessassociation.com	http://www.northbeachbusinessassociation.com	415-215-8091		P.O. Box 330022		San Francisco	CA	94133
North Beach Neighbors				info@northbeachneighbors.org	http://www.northbeachneighbors.org/			P.O. Box 330115		San Francisco	CA	94133
Northeast Mission Merchants and Biz Association	Gwen	Kaplan	President	acemailing@aol.com	http://www.sfmission.com/merchants/96awards/96awards.htm	415-863-4223		2757 16th Street		San Francisco	CA	94103
OMI Business League	Royce	Vaughn		roycejudy@acninc.net		826-7419	848-4555	459 Valley St.		San Francisco	CA	94114
Outer Mission Merchants and Residents Association	Steven R.	Currier	President	steven.currier@sfdistricts.org	www.sfdistricts.org	415.587.9150		P.O. Box 34099		San Francisco	CA	94134
Outer Sunset Merchants & Professionals Association				irvingstreetmerchants@gmail.com	http://www.irvingstreetmerchants.com/index.html			2000 Judah St.		San Francisco	CA	94122
Outer Sunset Merchants Association	Del	Singh		darsingh@aol.com	http://www.irvingstreetmerchants.com/index.html	564-8269	731-0701	1221 23rd Ave.		San Francisco	CA	94122
Outer Sunset Merchants Association	Angela	Tickler		angela@hardwearsf.com	http://www.irvingstreetmerchants.com/index.html	415-682-9565		1825 Irving Street		San Francisco	CA	94122
Park Merced Resident's Organization	Robert	Pender		admin@parkmercedresidents.org		415-267-3961		#5 Josephia Ave.		Park Merced	CA	94132
Parkside Taraval Merchants Association	Scott Hauge			shauge@cal-insure.com		661-6500	661-2254	2311 Taraval St.		San Francisco	CA	94116
Parkside Taraval Merchants Association	Barbara	Udovch		sfoms@aol.com		753-8925	681-1761	2331 Taraval St.		San Francisco	CA	94116
Polk Street Merchants Association	Stephen	Cornell		brownies@acehardware.com		673-8900	753-2669	1563 Polk St.		San Francisco	CA	94109
Polk Street Merchants Association	Stephen	Cornell		Stephen@brownieshardware.com	http://www.sanfrancisco merchants.com/associations/polk_district_merchants.ht	415-673-8900		1620 Polk Street		San Francisco	CA	94109
Polk Street Merchants Association	Jennifer	Farris		Info@PolkDistrictMerchants.com	Jennifer.Farris@sbcglobal.net	415.845.8814						
Portola Neighborhood Association	Robert	Ramirez	Program Manager	Robert.R.PNA@gmail.com	http://portolasf.org	415-574-9170		9 Silliman Street, Suite B		San Francisco	CA	94134
Potrero Boosters Neighborhood Association				evan.goldin@gmail.com	http://www.potreroboosters.org/							
Potrero Hill Association of Merchants and Businesses	Gwen	Cooke	Operations	gwen@allpointe-is.com	http://www.sanfrancisco merchants.com/associations/potrero_hill_merchants.htm	415) 305-4268		1459 - 18th Street # 105		San Francisco	CA	94107
Potrero Hill Association of Merchants and Businesses	Bradley	Vaccaro	Vice President	sbn@potrerohill.biz	www.potrerohill.biz	888-992-2244		1459 - 18th Street #105		San Francisco	CA	94107
Potrero Merchants Association	Philip	DeAndrade		philip@goathill.com		641-1440	641-7262	300 Connecticut Street		San Francisco	CA	94107
Richmond Community Association	Hiroshi	Fukuda		NINERSAM@aol.com								
Rincon Center Tenants Association				rcta1@rinconneighbors.com								
Rincon Point Neighbors Association				rpna1@rinconneighbors.com	http://www.rinconneighbors.com/embarc.html							
Russian Hill Improvement Association				info@franciscoreservoir.org	http://franciscoreservoir.org/Francisco_Reservoir/Home.html							
Russian Hill Neighbors	Tina	Moylan	President	sfrhn2@rhn.org	http://www.rhn.org/			1819 Polk Street, #221		San Francisco	CA	94109
SF Residents First				first@rinconneighbors.com	http://www.rinconneighbors.com/embarc.html							
Sacramento Street Merchants Association	Rachel	Lopez Metzger	President	thedeskset@pacbell.net		415-921-9575						
Salvadoran American Chamber of Commerce				info@elsalvadorsanfrancisco.com		510/472-5138		870 Market Street	Suite 512	San Francisco	CA	94102
San Bruno/Ocean Avenue Merchants Association	Ling	Liang	Operations Manager	Ling.pnsc@gmail.com		415-574-9170						
San Francisco Council of District Merchants Association	Henry	Karnilowicz	President	info@sfdcma.org	http://www.sanfrancisco merchants.com/merchant_associations/san_francisco_council_of_district_merchant_	415-621-6637		3444 Broderick St		San Francisco	CA	94123
Singapore American Business Association				sabausa@aol.com		252-1150	252-1160	333 Twin Dolphin Dr.	Suite 112	San Francisco	CA	94065
South Beach Mission Bay Business Association	Katherine	Webster	President	kwebster@storytellingmedia.com	http://www.southbeachmissionbay.com/local_business/business_association.php	415-348-8377	650-888-8377	88 King Street, Suite 703		San Francisco	CA	
South of Market Business Association	Henry Karnilowicz			occepx@aol.com		621-7533	621-7583	1019 Howard		San Francisco	CA	94103
South of Market Business Association	Henry	Kamilowicz	President	info@sfsomba.org	http://www.sfsomba.org/	415.553.4433	x115	C/O Urban Solutions		San Francisco	CA	94103
South of Market Business Association				occepx@aol.com		/ c-420-8113		1083 Mission St.				
Sunset Heights Association of Responsible People / SHARP				information@sharpsf.com	http://www.sharpsf.com/			2nd Floor				

Golden Gate Bridge Transportatin Management Plan Contact List  
Associations - Neighborhood

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
Taraval Parkside Merchants Association	Dallas	Udovch	President	<a href="mailto:sfosm@aol.com">sfosm@aol.com</a>	<a href="http://taravalmerchants.org">http://taravalmerchants.org</a>	415-753-8925		2331 Taraval Street		San Francisco	CA	94116
Taraval Parkside Merchants Association				<a href="mailto:Streetfair@taravalmerchants.org">Streetfair@taravalmerchants.org</a>		415-572-3461						
Telegraph Hill Dwellers	Jon	Golinger	President	<a href="mailto:President@thd.org">President@thd.org</a>	<a href="http://www.thd.org/">http://www.thd.org/</a>							
Tenderloin Merchants Association	Jimmy	Shamieh		<a href="mailto:jimmyshamieh@comcast.net">jimmyshamieh@comcast.net</a>		415-724-1300		123 Eddy Street				
The Beacon Homeowners Association				<a href="mailto:lobby@beaconroa.org">lobby@beaconroa.org</a>	<a href="http://thebeaconsf.org/Library9443/">http://thebeaconsf.org/Library9443/</a>	(415) 957-5070		250 King Street		San Francisco	CA	
The Union Street Association	Lesley	Leonhardt	Director	<a href="mailto:LL@imagesnorth.com">LL@imagesnorth.com</a>				2036 Union Street	Suite 214	San Francisco	CA	94123
Twin Peaks Improvement Association	Dona	Crowder	President	<a href="mailto:info@tpiasf.org">info@tpiasf.org</a>	<a href="http://www.tpiasf.org/">http://www.tpiasf.org/</a>	415-929-1900						
Union Square Business Improvement District	Linda	Mjellem	Exec Director	<a href="mailto:mjellem@msn.com">mjellem@msn.com</a>	<a href="http://www.unionsquarebid.com">www.unionsquarebid.com</a>	415-781-7880		323 Geary St, #401		San Francisco	CA	94102
Union Street Association	Lesley	Leonhardt	Director	<a href="mailto:LL@imagesnorth.com">LL@imagesnorth.com</a>	<a href="http://www.unionsstreetsf.com/">http://www.unionsstreetsf.com/</a>	415-673-1273	415-441-7055	1868 Union St, Suite 214		San Francisco	CA	94123
Upper Fillmore Merchants Association	Teresa	Rodriguez		<a href="mailto:teresa@jetsetextra.com">teresa@jetsetextra.com</a>								
Valencia Street Merchants	Deana	Davenport	President	<a href="mailto:deenadragueena@me.com">deenadragueena@me.com</a>		415-861-4526						
West Portal Merchants Association	Elliot	Wagner	Vice-President	<a href="mailto:elliottwagner@hotmail.com">elliottwagner@hotmail.com</a>	<a href="http://www.sanfrancisco Merchants.com/associations/west_portal_merchants.htm">http://www.sanfrancisco Merchants.com/associations/west_portal_merchants.htm</a>	415-731-8080						
West Presidio Neighborhood Association	Mary	Russo		<a href="mailto:russomcafee@aol.com">russomcafee@aol.com</a>								
Yerba Buena Alliance	Peter	Lee	Interim Director	<a href="mailto:info@yerbabuena.org">info@yerbabuena.org</a>	<a href="http://www.yerbabuena.org">www.yerbabuena.org</a>	415-541-0312		735 Market Street		San Francisco	CA	94103
<b>Marin County Neighborhood Associations</b>												
Bennett Valley Homeowners Association	Craig	Harrison	President	<a href="mailto:charrison@hunton.com">charrison@hunton.com</a>		(707) 573-9990		POB 2666		Santa Rosa	CA	95405
Bret Harte Community Association	Nigel	Faulkner	Co-President	<a href="mailto:info@bretharte.org">info@bretharte.org</a>	<a href="http://www.bretharte.org">www.bretharte.org</a>					San Rafael	CA	
Channing Arms Homeowners Association				No Answer, No Voicemail Available		(415) 472-3433		270 Channing Way		San Rafael	CA	
Contempo Marin Homeowners Association	Keith	Meloney	President	<a href="mailto:president@contempomarin.org">president@contempomarin.org</a>		415-300-0270		25 Yosemite Rd		San Rafael	CA	94903
Cote D'Azur Homeowners Association				No Answer, No Voicemail Available		(415) 331-5268		100 South Street		Sausalito	CA	94965-2528
DeLong Owners Association				No Answer, No Voicemail Available		(415) 897-3057		701 DeLong Ave		Novato	CA	
Dominican/ Black Canyon Neighborhood Association				<a href="mailto:feedback@dominican-area-news.org">feedback@dominican-area-news.org</a>	<a href="http://www.dominicanareanews.org">www.dominicanareanews.org</a>							
Federation of San Rafael Neighbors				<a href="mailto:stephenpatterson.1@comcast.net">stephenpatterson.1@comcast.net</a>	<a href="http://www.fsrn.info">www.fsrn.info</a>	415.453.6541		PO Box 151485		San Rafael	CA	94915
Floating Homes Association				<a href="mailto:info@floatinghomes.org">info@floatinghomes.org</a>		415.332.1916		P O Box 3054		Sausalito	CA	94966
Gerstle Park Neighborhood Association (GPNA)				<a href="mailto:info@GerstlePark.com">info@GerstlePark.com</a>	<a href="http://www.gerstlepark.com">www.gerstlepark.com</a>			P.O. Box 150644		San Rafael	CA	94915
Greenbrae Property Owners Association (GPOA)	Jack	Valinoti	President	<a href="mailto:info@greenbrae.org">info@greenbrae.org</a>	<a href="http://www.greenbrae.org">www.greenbrae.org</a>	(415) 461-7228		POB 383		Kentfield	CA	94904
Homestead Valley Community Association				<a href="mailto:info@homesteadvalley.org">info@homesteadvalley.org</a>	<a href="http://www.homesteadvalley.org">www.homesteadvalley.org</a>	415.388.0137	415.388.0150	315 Montford Avenue		Mill Valley	CA	94941
Ignacio Creek Homeowners Association				<a href="mailto:contact@ignaciocreek.com">contact@ignaciocreek.com</a>		(415) 883-7641		300 Indian Way		Novato	CA	
Indian Valley Associates	Rodney	Bosche	President	<a href="mailto:rbosche@comcast.net">rbosche@comcast.net</a>	<a href="http://indianvalleyhome.org">indianvalleyhome.org</a>			PO Box 251		Novato	CA	94948
ISOJI				<a href="mailto:info@isoji.net">info@isoji.net</a>	<a href="http://www.isoji.net">www.isoji.net</a>	415.883.1757				Marin City	CA	94965
Kent Woodlands Property Owners	Josh	Rafner	President	<a href="mailto:jrafner@kwpoa.com">jrafner@kwpoa.com</a> ; <a href="mailto:info@kwpoa.com">info@kwpoa.com</a>		(415) 721-7429		800 College Ave	POB 414	Kentfield	CA	94914
Lincoln-San Rafael Hill Neighborhood Association	Kay	Karchevski	President	<a href="mailto:LincolnHillAsscn@gmail.com">LincolnHillAsscn@gmail.com</a>	<a href="http://www.lsrhna.com">www.lsrhna.com</a>	453-1047		P.O. Box 150983		San Rafael	CA	94915
Lucas Valley Homeowners Association				<a href="mailto:lvha@lvha.net">lvha@lvha.net</a>		(415) 472-3202	415-472-7512	1201 Idylberry Road		San Rafael	CA	
Miller Creek Homeowners Association				<a href="mailto:info@sharpproperty.net">info@sharpproperty.net</a>	<a href="http://www.millercreek.org">www.millercreek.org</a>							
Miller Court Villas Homeowners Association				No Answer, No Voicemail Available				250 Miller Ave		Mill Valley	CA	94941-2829
Mont Marin/San Rafael Park Neighborhood Assoc.				<a href="mailto:raylorber@yahoo.com">raylorber@yahoo.com</a>	<a href="http://www.montmarin.org">www.montmarin.org</a>	479-9229		5 Upper Oak Drive		San Rafael	CA	94903
Muir Woods Park Community Association				<a href="mailto:webmaster@mounttam.org">webmaster@mounttam.org</a>	<a href="http://www.mounttam.org">www.mounttam.org</a>	415.381.3119		40 Ridge Avenue		Mill Valley	CA	94931
Oceana Marin Homeowners Association				<a href="mailto:OMHOA@yahoo.com">OMHOA@yahoo.com</a>		(707) 878-2262		460 Oceana Drive	POB 85	Dillon Beach	CA	
Pt. San Pedro Road Coalition				<a href="mailto:webadmin@sprcoalition.org">webadmin@sprcoalition.org</a>	<a href="http://sprcoalition.org">sprcoalition.org</a>			Box 449 369 "B" Third Street		San Rafael	CA	94901
Santa Margarita Neighborhood Association	Carolyn	Lenert	President	<a href="mailto:web@smna-online.com">web@smna-online.com</a>	<a href="http://www.smna-online.com">www.smna-online.com</a>			P.O. Box 6449		San Rafael	CA	94903
Santa Venetia Neighborhood Association	Robert	Dobrin	President	<a href="mailto:info@thesvna.org">info@thesvna.org</a>	<a href="http://thesvna.org">thesvna.org</a>			P.O. Box 4047		San Rafael	CA	94913
Seadrift Homeowners Association	Heidi	Smith	Office Manager	<a href="mailto:seadrift_office@att.net">seadrift_office@att.net</a>		(415) 868-9043		184 Calle Del Arroyo		Stinson Beach	CA	94970
Shelter Ridge Homeowners Association c/o EBMC	Trudy	Morrison	District Manager	<a href="mailto:trudymorrison@bmc.com">trudymorrison@bmc.com</a>		(415) 382-1514	707-584-5123	384 Bel Marin Keys Blvd	#210	Novato	CA	
Sleepy Hollow Homeowners Association				<a href="mailto:jgrubb@bayareacouncil.org">jgrubb@bayareacouncil.org</a>	<a href="http://www.shha.org">www.shha.org</a>	(415) 258-0911		1317 Butterfield Road		San Anselmo	CA	94960
Smith Ranch Homeowners Association	David B.	Williams	General Manager	<a href="mailto:dwilliams@smithranchhomes.org">dwilliams@smithranchhomes.org</a>	<a href="http://www.smithranchhomes.org/home.a">http://www.smithranchhomes.org/home.a</a>	(415) 492-7000		500 Deer Valley Road		San Rafael	CA	
Sobre Vista HOA of Sonoma County	Martin	Cohn		<a href="mailto:nachas20@earthlink.net">nachas20@earthlink.net</a>		(415) 681-5631		1524 Willard Street		San Francisco	CA	94117
Sun Valley Neighborhood Association	George	Mills		<a href="mailto:gmmills@pacbell.net">gmmills@pacbell.net</a>				P.O. Box 151132		San Rafael	CA	94915
Tamalpais Valley Improvement Club	Curry	Eckelhoff	President	<a href="mailto:president@tamvalley.org">president@tamvalley.org</a>	<a href="http://www.tamvalley.org">www.tamvalley.org</a>	415.383.3691		Box 1446		Mill Valley	CA	94942
Terra Linda Homeowners Association				<a href="mailto:thero1@terralindahoa.com">thero1@terralindahoa.com</a>	<a href="http://www.terralindahoa.com">www.terralindahoa.com</a>							
Tiburon Hills Homeowners Association	Larry	Rothstein	President	<a href="mailto:lrothsteinthe@aol.com">lrothsteinthe@aol.com</a>		(415) 381-4653		21 Andrew Drive		Belvedere Tiburon	CA	94920-2182
Timmers Landing Homeowners Association	Harry	Blake	Administrator	No Answer, No Voicemail Available		(415) 459-6205		68 Trinidad Drive		Belvedere Tiburon	CA	94920-1036
Vista Del Lago	Cathy	Stevenson		<a href="mailto:cathystevnsn@aol.com">cathystevnsn@aol.com</a>	<a href="http://www.vistadellagosantarosa.com/">http://www.vistadellagosantarosa.com/</a>	707-527-8397		3150 Lakeview Drive		Santa Rosa	CA	95405
Whiskey Springs Homeowners Association	Julia	Laue	President	No Answer, No Voicemail Available		(415) 332-3412		136 Cypress Place		Sausalito	CA	94965-1540
Wild Horse Valley Homeowners Association				No Answer, No Voicemail Available	<a href="http://wildhorsevalley.org/default.php">http://wildhorsevalley.org/default.php</a>	(415) 884-2663		405 Enfrente Drive		Novato	CA	

Golden Gate Bridge Transportatin Management Plan Contact List  
Car-Truck Dealers

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
<b>Marin</b>												
Toyota Scion Marin	Mike	Christian	General Manager	<a href="mailto:sales@infinitimarin.com">sales@infinitimarin.com</a>	<a href="http://www.toyotamarin.com">www.toyotamarin.com</a>	1-877-337-2124		445 Francisco Blvd East		San Rafael	CA	94901
Infiniti Marin	Mike	Christian	General Manager	<a href="mailto:sales@infinitimarin.com">sales@infinitimarin.com</a>	<a href="http://www.infinitimarin.com">www.infinitimarin.com</a>	1-888-365-9147		475 San Francisco Blvd		San Rafael	CA	94901
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San Francisco Hyundai					<a href="http://www.hyundai-hyundai.com/">http://www.hyundai-hyundai.com/</a>	415-525-8180		475 S. Van Ness Avenue		San Francisco	CA	94103
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Golden Gate Bridge Transportatin Management Plan Contact List  
Chambers of Commerce

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Daly City-Colma Chamber of Commerce	Georgette	Sarles	President/CEO	<a href="mailto:gsarles@dalycity-colmachamber.org">gsarles@dalycity-colmachamber.org</a>	<a href="http://www.dalycity-colmachamber.org/">www.dalycity-colmachamber.org/</a>	650-755-3900		355 Gellert Boulevard	Suite 138	Daly City	CA	94015-2619
Duarte Chamber of Commerce	Jim	Kirchner	President/CEO	<a href="mailto:Jim@DuarteChamber.com">Jim@DuarteChamber.com</a>	<a href="http://www.duartechamber.com">www.duartechamber.com</a>	626-357-3333		PO Box 1438		Duarte	CA	91009-4438
El Centro Chamber of Commerce	Darletta	Willis	CEO	<a href="mailto:darletta@elcentrochamber.com">darletta@elcentrochamber.com</a>	<a href="http://www.elcentrochamber.com">www.elcentrochamber.com</a>	760-352-3681		PO Box 3006		El Centro	CA	92244-3006
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El Dorado Hills Chamber of Commerce	Debbie	Manning	President/CEO	<a href="mailto:debbie@eldoradohillschamber.org">debbie@eldoradohillschamber.org</a>	<a href="http://www.eldoradohillschamber.org">www.eldoradohillschamber.org</a>	916-933-1335		2085 Vine Street	Suite 105	El Dorado Hills	CA	95762-7123
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Chambers of Commerce

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Greater Bakersfield Chamber of Commerce	Cynthia	Pollard	President/CEO	<a href="mailto:cpollard@bakersfieldchamber.org">cpollard@bakersfieldchamber.org</a>	<a href="http://www.bakersfieldchamber.org/">www.bakersfieldchamber.org/</a>	661-327-4421		PO Box 1947		Bakersfield	CA	93303-1947
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Hispanic Chamber of Commerce of San Francisco	Richard	Ventura		<a href="mailto:sfhcc@aol.com">sfhcc@aol.com</a>	<a href="http://www.sfhcc.com/">http://www.sfhcc.com/</a>							
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Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
Porterville Chamber of Commerce	Donnette	Silva	President/CEO	<a href="mailto:donnette@portervillechamber.org">donnette@portervillechamber.org</a>	<a href="http://www.portervillechamber.org">www.portervillechamber.org</a>	559-784-7502		93 N Main Street	Suite A	Porterville	CA	93257-3717
Poway Chamber of Commerce	A. Dolores	Canizales	President & CEO	<a href="mailto:chamber@poway.com">chamber@poway.com</a>	<a href="http://www.poway.com">www.poway.com</a>	858-748-0016		13381 Poway Road		Poway	CA	92064-4625
Rancho Cordova Chamber of Commerce	Diann	Rogers	Interim President/CEO	<a href="mailto:dhrogers@ranhocordova.org">dhrogers@ranhocordova.org</a>	<a href="http://www.ranhocordova.org">www.ranhocordova.org</a>	916-273-5706		2729 Prospect Park Drive	Suite 117	Rancho Cordova	CA	95670-6291
Rancho Mirage Chamber of Commerce	Stuart	Ackley	President & CEO	<a href="mailto:stuart@ranchomirage.org">stuart@ranchomirage.org</a>	<a href="http://www.rancomirage.org">www.rancomirage.org</a>	760-568-9351		42520 Bob Hope Drive	#B	Rancho Mirage	CA	92270-4471
Red Bluff-Tehama County Chamber of Commerce	Dave	Gowan	CEO	<a href="mailto:dave@redbluffchamber.com">dave@redbluffchamber.com</a>	<a href="http://www.redbluffchamber.com">www.redbluffchamber.com</a>	530-527-6220		PO Box 850		Red Bluff	CA	96080-0850
Redding Chamber of Commerce	Frank	Strazzarino	President	<a href="mailto:frank@reddingchamber.com">frank@reddingchamber.com</a>	<a href="http://www.reddingchamber.com">www.reddingchamber.com</a>	530-225-4433		747 Auditorium Drive		Redding	CA	96001-0920
Redwood City/San Mateo County Chamber of Commerce	Laurence	Buckmaster	President & CEO	<a href="mailto:larry@redwoodcitychamber.com">larry@redwoodcitychamber.com</a>	<a href="http://www.redwoodcitychamber.com">www.redwoodcitychamber.com</a>	650-364-1722		1450 Veterans Blvd	Suite 125	Redwood City	CA	94063-2618
Richmond Chamber of Commerce	Judith	Morgan	President & CEO	<a href="mailto:judy@rcoc.com">judy@rcoc.com</a>	<a href="http://www.rcoc.com">www.rcoc.com</a>	510 234-3512		3925 Macdonald Avenue		Richmond	CA	94805
Sacramento Metro Chamber of Commerce	Roger	Niello	President/CEO	<a href="mailto:rniello@metrochamber.org">rniello@metrochamber.org</a>	<a href="http://www.metrochamber.org">www.metrochamber.org</a>	916-552-6800		1 Capitol Mall	Suite 300	Sacramento	CA	95814-3296
Salinas Valley Chamber of Commerce	Paul	Farmer	President/CEO	<a href="mailto:president@salinaschamber.com">president@salinaschamber.com</a>	<a href="http://www.salinaschamber.com">www.salinaschamber.com</a>	831-585-1282		PO Box 1170		Salinas	CA	93902-1170
San Anselmo Chamber of Commerce	Connie	Rodgers	President/CEO	<a href="mailto:info@sananselmochamber.org">info@sananselmochamber.org</a>	<a href="http://www.sananselmochamber.org">www.sananselmochamber.org</a>	415-454-2510		P.O. Box 2844		San Anselmo	CA	94979-2844
San Benito County Chamber of Commerce	Debbie	Taylor	President & CEO	<a href="mailto:debbie@sanbenitocountychamber.com">debbie@sanbenitocountychamber.com</a>	<a href="http://www.sanbenitocountychamber.com">www.sanbenitocountychamber.com</a>	831-637-5315		243 6th Street		Hollister	CA	95023-3970
San Bruno Chamber of Commerce	Jamie	Monozon	CEO	<a href="mailto:office@sanbrunchamber.com">office@sanbrunchamber.com</a>	<a href="http://www.sanbrunchamber.com">www.sanbrunchamber.com</a>	650-588-0180		618 San Mateo Avenue		San Bruno	CA	94066
San Carlos Chamber of Commerce	Dave	Bouchard	CEO	<a href="mailto:dbouchard@sancarloschamber.org">dbouchard@sancarloschamber.org</a>	<a href="http://www.sancarloschamber.org">www.sancarloschamber.org</a>	650-593-1068		1500 Laurel Street	Suite B	San Carlos	CA	94070-5103
San Diego East County Chamber of Commerce	Scott	Alevy	President & CEO	<a href="mailto:CEO@eastcountychamber.org">CEO@eastcountychamber.org</a>	<a href="http://www.eastcountychamber.org">www.eastcountychamber.org</a>	619-440-6161		201 S. Magnolia Avenue		El Cajon	CA	92020-4525
San Diego North Chamber of Commerce	Debra	Rosen	President & CEO	<a href="mailto:drosen@sdncc.com">drosen@sdncc.com</a>	<a href="http://www.sdncc.com">www.sdncc.com</a>	858-487-1767		10875 Rancho Bernardo Rd	Suite 104	San Diego	CA	92127-2115
San Fernando Valley (Gtr.) Chamber of Commerce	Nancy	Hoffman Vanyek	Chief Executive Officer	<a href="mailto:nancy@sanfernandovalleychamber.com">nancy@sanfernandovalleychamber.com</a>	<a href="http://www.sanfernandovalleychamber.com">www.sanfernandovalleychamber.com</a>	818-989-0300		7120 Hayvenhurst Avenue	Suite 114	Van Nuys	CA	91406-3813
San Francisco Black Chamber of Commerce				<a href="mailto:admin@sfaacc.com">admin@sfaacc.com</a>	<a href="http://www.sfaacc.org/">http://www.sfaacc.org/</a>	415-749-6400		1006 Webster Street		San Francisco	CA	94115
San Francisco Chamber of Commerce	Steve	Falk	President & CEO	<a href="mailto:sfalk@sfcchamber.com">sfalk@sfcchamber.com</a>	<a href="http://www.sfcchamber.com">www.sfcchamber.com</a>	415-392-4520	415-352-8816	235 Montgomery Street	12th Floor	San Francisco	CA	94104
San Jose Silicon Valley Chamber of Commerce	Matthew	Mahood	President & CEO	<a href="mailto:hals@sjchamber.com">hals@sjchamber.com</a>	<a href="http://www.sjchamber.com">www.sjchamber.com</a>	408-291-5250		101 West Santa Clara St		San Jose	CA	95113
San Leandro Chamber of Commerce	Dave	Johnson	CEO	<a href="mailto:CEO@sanleandrochamber.com">CEO@sanleandrochamber.com</a>	<a href="http://www.sanleandrochamber.com">www.sanleandrochamber.com</a>	510-351-1481		15555 E 14th Street	Suite 100	San Leandro	CA	94578-1972
San Luis Obispo Chamber of Commerce	Ermina	Karim	President/CEO	<a href="mailto:erminal@sllochamber.org">erminal@sllochamber.org</a>	<a href="http://www.slochamber.org">www.slochamber.org</a>	805-781-2777		1039 Chorro Street		San Luis Obispo	CA	93401-3222
San Mateo Area Chamber of Commerce	Linda	Asbury	President & CEO	<a href="mailto:linda@sanmateochamber.org">linda@sanmateochamber.org</a>	<a href="http://www.sanmateochamber.org">www.sanmateochamber.org</a>	650-401-2440		1700 S El Camino Real	Suite 108	San Mateo	CA	94402-3046
San Rafael Chamber of Commerce	Rick	Wells	President/CEO	<a href="mailto:rwells@srchamber.com">rwells@srchamber.com</a>	<a href="http://www.srchamber.com">www.srchamber.com</a>	415-454-4163		817 Mission Avenue		San Rafael	CA	94901-3208
San Ramon Chamber of Commerce Bishop Ranch 6	Stewart	Bambino	President/CEO	<a href="mailto:stewart.bambino@sanramon.org">stewart.bambino@sanramon.org</a>	<a href="http://www.sanramon.org">www.sanramon.org</a>	925-242-0600		2410 Camino Ramon	Suite 125	San Ramon	CA	94583-4331
Santa Clara Chamber of Commerce & Convention-Visitor's Bureau	Steve	Van Dorn	President	<a href="mailto:steve.vandorn@santaclarachamber.org">steve.vandorn@santaclarachamber.org</a>	<a href="http://www.santaclarachamber.org">www.santaclarachamber.org</a>	408-244-8244		1850 Warburton Avenue		Santa Clara	CA	95050-4111
Santa Fe Springs Chamber of Commerce	Kathie	Fink	Chief Executive Officer	<a href="mailto:fink@sfschamber.com">fink@sfschamber.com</a>	<a href="http://www.sfschamber.com">www.sfschamber.com</a>	562-944-1616		12016 Telegraph Road	Suite 100	Santa Fe Springs	CA	90670-6090
Santa Paula Chamber of Commerce	Ken	Brookes	Manager	<a href="mailto:info@santapaulachamber.com">info@santapaulachamber.com</a>	<a href="http://www.santapaulachamber.com">www.santapaulachamber.com</a>	805-525-5561		PO Box 1		Santa Paula	CA	93061-0001
Santee Chamber of Commerce	John	Olsen	Executive Director	<a href="mailto:john@santechamber.com">john@santechamber.com</a>	<a href="http://www.santee-chamber.org">www.santee-chamber.org</a>	619-449-6572		10315 Mission Gorge Road		Santee	CA	92071-3031
Saratoga Chamber of Commerce	Sharmaine	Nunes	Office Manager	<a href="mailto:shar@saratogachamber.org">shar@saratogachamber.org</a>	<a href="http://www.saratogachamber.org">www.saratogachamber.org</a>	408-867-0753		14460 Big Basin Way		Saratoga	CA	95070
Sausalito Chamber of Commerce	Oonagh	Kavanagh	CEO	<a href="mailto:chamber@sausalito.org">chamber@sausalito.org</a>	<a href="http://www.sausalito.org">www.sausalito.org</a>	15-331-7262x10	415-332-0323	1913 Bridgeway		Sausalito	CA	94965
Sebastopol Area Chamber of Commerce & Visitors Center	Teresa	Ramondo	Exec. Director/CEO	<a href="mailto:chamber@sebastopol.org">chamber@sebastopol.org</a>	<a href="http://www.sebastopol.org">www.sebastopol.org</a>	707-823-3032		PO Box 178		Sebastopol	CA	95473-0178
Simi Valley Chamber of Commerce	Leigh	Nixon	President/CEO	<a href="mailto:lnixon@simichamber.org">lnixon@simichamber.org</a>	<a href="http://www.simivalleychamber.org">www.simivalleychamber.org</a>	805-526-3900		40 W Cochran Street	Suite 100	Simi Valley	CA	93065-6245
Sonoma Valley Chamber of Commerce	Jennifer	Yankovich	CEO	<a href="mailto:info@sonomachamber.com">info@sonomachamber.com</a>	<a href="http://www.sonomachamber.org">www.sonomachamber.org</a>	707-996-1033		651-A Broadway		Sonoma	CA	95476
South San Francisco Chamber of Commerce	Maria	Martinucci	CEO	<a href="mailto:maria@sfschamber.com">maria@sfschamber.com</a>	<a href="http://www.sfschamber.com">www.sfschamber.com</a>	650-588-4798		213 Linden Avenue		So San Francisco	CA	94080-3711
Stinson Beach Chamber of Commerce				<a href="mailto:info@stinson-beach.org">info@stinson-beach.org</a>	<a href="http://www.stinson-beach.org">www.stinson-beach.org</a>	415-868-1034		1 Belvedere	PO Box 404	Stinson Beach	CA	94970
Sunnyvale Chamber of Commerce	Don	Eagleston	President/CEO	<a href="mailto:deagleston@svccoc.org">deagleston@svccoc.org</a>	<a href="http://www.svccoc.org">www.svccoc.org</a>	408-736-4971		260 S. Sunnyvale Ave	Suite 4	Sunnyvale	CA	94086-7665
Temecula Valley Chamber of Commerce	Alice	Sullivan	President/CEO	<a href="mailto:asullivan@temecula.org">asullivan@temecula.org</a>	<a href="http://www.temecula.org">www.temecula.org</a>	866-676-5090		PO Box 1676		Temecula	CA	92593-1676
Tiburon Peninsula Chamber of Commerce	Christine	Koehler	Executive Manager	<a href="mailto:tibcc@sbcglobal.net">tibcc@sbcglobal.net</a>	<a href="http://www.tiburonchamber.org/">www.tiburonchamber.org/</a>	415-435-5633	415-435-1132	96B Main Street		Tiburon	CA	94920
Torrance Area Chamber of Commerce	Donna	Duperron	President & CEO	<a href="mailto:donna@torrancechamber.org">donna@torrancechamber.org</a>	<a href="http://www.torrancechamber.org">www.torrancechamber.org</a>	310-540-5858		3400 Torrance Blvd	Suite 100	Torrance	CA	90503-5803
Tulare Chamber of Commerce	Nina	Akin	President & CEO	<a href="mailto:nakin@tularechamber.org">nakin@tularechamber.org</a>	<a href="http://www.tularechamber.org">www.tularechamber.org</a>	559-686-1547		PO Box 1435		Tulare	CA	93275-1435
Tuolumne County Chamber of Commerce	George	Segarini	President/CEO	<a href="mailto:george@tcchamber.com">george@tcchamber.com</a>	<a href="http://www.tcchamber.com">www.tcchamber.com</a>	209-532-4212		222 S Shepherd Street		Sonora	CA	95370-4734
Turlock Chamber of Commerce	Sharon	Silva	President/CEO	<a href="mailto:sharonilva@turlockchamber.com">sharonilva@turlockchamber.com</a>	<a href="http://www.turlockchamber.com">www.turlockchamber.com</a>	209-632-2221		115 S Golden State Blvd		Turlock	CA	95380-4530
Universal City/North Hollywood Chamber of Commerce	Michelle	Gilstrap	Executive Director	<a href="mailto:info@noho.org">info@noho.org</a>	<a href="http://www.noho.org">www.noho.org</a>	818-508-5155		6369 Bellingham Avenu		North Hollywood	CA	91606-3202
Vallejo Chamber of Commerce	Rich	Curtola	President & CEO	<a href="mailto:rich@vallejochamber.com">rich@vallejochamber.com</a>	<a href="http://www.vallejochamber.com">www.vallejochamber.com</a>	707-644-5551		427 York Street		Vallejo	CA	94590
Visalia Chamber of Commerce	Glenn	Morris	President/CEO	<a href="mailto:Glenn@visaliachamber.org">Glenn@visaliachamber.org</a>	<a href="http://www.visaliachamber.org">www.visaliachamber.org</a>	559-734-5876		220 N Santa Fe Street		Visalia	CA	93292-6437
Vista Chamber of Commerce	Bret	Schanzenbach	Chief Executive Officer	<a href="mailto:bret@vistachamber.org">bret@vistachamber.org</a>	<a href="http://www.vistachamber.org">www.vistachamber.org</a>	760-726-1122		127 Main Street		Vista	CA	92084-6007
Walnut Creek Chamber of Commerce	Jay	Hoyer	President/CEO	<a href="mailto:jhoyer@walnut-creek.com">jhoyer@walnut-creek.com</a>	<a href="http://www.walnut-creek.com">www.walnut-creek.com</a>	925-934-2007		1777 Botelho Drive	Suite 103	Walnut Creek	CA	94596-5083
West Marin Chamber of Commerce				<a href="mailto:info@pointreyes.org">info@pointreyes.org</a>		(415) 663-9232		P.O. Box 1045		Point Reyes Station	CA	94956
West Orange County Regional Chamber of Commerce	Connie	Pedenko	President/CEO	<a href="mailto:connie@buenaparkchamber.org">connie@buenaparkchamber.org</a>	<a href="http://www.buenaparkchamber.org">www.buenaparkchamber.org</a>	714-484-1420		8081 Stanton Avenue	#306	Buena Park	CA	90620-3249
Whittier Area Chamber of Commerce	Carol	Crosby	Executive Director	<a href="mailto:carol@whittierchamber.com">carol@whittierchamber.com</a>	<a href="http://www.whittierchamber.com">www.whittierchamber.com</a>	562-698-9554		8158 Painter Avenue		Whittier	CA	90602-3106
Windsor Chamber of Commerce	Christine	Tevini	President/CEO	<a href="mailto:christine@windsorchamber.com">christine@windsorchamber.com</a>	<a href="http://www.windsorchamber.com">www.windsorchamber.com</a>	707-838-7285		PO Box 367		Windsor	CA	95492-0367
Woodland Chamber of Commerce	Kristy	Wright	Chief Executive Officer	<a href="mailto:kristyw@woodlandchamber.org">kristyw@woodlandchamber.org</a>	<a href="http://www.woodlandchamber.org">www.woodlandchamber.org</a>	530-662-7327		307 1st Street		Woodland	CA	95695-3412
Yorba Linda Chamber of Commerce	Phyllis	Coleman	Executive Director	<a href="mailto:phyllisycc@sbcglobal.net">phyllisycc@sbcglobal.net</a>	<a href="http://www.yorbalingchamber.org">www.yorbalingchamber.org</a>	714-993-9537		17670 Yorba Linda Blvd		Yorba Linda	CA	92886-3927
Yountville Chamber of Commerce	Cynthia	Saucerman	Executive Director	<a href="mailto:csaucerman@sbcglobal.net">csaucerman@sbcglobal.net</a>	<a href="http://www.yountville.com">www.yountville.com</a>	707-944-0904		PO Box 2064		Yountville	CA	94599-2064
Yuba-Sutter Chamber of Commerce	Kristy	Santucci	Chief Executive Officer	<a href="mailto:ksantucci@yubasutterchamber.com">ksantucci@yubasutterchamber.com</a>	<a href="http://www.yubasutterchamber.com">www.yubasutterchamber.com</a>	530-743-6501		1300 Franklin Road		Yuba City	CA	95993-4604

Golden Gate Bridge Transportatin Management Plan Contact List  
 Transit - Hotels - Colleges

Affiliation	First Name	Last Name	Title	Email	Phone	Alternative Phone	Address Line 1	City	State	Zip
<b>North Bay Public Transit</b>										
Marin Transit (MT)					(415) 226-0855	(415) 226-0856		San Rafael	CA	94901
Napa Valley Transportation & Planning Agency				<a href="mailto:contact@nctpa.net">contact@nctpa.net</a>	707 259 8631		707 Randolph St, Ste. 100	Napa	CA	94559
Transportation Alternatives of Marin	Patrick	Seidler		<a href="mailto:pseidler@wtb.com">pseidler@wtb.com</a>	415.389.5040 x24				CA	
Transportation Authority of Marin (TAM)	Diane	Steinhauser	Executive Director		(415) 226-0820		781 Lincoln Avenue, Suite 160	San Rafael	CA	
Santa Rosa City Bus	Anita	Winkler	Deputy Director	<a href="mailto:awinkler@srcity.org">awinkler@srcity.org</a>	707-543-3333	100 Santa Rosa Ave	Santa Rosa City Hall	Santa Rosa	CA	95404
Sausalito Ferry Information Kiosk	Dick	Seashore		<a href="mailto:dicksea@pacbell.net">dicksea@pacbell.net</a>	(415) 332-2698			Sausalito	CA	
SolanoExpress				<a href="mailto:commuterinfo@sta-snci.com">commuterinfo@sta-snci.com</a>	707.424.6075	(707) 424-6074	One Harbor Center, Ste. 130	Suisin City		94585
Sonoma County Transit	Bryan	Albee	Transit Manager	<a href="mailto:bkalbee@sctransit.com">bkalbee@sctransit.com</a>	707-585-7516		355 W. Robles Avenue	Santa Rosa		95407
Whistlestop Wheels	Terry	Scussel	General Manager	<a href="mailto:tscussel@thewhistlestop.org">tscussel@thewhistlestop.org</a>	(415) 456-9062 x151			San Rafael		
BART Public Affairs	Alicia	Trost	Public Affairs					Oakland		
Caltrans Public Affairs								Oakland		
AC Transit	Clarence Johnson		Public Affairs			510-891-4745		Oakland		
AC Transit	James	Pachan	Chief Oeprating Officer							
Santa Clara Valley Trans (VTA)	Brandi	Childress	Media Relations	<a href="mailto:Brandi.childress@vta.org">Brandi.childress@vta.org</a>		408- 952-4297				
SamTrans Public Affairs	Jayne	Ackerman	Media Relations		650-508-7934					

<b>Hotels</b>										
Holiday Inn San Francisco Golden Gateway	Charles	Cloutier	Director of Sales and Marketing	<a href="mailto:ccloutier@sffigg.com">ccloutier@sffigg.com</a>	415-441-4000 ext. 7301	(415) 441-8346	1500 Van Ness Avenue	San Francisco	CA	94109
San Francisco Fisherman's Wharf Hostel	Jon	Dockery	Facilites Manager	<a href="mailto:fwinfo@sffhostels.com">fwinfo@sffhostels.com</a>	(415) 771-7277		Fort Mason, Building 240	San Francisco	CA	94123

<b>Colleges</b>						
College	Address	City	County	Point of Contact	Contact Phone	E-mail
Ali Akbar College of Music	215 West End Ave	San Rafael	Marin	N/A	415-454-6372	<a href="mailto:office@aacm.org">office@aacm.org</a>
Christian Life International Bible College	1370 S Novato Blvd	Novato	Marin	Caleb Klinge	415-892-0714	<a href="mailto:cklinge@nlcci.org">cklinge@nlcci.org</a>
College of Marin	835 College Ave	Kentfield	Marin	Cathy Summa-Wolfe	(415) 485-9528	<a href="mailto:cathy.summawolfe@marin.edu">cathy.summawolfe@marin.edu</a>
College of Marin, Indian Valley Campus	1800 Ignacio Blvd	Novato	Marin	Cathy Summa-Wolfe	(415) 485-9528	<a href="mailto:cathy.summawolfe@marin.edu">cathy.summawolfe@marin.edu</a>
Dominican University of California	50 Acacia Ave	San Rafael	Marin	John Baworowsky	415-257-1334	<a href="mailto:john.baworowsky@dominican.edu">john.baworowsky@dominican.edu</a>
Meridian University	47 6th St	Petaluma	Marin	N/A	(707) 765-1836	<a href="mailto:info@meridianuniversity.edu">info@meridianuniversity.edu</a>
Romberg Tiburon Center for Environmental Studies	3150 Paradise Dr	Belvedere Tibrn	Marin	Adria O'Dea	(303) 253-2740	<a href="mailto:adria@sfsu.edu">adria@sfsu.edu</a>
San Francisco Art Institute	800 Chestnut St	San Francisco	San Francisco	N/A	N/A	<a href="mailto:announce@artists.sfai.edu">announce@artists.sfai.edu</a>
San Francisco State Downtown Campus	835 Market Street	San Francisco	San Francisco		(415) 817-4400	<a href="mailto:dtccrent@sfsu.edu">dtccrent@sfsu.edu</a>
San Francisco State University	1600 Holloway Ave	San Francisco	San Francisco	N/A	(415) 338-1665	<a href="mailto:pubcom@sfsu.edu">pubcom@sfsu.edu</a>
Santa Rosa Junior College	1501 Mendocino Ave	Santa Rosa	Sonoma	N/A	(707) 527-4266	<a href="mailto:jparmer@santarosa.edu">jparmer@santarosa.edu</a>
Saybrook University	747 Front St #3	San Francisco	San Francisco	Cyndy Fitzgerald, PhD	425-968-3409	<a href="mailto:cfitzgerald@saybrook.edu">cfitzgerald@saybrook.edu</a>



Golden Gate Bridge Transportatin Management Plan Contact List  
Community Centers

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
<b>Marin</b>												
Belvedere-Tiburon Recreation				<a href="mailto:officeadmin@btcrecreation.org">officeadmin@btcrecreation.org</a>	<a href="http://www.btcrecreation.org">www.btcrecreation.org</a>	415-435-4355	415-435-8157 (f)	1505 Tiburon Boulevard	Suite A	Tiburon	CA	94123
Corte Madera Parks & Recreation				<a href="mailto:recreation_dept@ci.corte-madera.ca.us">recreation_dept@ci.corte-madera.ca.us</a>		415-927-5072		498 Tamalpais Drive		Corte Madera	CA	94925
The Dance Palace Community Center				<a href="mailto:dance@horizoncable.com">dance@horizoncable.com</a>	<a href="http://www.dancepalace.org">www.dancepalace.org</a>	415-663-1075		PO Box 217		Point Reyes Station	CA	94956
Marin Grassroots	Ericka	Erikson		<a href="mailto:info@maringrassroots.org">info@maringrassroots.org</a>	<a href="http://www.maringrassroots.org">www.maringrassroots.org</a>	415.491.4366		30 N. San Pedro Road	Suite 290	San Rafael	CA	94903
Homestead Valley Community Association				<a href="mailto:info@homesteadvalley.org">info@homesteadvalley.org</a>	<a href="http://www.homesteadvalley.org">www.homesteadvalley.org</a>	415-388-0137	415-388-0150 (f)	315 Montford Avenue		Mill Valley	CA	94941
Larkspur Recreation Department				<a href="mailto:lk_recreation@ci.larkspur.ca.us">lk_recreation@ci.larkspur.ca.us</a>		415-927-6746		240 Doherty Drive		Larkspur	CA	94939
Marinwood Community Services District				<a href="mailto:csd@marinwood.org">csd@marinwood.org</a>	<a href="http://www.marinwood.org">www.marinwood.org</a>	415-479-0775	415-479-7759 (f)	775 Miller Creek Road		San Rafael	CA	94903-1323
Mill Valley Parks & Recreation				<a href="mailto:parks@cityofmillvalley.org">parks@cityofmillvalley.org</a>	<a href="http://www.cityofmillvalley.org">www.cityofmillvalley.org</a>	415-383-1370		180 Camino Alto		Mill Valley	CA	94941
NatureBridge	Jeanelle	Steiner	Outreach and Reservations Coordinator	<a href="mailto:jsteiner@naturebridge.org">jsteiner@naturebridge.org</a>	<a href="http://www.naturebridge.org/conference-facilities-golden-gate">http://www.naturebridge.org/conference-facilities-golden-gate</a>	415-332-5771 x28	415-332-5784	1033 Fort Cronkhite		Sausalito	CA	94965
Senator Noreen Evans Office	Carole	Simon Mills	District Representative	<a href="mailto:carole.mills@sen.ca.gov">carole.mills@sen.ca.gov</a>		415-479-6612		3501 civic Center Drive	Suite 425	San Rafael	CA	94903
Headlands Center for the Arts	Brian	Karl	Program Director	<a href="mailto:bkarl@headlands.org">bkarl@headlands.org</a>	<a href="http://www.headlands.org/headlands-information/contact/">http://www.headlands.org/headlands-information/contact/</a>	415-331-2787		944 Fort Barry		Sausalito	CA	94965
City of Novato Parks, Recreation, & Community Services				<a href="mailto:prcs@ci.novato.ca.us">prcs@ci.novato.ca.us</a>	<a href="http://www.cityofnovato.org/prcs">www.cityofnovato.org/prcs</a>	415-899-8200	415-899-8219 (f)	75 Rowland Way	#200	Novato	CA	94945
Picklewood Park Community Center & Library				<a href="mailto:Debbie.Younkin@cityofsanrafael.org">Debbie.Younkin@cityofsanrafael.org</a>	<a href="http://www.cityofsanrafael.org">www.cityofsanrafael.org</a>	415-485-3077	415-485-3185 (f)	50 Canal Street		San Rafael	CA	94901
San Rafael Recreation				<a href="mailto:Community.services@cityofsanrafael.org">Community.services@cityofsanrafael.org</a>	<a href="http://www.cityofsanrafael.org">www.cityofsanrafael.org</a>	415-485-3077	415-485-3185 (f)	618 B Street		San Rafael	CA	94901
Ross Recreation Department				<a href="mailto:rossrec@rossrecreation.org">rossrec@rossrecreation.org</a>	<a href="http://www.rossrecreation.org">www.rossrecreation.org</a>	415-453-6020	415-453-2014 (f)	PO Box 117		Ross	CA	94957
San Anselmo Recreation Department				<a href="mailto:ddonery@townofsananselmo.org">ddonery@townofsananselmo.org</a>	<a href="http://www.townofsananselmo.org">www.townofsananselmo.org</a>	415-258-4640		1000 Sir Francis Drake Blvd	Office 14	San Anselmo	CA	94960
San Geronimo Valley Community Center	Dave	Cort	Executive Director	<a href="mailto:director@sgvcc.org">director@sgvcc.org</a>	<a href="http://sgvcc.org/about/staff.html">http://sgvcc.org/about/staff.html</a>	415-488-8888		6350 Sir Francis Drake Blvd		San Geronimo	CA	94963
Sausalito Parks & Recreation	Jeff	Dybdal	Recreation Supervisor	<a href="mailto:jdybdal@ci.sausalito.ca.us">jdybdal@ci.sausalito.ca.us</a>	<a href="http://www.ci.sausalito.ca.us">www.ci.sausalito.ca.us</a>	415-289-4152		420 Litho		Sausalito	CA	94965
Stinson Beach Community Center				<a href="mailto:info@stinsonbeachcommunitycenter.org">info@stinsonbeachcommunitycenter.org</a>		415-868-1444		32 Belvedere Street		Stinson Beach	CA	94970
Strawberry Recreation District				<a href="mailto:admin@strawberryrec.org">admin@strawberryrec.org</a>	<a href="http://www.strawberryrec.org">www.strawberryrec.org</a>	415-383-6494	415-383-6635 (f)	118 E. Strawberry Drive		Mill Valley	CA	94941
Terra Linda Community Center	Dianne	Mitchell		<a href="mailto:Dianne.Mitchell@cityofsanrafael.org">Dianne.Mitchell@cityofsanrafael.org</a>	<a href="http://www.cityofsanrafael.org">www.cityofsanrafael.org</a>	415-485-3344	415-485-3345	670 Del Ganado Road		Terra Linda	CA	94903
The Osher Marin Jewish Community Center				<a href="mailto:info@marinjcc.org">info@marinjcc.org</a>	<a href="http://www.marinjcc.org">www.marinjcc.org</a>	415-444-8000		200 N San Pedro Road		San Rafael	CA	94903
<b>San Francisco</b>												
African American Art and Culture Complex	Michelle	Parker	Press/Media	<a href="mailto:info@aaacc.org">info@aaacc.org</a>	<a href="http://www.aaacc.org">www.aaacc.org</a>	415-922-2049		762 Fulton Street		San Francisco	CA	94102
Bernal Heights Rec Center	Linda	Barnard	Recreation Manager	<a href="mailto:linda.barnard@sfgov.org">linda.barnard@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Betty Ong Rec Center	Lorraine	Banford	Recreation Manager	<a href="mailto:lorraine.banford@sfgov.org">lorraine.banford@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Cameron House	Mary	Wong Leong	Office Manager	<a href="mailto:cameronhouse@cameronhouse.org">cameronhouse@cameronhouse.org</a>	<a href="http://www.cameronhouse.org/">http://www.cameronhouse.org/</a>	415-781-0408		920 Sacramento St		San Francisco	CA	94108
Chinese Culture Center of San Francisco	Gharryy	McNett	Executive Assistant and Facilities Manager	<a href="mailto:gharryy@c-c-c.org">gharryy@c-c-c.org</a>	<a href="http://www.c-c-c.org/">http://www.c-c-c.org/</a>	415-986-1822 x31		750 Kearny Street	Third Floor	San Francisco	CA	94108-1809
City Hall & Civic Center Campus	Robert	Reiter	Building Manager	<a href="mailto:rob.reiter@sfgov.org">rob.reiter@sfgov.org</a>	<a href="http://sfgov.org">sfgov.org</a>	415-554-4939	415-554-4936	1 Dr. Carlton B. Goodlett Pl	Room 8	San Francisco	CA	94102
Eureka Valley Rec Center	Adela	Dominguez	Recreation Coordinator	<a href="mailto:Adela.Dominguez@sfgov.org">Adela.Dominguez@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Gene Friend Rec Center	Tim	Figueras	Recreation Coordinator	<a href="mailto:Tim.Figueras@sfgov.org">Tim.Figueras@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Glen Park Rec Center	Oskar	Rosas	Recreation Coordinator	<a href="mailto:Oskar.Rosas@sfgov.org">Oskar.Rosas@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Golden Gate Park Senior Center	Victor	Lee	Recreation Coordinator	<a href="mailto:Victor.Lee@sfgov.org">Victor.Lee@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Hamilton Rec Center	Renee	Strong	Recreation Coordinator	<a href="mailto:Renee.Strong@sfgov.org">Renee.Strong@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Harvey Milk Arts Center	Robby	Roller	Recreation Coordinator	<a href="mailto:robby.roller@sfgov.org">robby.roller@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Janet Pomeroy Center	Alison	Beahan	Director of Human Resources	<a href="mailto:abeahan@prcsf.org">abeahan@prcsf.org</a>	<a href="http://www.prcsf.org/">http://www.prcsf.org/</a>	415-665-4100		207 Skyline Blvd.		San Francisco	CA	94132
Japanese Community Youth Council				<a href="mailto:info@jccyc.org">info@jccyc.org</a>	<a href="http://www.jccyc.org">www.jccyc.org</a>	415-202-7900	415-921-1841	2012 Pine Street		San Francisco	CA	94115
Jewish Community Center				<a href="mailto:info@jccsf.org">info@jccsf.org</a>	<a href="https://www.jccsf.org/">https://www.jccsf.org/</a>	415-292-1200		3200 California Street		San Francisco	CA	94118
Joseph Lee Rec Center	Thomas	Mayfield	Recreation Coordinator	<a href="mailto:Thomas.Mayfield@sfgov.org">Thomas.Mayfield@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							

Golden Gate Bridge Transportatin Management Plan Contact List  
Community Centers

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
Koret Health and Recreation Center	Chuck	White	Director, Recreational Sports Department	<a href="mailto:white@usfca.edu">white@usfca.edu</a>	<a href="http://www.usfca.edu/virtualtour/koret/">http://www.usfca.edu/virtualtour/koret/</a>	415-422-2945		2130 Fulton Street		San Francisco	CA	94117-1080
Minnie and Lovie Ward Rec Center	Jacqueline	Battle	Recreation Coordinator	<a href="mailto:Jacqueline.Battle@sfgov.org">Jacqueline.Battle@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Mission Bay Conference Center at UCSF				<a href="mailto:mbccsales@aramark.com">mbccsales@aramark.com</a>	<a href="http://www.acc-missionbay-conferencecenter.com/">http://www.acc-missionbay-conferencecenter.com/</a>	866-431-8273		1675 Owens Street		San Francisco	CA	94143-3008
Mission Cultural Center for Latino Arts				<a href="mailto:info@missionculturalcenter.org">info@missionculturalcenter.org</a>	<a href="http://www.missionculturalcenter.org">www.missionculturalcenter.org</a>	415-821-1155		2868 Mission Street		San Francisco	CA	94110
Mission Rec Center	Mike	Bross	Recreation Coordinator	<a href="mailto:Mike.Bross@sfgov.org">Mike.Bross@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Moscone Rec Center	Veronica	O'Boyle	Recreation Coordinator	<a href="mailto:Veronica.O_Boyle@sfgov.org">Veronica.O_Boyle@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Palega Rec Center	Dwayne	Watts	Recreation Coordinator	<a href="mailto:Dwayne.Watts@sfgov.org">Dwayne.Watts@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Potrero Hill Rec Center	Margaret	Perea	Recreation Coordinator	<a href="mailto:Margaret.Perea@sfgov.org">Margaret.Perea@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Randall Museum	Nancy	Ellis	Recreation Coordinator	<a href="mailto:Nancy.Ellis@sfgov.org">Nancy.Ellis@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Richmond Rec Center	Mike	Xavier	Recreation Coordinator	<a href="mailto:mike.xavier@sfgov.org">mike.xavier@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
San Francisco Recreation & Parks Department												
St. Mary's Rec Center	Reginald	Gage	Recreation Coordinator	<a href="mailto:Reggiet.Gage@sfgov.org">Reggiet.Gage@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Sunset Neighborhood Beacon Center	Jennifer	Ho	Administrative Asst	<a href="mailto:jho@sbnbc.org">jho@sbnbc.org</a>	<a href="http://www.sbnbc.org">www.sbnbc.org</a>	415-759-3690		3925 Noriega Street		San Francisco	CA	94122
Sunset Rec Center	Thomas	Iglesias	Recreation Coordinator	<a href="mailto:Thomas.Iglesias@sfgov.org">Thomas.Iglesias@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Tenderloin Rec Center	Joe	Scott	Recreation Coordinator	<a href="mailto:Joe.Scott@sfgov.org">Joe.Scott@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
Upper Noe Rec Center	Cheryl	GriffinWoltjen	Recreation Coordinator	<a href="mailto:cheryl.woltjen@sfgov.org">cheryl.woltjen@sfgov.org</a>	<a href="http://sfrecpark.org/recreation-community-services/rec-facilities/">http://sfrecpark.org/recreation-community-services/rec-facilities/</a>							
YMCA - Association Office	Andy	Vamis	Vice President of Human Resources and Organizational Effectiveness	<a href="mailto:Avamis@ymcasf.org">Avamis@ymcasf.org</a>	<a href="http://www.ymcasf.org/">http://www.ymcasf.org/</a>	415-777-8622		50 California Street	Suite 650	San Francisco	CA	94111
YMCA - Buchanan	Rodney	Chin	Branch Manager	<a href="mailto:rchin@ymcasf.org">rchin@ymcasf.org</a>	<a href="http://www.ymcasf.org/buchanan/">http://www.ymcasf.org/buchanan/</a>	415-292-3011		1530 Buchanan St.		San Francisco	CA	94115
YMCA - Richmond	Troy	Kasner	Director of Membership and Communications	<a href="mailto:tkasner@ymcasf.org">tkasner@ymcasf.org</a>	<a href="http://www.ymcasf.org/richmond/">http://www.ymcasf.org/richmond/</a>	415-666-9622		360 18th Avenue		San Francisco	CA	94121
<b>Sonoma</b>												
Filipino Community of Sonoma County	Noemi	Issel	President	<a href="mailto:communityfilipino@yahoo.com">communityfilipino@yahoo.com</a>	<a href="http://filipinocommunityofsonomacounty.com/contact_us">http://filipinocommunityofsonomacounty.com/contact_us</a>	707-546-2795		3361 Fulton Road		Fulton	CA	95439
Finley Community Center	Kelley	Magnuson	Deputy Director	<a href="mailto:kmagnuson@srcity.org">kmagnuson@srcity.org</a>	<a href="http://ci.santa-rosa.ca.us/departments/recreationandparks/parks/communitycenters/finley/Pages/default.aspx">http://ci.santa-rosa.ca.us/departments/recreationandparks/parks/communitycenters/finley/Pages/default.aspx</a>	707-543-3737		2060 West College Ave		Santa Rosa	CA	95401
Guerneville Veteran's Memorial Hall	David	Cameron	Program Manager	<a href="mailto:dcameron@rccservices.org">dcameron@rccservices.org</a>	<a href="http://www.sonoma-county.org/gs/forrent/guerneville.htm">http://www.sonoma-county.org/gs/forrent/guerneville.htm</a>	707-604-7725		16300 First Street		Guerneville	CA	95446
Healdsburg Community Center	David	Mickaelian	Director	<a href="mailto:dmickaelian@ci.healdsburg.ca.us">dmickaelian@ci.healdsburg.ca.us</a>	<a href="http://www.ci.healdsburg.ca.us/index.aspx?page=122">http://www.ci.healdsburg.ca.us/index.aspx?page=122</a>	707-431-3318		401 Grove Street		Healdsburg	CA	95448
Jenner Community Club	Kathleen	Haibach	President	<a href="mailto:katsmail@sonic.net">katsmail@sonic.net</a>	<a href="http://jenner-cc.org/index.html">http://jenner-cc.org/index.html</a>	707-568-4617		P.O. Box 173		Jenner	CA	95450
Jewish Community Center	Beth	Goodman	Executive Director	<a href="mailto:beth@jccsoco.org">beth@jccsoco.org</a>	<a href="http://www.jccsoco.org/index.php?src=">http://www.jccsoco.org/index.php?src=</a>	707-528-4222		1301 Farmers Lane		Santa Rosa	CA	
Occidental Community Center					<a href="http://www.sonoma-county.org/">http://www.sonoma-county.org/</a>	707-874-2242		3920 Bohemian Highway				
Petaluma Community Center	Jan	Mandrell	Supervisor	<a href="mailto:jmandrell@ci.petaluma.ca.us">jmandrell@ci.petaluma.ca.us</a>	<a href="http://cityofpetaluma.net/parksrec/index.html">http://cityofpetaluma.net/parksrec/index.html</a>	707-778-4380		320 North McDowell Blvd		Petaluma	CA	94954
Ray Miller	Tamara	Taylor	Deputy City Clerk	<a href="mailto:ttaylor@ci.cotati.ca.us">ttaylor@ci.cotati.ca.us</a>	<a href="http://www.ci.cotati.ca.us/">http://www.ci.cotati.ca.us/</a>	707-792-4600		216 East School Street		Cotati	CA	94931
Rohnert Park Community Center	Guy	Miller	Community Services Manager	<a href="mailto:gmler@rpcity.org">gmler@rpcity.org</a>	<a href="http://www.rpcity.org/index.aspx?page=74">http://www.rpcity.org/index.aspx?page=74</a>	707-588-3456		5401 Snyder Lane		Rohnert Park	CA	94928
Russian River Recreation & Park District	Dana	Zimmerman	Chairman		<a href="http://www.russianriverparks.org/">http://www.russianriverparks.org/</a>	707-869-9184		P.O. Box 195		Guerneville	CA	95446
Sebastopol Community Cultural Center	Diana	Rich	Executive Director	<a href="mailto:scc@seb.org">scc@seb.org</a>	<a href="http://www.seb.org/">http://www.seb.org/</a>	707-823-1511		390 Morris Street		Sebastopol	CA	95472
SGI USA Redwood Coast Community Center						707-546-7777		2455 Bennett Valley Road		Santa Rosa	CA	95404
Songbird Community Healing Center	Jasmine	Gold	Director	<a href="mailto:jasmine@songbirdcenter.org">jasmine@songbirdcenter.org</a>	<a href="http://songbirdcenter.org/">http://songbirdcenter.org/</a>	707-795-2398		8280 Old Redwood Hwy		Cotati	CA	94931
Sonoma Community Center	Toni	Castrone	Executive Director	<a href="mailto:toni@sonomacommunitycenter.org">toni@sonomacommunitycenter.org</a>	<a href="http://www.sonomacommunitycenter.org/Sonoma_Community_Center/WELCOME.html">http://www.sonomacommunitycenter.org/Sonoma_Community_Center/WELCOME.html</a>	707-938-4626		276 East Napa Street		Sonoma	CA	95476
Steele Lane Community Center	Kelly	Magnuson	Deputy Director	<a href="mailto:kmagnuson@srcity.org">kmagnuson@srcity.org</a>	<a href="http://ci.santa-rosa.ca.us/departments/recreationandparks/parks/communitycenters/steele/Pages/default.aspx">http://ci.santa-rosa.ca.us/departments/recreationandparks/parks/communitycenters/steele/Pages/default.aspx</a>	707-543-3282		415 Steele Lane		Santa Rosa	CA	95403
Villa Chanticleer	Kelly	Black	Office Assistant	<a href="mailto:kblack@ci.healdsburg.ca.us">kblack@ci.healdsburg.ca.us</a>	<a href="http://www.villachanticleer.com/">http://www.villachanticleer.com/</a>	707-431-3303		1248 N. Fitch Mountain Rd		Healdsburg	CA	95448
Voices Youth Center	Nancy	Clark	President		<a href="http://www.voicesyouthcenter.org/">http://www.voicesyouthcenter.org/</a>	707-579-4327		714 Mendocino Avenue		Santa Rosa	CA	95401

Golden Gate Bridge Transportatin Management Plan Contact List  
 Environment & Special Interest

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
<b>Marin County - Environmental &amp; Special Interest Orgs</b>												
Agricultural Institute of Marin				<a href="mailto:brigitte@marinfarmersmarket.org">brigitte@marinfarmersmarket.org</a>	<a href="http://marinfarmersmarkets.org">http://marinfarmersmarkets.org</a>							
California State Parks, Diablo Vista District				<a href="mailto:dgoul@parks.ca.gov">dgoul@parks.ca.gov</a>	<a href="http://www.calparks.org">http://www.calparks.org</a>							
Community Clean Water Institute	Nels	Worden	President	<a href="mailto:info@ccwi.org">info@ccwi.org</a>	<a href="http://www.ccwi.org/index.html">http://www.ccwi.org/index.html</a>							
Community Land Trust Association of West Marin (CLAM)	Rae	Levine	Executive Director	<a href="mailto:rae@clam-ptreyes.org">rae@clam-ptreyes.org</a>	<a href="http://www.clam-ptreyes.com">http://www.clam-ptreyes.com</a>							
Cool the Earth	Carleen	Cullen	Executive Director	<a href="mailto:ccullen@cooltheearth.org">ccullen@cooltheearth.org</a>	<a href="http://www.cooltheearth.org">http://www.cooltheearth.org</a>							
Conservation Corps North Bay	Marilee	Eckert	Executive Director	<a href="mailto:meckert@conservationcorpsnorthbay.org">meckert@conservationcorpsnorthbay.org</a>	<a href="http://www.conservationcorpsnorthbay.org">http://www.conservationcorpsnorthbay.org</a>							
Earth Day Marin	Hannah	Doress	Executive Director	<a href="mailto:hannah@wordoutconsulting.com">hannah@wordoutconsulting.com</a>	<a href="http://www.earthdaymarin.org">http://www.earthdaymarin.org</a>							
EcoMom Alliance	Kimberly	Pinkerton	President	<a href="mailto:kimberly@ecomom.com">kimberly@ecomom.com</a>	<a href="http://www.ecomomalliance.org">http://www.ecomomalliance.org</a>							
Environmental Action Committee of West Marin	Frederick	Smith	Executive Director	<a href="mailto:eac@syn.net">eac@syn.net</a>	<a href="http://www.eacmarin.org">http://www.eacmarin.org</a>							
Environmental Forum of Marin	Dave	McConnell	President	<a href="mailto:mcdave2@comcast.net">mcdave2@comcast.net</a>	<a href="http://www.marinefm.org">http://www.marinefm.org</a>							
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Marin Audubon Society	Barbara	Salzman		<a href="mailto:bsalzman@worldnet.att.net">bsalzman@worldnet.att.net</a>	<a href="http://www.marinaudubon.org">http://www.marinaudubon.org</a>							
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Marin County Bicycle Coaliton	Kim	Baenisch	Executive Director	<a href="mailto:kim@marinbike.org">kim@marinbike.org</a>	<a href="http://www.marinbike.org/Index.shtml">http://www.marinbike.org/Index.shtml</a>							
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Marin County Hazardous and Solid Waste Joint Powers Authority	George	Rodericks	Board Chair	<a href="mailto:grodericks@cityofbelvedere.org">grodericks@cityofbelvedere.org</a>	<a href="http://www.marinrecycles.org">http://www.marinrecycles.org</a>							
Marin Municipal Water District			Executive Director		<a href="http://www.marinwater.org">http://www.marinwater.org</a>							
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Marin Open Space Trust	Bill	Long	Board Chair	<a href="mailto:wlo88@comcast.net">wlo88@comcast.net</a>	<a href="http://www.marinopenspacetrust.org">http://www.marinopenspacetrust.org</a>							
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Golden Gate Bridge Transportatin Management Plan Contact List  
 Environment & Special Interest

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Crissy Field Dog Group	Martha	Walters		<a href="mailto:rosewalt@aol.com">rosewalt@aol.com</a>	415-256-9085							
Golden Gate National Recreation Area, Dog Walking Contact	Shirwin	Smith	Management Assistant		(415) 561-4947	(415) 716-9999		Fort Mason	Bldg 201	San Francisco	CA	94123
San Francisco Dog Owners Group				<a href="mailto:info@sfdog.org">info@sfdog.org</a>	(415)339-7461			PO Box 31071		San Francisco	CA	94131
Dune Ecosystem Restoration Team	Emily	Walter	Restoration Manager	<a href="mailto:emily@friendsofthedunes.org">emily@friendsofthedunes.org</a>	707.444.1397			PO Box 186		Arcata	CA	95518
Fort Point & Presidio Historical Assoc.	William	Alich		<a href="mailto:njalich@earthlink.net">njlich@earthlink.net</a>	415-922-4967	650-564-9397	415-922-4967	2190 Washington St	#1007	San Francisco	CA	94109
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Planning Assocator for Richmond & GGNRA Adv. Fort Point & Presidio Historical Association	Redmond	Kernan		<a href="mailto:RedmondKernan@yahoo.com">RedmondKernan@yahoo.com</a>	415-751-1126		415-751-1416	35 Sixth Ave.		San Francisco	CA	94118
Golden Gate Audubon Society	Mark	Welther	Executive Director	<a href="mailto:mwelther@goldengateaudubon.org">mwelther@goldengateaudubon.org</a>	510.843.2222		510.843.5351	2530 San Pablo Ave	Suite G	Berkeley	CA	94702
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Natural Resources Defense Council				<a href="mailto:nrdcinfo@nrdc.org">nrdcinfo@nrdc.org</a>	415-875-6100			111 Sutter St.	20th Floor	San Francisco	CA	94104
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Presidio Environmental Council	+											
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Transportation Solutions Defense and Education Fund				<a href="mailto:info@transdef.org">info@transdef.org</a>	415-460-5260			P.O. Box 151439		San Rafael	CA	91915
Urban Watershed Project	Doug	Kern		<a href="mailto:dkern@netcom.com">dkern@netcom.com</a>	(415) 561-4857			Bldg. 204, Rm. 200C	PO Box 29096	San Francisco	CA	94129
San Francisco Bay Trail Project	Maureen	Gaffney	Bay Trail Planner	<a href="mailto:maureng@abag.ca.gov">maureng@abag.ca.gov</a>	510/464-7909			101 Eighth Street		Oakland	CA	94604

Golden Gate Bridge Transportatin Management Plan Contact List  
Libraries

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Bolinas Public Library	Bonnie	White	Branch Manager	BNWhite@co.marlin.ca.us	<a href="http://www.co.marlin.ca.us/depts/lb/main/wmarin/Bolindex.cfm">http://www.co.marlin.ca.us/depts/lb/main/wmarin/Bolindex.cfm</a>	415-868-1171	16 Wharf Road		Bolinas	CA	94924
Corte Madera Public Library	Nancy	Davis	Branch Manager	ndavis@marincounty.org	<a href="http://www.co.marlin.ca.us/depts/lb/main/corte/index.cfm">http://www.co.marlin.ca.us/depts/lb/main/corte/index.cfm</a>	415-924-4844	707 Meadowsweet Drive		Corte Madera	CA	94925
CSAA Information Center			A03S				150 Van Ness Avenue	Ste 300	San Francisco	CA	94142-9186
Del Norte County Library	Rebecca	Tipton	Library Manager	<a href="mailto:rebecca@delnortecountylibrary.org">rebecca@delnortecountylibrary.org</a>	<a href="http://www.delnortecountylibrary.org/home">http://www.delnortecountylibrary.org/home</a>	707-464-9793	190 Prince Mall		Crescent City	CA	95531
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Healdsburg Public Library	Bo	Simons	Director of Healdsburg Branch	<a href="mailto:bo@sonoma.lib.ca.us">bo@sonoma.lib.ca.us</a>	<a href="http://www.sonomalibrary.org/branches/Healdsburg.html">http://www.sonomalibrary.org/branches/Healdsburg.html</a>	707-433-3772	139 Piper Road		Healdsburg	CA	95448
Inverness Public Library			Head Librarian		<a href="http://www.co.marlin.ca.us/depts/lb/main/wmarin/inindex.cfm">http://www.co.marlin.ca.us/depts/lb/main/wmarin/inindex.cfm</a>	415-669-1288	15 Park Avenue		Inverness	CA	94937
Larkspur Public Library			Head Librarian	<a href="mailto:library@cityoflarkspur.org">library@cityoflarkspur.org</a>	<a href="http://www.ci.larkspur.ca.us/208.html">http://www.ci.larkspur.ca.us/208.html</a>	415-927-5005	400 Magnolia Avenue		Larkspur	CA	94939
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Marin County Free Library	Gail	Haar	Director	<a href="mailto:library@co.marlin.ca.us">library@co.marlin.ca.us</a>	<a href="http://www.co.marlin.ca.us/depts/lb/main/index.cfm">http://www.co.marlin.ca.us/depts/lb/main/index.cfm</a>	415-473-3220	3501 Civic Center Drive	Suite 404	San Rafael	CA	94903
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Presidio Trust Library	Barbara	Janis	Librarian	<a href="mailto:bjanis@presidiotrust.gov">bjanis@presidiotrust.gov</a>	<a href="http://www.presidio.gov/history/research.htm">http://www.presidio.gov/history/research.htm</a>	415-561-5343	P.O. Box 29052		San Francisco	CA	94129-0052
Pt. Reyes Public Library	Bonny	White	Branch Manager	BNWhite@co.marlin.ca.us	<a href="http://www.co.marlin.ca.us/depts/lb/main/wmarin/PRSindex.cfm">http://www.co.marlin.ca.us/depts/lb/main/wmarin/PRSindex.cfm</a>	415-663-8375	11431 State Route 1		Point Reyes Station	CA	94956
Rohnert Park/Cotati Regional Library	Nancy	Kleban	Head Librarian	<a href="mailto:nkleban@sonoma.lib.ca.us">nkleban@sonoma.lib.ca.us</a>	<a href="http://sonomalibrary.org/branches/Rohnert.html">http://sonomalibrary.org/branches/Rohnert.html</a>	707-584-9121	6250 Lynne Conde Way		Rohnert Park	CA	94928
San Anselmo Public Library	Linda	Kenton	Town Librarian	<a href="mailto:lkenton@townofsananselmo.org">lkenton@townofsananselmo.org</a>	<a href="http://www.townofsananselmo.org/index.aspx?nid=133">http://www.townofsananselmo.org/index.aspx?nid=133</a>	415-258-4656	110 Tunstead		San Anselmo	CA	94960
San Francisco Main Public Library	Luis	Herrera	City Librarian	<a href="mailto:citylibrarian@sfpl.org">citylibrarian@sfpl.org</a>	<a href="http://sfpl.lib.ca.us/">http://sfpl.lib.ca.us/</a>	415-557-4400	100 Larkin Street		San Francisco	CA	94102-4733
San Geronimo Valley Public Library	Gail	Haar	Director	<a href="mailto:library@co.marlin.ca.us">library@co.marlin.ca.us</a>	<a href="http://www.co.marlin.ca.us/depts/lb/main/wmarin/sgindex.cfm">http://www.co.marlin.ca.us/depts/lb/main/wmarin/sgindex.cfm</a>	415-488-0430	7282 Sir Francis Drake		San Geronimo	CA	94963
San Rafael Public Library	Sarah	Houghton	Library Director	<a href="mailto:sarah.houghton@cityofsanrafael.org">sarah.houghton@cityofsanrafael.org</a>	<a href="http://marinet.lib.ca.us">http://marinet.lib.ca.us</a>	415-485-3323	1100 E Street, at Fifth Avenue		San Rafael	CA	94901
Santa Rosa Central Library	Sandra M.	Cooper	Library Director	<a href="mailto:scooper@sonoma.1rb.ca.us">scooper@sonoma.1rb.ca.us</a>	<a href="http://sonomalibrary.org/branches/Central.html">http://sonomalibrary.org/branches/Central.html</a>	707-545-0831	211 E Street		Santa Rosa	CA	95404
Sausalito Public Library	Abbot	Chambers	City Librarian	<a href="mailto:achambers@ci.sausalito.ca.us">achambers@ci.sausalito.ca.us</a>	<a href="http://www.ci.sausalito.ca.us/library/default.htm">http://www.ci.sausalito.ca.us/library/default.htm</a>	415-289-4121	420 Litho Street		Sausalito	CA	94965
Sebastopol Regional Library	Matthew	Rose	Branch Manager	<a href="mailto:seba-lab@info.sonoma.lib.ca.us">seba-lab@info.sonoma.lib.ca.us</a>	<a href="http://www.sonoma.lib.ca.us/branches/Sebastopol.html">http://www.sonoma.lib.ca.us/branches/Sebastopol.html</a>	707-823-7691	7140 Bodega Avenue		Sebastopol	CA	95472
Sonoma County Library	Sandra M.	Cooper	Library Director	<a href="mailto:scooper@sonoma.1rb.ca.us">scooper@sonoma.1rb.ca.us</a>	<a href="http://www.sonoma.lib.ca.us/index.html">http://www.sonoma.lib.ca.us/index.html</a>	707-545-0831	Third and E Streets		Santa Rosa	CA	95404
Sonoma Valley Regional Library	Lisa	Musgrove	Branch Manager	<a href="mailto:lmusgrove@sonoma.lib.ca.us">lmusgrove@sonoma.lib.ca.us</a>	<a href="http://www.sonoma.lib.ca.us/index.html">http://www.sonoma.lib.ca.us/index.html</a>	707-996-5217	755 West Napa Street		Sonoma	CA	95476
Stinson Beach Public Library	Gail	Haar	Director	<a href="mailto:library@co.marlin.ca.us">library@co.marlin.ca.us</a>	<a href="http://www.co.marlin.ca.us/depts/lb/main/wmarin/sbindex.cfm">http://www.co.marlin.ca.us/depts/lb/main/wmarin/sbindex.cfm</a>	415-868-0252	P.O. Box 578		Stinson Beach	CA	94970

Golden Gate Bridge Transportatin Management Plan Contact List  
Major Destinations

Affiliation	First name	Last name	Title	Email	Phone	Alternative Phone	Fax	Address Line 1	Address Line 2	City	St	Zip
<b>Museums</b>												
Aquarium By the Bay			Event Coordinator	<a href="mailto:meghan@bay.org">meghan@bay.org</a>								
Aquarium By the Bay			Public Relations Manager	<a href="mailto:kati@bay.org">kati@bay.org</a>								
Aquarium By the Bay				<a href="mailto:mayra@bay.org">mayra@bay.org</a>								
California Academy of Sciences	Amy	Wong	Marketing Manager	<a href="mailto:awong@calacademy">awong@calacademy</a>	415-379-5225			55 Music Concourse Dr.	Golden Gate Park	San Francisco	CA	94118
de Young Museum	Jill	Lynch	Assistant Director of Communications	<a href="mailto:jlynch@famsf.org">jlynch@famsf.org</a>	415-750-3553			50 Hagiwara Tea Garden Dr		San Francisco	CA	94118
Exploratorium	Laura	Zander	Chief Operating Officer	<a href="mailto:tzander@exploratorium.edu">tzander@exploratorium.edu</a>	(415) 561-0345			3601 Lyon Street		San Francisco	CA	94123-1099
Exploratorium	Jeff	Hamilton	Director of Community and Government Relations	<a href="mailto:jhamilton@exploratorium.edu">jhamilton@exploratorium.edu</a>	(415) 561-0353			3601 Lyon Street		San Francisco	CA	94123-1099
Exploratorium	Jennifer	Fragomeni	Facilities Director	<a href="mailto:jfrago@exploratorium.edu">jfrago@exploratorium.edu</a>	(415) 561-0403			3601 Lyon Street		San Francisco	CA	94123-1099
Legion of Honor Museum				<a href="mailto:contact@famsf.org">contact@famsf.org</a>	(415) 750-3677			100 34th Ave		San Francisco	CA	
Japanese Tea Garden				<a href="mailto:info@japaneseteagardenssf.com">info@japaneseteagardenssf.com</a>	(415) 752-1171			75 Hagiwara Tea garden Dr		San Francisco	CA	94118
San Francisco Conservatory of Flowers	Lau	Hodges	Director of Operations & Exhibitions	<a href="mailto:lhodges@sfcfof.org">lhodges@sfcfof.org</a> ; <a href="mailto:info@sfcfof.org">info@sfcfof.org</a>	(415) 831-2090			100 John F. Kennedy Drive	Golden Gate Park	San Francisco	CA	94118
The Palace of Fine Arts				<a href="mailto:info@palaceoffinearts.org">info@palaceoffinearts.org</a>	(415) 563-6504		415-567-4062	3301 Lyon Street		San Francisco	CA	94123
Yerba Buena Center for the Arts	Kimberly	Harding	Public Relations Manager	<a href="mailto:kharding@ybca.org">kharding@ybca.org</a>	415-321-1307			701 Mission St.		San Francisco	CA	94103
Yerba Buena Center for the Arts	Iris	Willow	Event Coordinator	<a href="mailto:iwillow@ybca.org">iwillow@ybca.org</a>								
Ripley's Believe It or Not				<a href="mailto:sanfran@ripleys.com">sanfran@ripleys.com</a>								
San Francisco Museum of Modern Art	Libby	Garrison	Public Relations Manager	<a href="mailto:lgarrison@sfmoma.org">lgarrison@sfmoma.org</a>	415.357.4170			151 Third Street		San Francisco	CA	94103
<b>Recreation/Sightseeing/Sports/Entertainment</b>												
Fort Mason/Herbst Pavilion	Al	Gonsalves	Manager Director	<a href="mailto:al@fortmason.org">al@fortmason.org</a>	415-345-7520			Fort Mason Center		San Francisco	CA	94123
Cow Palace	Diana	Colvin	Event Coordinator	<a href="mailto:events@cowpalace.com">events@cowpalace.com</a>	415-404-4100			2600 Geneva Avenue		Daly City	CA	94014
Infiniteon Raceway	Diana	Brennan	Director of Media Relations	<a href="mailto:dbrennan@infiniteonraceway.com">dbrennan@infiniteonraceway.com</a>						Sonoma	CA	95476
Cavallo Point			mary has	<a href="mailto:info@cavallopoint.com">info@cavallopoint.com</a>	415-339-4700			601 Murray Circle	Fort Baker	Sausalito	CA	94965
Environmental Traveling Companions				<a href="mailto:info@etctrips.org">info@etctrips.org</a>	(415) 474-7662			Fort Mason Center	Landmark Bldg. C	San Francisco	CA	94123
Moscone Center	Naina	Ayya	Communications Manager	<a href="mailto:nayya@moscone.com">nayya@moscone.com</a>	(415) 292-2006			1800 Chestnut St.		San Francisco	CA	94123
Oracle Arena & Oakland-Alameda County Coliseum	Ron	Little	Assistant General Manager	<a href="mailto:schang@coliseum.com">schang@coliseum.com</a> ; <a href="mailto:ron.little@coliseum.com">ron.little@coliseum.com</a> ; <a href="mailto:info@coliseumauthority.com">info@coliseumauthority.com</a>	510-569-2121	510-383-4801		7000 Coliseum Way		Oakland	CA	94621
Oakland Raiders	Tom	Blanda	Senior Executive Finance & Technology	<a href="mailto:feedback@raiders.com">feedback@raiders.com</a>	(510) 864-5000			1220 Harbor Bay Parkway		Alameda	CA	94502
Oakland Athletics	David	Rinetti	Vice President of Stadium Operations	<a href="mailto:renetti@oaklandathletics.com">renetti@oaklandathletics.com</a>	(510) 638-4900			7000 Coliseum Way		Oakland	CA	94621
San Francisco Giants	Stacey	Slaughter	mary has		415-972-2017							
San Francisco Forty Niners	Jim	Mecurio	mary has						Room 400	San Francisco	CA	94124
Stanford University Dept of Athletics	Megan D.	Boone	Asst. Athletic Director of Compliance Svcs	<a href="mailto:mboone@stanford.edu">mboone@stanford.edu</a>	(650) 723-6150			Compliance Services Office	Arrillaga Family Sports Center	Stanford	CA	94305-6150
Cal Bears Football	Andrew	Lempart	Strategic Communications Manager	<a href="mailto:alempart@berkeley.edu">alempart@berkeley.edu</a>	510-642-2444							
San Francisco Zoo				<a href="mailto:mediarelations@sfoo.org">mediarelations@sfoo.org</a>	(415) 753-7080			One Zoo Road		San Francisco	CA	
Oakland Zoo	Nicky	Mora	Sr. Marketing Manager	<a href="mailto:nmora@oaklandzoo.org">nmora@oaklandzoo.org</a>	(510) 632-9525	x130		9777 Golf Links Road	POB 5238	Oakland	CA	94605
<b>Theatres/Auditoriums</b>												
Orpheum				<a href="mailto:feedback@shnsf.com">feedback@shnsf.com</a>	415-551-2075							
San Francisco War Memorial and Performing Arts Center	Elizabeth	Murray	Managing Director	<a href="mailto:elizabeth.murray@sfgov.org">elizabeth.murray@sfgov.org</a>	(415) 621-6600			401 Van Ness Ave, Room 110		San Francisco	CA	94102
Milton Marks	David	Glass		<a href="mailto:david.glass@jud.ca.go">david.glass@jud.ca.go</a>								
Bill Graham Civic Auditorium					(415) 713-3936							
Curran Theatre				<a href="mailto:feedback@shnsf.com">feedback@shnsf.com</a>	415-551-2075							
Golden Gate Theatre				<a href="mailto:feedback@shnsf.com">feedback@shnsf.com</a>	415-551-2075							
Yoshis			General Manager	<a href="mailto:john@yoshis.com">john@yoshis.com</a>								
Yoshis			Director Private Events	<a href="mailto:fiona@yoshis.com">fiona@yoshis.com</a>								
Yoshis	Jana J	Jackson	Director of Marketing and Publicity	<a href="mailto:jana@yoshis.com">jana@yoshis.com</a>								
American Conservatory Theatre				<a href="mailto:hr@act-sf.org">hr@act-sf.org</a>	415.834.3200			30 Grant Avenue	Sixth Floor	San Francisco	CA	94108
<b>Other Venues</b>												
Pier 39				<a href="mailto:sina@pier39.com">sina@pier39.com</a>								
Ghiradelli Square				<a href="mailto:Brittany.Enos@cbre.com">Brittany.Enos@cbre.com</a>								
Grace Cathedral	Heidi	Zuhl		<a href="mailto:heidiz@gracecathedral.org">heidiz@gracecathedral.org</a>	415-749-6364							
Wells Fargo Center for the Arts	Richard	Nowlin	Executive Director	<a href="mailto:richardn@wellsfargo.com">richardn@wellsfargo.com</a>	707-527-7006			50 Mark Springs Road		Santa Rosa	CA	95403

Golden Gate Bridge Transportation Management Plan Contact List  
Police-Fire-Ambulance-Hospitals

Affiliation	First name	Last name	Title	Email	Phone	Alternative Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
<b>North Bay Marin and Sonoma - Police &amp; Fire</b>												
Larkspur Fire Department	Robert	Sinnott	Fire Chief	<a href="mailto:rsinnott@larkspurfire.net">rsinnott@larkspurfire.net</a>	(415) 927-5014	(415) 927-5017	(415) 927-5009	420 Magnolia Ave		Larkspur	CA	94939
Greenbrae Fire Station 16	Robert	Sinnott	Fire Chief	<a href="mailto:rsinnott@larkspurfire.net">rsinnott@larkspurfire.net</a>	(415) 927-5041		(415) 927-5010	15 Barry Way		Greenbrae	CA	94904
Mill Valley Fire Department	Greg	Moore	Fire Chief	<a href="mailto:fire@cityofmillvalley.org">fire@cityofmillvalley.org</a>	(415) 389-4130			One Hamilton Drive		Mill Valley	CA	94941
Marin County Fire Department, Southern Marin	Jason	Weber	Interim Fire Chief	<a href="mailto:jweber@marincounty.org">jweber@marincounty.org</a>	(415) 499-6717			POB 1238		Mill Valley	CA	94942
Marin County Fire Department, Western Marin	Chris	Martinelli	Senior Fire Captain	<a href="mailto:cmartinelli@marincounty.org">cmartinelli@marincounty.org</a>	(415) 499-6717			POB 518		Woodacre	CA	94973
Ross Valley Paramedic Authority	Robert	Sinnott	Executive Director	<a href="mailto:rsinnott@larkspurfire.net">rsinnott@larkspurfire.net</a>	(415) 927-5014			400 Magnolia Ave		Larkspur	CA	94939
Novato Fire Protection District	Ken	Massucco	Fire Chief	<a href="mailto:firechief@novatofire.org">firechief@novatofire.org</a>	(415) 878-2690			95 Rowland Blvd		Novato	CA	94945
City of San Rafael Fire Department	Christopher	Gray	Fire Chief	<a href="mailto:chrisgray@cityofsanrafael.org">chrisgray@cityofsanrafael.org</a>	(415) 485-3304			1039 C Street		San Rafael	CA	94901
City of San Rafael Police Department	Diana	Bishop	Chief	<a href="mailto:cops@srpd.org">cops@srpd.org</a>								
Sonoma Valley Fire & Rescue	Phillip	Garcia	Fire Chief	<a href="mailto:philg@svfra.org">philg@svfra.org</a>	(707) 996-2102			630 Second Street		Sonoma	CA	95476
Sonoma County Sheriff's Department	Ed	Hoener	Helicopter Operations	<a href="mailto:ed.hoener@sonoma-county.org">ed.hoener@sonoma-county.org</a>	(707) 565-7195	(707) 565-7198	(707) 565-7194	2796 Ventura Ave		Santa Rosa	CA	95403
Sonoma County Sheriff's Department	Steve	Freitas	Sheriff	<a href="mailto:wendy.hoffman@sonoma-county.org">wendy.hoffman@sonoma-county.org</a>	(707) 565-2511	(707) 565-2781		2796 Ventura Ave		Santa Rosa	CA	95403
Petaluma Fire Department	Larry	Anderson	Fire Chief	<a href="mailto:landerson@ci.petaluma.ca.us">landerson@ci.petaluma.ca.us</a>	(707) 778-4390		(707) 762-4547	198 D Street		Petaluma	CA	94952
Napa County Fire Department	Tim	Streblov	Fire Chief	<a href="mailto:kaaren.stasko@fire.ca.gov">kaaren.stasko@fire.ca.gov</a>	(707) 967-1400			1199 Big Tree Road		St. Helena	CA	94574
Napa County Sheriff's Department	John	Robertson	Sheriff	<a href="mailto:sheriff@countyofnapa.org">sheriff@countyofnapa.org</a>	(707) 253-4501			1125 Third Street	Suite 1	Napa	CA	94559
Napa Law Enforcement Agency	Greg	Pirie	Local Law Enforcement Coordinator	<a href="mailto:greg.pirie@countyofnapa.org">greg.pirie@countyofnapa.org</a>	(707) 253-4144			1195 Third Street	Suite 101	Napa	CA	94559
Napa County Transportation & Planning Agency (NCTPA)	James	Krider	Councilmember/NCTPA Chair	<a href="mailto:jkrider@cityofnapa.org">jkrider@cityofnapa.org</a>	(707) 258-7876	(707) 259-8631		707 Randolph Street	Suite 100	Napa	CA	94559-2912
Marin County Sheriff's Department	Robert T.	Doyle	Sheriff	<a href="mailto:rdoyle@co.marin.ca.us">rdoyle@co.marin.ca.us</a>	(415) 499-7250			3501 Civic Center Drive	Suite 145	San Rafael	CA	94903
CAL FIRE	Eric	Hoffmann	Unit Chief	<a href="mailto:eric.hoffmann@fire.ca.gov">eric.hoffmann@fire.ca.gov</a>	(707) 576-2586			2235 Airport Blvd		Santa Rosa	CA	95403-8259
Civil Air Patrol, Redwood Empire Composite Squadron 157 - U.S. Air Force Auxiliary	David	Reber	Captain	<a href="mailto:djreber@aol.com">djreber@aol.com</a>	(707) 545-7488			2243 Airport Blvd		Santa Rosa	CA	95403-8259
Federal Aviation Administration (FAA)	Robert	Walker	Norbay Systems Support Manager	<a href="mailto:robert.a.walker@faa.gov">robert.a.walker@faa.gov</a>	707-525-9356			2245 Airport Blvd		Santa Rosa	CA	95492
Federal Aviation Administration (FAA)	Robin K.	Hunt	Airports District Manager	<a href="mailto:robin.k.hunt@faa.gov">robin.k.hunt@faa.gov</a>	(650) 876-2778	x600	(650) 876-2733	831 Mitten Road		Burlingame	CA	94010
Novato Police Department	Renee	Woolard	Administrative Assistant	<a href="mailto:rwoolard@novato.org">rwoolard@novato.org</a>	415-897-1122			909 Machin Avenue		Novato	CA	
Mill Valley Police Department	Deborah	Ross	Administrative Assistant	<a href="mailto:gross@cityofmillvalley.org">gross@cityofmillvalley.org</a>	415-389-4100			1 Hamilton Drive		Mill Valley	CA	
Petaluma Police Department	Rebecca	Nannini	Administrative Assistant	<a href="mailto:policeadmin@ci.petaluma.ca.us">policeadmin@ci.petaluma.ca.us</a>	707-778-4370			969 Petaluma Blvd		Petaluma	CA	
Sausalito Police Department	Susan	Barnes	Administrative Aide/Chief's Assistant	<a href="mailto:sbarnes@ci.sausalito.ca.us">sbarnes@ci.sausalito.ca.us</a>	415-289-4170			29 Caledonia Street		Sausalito	CA	
Twin Cities Police Department	Dana	Unruh	Authority Clerk	<a href="mailto:dunruh@centralmarinpolice.org">dunruh@centralmarinpolice.org</a>	415-927-5150			250 Doherty Drive		Larkspur	CA	
San Anselmo Police Department	Dana	Unruh	Authority Clerk	<a href="mailto:dunruh@centralmarinpolice.org">dunruh@centralmarinpolice.org</a>	415-258-4610			525 San Anselmo		San Anselmo	CA	
Tiburon Police Department	Cindy	Rodriguez	Administrative Assistant	<a href="mailto:crodriguez@ci.tiburon.ca.us">crodriguez@ci.tiburon.ca.us</a>	415-789-2801			1155 Tiburon Blvd.		Tiburon	CA	
Ross Police Department	Eric	Masterson	Chief		415-453-2727			33 Sir Francis Drake Blvd		Ross	CA	
Belvedere Police Department	Lylene	Phillips	Police Secretary	<a href="mailto:lphillips@cityofbelvedere.org">lphillips@cityofbelvedere.org</a>	415-435-2611			450 San Rafael Avenue		Belvedere	CA	
Fairfax Police Department	Cynthia	Powell	Community Service Officer	<a href="mailto:cpowell@fairfaxpd.org">cpowell@fairfaxpd.org</a>	415-453-5330							
Sonoma Police Department	Darcy	Proctor	Administrative Assistant	<a href="mailto:darcy.proctor@sonoma-county.org">darcy.proctor@sonoma-county.org</a>	707-996-3601			175 1st Street West		Sonoma	CA	
Santa Rosa Police Department	Carrie	Behler	Administrative Secretary	<a href="mailto:cbehler@srcity.org">cbehler@srcity.org</a>	707-543-3600			965 Sonoma Avenue		Santa Rosa	CA	
Sebastopol Police Department	James	Conner	Lieutenant	<a href="mailto:jconner@sebpd.com">jconner@sebpd.com</a>	707-829-4400			6850 Laguna Park Way		Sebastopol	CA	
Rohnert Park Police Department	Jeff	Taylor	Administrative Lieutenant	<a href="mailto:jtaylor@rpcity.org">jtaylor@rpcity.org</a>	707-584-2600			500 City Center Drive		Rohnert Park	CA	
Cotati Police Department	Bill	French	Lieutenant	<a href="mailto:bfrench@ci.cotati.ca.us">bfrench@ci.cotati.ca.us</a>	707-792-4611			203 West Sierra Avenue		Cotati	CA	
Windsor Police Department	Chris	Spallino	Chief	<a href="mailto:chrisspallino@sonoma-county.org">chrisspallino@sonoma-county.org</a>	707-838-1234			9291 Old Redwood Highway		Windsor	CA	
Calistoga Police Department	Jonathan	Mills	Lieutenant	<a href="mailto:JMills@ci.calistoga.ca.us">JMills@ci.calistoga.ca.us</a>	707-942-2810			1234 Washington Street		Calistoga	CA	
<b>Emergency Management Services (EMS) and Offices of Emergency Services (OES)</b>												
SF Department of Emergency Management	Dave	Ebarle	Support Services Manager	<a href="mailto:David.Ebarle@SFGOV.ORG">David.Ebarle@SFGOV.ORG</a>	415-558-3882			1011 Turk Street		San Francisco	CA	94102
SF Department of Emergency Management	Joann	Hicks		<a href="mailto:joann.hicks@sfgov.org">joann.hicks@sfgov.org</a>	415 558-3831			1011 Turk Street		San Francisco	CA	94102
Marin County EMS	Karrie	Groves, BSN	CQI Coordinator	<a href="mailto:ems@co.marin.ca.us">ems@co.marin.ca.us</a> ; <a href="mailto:kgroves@co.marin.ca.us">kgroves@co.marin.ca.us</a>	(415) 473-3214			899 Northgate Dr	Suite 104	San Rafael	CA	94903
Napa County EMS	Ty	Cook	EMS Coordinator	<a href="mailto:tcook@co.napa.ca.us">tcook@co.napa.ca.us</a>	(707) 253-4341			2344 Old Sonoma Road		Napa	CA	94559
Napa County Emergency Services	Kerry	Whitney	County EMS Director	<a href="mailto:kerry.whitney@countyofnapa.org">kerry.whitney@countyofnapa.org</a>				1195 Third Street		Napa	CA	94559
Sonoma County EMS/Coastal Valleys EMS/REDCOM	Bryan	Cleaver	Regional EMS Director	<a href="mailto:bcleaver@sonoma-county.org">bcleaver@sonoma-county.org</a>	(415) 565-6501			475 Aviation Blvd	Suite 200	Santa Rosa	CA	
CAL EMA/California State OES	Tina	Walker	Chief of Public Information	<a href="mailto:Tina.Walker@calema.ca.gov">Tina.Walker@calema.ca.gov</a>	(916) 845-8456			3650 Schriever Ave		Mather	CA	95655

**Golden Gate Bridge Transportatin Management Plan Contact List**  
**Police-Fire-Ambulance-Hospitals**

Affiliation	First name	Last name	Title	Email	Phone	Alternative Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
Permitted (not sure what this means, MCC)												
AMR/San Francisco Ambulance				<a href="mailto:amr.sf@amr.net">amr.sf@amr.net</a>	(415) 922-9400			1300 Illinois Street		San Francisco	CA	94107
Bayshore Ambulance	William	Bockholt	President	<a href="mailto:info@bayshoreambulance.com">info@bayshoreambulance.com</a>	(650) 525-9700			370 Hatch Drive	P.O. Box 4622	Foster City	CA	94404
King American Ambulance Company	Josette	Mani	President	<a href="mailto:josettemani@yahoo.com">josettemani@yahoo.com</a>	(415) 931-1400			2570 Bush Street		San Francisco	CA	94115
ProTransport-1	Elena	Whorton	President	<a href="mailto:elena@protransport-1.com">elena@protransport-1.com</a>	(707) 586-4041			PO Box 7260		Cotati	CA	94931
San Francisco Fire Department	Michie	Wong	Lieutenant	<a href="mailto:michie.wong@sfgov.org">michie.wong@sfgov.org</a>	(415) 558-3361			698 Second Street		San Francisco	CA	94107
St. Joseph's Ambulance	Richard	Angotti	President	<a href="mailto:richardangotti@hotmail.com">richardangotti@hotmail.com</a>	(415) 460-6020			1418 Lincoln Avenue		San Rafael	CA	94901
North Bay Emergency Providers												
American Medical Response - Marin County				<a href="mailto:amr.marin@amr.net">amr.marin@amr.net</a>	(415) 451-8263	x2		470 DuBois St		San Rafael	CA	94901
NorCal Ambulance	Barry	Sutherland	CEO	<a href="mailto:barry@norcalambulance.com">barry@norcalambulance.com</a>	(510) 452-3400			2537 Willow St		Oakland	CA	94607-1723
Bell's Ambulance	Steve	Busher	Operations Manager	<a href="mailto:bellsambulance@aol.com">bellsambulance@aol.com</a>	(707) 433-1408			POB 726	434 Powell Ave	Healdsburg	CA	95448
Piners Napa Ambulance	Jeremy	Piner	Operations Manager	<a href="mailto:jeremy@piners.net">jeremy@piners.net</a>	9707) 224-3123			1820 Pueblo Ave		Napa	CA	94558-4751
AMR/Sonoma County	Dean	Anderson	Operations Manager	<a href="mailto:amr.sonoma@amr.net">amr.sonoma@amr.net</a>	(707) 536-0400	(707) 544-4911	dispatch	930 South A Street		Santa Rosa	CA	95404
REACH Helicopter	Sean	Russel	President	<a href="mailto:brenda_alvarez@reachair.com">brenda_alvarez@reachair.com</a>	(707) 575-6886			451 Aviation Boulevard	#201	Santa Rosa	CA	95403
VeriHealth, Inc.	Abraham	Martin	Operations Manager	<a href="mailto:abraham.martin@verihealth.com">abraham.martin@verihealth.com</a>	(707) 766-2400			2190 S. McDowell Blvd		Petaluma	CA	94975
Hospitals												
San Francisco General Hospital	Rachael	Kagan	Director of Communications	<a href="mailto:rachael.kagan@sfdph.org">rachael.kagan@sfdph.org</a>	(415) 206-3170			2460 Mission St		San Francisco	CA	94110
California Pacific Medical Center	Kevin	McCormack	Media Relations Manager	<a href="mailto:McCormKD@sutterhealth.org">McCormKD@sutterhealth.org</a>	(415) 600-7484			P.O. Box 7999		San Francisco	CA	94120-7999
Saint Francis Memorial Hospital	Linda	Gillespie	Director	<a href="mailto:linda.gillespie@chw.edu">linda.gillespie@chw.edu</a>	(415)353-6547			900 Hyde St		San Francisco	CA	94109
UCSF Medical Center	Elizabeth	Fernandez	Senior Public Information Representative	<a href="mailto:efernandez@pubaff.ucsf.edu">efernandez@pubaff.ucsf.edu</a>	415-514-1592			3333 California Street		San Francisco	CA	94118
Children's Hospital & Research Center Oakland	Erin	Goldsmith	Media Relations Manager	<a href="mailto:egoldsmith@mail.cho.org">egoldsmith@mail.cho.org</a>	510-428-3069			747 52nd Street		Oakland	CA	94609
Children's Hospital & Research Center Oakland	Diana	Yee	Director, Media Relations	<a href="mailto:dyee@mail.cho.org">dyee@mail.cho.org</a>	(510) 428-3120			747 52nd Street		Oakland	CA	94609
Children's Hospital & Research Center Oakland	Donald	Mitchell	Director of Security, Parking & Transportation	<a href="mailto:dmitchell@mail.cho.org">dmitchell@mail.cho.org</a>	(510) 428-3465	(510) 428-3000		747 52nd Street		Oakland	CA	94609
St. Mary's Medical Center	Frank	Austin	Director of Marketing and Communications	<a href="mailto:Frank.Austin@chw.edu">Frank.Austin@chw.edu</a>	(415) 750-5831			450 Stanyan St		San Francisco	CA	94117
Kaiser Hospital San Rafael	Carol	Harris	Director of Public Relations	<a href="mailto:carol.a.kp.org">carol.a.kp.org</a>				99 Montecillo Road		San Rafael	CA	94903
Sonoma Valley Hospital	Kelly	Mather	CEO	<a href="mailto:administration@svh.com">administration@svh.com</a>	(707) 935-5005			347 Andrieux St		Sonoma	CA	95476
Marin General Hospital	Jamie	Maites	Director of Communications	<a href="mailto:maitesj@maringeneral.org">maitesj@maringeneral.org</a>	(415) 925-7000			250 Bon Air Road		Greenbrae	CA	94904-1702
Novato Community Hospital	Mary	Strebig	Manager, Public Relations		(415) 209-1300			180 Rowland Way		Novato	CA	94945
West Marin Medical Center	Michael C.	Whitt, M.D.	Director	<a href="mailto:mwhittmd@yahoo.com">mwhittmd@yahoo.com</a>	(415) 663-1082			11150 California One		Point Reyes Sta	CA	94956-9756
Queen of the Valley Hospital	Jaime	Penaherrera	Director of Marketing and Communications	<a href="mailto:jaime.penaherrera@stjoe.org">jaime.penaherrera@stjoe.org</a>	(707) 252-4411	ext. 2004		1000 Trancas St		Napa	CA	94558
Napa State Hospital	Dolly	Matteucci	Interim Director	<a href="mailto:nshcontact@dmhsh.state.ca.us">nshcontact@dmhsh.state.ca.us</a>	(707) 253-5000			2100 Napa Vallejo Hwy		Napa	CA	94558-6293
St. Helena Hospital	Stan	Tempchin	Director of Facilities	<a href="mailto:shuhealth@shpo.ah.org">shuhealth@shpo.ah.org</a>	(707) 963-6495	(707) 963-3611		10 Woodland Road		St. Helena	CA	94574
Emergency Provider												
Golden State Donor Services	Tracy	Bryan	Manager, Public Relations	<a href="mailto:tbryan@dcids.org">tbryan@dcids.org</a>	916-567-1600			1760 Creekside Oaks Dr	Suite 220	Sacramento	CA	95833
California Transplant Donor Network	Heather	Dickinson	Ex. Asst. to COO and CEO	<a href="mailto:hdickinson@ctdn.org">hdickinson@ctdn.org</a>	510-273-6739			1000 Broadway	Suite 600	Oakland	CA	94607
American Medical Response National Office of Emergency Preparedness				<a href="mailto:OEP@amr.net">OEP@amr.net</a>	(877) 567-4466							



Golden Gate Bridge Transportatin Management Plan Contact List  
 Presidio Tenants

Affiliation	First name	Last name	Title	Email	Phone	Alternative Phone	Fax	Address Line 1	Address Line 2	City	St	Zip
<b>Presidio Tenants</b>												
3Degrees Inc.				<a href="mailto:aucker@3degreesinc.com">aucker@3degreesinc.com</a>	415.561.6852			38 Keyes Ave	Suite 300	San Francisco	CA	94129
Arion Press				<a href="mailto:arionpress@arionpress.com">arionpress@arionpress.com</a>	415-668-2542		415-668-2550	1802 Hays Street		San Francisco	CA	94129
Bay School of San Francisco	Timothy	Johnson	Head of School	<a href="mailto:tjohnson@bayschoolsf.org">tjohnson@bayschoolsf.org</a>	415-561-5800		415-561-5808	35 Keyes Ave.		San Francisco	CA	94129
Benningfield Financial Advisors	Milo	Benningfield		<a href="mailto:milo@benningfieldadvisors.com">milo@benningfieldadvisors.com</a>	415-561-6688			1016 Lincoln Blvd #1		San Francisco	CA	94129
Consultative Group on Biological Diversity	Cynthia	Lyon		<a href="mailto:cgbd@cgbd.org">cgbd@cgbd.org</a>				1016 Lincoln Blvd		San Francisco	CA	94129
Crissy Field Center	Christy	Rocca		<a href="mailto:crocca@parksconservancy.org">crocca@parksconservancy.org</a>	415-561-7690		415-561-7695	603 Mason at Halleck		San Francisco	CA	94129
Disney Museum	Nancy	Wolf	Director of Facilities & Operations	<a href="mailto:nwolf@wdfmuseum.org">nwolf@wdfmuseum.org</a>	(415) 345-6802			104 Montgomery Street		San Francisco	CA	94129
Equity Community Builders	Ted	Leser		<a href="mailto:ted@ecbsf.com">ted@ecbsf.com</a>	(415) 272-3847			38 Keyes Ave		San Francisco	CA	94129
Eucalyptus Associates	Vaike	Broderick		<a href="mailto:inbox@eucalyptusassoc.com">inbox@eucalyptusassoc.com</a>	(415) 561-3346			567 Ruger Street		San Francisco	CA	94129
Farallones National Marine Sanctuary	Mary Jane	Schramm		<a href="mailto:maryjane.schramm@noaa.gov">maryjane.schramm@noaa.gov</a>				991 Marine Drive		San Francisco	CA	
First Republic Bank				<a href="mailto:drounsaville@firstrepublic.com">drounsaville@firstrepublic.com</a>	(415) 561-2988		(415) 561-3988	210 Lincoln Blvd		San Francisco	CA	94129
The Garden Conservancy				<a href="mailto:wprog@gardenconservancy.org">wprog@gardenconservancy.org</a>	415-441-4300			38 Keyes Ave	Suite 106	San Francisco	CA	94129
The Grove Consultants	Noel	Snow		<a href="mailto:noel_snow@grove.com">noel_snow@grove.com</a>	415.561.2500			1000 Oreilly Ave		San Francisco	CA	94129
Geographic Expeditions	Scott	Montgomery		<a href="mailto:scott@geoex.com">scott@geoex.com</a>	(415) 922-0448			1008 General Kennedy		San Francisco	CA	94129
House of Air	Paul	McGeehan		<a href="mailto:pmcgeehan@yahoo.com">pmcgeehan@yahoo.com</a>				926 Mason Street		San Francisco	CA	94129
Interfaith Center	Paul	Chaffer		<a href="mailto:paul@interfaith-presidio.org">paul@interfaith-presidio.org</a>				130 Fisher Loop		San Francisco	CA	94129
International Forum on Globalization	Anju	Palta		<a href="mailto:apalta@ifg.org">apalta@ifg.org</a>	(415) 561-7650			1009 General Kennedy #2		San Francisco	CA	94129
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KW Hospitality Group	Kirke	Wrench		<a href="mailto:kirke@wrenchusa.com">kirke@wrenchusa.com</a>	(415) 517-0870			38 Keyes Avenue	Suite 117	San Francisco	CA	94129
La Petite Baleen	Christina	Loeffler		<a href="mailto:christina@swimlpb.com">christina@swimlpb.com</a>				933 Mason Street				
Lawers for Clean Water Inc.	Meghan	Strauss		<a href="mailto:meghan@lawyersforcleanwater.com">meghan@lawyersforcleanwater.com</a>				1004 A O'Reilly Ave		San Francisco	CA	94129
LENS Ventures	Jennifer	Blevins		<a href="mailto:jennifer@lensventures.com">jennifer@lensventures.com</a>	415-370-8264			5B Funston		San Francisco	CA	94129
Letterman Digital Arts Center	Cathy	Frazier		<a href="mailto:cathy.frazier@lucasfilm.com">cathy.frazier@lucasfilm.com</a>				One Letterman Drive		San Francisco	CA	94129
Neighborhood Association for Presidio Planning (NAPP)	Judith	Hulka	President	<a href="mailto:hulka@earthlink.net">hulka@earthlink.net</a>	(415) 474-2466							
Net Power and Light	Stephanie	Chew		<a href="mailto:stephanie@netpowerandlight.com">stephanie@netpowerandlight.com</a>	4155633350					San Francisco	CA	94129
Pacific Union	Mary	Craig		<a href="mailto:marycraig@pacificunionco.com">marycraig@pacificunionco.com</a>	(415) 845-4002			C Letterman Drive	Suite 300	San Francisco	CA	94129
Planet Granite	Jeff	Ceccacci		<a href="mailto:jeff@planetgranite.com">jeff@planetgranite.com</a>	415-692-3434			924 Mason Street		San Francisco	CA	94129
pMDsoft Inc.	Sbahrmi			<a href="mailto:support@pmdsoft.com">support@pmdsoft.com</a>				11 Funston Ave	Suite A	San Francisco	CA	94129
Presidio Chapel	Sandra	Pilon		<a href="mailto:sandi@interfaith-presidio.org">sandi@interfaith-presidio.org</a>	415 561 3930			130 Fisher Loop Dr		San Francisco	CA	94129
Presidio YMCA	Robert	Sindelar	Executive Director	<a href="mailto:rsindelar@ymcasf.org">rsindelar@ymcasf.org</a>	(415) 447-9601			63 Funston Avenue		San Francisco	CA	94129
Presidio Sport & Medicine	Chris	Chorak	Owner	<a href="mailto:chris@presidiosport.com">chris@presidiosport.com</a>	415.561.6655			PO Box 470607	1162 B Gorgas Avenue	San Francisco	CA	94147
Presidio Fitness	Megan	Driscoll	Owner	<a href="mailto:megandriscoll@yahoo.com">megandriscoll@yahoo.com</a>	(415) 563-1815			222 Halleck Street		San Francisco	CA	94129
Presidio Golf Course	Jamie	Miller	PGA General Manager	<a href="mailto:jmiller@palmgolf.com">jmiller@palmgolf.com</a>	(415) 561-4661 x206		(415) 561-4667	300 Finley Road @ Arguello Gate		San Francisco	CA	94129
RSF Social Finance	Caitlin	Peerson		<a href="mailto:caitlin.peerson@rfsocialfinance.org">caitlin.peerson@rfsocialfinance.org</a>	(415) 561-6163			1002 Oreilly		San Francisco	CA	94129
SF Green Clean	Bill	Alber		<a href="mailto:bill@wfaber.com">bill@wfaber.com</a>	(415) 515-5700			222 Halleck Street		San Francisco	CA	94129
San Francisco Film Centre	Jessica	Moss		<a href="mailto:jessica@sffilmcentre.com">jessica@sffilmcentre.com</a>	(415) 561-3456			39 Mesa Street, Suite 107		San Francisco	CA	94129
San Francisco National Cemetary	Kathy	McCall		<a href="mailto:kathleen.mccall@va.gov">kathleen.mccall@va.gov</a>	(650) 589-7737	(650) 222-2841	(650) 873- 6578	1 Lincoln Blvd.		San Francisco	CA	94129
The Serra Preschool	Marybeth	Cody		<a href="mailto:marybeth@theserrapreschool.com">marybeth@theserrapreschool.com</a>	(415) 561-2200		(415) 561-2201	#7 Building	Funston Ave	San Francisco	CA	94129
Sports Basement	David	Rumberg		<a href="mailto:drumberg@sportsbasement.com">drumberg@sportsbasement.com</a>	(415) 286-3674			610 Old Mason St		San Francisco	CA	94129
Sports Basement	Andrew	Gregg	Consultant Representing	<a href="mailto:andrewTgregg@mac.com">andrewTgregg@mac.com</a>	415.577.4059			610 Old Mason St		San Francisco	CA	94129
Sports Basement	Jared	Ingraham		<a href="mailto:jingraham@sportsbasement.com">jingraham@sportsbasement.com</a>	415.437.0100 x 7168		415.561.4535	610 Old Mason St		San Francisco	CA	94129
Tides Foundation	Pauline	Vela		<a href="mailto:pvela@tides.org">pvela@tides.org</a>	(415) 561-7351			1014 Torney Ave		San Francisco	CA	94129
Triporati, Inc.	Patrick	Middleton		<a href="mailto:pat@triporati.com">pat@triporati.com</a>	(415) 203-0944			106 Lincoln Blvd		San Francisco	CA	94129
Uban Watershed Project	Doug	Kern		<a href="mailto:dkern@kernsite.com">dkern@kernsite.com</a>	(415) 561-4857			Bldg. 204, Rm. 200C		San Francisco	CA	94129
Presidio Nursery	Betty	Young	Director of Facilities & Operations	<a href="mailto:Byoung@ParksConservancy.org">Byoung@ParksConservancy.org</a>	415-561-4860	415-497-5671		Building 201	Fort Mason	San Francisco	CA	94123

Golden Gate Bridge Transportation Management Plan Contact List  
Senior Services

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Marin												
Acclaim Home Care				<a href="mailto:postoffice@acclaimhomecare.com">postoffice@acclaimhomecare.com</a>	<a href="http://www.acclaimhomecare.com">www.acclaimhomecare.com</a>	415-479-5125	415-479-5196 (f)	4340 Redwood Highway A1	Formerly Marin Community Healthcare	San Rafael	CA	94903
Advocate Home Care				<a href="mailto:admin@advocatehomecare.net">admin@advocatehomecare.net</a>	<a href="http://www.advocatehomecare.net">www.advocatehomecare.net</a>	415-332-3770	415-332-3780 (f)	80 Liberty Ship Way	Suite 23	Sausalito	CA	94965
Aegis of San Rafael				<a href="mailto:sanrafael@aegisliving.com">sanrafael@aegisliving.com</a>	<a href="http://www.aegisliving.com/aegis-living-of-san-rafael/">http://www.aegisliving.com/aegis-living-of-san-rafael/</a>	415-578-5611	415-472-3969 (f)	111 Merrydale Road		San Rafael	CA	94903
Aging/Older Adult Services in Marin County				<a href="mailto:divisionofaging@co.marin.ca.us">divisionofaging@co.marin.ca.us</a>								
Aldersly Garden Retirement Community				<a href="mailto:gigileh@aldersly.com">gigileh@aldersly.com</a>	<a href="http://www.aldersly.com">www.aldersly.com</a>	415-453-9271		326 Mission Avenue		San Rafael	CA	94901
AlmaVia of San Rafael at Faith Center				<a href="mailto:info@almaviaoofsanrafael.org">info@almaviaoofsanrafael.org</a>	<a href="http://www.almaviaoofsanrafael.org">www.almaviaoofsanrafael.org</a>	415-491-1900	415-491-1910 (f)	515 Northgate Drive		San Rafael	CA	94903
Alzheimer's Association - Marin Chapter				<a href="mailto:info@alznorcal.org">info@alznorcal.org</a>	<a href="http://www.alz.org/norcal">www.alz.org/norcal</a>	415-472-4340		4340 Redwood Highway	Suite D314	San Rafael	CA	94903
American Society on Aging				<a href="mailto:info@asaging.org">info@asaging.org</a>	<a href="http://www.asaging.org">www.asaging.org</a>			71 Stevenson Street	Suite 1450	San Francisco	CA	94105-2938
Atria Tamalpais Creek				<a href="mailto:Amy.Schuster@atriaseniiorliving.com">Amy.Schuster@atriaseniiorliving.com</a>	<a href="http://www.atriaseniiorliving.com/">http://www.atriaseniiorliving.com/</a>	415-892-0944		853 Tamalpais Avenue		Novato	CA	94947
Buck Institute for Age Research				<a href="mailto:info@buckinstitute.org">info@buckinstitute.org</a>	<a href="http://www.buckinstitute.org">www.buckinstitute.org</a>	415-209-2000	415-899-1810 (f)	8001 Redwood Boulevard		Novato	CA	94945
Care Giver Staffing				<a href="mailto:care@caregiverstaffing.com">care@caregiverstaffing.com</a>	<a href="http://www.caregiverstaffing.com">www.caregiverstaffing.com</a>	415-397-2727		140 Hidden Valley Lane		San Anselmo	CA	94960
Care Solutions for Elders				<a href="mailto:tina@caresolutionsforelders.com">tina@caresolutionsforelders.com</a>	<a href="http://www.caresolutionsforelders.com">www.caresolutionsforelders.com</a>	415-456-3439	415-789-4373 (f)	524 San Anselmo Avenue	Suite 217	San Anselmo	CA	94960
Comfort Keepers				<a href="mailto:vincemaffeo@comfortkeepers.com">vincemaffeo@comfortkeepers.com</a>	<a href="http://www.comfortkeepers.com">www.comfortkeepers.com</a>	415-884-2286		4040 Civic Center Drive	Suite 220	San Rafael	CA	94901
Design Benefits/Medi-Cal Consultants				<a href="mailto:designbenefits@gmail.com">designbenefits@gmail.com</a>	<a href="http://www.designbenefits.info/">http://www.designbenefits.info/</a>	800-728-6646	707-795-2292 (f)	2050 Vineyard Road		Novato	CA	94947
Drake Terrace Retirement Community				<a href="mailto:Cheri.Drees@kiscosl.com">Cheri.Drees@kiscosl.com</a>	<a href="http://www.kiscoseniiorliving.com">www.kiscoseniiorliving.com</a>	415-491-1935	415-491-1703 (f)	275 Los Ranchitos Road		San Rafael	CA	94903
EAH Housing				<a href="mailto:info@eahousing.org">info@eahousing.org</a>	<a href="http://www.eahousing.org">www.eahousing.org</a>	415-258-1800	415-453-4927 (f)	2169 E. Francisco Boulevard	Suite B	San Rafael	CA	94901
Eldercare Specialists - Geriatric Care Managers				<a href="mailto:lynn@elderspecialists.com">lynn@elderspecialists.com</a>	<a href="http://www.elderspecialists.com">www.elderspecialists.com</a>	415-259-4864	415-259-6498 (f)	1300 South Eliseo	Suite 203	Greenbrae	CA	94904
Elder Financial Protection Network (EFPN)				<a href="mailto:info@bewiseonline.org">info@bewiseonline.org</a>	<a href="http://www.bewiseonline.org">www.bewiseonline.org</a>	415-956-5556		550 Montgomery Street	Suite 485	San Francisco	CA	94111
Engage As You Age				<a href="mailto:info@engageasyouage.com">info@engageasyouage.com</a>	<a href="http://www.engageasyouage.com">www.engageasyouage.com</a>	415-690-6944	415-541-8588 (f)	275 5th Street	Suite 201	San Francisco	CA	94103
Everyday Bills				<a href="mailto:craig@caregiver.org">craig@caregiver.org</a>	<a href="http://www.everydaybillsonline.com">www.everydaybillsonline.com</a>	415-320-3394		633 Tamalpais Avenue		Novato	CA	94947
Family Caregiver Alliance				<a href="mailto:info@caregiver.org">info@caregiver.org</a>	<a href="http://www.caregiver.com">www.caregiver.com</a>	415-434-3388		690 Market Street	Suite 600	San Francisco	CA	94904
First Choice Home Care, LLC				<a href="mailto:info@firstchoicecal.com">info@firstchoicecal.com</a>	<a href="http://www.firstchoicecal.com">www.firstchoicecal.com</a>	415-295-1565	415-329-1616 (f)	369 B Third Street	#137	San Rafael	CA	94901
Hired Hands Homecare				<a href="mailto:info@HiredHandsHomecare.com">info@HiredHandsHomecare.com</a>	<a href="http://www.HiredHandsHomecare.com">www.HiredHandsHomecare.com</a>	415-884-4343	415-884-4334 (f)	10 Commercial Boulevard	Suite 102	Novato	CA	94949
Home Instead Senior Care				<a href="mailto:todd.vaughan@homeinstead.com">todd.vaughan@homeinstead.com</a>	<a href="http://www.homeinstead.com/255">www.homeinstead.com/255</a>	415-883-6260	415-883-0200 (f)	350 Ignacio Boulevard	Suite 101	Novato	CA	94949
HomeWell Senior Care				<a href="mailto:info@homewellnorthbay.com">info@homewellnorthbay.com</a>	<a href="http://www.homewellnorthbay.com">www.homewellnorthbay.com</a>	415-599-4333	415-948-2064 (f)	300 Professional Center Dr	Suite 324	Novato	CA	94947
Institute on Aging				<a href="mailto:info@ioaging.org">info@ioaging.org</a>	<a href="http://www.ioaging.org">www.ioaging.org</a>	415-456-8692		1005 A Street	#207	San Rafael	CA	94901
Jewish Family & Children's Services				<a href="mailto:marin@jfcs.org">marin@jfcs.org</a>	<a href="http://www.jfcs.org">www.jfcs.org</a>	415-491-7960	415-491-7958 (f)	600 Fifth Avenue		San Rafael	CA	94901
LITA (Love is the Answer)				<a href="mailto:litamarin@sbcglobal.net">litamarin@sbcglobal.net</a>	<a href="http://www.litamarin.org">www.litamarin.org</a>	415-472-5482	415-472-4965	4340 Redwood Highway	#101	San Rafael	CA	94903
Margarita C. Johnson Senior Center				<a href="mailto:marincitycsd@gmail.com">marincitycsd@gmail.com</a>	<a href="http://www.marin.org">www.marin.org</a>	415-332-9323	415-332-3914 (f)	640 Drake Avenue		Marin City	CA	94965
Marin County Commission on Aging				<a href="mailto:glara@marincounty.org">glara@marincounty.org</a>		415-499-7396		10 North San Pedro Road	Suite 1012	San Rafael	CA	94903
Margaret Todd Senior Center				<a href="mailto:PRCS@novato.org">PRCS@novato.org</a>	<a href="http://www.cityofnovato.org">www.cityofnovato.org</a>	415-899-8290		1560 Hill Road		Novato	CA	94947
Novato Human Needs Center				<a href="mailto:nhnc-info@nhnc.org">nhnc-info@nhnc.org</a>	<a href="http://www.nhnc.org">www.nhnc.org</a>	415-897-4147	415-897-7171 (f)	1907 Novato Boulevard		Novato	CA	94947
Precious Home Companion				<a href="mailto:carol@precioushome.com">carol@precioushome.com</a>	<a href="http://www.precioushome.com">www.precioushome.com</a>	415-459-0237	1-866-519-0045 (f)	4040 Civic Center Drive	Suite 200	San Rafael	CA	94903
Ross Valley Ecumenical Housing Association				<a href="mailto:rveha@comcast.net">rveha@comcast.net</a>	<a href="http://www.tamhouse.org">www.tamhouse.org</a>	415-457-5633		34 Tamalpais Avenue	& 61 Woodland Ave	San Anselmo	CA	94979
Senior At Home				<a href="mailto:Info@SeniorsAtHome.org">Info@SeniorsAtHome.org</a>	<a href="http://www.SeniorsAtHome.org">www.SeniorsAtHome.org</a>	415-449-3777		600 Fifth Avenue		San Rafael	CA	94901
Geriatric Care Management and Consultation				<a href="mailto:Laureletheridge@verizon.net">Laureletheridge@verizon.net</a>		415-640-0236	415-737-1374 (f)			Novato	CA	94945
Health Care Connection LLC				<a href="mailto:contact@healthcareconnectionllc.com">contact@healthcareconnectionllc.com</a>		415-457-2256	415-457-3256 (f)	1363 Lincoln Avenue	#4	San Rafael	CA	94901
Heart & Soul Care Management & Consulting				<a href="mailto:caremanager@vom.com">caremanager@vom.com</a>	<a href="http://www.heartsoulcare.com">www.heartsoulcare.com</a>	707-490-6576	707-523-1001 (f)	926A Diablo Avenue	#111	Novato	CA	94947
Living Well - Assisted Living at Home				<a href="mailto:info@LivingWellALAH.com">info@LivingWellALAH.com</a>	<a href="http://www.LivingWellALAH.com">www.LivingWellALAH.com</a>	1-800-805-7104		202 Donahue Street		Sausalito	CA	94965
North Bay Eldercare Options				<a href="mailto:info@NorthBayEldercare.com">info@NorthBayEldercare.com</a>	<a href="http://www.NorthBayEldercare.com">www.NorthBayEldercare.com</a>	415-460-6333	415-329-2101	145 Town Center	#414	Corte Madera	CA	94925
The Redwoods				<a href="mailto:dbolton@theredwoods.org">dbolton@theredwoods.org</a>	<a href="http://www.theredwoods.org">www.theredwoods.org</a>	415-383-2741	415-383-0115 (f)	40 Camino Alto		Mill Valley	CA	94941
Senior Access				<a href="mailto:info@senioraccess.org">info@senioraccess.org</a>	<a href="http://www.senioraccess.org">www.senioraccess.org</a>	415-491-2500	415-491-2503 (f)	70 Skyview Terrace	Building B	San Rafael	CA	94903
Special Needs Companion Services				<a href="mailto:info@sncslc.com">info@sncslc.com</a>		415-435-1262	415-435-0421 (f)	1120 Mar West	Suite C	Tiburon	CA	94920
Special Needs Nursing, Inc.				<a href="mailto:infor@sncslc.com">infor@sncslc.com</a>	<a href="http://www.sncslc.com">www.sncslc.com</a>	415-435-2482	415-435-0421 (f)	1120 Mar West	Suite C	Tiburon	CA	94920
Smith Ranch Homes				<a href="mailto:sales@smithranchhomes.com">sales@smithranchhomes.com</a>	<a href="http://www.smithranchhomes.com">www.smithranchhomes.com</a>	415-491-4918	415-491-0254 (f)	400 Deer Valley Road		San Rafael	CA	94903
Respecting Our Elders, Inc.				<a href="mailto:info@respectingourelders.org">info@respectingourelders.org</a>	<a href="http://respectingourelders.org/">http://respectingourelders.org/</a>	415-483-4025	415-883-4773 (f)	PO Box 244		Novato	CA	94948-0244
Village Oduduwa				<a href="mailto:villageoduduwa@gmail.com">villageoduduwa@gmail.com</a>		415-332-2100	415-332-2385 (f)	2 Park Circle		Marin City	CA	94965
Villa Marin	Robert	Stivers	Independent On-site Broker	<a href="mailto:rstiversvilla-marin@gmail.com">rstiversvilla-marin@gmail.com</a>	<a href="http://www.villa-marin.com">www.villa-marin.com</a>	415-492-2408	415-492-2673 (f)	100 Thorndale Drive		San Rafael	CA	94903
West Marin Senior Services	Charles	Gompertz	President	<a href="mailto:cynthia@wmss.org">cynthia@wmss.org</a>	<a href="http://www.wmss.org">www.wmss.org</a>	415-663-8148	415-663-1268 (f)	11435 State Route One		Point Reyes	CA	94956
Whitecaps of Bolinas and Stinson Beach				<a href="mailto:pres@whitecapsbsb.org">pres@whitecapsbsb.org</a>	<a href="http://www.whitecapsbsb.org">www.whitecapsbsb.org</a>	415-868-1613		PO Box 411		Bolinas	CA	94924
Whistlestop	Terry	Scussel	General Manager of Transportation	<a href="mailto:tsussel@whistlestop.org">tsussel@whistlestop.org</a>	<a href="http://www.whistlestop.org">www.whistlestop.org</a>	415-456-9062	415-456-2858 (f)	930 Tamalpais Avenue		San Rafael	CA	94901

Golden Gate Bridge Transportatin Management Plan Contact List  
Senior Services

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
Sonoma												
Southwest Adult Day Services				<a href="mailto:janiced@srhealthcenters.org">janiced@srhealthcenters.org</a>	<a href="http://www.swhealthcenter.org">www.swhealthcenter.org</a>	707-573-4522		684 Benicia Drive		Santa Rosa	CA	95409
Bella Vista Villages Senior Residential Care				<a href="mailto:Mt25p@aol.com">Mt25p@aol.com</a>	<a href="http://www.calqualitycare.org">www.calqualitycare.org</a>	707-433-6161		209 Matheson Street		Healdsburg	CA	95448
Brookdale Place of Chanate	Scott	Carlson	Executive Director	<a href="mailto:scarlson1@brookdaleliving.com">scarlson1@brookdaleliving.com</a>	<a href="http://www.brookdaleliving.com">www.brookdaleliving.com</a>	707-575-7503		3250 Chanate Road		Santa Rosa	CA	95404
Catholic Charities Alzheimer's Respite Center				<a href="mailto:info@sebastopolseiorcenter.org">info@sebastopolseiorcenter.org</a>	<a href="http://www.sebastopolseiorcenter.org">www.sebastopolseiorcenter.org</a>	707-829-2440		167 High St		Sebastopol	CA	95472
Catholic Charities of the Diocese of Santa Rosa	Chuck	Fernandez	Executive Director	<a href="mailto:cfernandez@srcharities.org">cfernandez@srcharities.org</a>	<a href="http://www.srcharities.org">www.srcharities.org</a>	707-528-8712		987 Airway Court,		Santa Rosa	CA	95403
Chancellor Place of Windsor	Steven	Harms	Executive Director	<a href="mailto:sharms@brookdaleliving.com">sharms@brookdaleliving.com</a>	<a href="http://www.brookdaleliving.com">www.brookdaleliving.com</a>	707-837-8785		907 Adele Drive		Windsor	CA	95492
Clover Springs Community Association	Donna	Hollingsworth		<a href="mailto:cscsoffice@sbcglobal.net">cscsoffice@sbcglobal.net</a>	<a href="http://www.clover-springs.org">www.clover-springs.org</a>	707-894-8770		210 Red Mountain Drive		Cloverdale	CA	95425
Council on Aging	Marianne	McBride	President	<a href="mailto:mmcbride@councilonaging.com">mmcbride@councilonaging.com</a>	<a href="http://www.sonoma-county.org">www.sonoma-county.org</a>	707-565-5970		30 Kawana Springs Rd		Santa Rosa	CA	95403
Friends House	Travis	Staples	Interim Executive Director	<a href="mailto:tstaples@retirement.org">tstaples@retirement.org</a>	<a href="http://www.friendshouse.org/contact-us/">http://www.friendshouse.org/contact-us/</a>	707-538-0152		684 Benicia Drive		Santa Rosa	CA	95409
Healdsburg Senior Center	Diane	Spain	Director of Senior Services	<a href="mailto:diane.spain@community-family-services.org">diane.spain@community-family-services.org</a>	<a href="http://www.westcountyservices.org">www.westcountyservices.org</a>	707-869-0618		15010 Armstrong Woods Road		Guerneville	CA	95446
Healdsburg Senior Living Community	Rob	Matthews	Administrator	<a href="mailto:rmatthews@avalonhnci.com">rmatthews@avalonhnci.com</a>	<a href="http://www.avalonhnci.com">www.avalonhnci.com</a>	707-433-4877		725 Grove Street		Healdsburg	CA	95448
Jewish Family & Children's Services	Diana	Klein	Executive Director	<a href="mailto:DianaK@jfcc.org">DianaK@jfcc.org</a>	<a href="http://www.jfcc.org">www.jfcc.org</a>	707-571-8533		1360 North Dutton Avenue	Suite C	Santa Rosa	CA	95401
Lodge at Paulin Creek	Randy	Bissell	Executive Director	<a href="mailto:rbissell@brookdaleliving.com">rbissell@brookdaleliving.com</a>	<a href="http://www.brookdaleliving.com">www.brookdaleliving.com</a>	707-575-3722		2375 Range Avenue		Santa Rosa	CA	95403
MSSP-Multipurpose Senior Services Program, Adult and Aging Division	Liz	Claret	Care Manager	<a href="mailto:lclaret@schsd.org">lclaret@schsd.org</a>	<a href="http://www.sonoma-county.org/human/mssp.htm#work">http://www.sonoma-county.org/human/mssp.htm#work</a>	707-565-5970		P.O. Box 4059		Santa Rosa	CA	95402
Merrill Gardens at Rohnert Park	Colleen	Kabeary	General Manager	<a href="mailto:gm.rohnertpark@merrillgardens.com">gm.rohnertpark@merrillgardens.com</a>	<a href="http://www.merrillgardens.com/p/senior_living/news_store_3253/rohnert-park-ca-94928/rohnart-park-3253">http://www.merrillgardens.com/p/senior_living/news_store_3253/rohnert-park-ca-94928/rohnart-park-3253</a>	707-623-1917		4855 Snyder Lane		Rohnert Park	CA	94928
Merrill Gardens at Sonoma	Joseph	Sarto	General Manager	<a href="mailto:gm.sonoma@merrillgardens.com">gm.sonoma@merrillgardens.com</a>	<a href="http://www.merrillgardens.com/senior_living/Sonoma_CA/zip_95476/merrill_gardens/3258">http://www.merrillgardens.com/senior_living/Sonoma_CA/zip_95476/merrill_gardens/3258</a>	707-931-4863		800 Oregon Street		Sonoma	CA	95476
Oakmont Gardens Senior Living					<a href="http://mbksenioreliving.com">http://mbksenioreliving.com</a>	(707) 585-7878		301 White Oak Drive		Santa Rosa	CA	95409
Petaluma People Services Center	Elece	Hempel	Executive Director	<a href="mailto:admin@petalumapeople.org">admin@petalumapeople.org</a>	<a href="http://www.petalumapeople.org/about.htm">http://www.petalumapeople.org/about.htm</a>	707-765-8488		1500 A Petaluma Boulevard S		Petaluma	CA	94952
PEP Housing (Petaluma Ecumenical Properties)	Mary	Stompe	Executive Director	<a href="mailto:pep@pephousing.org">pep@pephousing.org</a>	<a href="http://www.pephousing.org/">http://www.pephousing.org/</a>	707-762-2336		951 Petaluma Boulevard South		Petaluma	CA	94952
Petaluma Senior Center	Don	Streeper	Director	<a href="mailto:dstreeper@ci.petaluma.ca.us">dstreeper@ci.petaluma.ca.us</a>		707-778-4349		211 Novak Drive		Petaluma	CA	94954
Primrose Living With Memory Loss	John	Wotring	Director	<a href="mailto:jjw@primrosealz.com">jjw@primrosealz.com</a>	<a href="http://www.primrosealz.com/">http://www.primrosealz.com/</a>	(707) 578-8360		2080 Guerneville Road		Santa Rosa	CA	95403
Rohnert Park Senior Center	Jessica	Schieberl	Community Services Specialist	<a href="mailto:jschieberl@rpcity.org">jschieberl@rpcity.org</a>	<a href="http://www.ci.rohnert-park.ca.us/index.aspx?page=138">www.ci.rohnert-park.ca.us/index.aspx?page=138</a>	707-585-6780		6800 Hunter Drive, Suite A		Rohnert Park	CA	94928
Seniors, Inc.	Barbara	Holms	President		<a href="http://www.santarosa-seniorcenter.org/">http://www.santarosa-seniorcenter.org/</a>	707-542-1228		1208 Fourth Street		Santa Rosa	CA	95404
Sebastopol Area Senior Center	Terry	Kelley	Executive Director	<a href="mailto:terry@sebastopolseiorcenter.org">terry@sebastopolseiorcenter.org</a>	<a href="http://www.sebastopol-seniorcenter.org/">http://www.sebastopol-seniorcenter.org/</a>	707-829-2440		167 North High Street		Sebastopol	CA	95472
Sebastopol Community Cultural Center				<a href="mailto:retire@valleyorchards.com">retire@valleyorchards.com</a>	<a href="http://www.ValleyOrchards.com">www.ValleyOrchards.com</a>	(707) 778-6030		2100 E. Washington Street		Petaluma	CA	94954
Sebastopol Senior Day Services				<a href="mailto:JClark@jtm-esc.org">JClark@jtm-esc.org</a>	<a href="http://www.jtm-esc.org">www.jtm-esc.org</a>	(707) 579-6949		5555 Montgomery Drive		Santa Rosa	CA	95409
Senior Advocacy Services	Annette	Lerdahl	President		<a href="http://www.senioradvocacyservices.org">www.senioradvocacyservices.org</a>	707-526-4108		3262 Airway Drive	Suite C	Santa Rosa	CA	95103
Sonoma County In-Home Supportive Services				<a href="mailto:information@councilonaging.com">information@councilonaging.com</a>	<a href="http://www.councilonaging.com">www.councilonaging.com</a>	707-525-0143		30 Kawana Springs Rd		Santa Rosa	CA	95404
Sonoma Hills	Allegra	Wilson		<a href="mailto:awilson@schsd.org">awilson@schsd.org</a>	<a href="http://sonoma-county.org/human/ihs.htm#contact">http://sonoma-county.org/human/ihs.htm#contact</a>	707-565-5900		3725 Westwind Boulevard		Santa Rosa	CA	95403
Sonoma Hills Retirement Living	Bert	Lombino	Executive Director	<a href="mailto:blombino@platinumsenioreliving.com">blombino@platinumsenioreliving.com</a>	<a href="http://sonomaretirement.com">sonomaretirement.com</a>	707-939-7856		405 West Mac Arthur		Sonoma	CA	95476
Spring Lake Village					<a href="http://www.springlakevillage-esc.org/contact.html">http://www.springlakevillage-esc.org/contact.html</a>	707-578-8400		5555 Montgomery Drive		Santa Rosa	CA	95409
Springfield Place	Tony	Montellano	General Manager	<a href="mailto:tmontellano@leisurecare.com">tmontellano@leisurecare.com</a>	<a href="http://www.leisurecare.com/springfieldplace/">http://www.leisurecare.com/springfieldplace/</a>	707-769-3300		101 Ely Boulevard South		Petaluma	CA	94954
The Lodge at Paulin Creek				<a href="mailto:Mt25p@aol.com">Mt25p@aol.com</a>	<a href="http://www.sonomaresidentialcare.com">www.sonomaresidentialcare.com</a>	707-483-0998		18941 Sonoma Highway		Sonoma	CA	95476
Tree Haven Estates					<a href="http://www.sonomaretirement.com">www.sonomaretirement.com</a>	707-939-7856		405 W. MacArthur		Sonoma	CA	95476
Valley Orchards				<a href="mailto:Mt25p@aol.com">Mt25p@aol.com</a>	<a href="http://www.sonomaresidentialcare.com">www.sonomaresidentialcare.com</a>	707-833-6201		359 Tree Haven Ln		Kenwood	CA	95452
Vineyard Commons at Fountaingrove				<a href="mailto:info@vintagehouse.org">info@vintagehouse.org</a>	<a href="http://www.holidaytouch.com">www.holidaytouch.com</a>	707-206-7791		3585 Round Barn Boulevard		Santa Rosa	CA	95403
Vintage Brush Creek	Cindy	Wood	Executive Director	<a href="mailto:cindy.wood@vintagesenior.com">cindy.wood@vintagesenior.com</a>	<a href="http://www.vintagesenior.com">www.vintagesenior.com</a>	707-703-1057		4225 Wayvern Drive		Santa Rosa	CA	95409
Vintage House Senior Center				<a href="mailto:cynthia@vintagehouse.org">cynthia@vintagehouse.org</a>	<a href="http://www.calqualitycare.org">www.calqualitycare.org</a>	707-935-0850		264 First St. East		Sonoma	CA	95476
Vintage Sonoma	David	Hahklotubbe	Executive Director	<a href="mailto:david.hahklotubbe@vintagesenior.com">david.hahklotubbe@vintagesenior.com</a>	<a href="http://www.vintagesenior.com">www.vintagesenior.com</a>	707-931-4857		91 Napa Road		Sonoma	CA	95476
West County Senior Services Center	Diane	Spain	Director of Senior Services	<a href="mailto:diane.spain@community-family-services.org">diane.spain@community-family-services.org</a>	<a href="http://www.westcountyservices.org">www.westcountyservices.org</a>	707-869-0618		15010 Armstrong Woods Road		Guerneville	CA	95446

**Golden Gate Bridge Transportatin Management Plan Contact List  
Senior Services**

Affiliation	First name	Last name	Title	Email	Website	Phone	Alternative Phone	Address Line 1	Address Line 2	City	St	Zip
San Francisco												
Canon Kip Senior Center	Phil	Clark	Education and Employment	<a href="mailto:pclark@ecs-sf.org">pclark@ecs-sf.org</a>		415-487-3370		705 Natoma at 8th Street		San Francisco	CA	94103
Self-Help for the Elderly				<a href="mailto:info@selfhelpelderly.org">info@selfhelpelderly.org</a>	<a href="http://www.selfhelpelderly.org/index.php">http://www.selfhelpelderly.org/index.php</a>	415-677-7600		407 Sansome Street		San Francisco	CA	94111
30th Street Senior Center	Valorie	Villela	Director	<a href="mailto:30thStSeniorServices@onlok.org">30thStSeniorServices@onlok.org</a>	<a href="http://www.onlok.org/30thStreetSeniorCenter.aspx">http://www.onlok.org/30thStreetSeniorCenter.aspx</a>	415-550-2210		225 30th Street	3rd Floor	San Francisco	CA	94131
OMI Catholic Charities				<a href="mailto:moreinfo@cccyo.org">moreinfo@cccyo.org</a>	<a href="http://community.cccyo.org/page.aspx?pid=355">http://community.cccyo.org/page.aspx?pid=355</a>	415-334-5550		65 Beverly Street		San Francisco	CA	94132
Independent Living Resource Center (ILRCFS)				<a href="mailto:info@ilrcsf.org">info@ilrcsf.org</a>	<a href="http://www.ilrcsf.org/">http://www.ilrcsf.org/</a>	415-543-6318		649 Mission St. 3rd FL.		San Francisco	CA	94105
Bayview Hunters Point Multi-Purpose Senior Citizens Center	Cathy	Davis	Executive Director	<a href="mailto:bhpmss1@aol.com">bhpmss1@aol.com</a>	<a href="http://bhpmss.org/">http://bhpmss.org/</a>	415-822-1444		1706 Yosemite		San Francisco	CA	94124
SF Senior Center-Downtown Branch	Georgeann	Lang	Business Office Manager	<a href="mailto:glang@ncphs.org">glang@ncphs.org</a>	<a href="http://www.sfsejior.com/">http://www.sfsejior.com/</a>	415-771-7950		481 O'Farrell Street		San Francisco	CA	94102
Kimochi				<a href="mailto:kimochikai@kimochi-inc.org">kimochikai@kimochi-inc.org</a>	<a href="http://www.kimochi-inc.org/">http://www.kimochi-inc.org/</a>	415-931-2294		1715 Buchanan Street		San Francisco	CA	94115
Visitacion Valley Senior Center	Julie	Kavanagh	Senior Program Manager		<a href="http://www.vvccsf.org/contact.html">http://www.vvccsf.org/contact.html</a>	415-970-6996		66 Raymond Avenue		San Francisco	CA	94134
Stonestown YMCA	Marietta	Gilman	Administrative Services Director	<a href="mailto:mgilman@ymcasf.org">mgilman@ymcasf.org</a>	<a href="http://www.ymcasf.org/stonestown/">http://www.ymcasf.org/stonestown/</a>	415-242-7100		333 Eucalyptus Drive		San Francisco	CA	94132
Curry Senior Center				<a href="mailto:info@curryseniorcenter.org">info@curryseniorcenter.org</a>	<a href="http://curryseniorcenter.org/">http://curryseniorcenter.org/</a>	415-885-2274		333 Turk Street		San Francisco	CA	94102
Bayanihan Community Center	Glen	Jermyn Andag	Galing Bata Site Coordinator	<a href="mailto:glenjermyn@bayanihancc.org">glenjermyn@bayanihancc.org</a>	<a href="http://www.bayanihancc.org/index.html">http://www.bayanihancc.org/index.html</a>	415-348-8042		1010 Mission Street		San Francisco	CA	94103
Seniors At Home				<a href="mailto:info@seniorsathome.org">info@seniorsathome.org</a>	<a href="http://www.seniorsathome.org">www.seniorsathome.org</a>	415-507-0564						

Golden Gate Bridge Transportation Management Plan Contact List  
 Transportation Tours

Affiliation	First name	Last Name	Title	Email	Phone	Alternative Phone	Fax	Address Line 1	Address Line 2	City	St	Zip
<b>Trucking Companies/Unions</b>												
California Trucking Association	Jim	Beach	CALTRUX Reporter	<a href="mailto:jimbeach@surewest.net">jimbeach@surewest.net</a> ; <a href="mailto:CTA@caltrux.org">CTA@caltrux.org</a>	(916) 782-4246			4148 E. Commerce Way		Sacramento	CA	95834
California Trucking Association	Mike	Kelechava	Bay Area Regional Sale Mgr	<a href="mailto:mkelechava@caltrux.org">mkelechava@caltrux.org</a>	(916) 373-7192			4148 E. Commerce Way		Sacramento	CA	95834
Roadstar Trucking Inc	Charles	Ramorino	President	<a href="mailto:c.ramorino@roadstartruckinginc.com">c.ramorino@roadstartruckinginc.com</a>	(510) 487-2404			30527 San Antonio Street		Hayward	CA	94544
<b>Recreational/Tour Companies San Francisco</b>												
All San Francisco Tours				<a href="mailto:support@thereservationcenter.com">support@thereservationcenter.com</a>	702 233 1627					Las Vegas	NV	
American Passenger Service				<a href="mailto:rpf@charteraps.com">rpf@charteraps.com</a>	(650) 401-6879					San Mateo	CA	94402
American Stage Tours				<a href="mailto:info@americanstagetours.com">info@americanstagetours.com</a>	(925) 687-7705					Concord	CA	
Bauers Intelligent Transportation				<a href="mailto:sales@bauersitf.com">sales@bauersitf.com</a>	(415) 546-6688			Pier 27, The Embarcadero		San Francisco	CA	94111
Bay City Bike	Luidgi			<a href="mailto:luidgi@baycitybike.com">luidgi@baycitybike.com</a>	415-346-2453			2661 Taylor Street	Fisherman's Wharf	San Francisco	CA	
Bay City Bike				<a href="mailto:mgr@baycitybike.com">mgr@baycitybike.com</a>				2661 Taylor Street	Fisherman's Wharf	San Francisco	CA	
Bike and Roll	Darryll	White	President	<a href="mailto:darryll@bicyclerental.com">darryll@bicyclerental.com</a>	415.517.3351			899 Columbus Avenue		San Francisco	CA	94133
Blazing Saddles				<a href="mailto:info@blazingsaddles.com">info@blazingsaddles.com</a>	(415) 202-8888		(415) 929-8687	2715 Hyde Street		San Francisco	CA	94109
Blazing Saddles	Jeff	Sears		<a href="mailto:jeff@blazingsaddles.com">jeff@blazingsaddles.com</a>	415.202.8888			2715 Hyde Street		San Francisco	CA	94109
Blue Heron Custom Tours and Travel				<a href="mailto:Rick@BlueHeronTours.com">Rick@BlueHeronTours.com</a>	(415) 337-1874			275 Staples Avenue		San Francisco	CA	94112
California Nature Tours	David	Schmidt		<a href="mailto:info@CaliforniaNatureTours.com">info@CaliforniaNatureTours.com</a>	415.971.5201			235 Douglass Street		San Francisco	CA	94114
CEO San Francisco Tours and Limo Service				<a href="mailto:tours@ceotours.com">tours@ceotours.com</a>	650-228-1924							
Compass Transportation	Jay	Jeter	General manager	<a href="mailto:jjeter@compasstransportation.net">jjeter@compasstransportation.net</a>	(650) 246-2799			54 Tanforan Avenue		So. San Francisco	CA	94080
Delta Charter Bus				<a href="mailto:info@aplustours.com">info@aplustours.com</a>	(888) 241-8543			PO Box 5547		Stockton	CA	95205
Divine Transportation				<a href="mailto:sales@divinecharter.com">sales@divinecharter.com</a>	(602) 340-0018							
El Camino Trailways				<a href="mailto:info@elcaminotrailways.com">info@elcaminotrailways.com</a>	(650)-989-2600			214 Shaw Road	Suite T	So. San Francisco	CA	94080
Events West				<a href="mailto:info@eventswest.us">info@eventswest.us</a>	(415) 383-1052			PO Box 2271		Mill Valley	CA	94942
Extraneous Tours					415-357-0700			501 Bay Street		San Francisco	CA	94133
F&M Transportation Services				<a href="mailto:fmtransportation@pacbell.net">fmtransportation@pacbell.net</a>	510.798.3713			PO Box 1615		Alameda	CA	94501
Frances Gorman	Frances	Gorman	Travel Director/ Tour Guide	<a href="mailto:francesgorman@gmail.com">francesgorman@gmail.com</a>	(415) 885-0148	(415) 519-0148		2655 Franklin Street	No 4	San Francisco	CA	94123
GoCar	David			<a href="mailto:David.c@gocartours.com">David.c@gocartours.com</a>	415-441-5695			2715 Hyde Street		San Francisco	CA	94109
GoCar	Adam	Hiels		<a href="mailto:adamedward12@gmail.com">adamedward12@gmail.com</a>	(415) 218-6664			2715 Hyde Street		San Francisco	CA	94109
Golden Horizon Travel				<a href="mailto:info@goldenhorizontravel.com">info@goldenhorizontravel.com</a>	800-210-3008			101 California Street	Suite 2450	San Francisco	CA	94111
Gray Line				<a href="mailto:info@graylinesanfrancisco.com">info@graylinesanfrancisco.com</a>	(415) 434-8687					San Francisco	CA	
Harvest Vacation				<a href="mailto:harvestvacation@yahoo.com">harvestvacation@yahoo.com</a>	650-588-3838			PO BOX 320460		San Francisco	CA	94132
Honey Tour Company				<a href="mailto:honeytours@comcast.net">honeytours@comcast.net</a>	707-583-4981					Sonoma	CA	
Hop-On Hop-Off San Francisco Double-Decker Tour					702-233-1627							
Incredible Adventures				<a href="mailto:info@incadventures.com">info@incadventures.com</a>	415.642.7378			765 Pennsylvania Avenue		San Francisco	CA	94017
Marin County Bikeways Committee	Nancy	Weninger		<a href="mailto:nweninger@mac.com">nweninger@mac.com</a>	(415) 924-6887							
Metropolitan Shuttle				<a href="mailto:info@metropolitanshuttle.com">info@metropolitanshuttle.com</a>	866-556-3545							
Napa Valley Wine Country Tours				<a href="mailto:info@nvwct.com">info@nvwct.com</a>	707-226-3333			20 Case Count		American Canyon	CA	94503-9696
Peninsula Tour				<a href="mailto:info@peninsulatour.com">info@peninsulatour.com</a>	(888) 333-1256			1630 Davidson Avenue		San Francisco	CA	94124
Petaluma KOA Tours				<a href="mailto:reservations@sanfranciscokoa.com">reservations@sanfranciscokoa.com</a>	707.763.1492			20 Rainesville Road		Petaluma	CA	94952
Pure Luxury Wine Tours	Marty	Hronec	Chauffeur Supervisor	<a href="mailto:mhronec@pureluxury.com">mhronec@pureluxury.com</a>	(707) 775-2920			4246 Petaluma Boulevard North		Petaluma	CA	94952
Quality Assurance Travel	Eric	Moreno	Operations Manager	<a href="mailto:Eric@qualityassurancetravel.com">Eric@qualityassurancetravel.com</a>								
Reliant Travel				<a href="mailto:_info@relianttravelonline.com">_info@relianttravelonline.com</a>	(510)451-5400			2000 Mandela Way		Oakland	CA	94607
Royal Coach Tours				<a href="mailto:sales@royal-coach.com">sales@royal-coach.com</a>	(408) 279-4801			630 Stockton Street		San Jose	CA	95126
<b>Commercial Transport</b>												
AAA Automobile Association of Northern California	Melissa	Barritt Felde	VP Sales & Operations		(415) 565-2012	(800) 922-8228		150 Van Ness Avenue		San Francisco	CA	94101
AMTRAK - Oakland Corporate Office	Media Relations			<a href="mailto:mediarelationoakland@amtrak.com">mediarelationoakland@amtrak.com</a>	(510) 238-4360	(510) 238-4372		530 Water Street	5th Floor	Oakland	CA	94607
AMTRAK San Francisco	Deirdre	Fitzgerald		<a href="mailto:dfitzgerald@theSCA.org">dfitzgerald@theSCA.org</a>	(415) 546-4555	(603) 504-3263		101 The Embarcadero	#200	San Francisco	CA	94105
Golden State Portables	Mike	Banda	Special Events Coordinator	<a href="mailto:mike@goldenstateportables.com">mike@goldenstateportables.com</a>	(408) 640-9351	(510) 630-3597	(888) 880-5171			San Jose	CA	
Greyhound Bus				<a href="mailto:commercialsales@greyhound.com">commercialsales@greyhound.com</a>	(415) 495-1569			200 Folsom Street		San Francisco	CA	94105
Zipcar San Francisco	Michael	Uribe	General Manager	<a href="mailto:info@zipcar.com">info@zipcar.com</a>	(415) 495-7478		(415) 495-1161	191 Second Street		San Francisco	CA	94105
<b>AIRPORT Shuttles and Limo Services</b>												
AAA Bay Area Limousine				<a href="mailto:balimousine@yahoo.com">balimousine@yahoo.com</a>	415.850.7693			POB 12272		San Francisco	CA	
Advanced Airport Shuttle					650.504.6641							
Airport Express	Arik	Sharabi		<a href="mailto:info@airportexpresssf.com">info@airportexpresssf.com</a>	415.775.5121			910 Harrison Street		San Francisco	CA	94109
Airport Express Santa Rosa				<a href="mailto:info@AirportExpressInc.com">info@AirportExpressInc.com</a>	(707) 837-8700	(800) 327-2024		5807 Old Redwood Hwy		Santa Rosa	CA	95403
American Airporter Shuttle				<a href="mailto:support@americanairporter.com">support@americanairporter.com</a>	415.202.0733	(415) 614-2000	(415) 202-0726	120 Willow Street		San Francisco	CA	94109
American Limousine & Sedan Service	Operations Mgr			<a href="mailto:bayarealimo@gmail.com">bayarealimo@gmail.com</a>	(650) 988-9292		(650) 903-9044				CA	

Golden Gate Bridge Transportation Management Plan Contact List  
Transportation Tours

Affiliation	First name	Last Name	Title	Email	Phone	Alternative Phone	Fax	Address Line 1	Address Line 2	City	St	Zip
Associated Limousines Inc.				<a href="mailto:info@sflimo.com">info@sflimo.com</a>	(800) 258-2660			1398 Bryant Street		San Francisco	CA	94014
Avon Airporter Shuttle				<a href="mailto:avonairporter@yahoo.com">avonairporter@yahoo.com</a>	707-732-6601							
Bauers Intelligent Transportation Bay Shuttle				<a href="mailto:chsahyoun@gmail.com">chsahyoun@gmail.com</a> <a href="mailto:moreinfo@bayshuttle.com">moreinfo@bayshuttle.com</a>	1 (800) 546-6688 415.564.3400							
Bayporter Express					415.467.1800			27 Industrial Way		Brisbane	CA	94005
Black Tie Airporter	Debbie	Moore	VP Operations	<a href="mailto:dmoore@blacktietrans.com">dmoore@blacktietrans.com</a>	(800) 820-3028						CA	
Carey Limousines	Todd	Zagurski	VP, Operations, West	<a href="mailto:events@carey.com">events@carey.com</a>	(415) 337-2736	(202) 895-1200				San Francisco	CA	
Crown Limousine				<a href="mailto:info@crownlimosine.com">info@crownlimosine.com</a>	415-644-0988			350 Bay Street	#100-73	San Francisco	CA	94133
Davis Airporter	Operations Mgr				(530) 756-6715						CA	
East Bay Connection	Operations Mgr			<a href="mailto:info@eastbayconnection.net">info@eastbayconnection.net</a>	(800) 675-3278						CA	
Elite Limousine				<a href="mailto:elitimo@gmail.com">elitimo@gmail.com</a>	650-777 0977			221 King Street	#360	San Francisco	CA	94107
Evans Transportation and California Wine Tours, Inc.				<a href="mailto:karen@californiawinetours.com">karen@californiawinetours.com</a>	707-255-1559		707-255-0753	4075 Solano Avenue		Napa	CA	94558
Globe Best Limos				<a href="mailto:info@globebestlimos.com">info@globebestlimos.com</a>	866-960-9487							
Go Lorrrie's Airport Shuttle				<a href="mailto:maria@sfovan.com">maria@sfovan.com</a>	415.334.9000							
Horizon Airporter					(707) 552-8111							
Marin Airporter				<a href="mailto:randy@marinairporter.com">randy@marinairporter.com</a>	(415) 461-4222			8 Lovell Avenue		San Rafael	CA	94901
Marin County Airport Express					415.666.0166							
Marin Door to Door				<a href="mailto:marindoortodoor@yahoo.com">marindoortodoor@yahoo.com</a>	(415) 457-2717			5 Mitchell Boulevard	Suite 1	San Rafael	CA	94903
M & M Luxury Shuttle	Ted	Tehrani	Principal		(415) 552-3200			30 Adrian Court		Burlingame	CA	94010-2101
Monterey Airbus				<a href="mailto:airbus@maineventlimousines.com">airbus@maineventlimousines.com</a>	(831) 373-7777							
Pacific Airport Shuttle				<a href="mailto:JD1718@gmail.com">JD1718@gmail.com</a>	415.681.6318							
Peter's Airport Shuttle					650.577.8858							
Quake City Shuttle				<a href="mailto:quake1city@yahoo.com">quake1city@yahoo.com</a>	415.255.4899	415.621.2831						
Regency Limousine				<a href="mailto:limo@regencysf.com">limo@regencysf.com</a>	(415) 922-0123			2121 Sacramento Street	Suite 201	San Francisco	CA	94109
Royal Limousine & Sedan Service	Operations Mgr			<a href="mailto:info@royallimosvc.com">info@royallimosvc.com</a>	(415) 227-4676	(650) 347-3857	(650) 342-1083	1015 Cadillac Way	#107	Burlingame	CA	
San Francisco City Shuttle				<a href="mailto:please fax">please fax</a>	888.850.7878		415-822-2396					
San Francisco Comprehensive Shuttle Tours, LLC				<a href="mailto:info@sanfranshuttletours.com">info@sanfranshuttletours.com</a>	415.513.5400							
San Francisco Limo				<a href="mailto:info@sanfranciscolimo.com">info@sanfranciscolimo.com</a>	650.228.1920		650.228.1921					
Santa Cruz Airport Flyer				<a href="mailto:earlybirdshuttle@aol.com">earlybirdshuttle@aol.com</a>	831.423.5937							
Sonoma Airporter				<a href="mailto:info@SonomaAirporter.com">info@SonomaAirporter.com</a>	(707) 938-4246			5807 Old Redwood Highway		Santa Rosa	CA	95403
Sonoma County Airport Express				<a href="mailto:tony@airportexpressinc.com">tony@airportexpressinc.com</a>	707.837.8700							
South & East Bay Shuttle				<a href="mailto:please fax">please fax</a>	800.548.4664	408.225.4444	(408) 226-4444					
SuperShuttle				<a href="mailto:jbishop@supershuttle.net">jbishop@supershuttle.net</a>	415.552.3200							
VIP Airport Shuttle				<a href="mailto:service@viptransportgroup.com">service@viptransportgroup.com</a>	(408) 986-6000							
United Airlines South Bay Flyer	Operations Mgr				(888) 463-5937						CA	
Western Eagle Shuttle					(415) 533-4466		(415) 460-9782	200 Las Gallinas		San Rafael	CA	94903
TAXI Companies - San Francisco and Marin												
SF Green Cab LLC/Affiliated Taxi Services	Operations Mgr				(415) 626-4733			2940 16th Street	#313	San Francisco	CA	
Luxor Cab	Operations Mgr		Administration Office		(415) 282-4141			2230 Jerrold Avenue		San Francisco	CA	94124
Metro Cab	Operations Mgr				(415) 920-0715					San Francisco	CA	
Yellow Cab Cooperative	Operations Mgr			<a href="mailto:info@yellowcabsf.com">info@yellowcabsf.com</a>	(415) 333-3333			1200 Mississippi Street		San Francisco	CA	
DeSoto Cab	Operations Mgr				(415) 970-1300			555 Selby Street		San Francisco	CA	
Black & White Checker Cab	Operations Mgr				(415) 206-1900					San Francisco	CA	
CityWide Dispatch Service	Operations Mgr			<a href="mailto:citywidedispatch@gmail.com">citywidedispatch@gmail.com</a>	(415) 920-0700					San Francisco	CA	
AC Taxi of Santa Rosa	Kevin	Kroh			707-777-7777			1243 Lotus Court		Santa Rosa	CA	95404
A Marin Taxi (AMT)					415-497-6656			Loring & Highway 1		Mill Valley	CA	94941
A Taxi Express				<a href="mailto:patrick.Muihya@ataxiexpress.com">patrick.Muihya@ataxiexpress.com</a>	415-250-4787			61 La Brea Way		San Rafael	CA	94903
Bay Area Town Cars					415-351-2000							
Bubba's Cab Company					415-342-2260			2 S Green Street		Larkspur	CA	94939
Marin North Bay Cooperative Taxi					415-258-2800							
Marin Taxi (A-1 Taxi, Belaire Cab, Radio Cab, Yellow Cab Marin)	Greg	McCord	President	<a href="mailto:Greg@MarinTaxis.com">Greg@MarinTaxis.com</a>	415-924-7344			49 C Industrial Way		Greenbrae	CA	94904
Marin Taxi Cab Co.					415-789-1999			3030 Bridgeway Boulevard	#242	Sausalito	CA	94965
Marin Taxi Services					415-383-5511							
Novato Taxi				<a href="mailto:dan@novatotaxi.com">dan@novatotaxi.com</a>	415-898-8484							
Petaluma Green Taxi					707-769-8294			125 Liberty Street		Petaluma	CA	94952
Petaluma Taxi Company					707-776-4888			40 4th Street		Petaluma	CA	94952
PlanetTran	Lori van	Dam	President	<a href="mailto:customerservice@planettran.com">customerservice@planettran.com</a>	1-888-756-8876			533 Airport Boulevard	Suite 400	Burlingame	CA	94010

Golden Gate Bridge Transportatin Management Plan Contact List  
Transportation Tours

Affiliation	First name	Last Name	Title	Email	Phone	Alternative Phone	Fax	Address Line 1	Address Line 2	City	St	Zip
Safari Taxi				admin@safaritaxiservice.com	415-462-0808							
Taxi Marin Cab Company				taximarin@gmail.com	415-970-2434			150 Shoreline Highway		Mill Valley	CA	94941
Town Taxi Cab Marin				townTCM@gmail.com	415-686-6053							
<b>Airports/Aviation</b>												
Oakland Airport & Port of Oakland	Robert	Bernardo	Manager of Media & Public Relations	<a href="mailto:rbernardo@portoakland.com">rbernardo@portoakland.com</a>	(510) 627-1401			1 Airport Drive		Oakland	CA	94621
SF Airport	Zeke	Zamara	Traffic Management	<a href="mailto:zeke.zamara@flysfo.com">zeke.zamara@flysfo.com</a>	(650) 821-6532							
Napa County Airport	Martin	Pehl		<a href="mailto:martin.pehl@countyofnapa.org">martin.pehl@countyofnapa.org</a>	(707) 253-4300			2030 Airport Road		Napa	CA	94558
Sonoma County Airport	Jon	Stout	Airport Facilities Manager	<a href="mailto:airport@sonoma-county.org">airport@sonoma-county.org</a>	(707) 565-7243			2290 Airport Boulevard		Santa Rosa	CA	95403
Sonoma Jet Center				<a href="mailto:atyourservice@sonomajetcenter.com">atyourservice@sonomajetcenter.com</a>	(707) 523-2800			6000 Flight Drive		Santa Rosa	CA	95403
Sonoma Helicopter, LLC					(707) 528-4883			5790 Flightline Drive		Santa Rosa	CA	95403
Petaluma Municipal Airport	Bob	Patterson	Airport Facilities Manager	<a href="mailto:airport@ci.petaluma.ca.us">airport@ci.petaluma.ca.us</a>	(707) 778-4404	(707) 753-1166	(707) 778-4405	601 Sky Ranch Drive		Petaluma	CA	94952
SolAirus Aviation	24 Hr Disptach Cntr				(415) 897-4522	(800) 359-7861		201 First Street		Petaluma	CA	94952
Barron Air					(707) 284-9786			2290 Becker Boulevard		Santa Rosa	CA	95403
Kaiser Air - Santa Rosa Jet Center					(707) 528-7400			2240 Airport Boulevard		Santa Rosa	CA	95403
North Coast Air					(707) 542-8687			5010 Flightline Drive		Santa Rosa	CA	95403
Experimental Aircraft Association - EAA Chapter 124					(707) 539-5188			5550 Windsor Road		Windsor	CA	95492
The Ninety-Nines Int'L. Organization of Women Pilots	Peg	Thompson	Vice Chairman	<a href="mailto:info@santarosa99s.org">info@santarosa99s.org</a>				2247 Airport Boulevard		Santa Rosa	CA	95403
Bay Cities Chapter 99s	Kath	Holcombe						3 Admiral Drive	#469	Emeryville	CA	94608-1548
Dragonfly Aviation					(707) 575-8750			2222 Airport Boulevard		Santa Rosa	CA	95403
Mineta San Jose International Airport	David	Vossbrink	Communications Director	<a href="mailto:dvossbrink@sjc.org">dvossbrink@sjc.org</a>	(408) 501-7700			1732 N. First Street, Suite 600		San José	CA	95112
<b>TOUR BUS Operators - San Francisco, Marin, Sonoma</b>												
Ride the Ducks San Francisco				<a href="mailto:info@sanfranciscoducks.com">info@sanfranciscoducks.com</a>	877-887-8225							
San Francisco Fire Engine Tours				<a href="mailto:sffiretruck@gmail.com">sffiretruck@gmail.com</a>	415-333-7077			650 Beach Street		San Francisco	CA	94133
San Francisco Minibus				<a href="mailto:info@sfminibus.com">info@sfminibus.com</a>	415-777-5555			P.O. Box 882374		San Francisco	CA	94188
San Francisco Shuttle Tours				<a href="mailto:info@sfshuttletours.com">info@sfshuttletours.com</a>	415-513-5400					San Francisco	CA	
San Francisco Site Seeing				<a href="mailto:info@graylinesanfrancisco.com">info@graylinesanfrancisco.com</a>	415-434-8687							
San FranciscoTours				No e-mail address available	888-478-1465		800-410-8234					
SF Best Bus				<a href="mailto:info@sfcapitol.com">info@sfcapitol.com</a>	415-238-8667		(415) 826-0279					
Silverado Stages				<a href="mailto:cpereira@silveradostages.com">cpereira@silveradostages.com</a>	916-564-8455							
Sonoma Valley Wine Country Tours				<a href="mailto:reservations@sonomavalleywinecountrytours.com">reservations@sonomavalleywinecountrytours.com</a>	800-856-3456							
Starline Tours				<a href="mailto:info@starlinetours.com">info@starlinetours.com</a>	800-959-3131							
Super Sightseeing				<a href="mailto:info@supersightseeing.com">info@supersightseeing.com</a>	888-868-7788			2627 Taylor Street		San Francisco	CA	94133
Terrific Tours				<a href="mailto:terrifictours@gmail.com">terrifictours@gmail.com</a>	707-658-2748			40 Fourth Street	#214	Petaluma	CA	94952
The Electric Tour Company - San Francisco and Sausalito				<a href="mailto:chelseaselectrictour.com">chelseaselectrictour.com</a>	415-474-3130			165 Jefferson Street	Suite 2F	San Francisco	CA	94133-120
Thunderstar Stages				<a href="mailto:info@thunderstarcharter.com">info@thunderstarcharter.com</a>	707-541-6295					Rohnert Park	CA	94927
TourCorp					415-474-9855			165 Jefferson Street	Suite 2E	San Francisco	CA	94133
Tower Tours				<a href="mailto:reservations@towertours.com">reservations@towertours.com</a>	415-345-8687							
Trans America Travel				<a href="mailto:TransAmericanTravel@gmail.com">TransAmericanTravel@gmail.com</a>	415-519-1558					Fremont	CA	94555
United Coach Tours				<a href="mailto:info@unitedcoachtours.com">info@unitedcoachtours.com</a>	650-873-3138			69 South Linden Avenue		So. San Francisco	CA	94080
Urban Safari				<a href="mailto:Daniel@TheUrbanSafari.com">Daniel@TheUrbanSafari.com</a>	(866) 697-2327							
West Valley Trailways				<a href="mailto:info@westvalleytrailways.com">info@westvalleytrailways.com</a>	(408) 371-1230			240 Cristich Lane		Campbell	CA	95008
Whitecastle Tours				<a href="mailto:info@whitecastletours.com">info@whitecastletours.com</a>	(925) 238-8747			220 Dandellion Lane		San Ramon	CA	94582
Wine Country Tour Shuttle					(415) 513-5400							

## Attachment G: Traffic Special Provisions



**Replace section 8-1.10B with:**

**8-1.10B FAILURE TO COMPLETE WORK PARTS WITHIN SPECIFIED TIMES**

Attention is directed to Sections 12-4.04, 12-4.05B, 12-4.05C and 12-4.05E of these Special Provisions for the traffic lane closure charts.

EXCEPT FOR THE 52-HOUR WEEKEND BRIDGE CLOSURE, LIQUIDATED DAMAGES FOR FAILING TO OPEN THE REQUIRED BRIDGE OR EXPRESSWAY TRAFFIC LANES TO PUBLIC TRAFFIC BY THE TIMES SPECIFIED SHALL BE FIVE THOUSAND DOLLARS (\$5,000) FOR EACH FULL TEN MINUTE PERIOD OR PART THEREOF AFTER THE FIRST TEN MINUTE PERIOD. THE TOTAL LIQUIDATED DAMAGES FOR EACH TWELVE (12) HOURS OF SUCH DELAY SHALL NOT EXCEED ONE HUNDRED FIFTY THOUSAND DOLLARS (\$150,000). Contractor shall pay said liquidated damages as herein provided and further agrees that the District may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

LIQUIDATED DAMAGES FOR FAILING TO COMPLETE ALL THE WORK FOR STAGES 4S AND 5N IN ALL PARTS AND REQUIREMENTS BY THE TIMES SPECIFIED SHALL BE TEN THOUSAND DOLLARS (\$10,000) FOR EACH FULL TEN MINUTE PERIOD OR PART THEREOF AFTER THE FIRST TEN MINUTE PERIOD FOR THE INITIAL FIRST HOUR. LIQUIDATED DAMAGES FOR EACH ADDITIONAL 10 MINUTE PERIOD OR PART THEREOF AFTER THE INITIAL FIRST HOUR IS TWENTY-FIVE THOUSAND DOLLARS (\$25,000). THE TOTAL LIQUIDATED DAMAGES FOR EACH TWELVE (12) HOURS OF SUCH DELAY SHALL NOT EXCEED THREE HUNDRED THOUSAND DOLLARS (\$300,000). Contractor shall pay said liquidated damages as herein provided and further agrees that the District may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

In addition to the liquidated damages specified above, Contractor shall indemnify and hold harmless the District and its representatives from and against all claims, suits, or actions of every name, kind and description, brought for or on account of traffic delays, monetary losses or other consequential damages which resulted from, or were alleged to have resulted from, in whole or in part, Contractor's (and its subcontractors') failure to maintain bridge traffic lanes open for use by the public as required by the terms of the Contract. The duty of the Contractor to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. This indemnification shall survive termination of the Contract. All terms and conditions in Section 3-1.07, 7-1.05 and 7-1.06 of these specifications are hereby incorporated into this section.

**Revise Special Provisions Section 12 as marked:**

**12 TEMPORARY TRAFFIC CONTROL**

**Replace section 12-2 with:**

**12-2 CONSTRUCTION PROJECT FUNDING SIGNS**

**12-2.01 GENERAL**

Section 12-2 includes specifications for installing construction project funding signs.

Construction project funding signs must comply with the details shown on Caltrans' Traffic Operations Web site.

Keep construction project funding signs clean and in good repair at all times.

**12-2.02 MATERIALS**

Construction project funding signs must be wood post signs complying with section 56-4.

Sign panels for construction project funding signs must be framed, single sheet aluminum panels complying with section 56-2.

The background on construction project funding signs must be Type II retroreflective sheeting on the Authorized Material List for signing and delineation materials.

The legend must be retroreflective, except for nonreflective black letters and numerals. The colors blue and orange must comply with PR Color no. 3 and no. 6, respectively, as specified in the Federal Highway Administration's *Color Tolerance Chart*.

The legend for the type of project on construction project funding signs must read as follows:

MOVEABLE MEDIAN BARRIER

The legend for the types of funding on construction project funding signs must read as follows and in the following order:

STATE TRANSPORTATION IMPROVEMENT PROGRAM FUNDS

GOLDEN GATE BRIDGE TOLL FUNDS

The legend for the year of completion on construction project funding signs must read as follows:

YEAR OF COMPLETION 2014

The size of the legend on construction project funding signs must be as described. Do not add any additional information unless authorized.

**12-2.03 CONSTRUCTION**

Install 2 Type 1 construction project funding signs at the locations designated by the Engineer before starting major work activities visible to highway users.

When authorized, remove and dispose of construction project funding signs upon completion of the project.

**12-2.04 PAYMENT**

Full compensation for furnishing, erecting, maintaining, repairing, removing and disposal of the construction project funding signs shall be considered as included in the Contract lump sum price paid for Contract Item: Construction Area Signs and no additional compensation shall be allowed therefor.

**Replace section 12-3.05 with:**

**12-3.05 PORTABLE FLASHING BEACONS**

**12-3.05A General**

Section 12-3.05 includes specifications for installing, removing, and moving portable flashing beacons.

Each portable flashing beacon must have:

1. Standard and base
2. Lighting unit
3. Flasher unit
4. Battery power source

Assemble units to form a complete, self-contained, flashing beacon that can be delivered to the job site and placed into immediate operation.

**12-3.05B Materials**

The lens for the beacon lighting unit must have a visible diameter of 12 inches. The lens must be glass or plastic as specified in ANSI D-10.1 for a yellow traffic signal lens.

Provide a minimum 8-inch-long visor and a backplate for the beacon lighting unit. Visors are not required during the hours of darkness.

The flasher unit must provide 50 to 60 flashes per minute with 250- to 350-milliseconds dwell time.

The standard must be adjustable to provide variable mounting of the lighting unit from 6 to 10 feet, measured from the bottom of the base to the center of the lens, with provisions for securing the standard at the desired height. Securely attach the standard to the base and provide enough length of multi-conductor, neoprene jacketed cable as required for the full vertical height.

The base must be large enough to accommodate a minimum of two 12-V automotive-type storage batteries, and must be of such shape and mass that the beacon will not roll in the event it is struck by a vehicle or pushed over.

The lamp must be rated at 25 W for operation on 12-V battery current.

The flashing beacon assembly must be weatherproof and must be capable of operating a minimum of 150 hours between battery recharging or other routine maintenance.

The standard and base must be finished with 2 applications of commercial-quality, orange enamel similar in color to color no. 12473 of Federal Standard 595B. The interior of the visor and the front face of the backplate must be finished with 2 applications of commercial-quality flat black enamel.

**12-3.05C Construction**

Remove portable flashing beacon from the traveled way at the end of each night's work.

Immediately repair and repaint, or replace flashing beacons in their original locations when they are displaced or not in an upright position from any cause.

The District does not pay for repair or replacement of portable flashing beacons.

**12-3.05D Payment**

Full compensation for furnishing, erecting, maintaining, repairing, relocating, removal and disposal of the portable flashing beacons shall be considered as included in the Contract lump sum price paid for Contract Item: Traffic Control Systems and no additional compensation shall be allowed therefor.

**Add to section 12-3.08D:**

Full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing and disposing of the Temporary Railing (Type K) for the lane closures at the Toll Plaza on Highways 101 and 1 and on the Bridge, as shown on the Plans, as specified in the Standard Specifications and these Special Provisions, and as directed by the Engineer shall be considered as included in the Contract lump sum price paid for Contract Item: Traffic Control System and no additional compensation shall be allowed therefor.

All other Temporary Railing (Type K) shall be measured and paid for once at each location shown on the Contract Plans. Any relocation or temporary movement of the Temporary Railing (Type K) due to the Contractor's operations or as required to perform the work shall be considered as included in the Contract price for Contract Item: Temporary Railing (Type K) and no additional compensation shall be allowed therefor.

**Replace section 12-3.13 with:**

**12-3.13 IMPACT ATTENUATOR VEHICLE**

**12-3.13A General**

**12-3.13A(1) Summary**

Section 12-3.13 includes specifications for protecting traffic and workers with an impact attenuator vehicle during moving lane closures when placing and removing components of stationary lane closures, ramp closures, shoulder closures, or a combination, maintaining and removing traffic control devices, cold planing the existing pavement and placing the new asphalt concrete overlay, removal of pylon holders, grouting of pylon holders, removal of existing pavement markers, placement of pavement markers and striping.

Impact attenuator vehicles must comply with the following test levels under National Cooperative Highway Research Program 350:

1. Test level 3 if the preconstruction posted speed limit is 50 mph or more
2. Test levels 2 or 3 if the preconstruction posted speed limit is 45 mph or less

Comply with the attenuator manufacturer's instructions for:

1. Support truck
2. Trailer-mounted operation
3. Truck-mounted operation

Flashing arrow signs must comply with section 12-3.03. You may use a portable changeable message sign instead of a flashing arrow sign. If a portable changeable message sign is used as a flashing arrow sign, it must comply with section 6F.56 "Arrow Panels" of the *California MUTCD*.

**12-3.13A(2) Definitions**

**impact attenuator vehicle:** A support truck that is towing a deployed attenuator mounted to a trailer or a support truck with a deployed attenuator that is mounted to the support truck.

**12-3.13A(3) Submittals**

Upon request, submit a certificate of compliance for each attenuator used on the project.

**12-3.13A(4) Quality Control and Assurance**

Do not start impact attenuator vehicle activities until authorized.

Before starting impact attenuator vehicle activities, conduct a preinstallation meeting with the Engineer, subcontractors, and other parties involved with traffic control to discuss the operation of the impact

attenuator vehicle during moving lane closures and when placing and removing components of stationary traffic control systems.

Schedule the location, time, and date for the preinstallation meeting with all participants.

### **12-3.13B Materials**

Attenuators must be a brand on the Authorized Material List for highway safety features.

The combined weight of the support truck and the attenuator must be at least 19,800 pounds, except the weight of the support truck must not be less than 16,100 or greater than 26,400 pounds.

For the Trinity MPS-350 truck-mounted attenuator, the support truck must not have a fuel tank mounted underneath within 10'-6" of the rear of the support truck.

Each impact attenuator vehicle must have:

1. Legal brake lights, taillights, sidelights, and turn signals
2. Inverted "V" chevron pattern placed across the entire rear of the attenuator composed of alternating 4-inch wide nonreflective black stripes and 4-inch wide yellow retroreflective stripes sloping at 45 degrees
3. Type II flashing arrow sign
4. Flashing or rotating amber light
5. Operable 2-way communication system for maintaining contact with workers

### **12-3.13C Construction**

Except where prohibited, use an impact attenuator vehicle:

1. To follow behind equipment and workers who are placing and removing components of a stationary lane closure, ramp closure, shoulder closure, or any combination. Operate the flashing arrow sign in the arrow or caution mode during this activity, whichever applies. Follow at a distance that prevents intrusion into the workspace from passing traffic.
2. As a shadow vehicle in a moving lane closure.
3. Maintaining and removing traffic control devices, cold planing the existing pavement and placing the new asphalt concrete overlay, removal of pylon holders, grouting of pylon holders, removal of existing pavement markers, placement pavement markers and striping.

After placing components of a stationary traffic control system you may place the impact attenuator vehicle in advance of the work area or at another authorized location to protect traffic and workers.

Secure objects, including equipment, tools, and ballast on impact attenuator vehicles to prevent loosening upon impact by an errant vehicle.

Do not use a damaged attenuator in the work. Replace any attenuator damaged from an impact during work activities at your expense.

### **12-3.13D Payment**

Payment for furnishing, maintaining, and repairing of the IMPACT ATTENUATOR VEHICLE shall be considered as included in the Contract lump sum price paid for Contract Item: Traffic Control Systems and no additional compensation shall be allowed therefor.

## **Add section 12-3.19:**

### **12-3.19 TEMPORARY ALTERNATIVE CRASH CUSHION**

#### **12-3.19A GENERAL**

Section 12-3.18 includes specifications for installing and maintaining temporary alternative crash cushion systems.

Whenever work activity exposes traffic to a fixed obstacle, protect the traffic from the obstacle with a temporary crash cushion. The crash cushion must be in place before opening traffic lanes adjacent to the obstacle.

### **12-3.19B MATERIALS**

Temporary alternative crash cushion systems shall be furnished and installed at locations as shown on the plans and in conformance with these special provisions.

ABSORB 350 - Manufactured by Lindsay Transportation Solutions Sales & Service, 180 River Road, Rio Vista, CA 94571, Telephone No.: (707) 374-6800, Toll Free: (888) 800-3691.

QUADGUARD (Type QS3606) - Manufactured by Energy Absorption Systems, Inc. 35 East Wacker Drive, Chicago, IL 60601-2076, Telephone No.: (312) 467-6750 and from distributors Energy Absorption Systems, Inc. P.O. Box 3333-#291 Encinitas, CA 92024 Telephone No.: (619) 438-7887, Fax No.: (619) 438-7848, or Energy Absorption Systems, Inc. Customer Service Department, One East Wacker Drive, Chicago, IL 60601-2076, Telephone No.: 1-800-255-3240, Fax No.: (312) 467-0201

The system(s) shall be tested and perform in an acceptable manner in accordance with the guidelines of NCHRP 350 at Test Level 3 (62 mph) as shown on the plans.

### **12-3.19C CONSTRUCTION**

Temporary alternative crash cushion systems shall be installed in conformance with the manufacturer's recommendations.

Secure temporary alternative crash cushion in place before commencing a work activity requiring a temporary crash cushion.

Immediately repair temporary crash cushion systems damaged due to your activities. Remove and replace any system damaged beyond repair. Repair of temporary crash cushions damaged by traffic is change order work.

Remove temporary crash cushion systems at the time of Contract acceptance. Do not install temporary crash cushion systems in the permanent work.

### **12-3.19D PAYMENT**

Payment for temporary alternative crash cushion system includes anchor bolts, nuts, washers, marker panels, structure excavation, structure backfill, concrete anchor and slab with bar reinforcing steel, transition plate and W-beam connector.

#### **Add to section 12-4.01:**

Before commencement of any site activities, the Contractor shall submit and obtain Engineer's approval in accordance with "Submittals" elsewhere in these Special Provisions of a Construction Traffic Management Plan for the Bridge, Highway 1, Highway 101, local streets, pedestrian and bike trails. Said Plan shall conform to the Plans and these Special Provisions and shall show a comprehensive path of travel, and describe in detail traffic control, safety features, proposed limited detours, and proposed duration of use. The Construction Traffic Management Plan shall also include:

- detail descriptions and drawings showing locations of all traffic control devices and all other traffic control measures for Marin Headland Road, Conzelman Road, Moore Road, Bridge Road, Bluff Road and Lincoln Boulevard;
- include in the TMP the speed limit of 15 mph for all vehicles for Marin Headland Road, Conzelman Road, Moore Road, Bridge Road, Bluff Road and other areas as designated by the Engineer;
- detail description and working drawings for the pedestrian and bicycle access facilities and all safety and traffic control measures at all work locations;

- working drawings for all elements of the traffic control system for lane closures on Highways 101 and 1 and the Bridge, including sequences and methods of installation, maintenance and removal of the traffic control system.

The Engineer's approval of the Plan is contingent on the approval of the GGNRA and Caltrans.

Any changes to the approved Construction Traffic Management Plan, including any additional detour plans for the limited detour of vehicular, pedestrian or bicycle traffic not included in the approved Construction Traffic Management Plan, shall be submitted as supplements to the Construction Traffic Management Plan for Engineer's approval in accordance with "Submittals" elsewhere in these Special Provisions. The Engineer's approval is contingent on the approval of the GGNRA, and Caltrans. The Contractor shall obtain Engineer's approval of the Construction Traffic Management Plan supplement before commencement of the work involving such changes and additional detours.

Attention is directed to Section "Permits, Licenses, Agreements and Certifications" of these Special Provisions for the requirements of this and other additional traffic management plans.

**Add to section 12-4.02A:**

If work including installing, maintaining, and removing Type K temporary railing is to be performed within 6 feet of the adjacent traffic lane, close the adjacent traffic lane.

Except as listed above, closure of the adjacent traffic lane is not required for installing, maintaining, and removing traffic control devices.

For grinding and grooving operations, saw cutting concrete slabs, and installing loop detectors, closure of the adjacent traffic lane is not required if an impact attenuator vehicle is used as a shadow vehicle.

For a one-way reversing traffic-control lane closure, traffic may be stopped in 1 direction for periods not to exceed 5 minutes. After each stoppage, all accumulated traffic for the 52-hour weekend closure only must pass through the work zone before another stoppage is made.

Not more than 1 stationary lane closure configuration will be allowed in each direction of travel at one time. Freeway closure charts are for the erection and removal of falsework, placement and removal of overhead sign structures, and other authorized work.

Personal vehicles of your employees must not be parked on the traveled way or shoulders, including sections closed to traffic, or public parking lots within the District, Caltrans, NPS or Presidio Trust's Right of Way. Contractor's work vehicles or equipment not actively being used in the work may be parked in the areas designated on the Plans for the Contractor's use. Personal vehicles of the contractor's employees may be parked in the laydown area designated on the Plans.

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area as shown.

Materials or equipment must not be stored on any Bridge approach roads within 30 feet of a traffic lane.

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area with fluorescent orange traffic cones or portable delineators. Place the cones or delineators on a taper in advance of the parked vehicles or equipment and along the edge of the traveled way at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. Use at least 9 cones or delineators for the taper. Use a W20-1, "Road Work Ahead," W21-5b, "Right/Left Shoulder Closed Ahead," or C24(CA), "Shoulder Work Ahead," sign mounted on a crashworthy, portable sign support with flags. The sign must be 48 by 48 inches and placed as ordered by the Engineer. If a cone or delineator is displaced or overturned, immediately restore the device to its original position or location.

**Pedestrian and Bicycle Access Facilities**

Provide pedestrian access facilities whenever pedestrian and/or bicycle traffic is directed through construction areas. Provide pedestrian walkways with skid resistant surfacing and free of irregularities. Safety features such as temporary railings, or other approved protective barrier system, must be provided on the access facilities as necessary to protect pedestrian, bicyclists, and District traffic from hazards due to construction operations or adjacent vehicular traffic. Protective overhead covering must be provided as necessary to insure protection from overhead operations.

The Contractor may perform work on the bridge sidewalks between 9pm and 5 am only. When the construction operations are actively in progress in sidewalk and trail areas, provide a clear passage way of 5 feet minimum width for the passage of pedestrians, bicyclists, and District equipment. The Contractor's area must be clearly delineated as approved by the Engineer with cones, tapes, barricades or other safety devices, and continuously monitored by the Contractor, including flagging to ensure the safety of the public and District personnel.

When construction operations are not actively in progress in sidewalk and trail areas, provide full width of sidewalk or trail area open for passage of pedestrians, bicyclists, and District equipment unless otherwise approved by the Engineer. When construction operations are not actively in progress in sidewalk and trail areas, the Contractor must remove all materials and equipment from the sidewalk or trail area and provide for the clear passage and all necessary safety devices.

In the sidewalk areas, protect the surface from any damage while performing any operations that may mar, deface or discolor the surface of the sidewalks. Repair such damage at your expense.

### **Bridge Sidewalk Closures**

#### East Sidewalk

The east sidewalk of the Bridge must be kept open for unrestricted use by pedestrians and/or bicyclists as follows:

##### Monday to Friday

5:30 a.m. – 3:30 p.m. Bicyclists and Pedestrians

3:30 p.m. – 9:00 p.m. Pedestrians and Bicyclists

9:00 p.m. – 5:30 a.m. Bicyclists only, Sergeants Office will open gate for bicyclists

##### Saturday, Sunday, legal Holidays:

5:00 a.m. – 9:00 p.m. Pedestrians and Bicyclists

9:00 p.m. – 5:00 a.m. Bicyclists only, Sergeants Office will open gate for bicyclists

#### West Sidewalk

The west sidewalk of the Bridge must be kept open for unrestricted use by bicyclists:

##### Monday to Friday

3:30 p.m. – 9:00 p.m. Bicyclists only

##### Saturday, Sunday, legal Holidays:

5:00 a.m. – 9:00 p.m. Bicyclists only

The west sidewalk must also be kept open for District maintenance crew between 5:00 a.m. and 3:30 p.m. from Monday through Friday.

The District will be responsible for setting traffic pylons for the District's lane arrangements. The District's night lane arrangements are set prior to 9 p.m. and consist of two northbound lanes and two southbound



lanes opened to traffic and two center lanes are closed separating northbound and southbound traffic, except on Fridays and days before legal holidays when three northbound lanes and two southbound lanes are opened to traffic and one lane is closed separating northbound and southbound traffic. For the North Approach weekend median reconstruction work only, the District's lane configuration shall be three northbound and three southbound lanes from Friday at 10pm to Monday at 5am. District's daily lane arrangement schedule will be available upon the written request from the Contractor to the Engineer. The Engineer will have 72 hours to provide the information to the Contractor. All other lane closures shall be performed by the Contractor. After completion of each shift of work, and prior to the lane opening deadline shown on the Lane Closure Charts, the Contractor must return the lanes to the District's lane arrangement required at that time. After the moveable median barrier installation, the District will be responsible for moving the barrier for the District's lane arrangements. The District's night lane arrangements with the barrier will be set prior to 9 p.m. and consist of three northbound lanes and three southbound lanes open to traffic except on Fridays and days before legal holidays when the barrier will be set in this night lane arrangements prior to 10 p.m. At the request of the Contractor, for the pylon holder removal, and paving and striping work under stages 5S, 6N and 7N, the District's night lane arrangements with the barrier will be set prior to 10 p.m. and consist of four northbound lanes and two southbound lanes open to traffic or will be set prior to 11 p.m. and consist of two northbound lanes and four southbound lanes open to traffic.

At any time a lane is closed for construction operations and it becomes necessary to clear the lane for use by public traffic due to congested conditions, conditions of reduced atmospheric visibility or for any other reason, immediately stop active Contract operations and commence clearing the lane. If after the installation of a lane closure, the Contractor is ordered by the Engineer to remove the closure and open the lanes to traffic prior to 2:00 a.m., the Contractor will be compensated a lump sum amount of \$5,000. In addition, if work crews and equipment, other than the work crews and equipment associated with installing and removing the lane closures, are performing work inside the lane closure which the Engineer orders to be removed prior to 2:00 a.m., and if work crews and equipment are unable to continue working for the remainder of the work shift or are unable to be re-assigned to another work task for the remainder of the work shift, the Contractor will be compensated for the labor and equipment costs associated with that portion of the work shift that the work crews and equipment were not able to continue working. Compensation for the labor and equipment not re-assigned and not able to continue working inside the lane closure will be determined in the same manner as determinations are made for labor and equipment used in the performance of extra work paid for on a force account basis, as specified in section 9-1.04, "Force Account Payment," of the Standard Specifications. The District does not pay for any additional costs associated with installing and removing the lane closure or for any other labor or equipment costs associated with work crews or equipment working inside the lane closure. If after the installation of a lane closure, the Contractor is ordered to remove the closure and open the lanes to traffic after 2:00 a.m., the Contractor shall not be compensated for any additional costs associated with installing and removing the lane closure or for any other labor or equipment costs associated with work crews or equipment working inside the lane closure.

The Engineer extends lane availability on a lane-by-lane, hour-by-hour basis, without penalty to the Contractor or credit to the District.

If the Contractor plans to work at the same time at more than one location along the length of the Bridge, the work locations must be restricted to the same traffic lanes and the same traffic lane closure pattern must be maintained throughout the length of the Bridge.

Penalties for late opening of the Bridge roadway to traffic lanes are specified in section 8-1.10B "Failure to Complete Work Parts Within a Specified Time."

Where not otherwise prohibited, transportation of construction crews, materials, tools and equipment to all work areas on the Bridge may be facilitated on the bridge sidewalks by motor vehicles similar to the Bridge District's maintenance scooter, which has weight and dimensional limitations of 1,000 pounds per scooter, 8.5 feet long, 4.5 feet wide, and a wheelbase of 6.5 feet. The District does not allow any traffic closures for such transportation on the Bridge sidewalks.

No lane reduction or obstruction will be permitted during conditions of reduced atmospheric visibility which will impair safe Contract operations.

The Contractor must provide for free movement of vehicle, bicycle and pedestrian traffic on all streets and roads within the District, Caltrans, NPS or Presidio Trust's Right of Way. The Contractor must provide traffic control at all locations as necessary to provide for safe movement of construction vehicles and equipment and other construction operations. Traffic control must provide for safe turning movements for construction vehicles and equipment onto and leaving the project site.

Conzelman Road must remain open to bicycle, pedestrian and Bridge maintenance traffic. The existing gates on Conzelman Road at the Marin Abutment parking lot and near Moore Road shall not be obstructed by the Contractor to allow passage by bicycle and pedestrian traffic and the District and NPS vehicles. Public motor vehicle access must be prohibited. These gates must always be closed except to allow passage of Contractor's and District vehicles.

Section 12-4.02A does not void section 7-1.04, "Public Safety."

All work on the bridge deck that requires traffic lane or sidewalk closures must be performed only when lane closures are allowed. Minor deviations from the requirements concerning hours of work, which do not change the cost of the work, may be permitted upon the written request of the Contractor through a submittal of a supplement to the approved Construction Traffic Management Plan for Engineer's approval in accordance with section 5-1.23, "Submittals" if the Engineer determines public traffic will be better served and the work expedited. Such deviations must not be adopted until the Engineer has issued his approval. Submit such request and obtain the Engineer's approval at least 72 hours before the proposed use of the deviation.

**Replace "Reserved" in section 12-4.02D with:**

Equipment and materials must not remain in a lane unless the lane is closed to traffic and is used for Contract activities.

Your vehicles are subject to the provisions of chapter 13, "Vehicular Crossings," of the Vehicle Code.

Do not close lanes if the atmospheric visibility is less than 1,000 feet.

**Replace RSS section 12-4.03A with:**

**Closure Schedule and Conditions**

Lane closures on Highways 101 and 1 and on the Bridge shall conform to the Plans, this section "Maintaining Traffic" and "Traffic Control System for Lane Closure" elsewhere in these Special Provisions.

Roadway traffic lanes must be closed only during the hours designated in this section "Maintaining Traffic." Except for emergency work for compliance with the provisions in sections "Public Convenience" and "Public Safety", all other work that interferes with public traffic must be performed only during the hours shown for lane closures. All lane closures for work under this Contract must be coordinated with and approved by the Engineer and by Caltrans. The Contractor must notify the Engineer 72 hours before implementation of any previously approved lane closure.

**Replace "Sunday" at each occurrence in the 1st paragraph of the RSS for section 12-4.03B with:**

Friday

**Replace "LCS" at each occurrence of the RSS for section 12-4.03B with:**

District

**Add to the RSS for section 12-4.03C:**

Submit a contingency plan for each of the following activities:

1. Cold planning HMA
2. HMA Paving
3. Asphalt or concrete grinding
4. Striping
5. Pavement markers or delineators
6. Median reconstruction at north end
7. Toll booth demolitions

Obtain approval of the contingency plan with the Engineer at least 5 business days before starting the activity.

Replace "Reserved" in section 12-4.04 with:

<b>Lane Closure Restriction for Designated Holidays and Special Days</b>										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	<b>H</b> xx	xx	xx							
	<b>SD</b> xx									
x	xx	<b>H</b> xx	xx							
		<b>SD</b> xx								
	x	xx	<b>H</b> xx	xx						
			<b>SD</b> xx							
	x	xx	xx	<b>H</b> xx	xxx					
	x	xx	xx	<b>SD</b> xx	xxx					
				x	<b>H</b> xx					
				x	<b>SD</b> xx					
					x	<b>H</b> xx				
						<b>SD</b> xx				
						x	<b>H</b> xx	xx	xx	xx
							<b>SD</b> xx			
<b>Legend:</b>										
	Refer to lane requirement charts									
x	The full width of the traveled way must be open for use by traffic after 2pm.									
xx	The full width of the traveled way must be open for use by traffic.									
xxx	The full width of the traveled way must be open for use by traffic until 7pm.									
<b>H</b>	Designated holiday									
<b>SD</b>	Special day									

Replace "Reserved" in section 12-4.05B with:

Chart no. 1 Freeway/Expressway Lane Requirements																									
County: San Francisco/Marin							Route/Direction: US-101/NB							PM: SF 9.74/MRN 0.29											
Closure limits: US-101/Golden Gate Bridge, between 04-SF-101 PM 9.74 and 04-MRN-101 PM 0.29																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon											#	#	#	#								2	2	2	1
Tue-Thu	1	1	1	1	1						#	#	#	#								2	2	2	1
Fri	1	1	1	1	1						#	#	#	#									2	2	2
Sat	1	1	1	1	1	1	1																		
Sun																									

Legend:

- 1 Provide at least 1 through freeway lane open in direction of travel
- 2 Provide at least 2 adjacent through freeway lanes open in direction of travel
- # Northbound curb lane on bridge may be closed
- No lane closure permitted. Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

- At least one lane would be open to traffic throughout Project construction (except for 52-hour weekend closure)

**Chart no. 2  
Freeway/Expressway Lane Requirements**

County: San Francisco/Marin		Route/Direction: US-101/SB										PM: SF 9.74/MRN 0.29													
Closure limits: US-101/Golden Gate Bridge, between 04-SF-101 PM 9.74 and 04-MRN-101 PM 0.29																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon											#	#	#	#	#							2	1	1	1
Tue-Thu	1	1	1	1	1						#	#	#	#	#							2	1	1	1
Fri	1	1	1	1	1						#	#	#	#	#								2	1	1
Sat	1	1	1	1	1	1	1																		
Sun																									

Legend:

- 1 Provide at least 1 through freeway lane open in direction of travel
- 2 Provide at least 2 adjacent through freeway lanes open in direction of travel
- # Southbound curb lane on bridge may be closed
- No lane closure permitted. Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

- At least one lane would be open to traffic throughout Project construction (except for 52-hour weekend closure)

**Replace "Reserved" in section 12-4.05C with:**

**Chart no. 3**  
**52-hour weekend closure**  
**Complete Freeway/Expressway Closure Hours**

County: San Francisco/Marin	Route/Direction: US-101/NB SB	PM: SF 9.74/MRN 0.29
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Closure limits: Golden Gate Bridge

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Fri																							2	1	1
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

1	Provide curb lane on the Bridge open in direction of travel
2	Provide at least 2 adjacent through freeway lanes open in direction of travel
C	Freeway may be closed completely.
	No complete freeway or expressway closure is allowed.

**REMARKS:**

- Detour traffic as per Drawing No. CS-7 and CS-8.
- Simultaneous closures of the following ramps are allowed:  
 Northbound Route 101: Merchant Road off and on-ramps, Vista Point off- & on-ramps and Sausalito Lateral off-ramp.  
 Southbound Route 101: Merchant Road off-ramp, Sausalito Lateral on- and off- ramps, Spencer Ave on-ramp, Rodeo Ave. on-ramp, Donahue St. on-ramp.
- This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions

**Chart no. 4**  
**52-hour weekend closure**  
**Complete Freeway/Expressway Closure Hours**

County: Marin				Route/Direction: US-101/SB								PM: MRN 0.29/MRN 3.57													
Closure limits: From Golden Gate Bridge to Sausalito/Marin City (Donahue Street) Interchange																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

**Legend:**

C Freeway and expressway may be closed completely.

No complete freeway or expressway closure is allowed

**REMARKS:**

- Detour traffic as per drawing no. CS-8.
- Simultaneous closures of the following ramps are allowed:  
 Southbound Route 101: Merchant Road off-ramp, Sausalito Lateral on and off-ramps,  
 Spencer Ave on-ramp, Rodeo Ave on-ramp and Donahue St on-ramp.
- This chart shall be used only during one  
 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance  
 with Section 5-1.04, "Order of Work" of the Special Provisions

**Chart no. 5  
52-hour weekend closure  
Complete Freeway/Expressway Closure Hours**

County: San Francisco	Route/Direction: US-101/NB	PM: SF 8.32/SF 9.74
Closure limits: From Marina Blvd. to Golden Gate Bridge		

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

**Legend:**

C Freeway and expressway may be closed completely.

No complete freeway or expressway closure is allowed

**REMARKS:**

- Detour traffic per drawing no. CS-7.
- Simultaneous closures of the following ramps are allowed:  
Northbound Route 101: Marina Blvd on-ramp, Merchant Road on- & off-ramps, Vista Point off- and on-ramps, and Sausalito Lateral off-ramp.
- This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.



**Chart no. 6**  
**52-hour weekend closure**  
**Complete Freeway/Expressway Closure Hours**

County: San Francisco	Route/Direction: SR-1/NB	PM: SF 5.81/SF 7.04
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Closure limits: From Lake Street to US-101

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

C Freeway and expressway may be closed completely.

No complete freeway or expressway closure is allowed.

REMARKS:

- Detour traffic per drawing no. CS-7.
- This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.

**Replace "Reserved" in section 12-4.05E with:**

**Chart no. 7**  
**Complete Ramp Closure Hours/Ramp Lane Requirements**

County: Marin	Route/Direction: US-101/NB	PM: MRN 0.065 & 0.084
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Closure limits: Vista Point On-Ramp/Off-Ramp

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C															C	C	C	C	C
Fri	C	C	C	C	C	C															C	C	C	C	C
Sat	C	C	C	C	C	C																C	C	C	
Sun	C	C	C	C	C	C															C	C	C	C	C

Legend:

C Ramp may be closed completely

No Ramp Closure Permitted

REMARKS:

**Chart no. 8**  
**Complete Ramp Closure Hours/Ramp Lane Requirements**

County: Marin	Route/Direction: US-101/NB	PM: MRN 0.264
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Closure limits: Sausalito Lateral Off-Ramp

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C															C	C	C	C	C
Fri	C	C	C	C	C	C															C	C	C	C	C
Sat	C	C	C	C	C	C																	C	C	C
Sun	C	C	C	C	C	C															C	C	C	C	C

Legend:

C Ramp may be closed completely

No Ramp Closure Permitted

REMARKS:

- Detour traffic to next off-ramp.

**Chart no. 9**  
**Complete Ramp Closure Hours/Ramp Lane Requirements**

County: Marin	Route/Direction: US-101/SB	PM: MRN 0.170
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Closure limits: Sausalito Lateral On-Ramp

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon-Thu	C	C	C	C	C	C																		C	C
Fri	C	C	C	C	C	C																			C
Sat	C	C	C	C	C	C	C	C	C															C	C
Sun	C	C	C	C	C	C	C	C	C															C	C

Legend:

C Ramp may be closed completely

No Ramp Closure Permitted

REMARKS:

- Detour traffic per Drawing No. TC-18.

**Chart no. 10**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin	Route/Direction: US-101/NB	PM: MRN 0.65 &0.084
Closure limits: Vista Point On-Ramp/Off-Ramp		

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely
- No Ramp Closure Permitted

REMARKS:

- This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs

**Chart no. 11**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin	Route/Direction: US-101/NB	PM: MRN 0.264
Closure limits: Sausalito Lateral Off-Ramp		

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely.
- No Ramp Closure Permitted.

REMARKS:

- This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-8.

**Chart no. 12**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin		Route/Direction: US-101/SB										PM: MRN 1.71													
Closure limits: Spencer Ave. On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely
- No Ramp Closure Permitted

REMARKS:

- This chart shall be used during only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-8.

**Chart no. 13**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin		Route/Direction: US-101/SB										PM: MRN 0.235													
Closure limits: Sausalito Lateral Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely
- No Ramp Closure Permitted

REMARKS:

- This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-8.

**Chart no. 14**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin		Route/Direction: US-101/SB										PM: MRN 0.170													
Closure limits: Sausalito Lateral On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely.
- No Ramp Closure Permitted.

REMARKS:

- This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-8.

**Chart no. 15**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin		Route/Direction: US-101/SB										PM: MRN 2.56													
Closure limits: Rodeo Ave On-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely.
- No Ramp Closure Permitted.

REMARKS:

- This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-8.

**Chart no. 16**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: Marin	Route/Direction: US-101/SB	PM: MRN 3.40
Closure limits: Donahue Street On-Ramp		

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely.
- No Ramp Closure Permitted.

**REMARKS:**

- This chart shall be used during only one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-8.

**Chart no. 17**  
**52-hour weekend closure**  
**Ramp Closure Hours/Ramp Lane Requirements**

County: San Francisco	Route/Direction: US-101/NB	PM: SF 9.80 and 9.82
Closure limits: Merchant Road Off-Ramp/On-Ramp		

Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

- C Ramp may be closed completely
- No Ramp Closure Permitted

**REMARKS:**

- This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs.
- Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.
- Detour traffic per Drawing No. CS-7.

<b>Chart no. 18</b> <b>52-hour weekend closure</b> <b>Ramp Closure Hours/Ramp Lane Requirements</b>																									
County: San Francisco							Route/Direction: US-101/SB							PM: SF 9.82											
Closure limits: Merchant Road Off-Ramp																									
Hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	C	C	C	C																					
Sat	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sun	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend: <input type="checkbox"/> C Ramp may be closed completely. <input type="checkbox"/> No Ramp Closure Permitted.																									
REMARKS: <ul style="list-style-type: none"> <li>This chart shall be used only during one 52-hour weekend closure beginning Saturday at 0000 hrs and opening Monday at 0400 hrs</li> <li>Provide one 12-foot wide lane open in direction of travel to authorized vehicles in accordance with Section 5-1.04, "Order of Work" of the Special Provisions.</li> <li>Detour traffic per Drawing No. CS-7.</li> </ul>																									

**Replace section 12-4.05H with:**

**12-4.05H PAYMENT**

Full compensation for furnishing all labor, material, tools, equipment and incidentals and for doing all work involved in maintaining traffic, including preparing and submitting Construction Management Traffic Plan, Plan supplements and contingency plans in accordance with the Plans and with the provisions of this section "Maintaining Traffic" shall be considered as included in the Contract Lump Sum price paid for either Contract Item: Traffic Control System or Contract Item: Traffic Control System (Weekend Bridge Closure) and no additional compensation shall be allowed thereof.

**Replace section 12-5 with:**

**12-5 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE**

**12-5.01 GENERAL**

Section 12-5 includes specifications for closing traffic lanes, ramps, or a combination, with stationary and moving lane closures on multilane highways and 2-lane, 2-way highways. The traffic control system for a lane closure or a ramp closure must comply with the details shown.

Traffic control system includes signs.

**12-5.02 MATERIALS**

Vehicles equipped with attenuators must comply with section 12-3.13 of the special provisions.

## **12-5.03 CONSTRUCTION**

### **12-5.03A General**

Whenever components of the traffic control system are displaced or cease to operate or function as specified from any cause, immediately repair the components to the original condition or replace the components and restore the components to the original location.

### **12-5.03B Stationary Lane Closures**

For a stationary lane closure, ramp closure, or a combination, made only for the work period, remove the components of the traffic control system from the traveled way and shoulder, except for portable delineators placed along open trenches or excavation adjacent to the traveled way at the end of each work period. You may store the components at selected central locations designated by the Engineer within the limits of the highway.

For multilane freeway or expressway lane closures, do not place the 2L tangent section shown along lane lines between the lane closure tapers.

### **12-5.03C Moving Lane Closures**

A changeable message sign used in a moving lane closure must comply with section 12-3.12 except the sign must be truck-mounted. The full operational height to the bottom of the sign may be less than 7 feet above the ground but must be as high as practicable.

A flashing arrow sign used in a moving lane closure must be truck-mounted. Operate the flashing arrow sign in the caution display mode whenever it is being used on a 2-lane, 2-way highway.

## **12-5.04 PAYMENT**

Flagging costs are included in the payment for Traffic Control System or Traffic Control System (Weekend Bridge Closure).

Traffic control system for lane closure is paid for as traffic control system.

The requirements in section 4-1.05 for payment adjustment do not apply to traffic control system. Adjustments in compensation for traffic control system will be made for an increase or decrease in traffic control work if ordered and will be made on the basis of the cost of the necessary increased or decreased traffic control. The adjustment will be made on a force account basis for increased work and estimated on the same basis in the case of decreased work.

A traffic control system required by change order work is paid for as a part of the change order work.

## **Replace section 12-8 with: 12-8 TEMPORARY PAVEMENT DELINEATION**

### **12-8.01 GENERAL**

Section 12-8 includes specifications for placing, applying, maintaining, and removing temporary pavement delineation.

Temporary signing for no-passing zones must comply with section 12-3.06.

Temporary traffic stripes and pavement markings used for temporary delineation must be temporary painted traffic stripes and painted pavement markings and must comply with section 84-3. Temporary traffic stripes shown as Detail 13M on the plans must include temporary pavement markers as shown.

During 52-hour weekend closure of the bridge, should inclement weather or when atmospheric temperatures drop below the allowed limits for installation of temporary painted traffic stripes or painted pavement markings in Section 84-3, the Contractor must place temporary pavement markers instead of the temporary painted traffic stripes for the work under stage 5N or instead of permanent lane striping for



the work under stage 4S shown on the Stage Construction plans. The temporary pavement markers must be on the Authorized Material List. The Contractor must replace the temporary pavement markers with the temporary painted traffic stripes or the permanent lane striping respectively during the next work shift when the weather and temperature allows the installation of the temporary painted traffic stripes and permanent lane striping.

## **12-8.02 MATERIALS**

### **12-8.02A General**

Not Used

### **12-8.02B Temporary Lane Line and Centerline Delineation**

Temporary pavement markers must be the same color as the lane line or centerline markers being replaced. Temporary pavement markers must be temporary pavement markers on the Authorized Material List for short-term day/night use, 14 days or less, or long-term day/night use, 180 days or less. Place temporary pavement markers under the manufacturer's instructions.

### **12-8.02C Temporary Edge Line Delineation**

On multilane roadways, freeways, and expressways open to traffic where edge lines are obliterated and temporary pavement delineation to replace those edge lines is not shown, provide temporary pavement delineation for:

1. Right edge lines consisting of (1) a solid 4-inch wide traffic stripe tape of the same color as the stripe being replaced, (2) traffic cones, or (3) portable delineators or channelizers placed longitudinally at intervals not exceeding 100 feet
2. Left edge lines consisting of (1) solid 4-inch wide traffic stripe tape of the same color as the stripe being replaced, (2) traffic cones, (3) portable delineators or channelizers placed longitudinally at intervals not exceeding 100 feet, or (4) temporary pavement markers placed longitudinally at intervals not exceeding 6 feet

### **12-8.02D Temporary Traffic Stripe Tape**

Temporary traffic stripe tape must be one of the types of temporary, removable striping tape on the Authorized Material List.

### **12-8.02E Temporary Traffic Stripe Paint**

Comply with section 84-3.

### **12-8.02F Temporary Pavement Marking Tape**

Temporary pavement marking tape must be one of the types of temporary, removable pavement marking tape on the Authorized Material List and must be applied and removed as specified for applying and removing temporary, removable traffic stripe tape.

### **12-8.02G Temporary Pavement Marking Paint**

You may use one of the types of temporary removable pavement marking tape or permanent pavement marking tape on the Authorized Material List instead of temporary pavement marking paint.

### **12-8.02H Temporary Pavement Markers**

Temporary pavement markers must be one of the temporary pavement markers on the Authorized Material List for long term day/night use, 180 days or less.

## **12-8.03 CONSTRUCTION**

### **12-8.03A General**

Wherever work activities obliterate pavement delineation, place temporary or permanent pavement delineation before opening the traveled way to traffic. Place lane line and centerline pavement delineation for traveled ways open to traffic. On multilane roadways, freeways and expressways, place edge line delineation for traveled ways open to traffic.

Establish the alignment for the temporary pavement delineation including required lines or markers. Surfaces to receive an application of paint or removable traffic tape must be dry and free of dirt and loose material. Do not apply temporary pavement delineation over existing pavement delineation or other temporary pavement delineation. Maintain temporary pavement delineation until it is superseded or you replace it with a new pattern of temporary pavement delineation or permanent pavement delineation.

When the Engineer determines the temporary pavement delineation is no longer required for the direction of traffic, remove the temporary pavement markers, underlying adhesive, and removable traffic tape from the final layer of surfacing and from the existing pavement to remain in place. Remove temporary pavement delineation that conflicts with any subsequent or new traffic pattern for the area.

#### **12-8.03B Temporary Lane line and Centerline Delineation**

Whenever lane lines or centerlines are obliterated and temporary pavement delineation to replace the lines is not shown, the minimum lane line and centerline delineation must consist of temporary pavement markers placed longitudinally at intervals not exceeding 24 feet. For temporary pavement markers on the Authorized Material List for long-term day/night use, 180 days or less, cement the markers to the surfacing with the adhesive recommended by the manufacturer except do not use epoxy adhesive to place the pavement markers in areas where removal of the markers will be required.

For temporary lane line or centerline delineation consisting entirely of temporary pavement markers on the Authorized Material List for short-term day/night use, 14 days or less, place the markers longitudinally at intervals not exceeding 24 feet. Do not use the markers for more than 14 days on lanes opened to traffic. Place the permanent pavement delineation before the end of the 14 days. If the permanent pavement delineation is not placed within the 14 days, replace the temporary pavement markers with additional temporary pavement delineation equivalent to the pattern specified or shown for the permanent pavement delineation for the area. The District does not pay for the additional temporary pavement delineation.

#### **12-8.03C Temporary Edge Line Delineation**

You may apply temporary painted traffic stripe where removal of a 4-inch wide traffic stripe is not required.

The Engineer determines the lateral offset for traffic cones, portable delineators, and channelizers used for temporary edge line delineation. If traffic cones or portable delineators are used for temporary pavement delineation for edge lines, maintain the cones or delineators during hours of the day when the cones or delineators are being used for temporary edge line delineation.

Channelizers used for temporary edge line delineation must be an orange surface-mounted type. Cement channelizer bases to the pavement under section 85 for cementing pavement markers to pavement except do not use epoxy adhesive to place channelizers on the top layer of the pavement. Channelizers must be one of the 36-inch, surface-mounted types on the Authorized Material List.

Remove the temporary edge line delineation when the Engineer determines it is no longer required for the direction of traffic.

#### **12-8.03D Temporary Traffic Stripe Tape**

Apply temporary traffic stripe tape under the manufacturer's instructions. Slowly roll the tape with a rubber-tired vehicle or roller to ensure complete contact with the pavement surface. Apply the tape straight on a tangent alignment and on a true arc on a curved alignment. Do not apply the tape when the air or pavement temperature is less than 50 degrees F unless the installation procedures are authorized beforehand.

The temporary traffic stripe tape must be complete in place at the location shown before opening the traveled way to traffic.

#### **12-8.03E Temporary Traffic Stripe Paint**

Apply 2 coats of temporary traffic stripe paint for new or existing pavement.

The painted temporary traffic stripe must be complete in place at the location shown before opening the traveled way to traffic. Removal of painted temporary traffic stripe is not required unless otherwise shown.

#### **12-8.03F Temporary Pavement Marking Tape**

Apply temporary pavement marking tape at the locations shown. The tape must be complete in place at the location shown before opening the traveled way to traffic.

#### **12-8.03G Temporary Pavement Marking Paint**

Apply and maintain temporary pavement markings consisting of painted pavement markings at the locations shown. The painted temporary pavement marking must be complete in place at the location shown before opening the traveled way to traffic. Removal of painted temporary pavement marking is not required.

Apply 2 coats of temporary pavement marking paint for new or existing pavement.

#### **12- 8.03H Temporary Pavement Markers**

Place temporary pavement markers under the manufacturer's instructions. Cement the markers to the surfacing with the manufacturer's recommended adhesive, except do not use epoxy adhesive in areas where removal of the pavement markers is required.

Type A white non-reflective pavement markers used for the Detail 13M temporary pavement delineation must comply with section 85, except the waiting period before placing pavement markers on new HMA surfacing as specified in section 85-1.03 does not apply.

Temporary pavement markers (inclement weather) must be on the Authorized Material List.

You may use retroreflective pavement markers specified in section 85 instead of temporary pavement markers for long term day/night use, 180 days or less, except to simulate patterns of broken traffic stripe. Retroreflective pavement markers used for temporary pavement markers must comply with section 85, except the waiting period before placing pavement markers on new HMA surfacing as specified in section 85-1.03 does not apply. Do not use epoxy adhesive to place pavement markers in areas where removal of the pavement markers is required.

Temporary pavement markers must be complete in place before opening the traveled way to traffic.

#### **12-8.04 PAYMENT**

The requirements in section 4-1.05 for payment adjustment do not apply to temporary pavement marker (inclement weather). The actual linear feet of temporary pavement marker (inclement weather) to be paid will be based on actual number of temporary traffic stripe (paint) replaced with temporary pavement marker (inclement weather) in accordance with written direction from the Engineer.

## End Notes

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- <sup>(i)</sup> Golden Gate Bridge Seismic Retrofit Phase IIIA North Anchorage Housing/North Pylon in The City and County of San Francisco and Marin County California February 19,2008. Prepared for the Golden Gate Bridge, Highway and Transportation District by AECOM.
- <sup>(ii)</sup> Transportation Management Plan Guidelines, Division of Traffic Operations Office of System Management Operations, June 2009. California Department of Transportation.
- <sup>(iii)</sup> Plan Bay Area Project Performance Assessment: Benefit-Cost Assessment Methodology. February 2, 2012. Association of Bay Area Governments.