Metro

Los Angeles County Service Authority for Freeway Emergencies
Motorist Aid
One Gateway Plaza, Los Angeles, CA 90012,
3rd Floor, Metro Board Conference Room

LASAFE

Agenda - Final

Thursday, June 25, 2015

9:00 AM

One Gateway Plaza, Los Angeles, CA 90012,
3rd Floor, Metro Board Room

LA SAFE

Eric Garcetti, Chair
Mark Ridley-Thomas, 1st Vice Chair
John Fasana, 2nd Vice Chair
Michael Antonovich
Mike Bonin
James Butts
Diane DuBois
Jacquelyn Dupont-Walker
Don Knabe
Paul Krekorian
Sheila Kuehl
Ara Najarian
Hilda Solis
Carrie Bowen, non-voting member

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The public may also address the Board on non-agenda items within the subject matter jurisdiction of the Board during the public comment period, which will be held at the beginning and/or end of each meeting. Each person will be allowed to speak for up to three (3) minutes per meeting and may speak no more than once during the Public Comment period. Speakers will be called according to the order in which the speaker request forms are received. Elected officials, not their staff or deputies, may be called out of order and prior to the Board's consideration of the relevant item.
In accordance with State Law (Brown Act), all matters to be acted on by the MTA Board must be posted at least 72 hours prior to the Board meeting. In case of emergency, or when a subject matter arises subsequent to the posting of the agenda, upon making certain findings, the Board may act on an item that is not on the posted agenda.

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a. Disorderly behavior toward the Board or any member of the staff thereof, tending to interrupt the due and orderly course of said meeting.
b. A breach of the peace, boisterous conduct or violent disturbance, tending to interrupt the due and orderly course of said meeting.
c. Disobedience of any lawful order of the Chair, which shall include an order to be seated or to refrain from addressing the Board; and
d. Any other unlawful interference with the due and orderly course of said meeting.

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NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA

CALL TO ORDER

ROLL CALL

1. APPROVE **Minutes of the Regular Board Meeting on May 22, 2014.** 2015-0962

Attachments: L.A. Safe Board Meeting Minutes on May 22, 2014

2. CONSIDER: 2015-0442

A. authorizing the Chief Executive Officer to execute Modification No. 36 to Contract No. 06SAFE035 - **Motorist Aid Travelers Information System (MATIS) with the IBI Group Inc. (IBI)** to extend the period of performance by 24 months from July 1, 2015 to June 30, 2017, and increase the contract value by $7,795,919, from $36,111,432 to $43,907,351; and

B. approving an increase to Contract Modification Authority (CMA) for Contract No. 06SAFE035, MATIS with IBI to support the system improvements in the amount of $779,592; thereby, increasing the total CMA from $5,656,106 to $6,435,698.

Attachments: Attachment A - PROCUREMENT SUMMARY

Attachment B- CONTRACT MODIFICATION /CHANGE ORDER LOG

3. ADOPT the **Fiscal Year 2015-2016 (FY16) budget** in the amount of $12,309,099 for the operation and administration of the Los Angeles County Service Authority for Freeway Emergencies (SAFE). This budget amount includes the annual funding allocations to: 2015-0444

A. the agreement with the Public Transportation Services Corporation (PTSC) for direct labor and administrative support services in the amount of $2,176,099; and

B. the agreement with the Los Angeles County Metropolitan Transportation Authority (MTA) for Freeway Service Patrol (FSP) in the amount of $2,000,000.

Attachments: ATTACHMENT A-Proposed Fiscal Year 2015-2016 Budget Summary

ATTACHMENT B - FREEWAY EMERGENCIES

Freeway Emergencies Notes and Assumption

4. AUTHORIZE the **restructuring of the Los Angeles County Kenneth Hahn Call Box System** as outlined, based upon the findings and recommendations of the recently concluded Call Box Assessment Study (Attachment A). 2015-0445

Attachments: Attachment A-Call Box Assessment Study

Consideration of items not on the posted agenda, including: items to be presented and (if requested) referred to staff; items to be placed on the agenda for action at a future meeting of the Committee or Board; and/or items requiring immediate action because of an emergency situation or where the need to take immediate action came to the attention of the Committee subsequent to the posting of the agenda.

Adjournment

Los Angeles County
Metropolitan Transportation
Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA

File #: 2015-0962, **File Type:** Informational Report **Agenda Number:** 1.

SAFE BOARD MEETING
JUNE 25, 2015

SUBJECT: LA SAFE BOARD MEETING MINUTES HELD MAY 22, 2014.

APPROVE **Minutes of the LA Safe Board Meeting on May 22, 2014.**

ATTACHMENTS

Attachment A - Regular Board Meeting Minutes on May 22, 2014

LASAFE

Los Angeles County Service Authority for Freeway Emergencies
Motorist Aid
One Gateway Plaza
Los Angeles, California 90012-2952
213.922.5652 | lasafe.net

MINUTES

LOS ANGELES COUNTY
SERVICE AUTHORITY FOR FREEWAY EMERGENCIES
(SAFE)
REGULAR BOARD MEETING
BOARD OF DIRECTORS
Metro Headquarters
3rd Floor - Board Room
One Gateway Plaza
Los Angeles

Thursday, May 22, 2014 - 9:30 a.m.

Called to order at 9:50 a.m.

Directors Present:

Diane Dubois, Chair
Eric Garcetti, 1st Vice Chair
Mark Ridley-Thomas, 2nd Vice Chair
Mike Bonin
John Fasana
Don Knabe
Paul Krekorian
Ara J. Najarian
Carrie Bowen, non-voting member

Chief Executive Officer – Arthur T. Leahy
Board Secretary - Michele Jackson
Acting Ethics Officer - Karen Gorman
Inspector General – Karen Gorman
General Counsel - County Counsel

1. APPROVED **Minutes** of Regular Board Meeting held February 27, 2014.

JF	PK	MA	PO	ZY	EG	DD	DK	MRT	AN	GM	JDW	MB
Y	Y	A	A	A	Y	Y	Y	Y	Y	A	A	Y

2. AUTHORIZED the Chief Executive Officer to award a 6-year base with two, 2-year options, firm fixed price Contract No. PS14SAFE005 to Case Systems, Inc. to provide **maintenance services to the Kenneth Hahn Call Box System** in an amount not-to-exceed $10,219,598.

JF	PK	MA	PO	ZY	EG	DD	DK	MRT	AN	GM	JDW	MB
Y	Y	A	A	A	Y	Y	Y	Y	Y	A	A	Y

3. ADOPTED the **Fiscal Year 2014 - 2015 (FY15) budget in the amount of $16,609,503 for the operation and administration of the Los Angeles County Service Authority for Freeway Emergencies (SAFE)**. This budget amount includes the annual funding allocations to

   A. the agreement with the Public Transportation Services Corporation (PTSC) for direct labor support in the amount of $2,427,903; and

   B. the agreement with the Los Angeles County Metropolitan Transportation Authority (MTA) for Freeway Service Patrol (FSP) in the amount of $5,000,000.

JF	PK	MA	PO	ZY	EG	DD	DK	MRT	AN	GM	JDW	MB
Y	Y	A	A	A	Y	Y	Y	Y	Y	A	A	Y

4. **Public Comment** – none.

ADJOURNED at 9:54 a.m.

JF = J. Fasana	ZY = Z. Yaroslavsky	MRT = M. Ridley-Thomas	PK = P. Krekorian
MB = M. Bonin	EG = E. Garcetti	AN = A. Najarian	
MA = M. Antonovich	DD = D. DuBois	GM = G. Molina	
PO = P. O'Connor	DK = D. Knabe	JDW = J. Dupont-Walker	

LEGEND: Y = YES , N = NO, C = CONFLICT, ABS = ABSTAIN, A = ABSENT, P = PRESENT
C = Soft Conflict; C = Hard Conflict

Prepared by: Collette Langston, Board Specialist

Michele Jackson, Board Secretary

File #: 2015-0442, **File Type:** Contract **Agenda Number:** 2.

SAFE BOARD MEETING
JUNE 25, 2015

SUBJECT: CONTRACT NO. 06SAFE035 MOTORIST AID TRAVELER INFORMATION SYSTEM

ACTION: APPROVE RECOMMENDATIONS

RECOMMENDATION

CONSIDER:

A. authorizing the Chief Executive Officer to execute Modification No. 36 to Contract No. 06SAFE035 - **Motorist Aid Travelers Information System (MATIS) with the IBI Group Inc. (IBI)** to extend the period of performance by 24 months from July 1, 2015 to June 30, 2017, and increase the contract value by $7,795,919, from $36,111,432 to $43,907,351; and

B. approving an increase to Contract Modification Authority (CMA) for Contract No. 06SAFE035, MATIS with IBI to support the system improvements in the amount of $779,592; thereby, increasing the total CMA from $5,656,106 to $6,435,698.

ISSUE

Southern California 511, a component of the MATIS Program, is an operational system that provides real-time traveler information and motorist aid services. The current vendor operates the system. Since program implementation, technology has progressed to a point where the current system is outdated and becoming more difficult to maintain. While staff is focused on procurement, development, integration and deployment of a new 511 system; in the interim, the requested modification is necessary to address the following:

- The current contract is set to expire on June 30, 2015, requiring a 24 month extension to provide sufficient time to retain a new contractor and to seamlessly transition the service. The time extension will allow for concurrent operation of the two systems to ensure a smooth migration from the existing to the new system.

- Since 511 is an operational system, there are a number of unforeseen issues that arise requiring additional funding. Examples of these are:

    - Transit Partners Joining

- Application Program Interface update
- Telephone System updates
- Real-time arrivals predictions from transit providers
- Interactive Voice Recognition Call Flow Improvements
- Support of the TAP program
- Mobile Application Improvements
- ExpressLanes, ExpressPark, Veterans Transportation and Community Living Initiative and Motorist Aid Support

All proposed updates subject to negotiation prior to implementation to ensure fiscal responsibility by LA SAFE.

Additionally if the selected contractor completes the development, integration, and deployment of the new 511 system prior to the conclusion of this extension, the extension will be terminated resulting in a cost savings.

DISCUSSION

Background

On February 28, 2008, the Los Angeles Service Authority for Freeway Emergencies (LA SAFE) Board awarded a 10-year, Fixed Price, indefinite quantity contract to IBI Group, Inc. for the development, deployment, operation, and maintenance of MATIS in an amount not-to exceed $34,000,000, inclusive of two, two-year options, and a 10% CMA. MATIS evolved to become the Southern California 511 Program, an operational system that provides real-time traveler information and motorist aid services to approximately 400,000 users per month. Southern California 511 was designed and developed by LA SAFE in partnership with Los Angeles County Metropolitan Transportation Authority (Metro), Orange County Transportation Authority, Ventura County Transportation Commission, California Highway Patrol and the California Department of Transportation. In accordance with the mandates of § 5306 of the 2005 Federal Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), the regional 511 system ensures that the Los Angeles County region meets the requirement regarding deployment of a national, inter-operable 511 Traveler Information system. Over the past years through board approved modifications, the contract amount has been increased to $36,111,432.

Existing Technology

Technology has progressed to a point where the current system is outdated and is becoming difficult to maintain. The requested modification is necessary to allow staff to extend the contract to June 30, 2017, to allow for the development, procuring and implementation of a new state-of-the-art 511 system.

As a result of user feedback, requests from partner agencies, and technological changes to improve the reliability/accuracy of data, the original design and development of Southern California 511 has undergone changes. Additional funding is required to support pending and unforeseen operational

needs, maintenance requirements, and system improvements due to the addition of new transit partners and traffic data sources.

As an on-going operation and technology based service, it was anticipated that there will be a continuing need to improve services and provide additional features. The improvements to date have resulted in the provision of more reliable information to the public enabling Southern California 511 to support major events such as:

- Amber Alerts
- 405 Bridge Bash
- 60 Summer Slam
- 405 Construction closure updates
- Carmageddon I&II
- Caltrans reoccurring maintenance closures
- Unanticipated major incidents

Currently, there are a number of additional improvements slated for 2015 that will further enhance the types of information and quality of service provided by Southern California 511. The following are improvements either pending or under consideration for which the new CMA is requested:

- Integration of Torrance Transit-Bus Arrival Information System;
- Integration of Montebello Transit-Bus Arrival Information System;
- Integration of Antelope Valley Transit-Bus Arrival Information System;
- Integration of Real-time traffic data from Nokia for the 5 County Area
- Integration of Veterans' transportation information (VetsGo511);
- Improvements of the web-site;

Next Generation 511

It is anticipated that by June 2017, the next generation Southern California 511 system will be fully implemented and operational. The updated system will utilize current and expandable technologies and be scalable to accommodate the anticipated rapid growth in partners. Lessons learned from the initial deployment will be incorporated into the work plan for the next generation 511 as staff strives to make the new system more agile, responsive, user-friendly and easier to maintain.

DETERMINATION OF SAFETY IMPACT

A critical role of effectively managing freeway incidents is the prompt and accurate dissemination of information to the public. This action will enable MATIS to improve its operations to provide enhanced and more actionable information to the public thereby reducing congestion and possible safety impacts.

FINANCIAL IMPACT

LA SAFE budgeted $3,600,000 in the FY 16 proposed budget for this effort in cost center 3351, LA

SAFE, 300209, Traveler Information Services - Contract Services.

Since this is a multi-year contract, the cost center manager and Executive Officer will be accountable for budgeting the cost in future years, including any options exercised.

ALTERNATIVES CONSIDERED

The SAFE Board may elect not to approve these recommendations. This option is not recommended as SAFE will no longer be able to provide this service on which approximately 300 thousand monthly users and many partner agencies rely.

NEXT STEPS

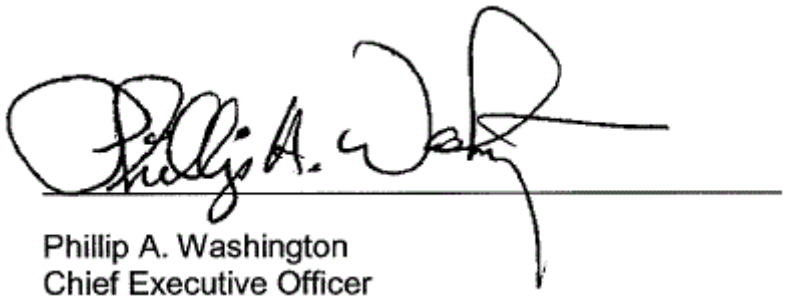
Upon Board approval, staff will execute the Modification.

ATTACHMENTS

A. Procurement Summary
B. Contract Modification/Change Order Log

Prepared by: Iain Fairweather, Sr. Program Manager LA SAFE, (213) 922-5650
Ken Coleman, Deputy Executive Officer LA SAFE, (213) 922-2951

Reviewed by: Shahrzad Amiri, Executive Officer LA SAFE, (213) 922-3061
Ivan Page, Executive Director (Interim), Vendor/Contract Management (213) 922-6383



Phillip A. Washington
Chief Executive Officer

PROCUREMENT SUMMARY

MOTORIST AID TRAVELER INFORMATION SYSTEM/ CONTRACT NO. 06SAFE035

1.	**Contract Number**: 06SAFE035			
2.	**Contractor**: IBI Group, Inc.			
3.	**Mod. Work Description**: Continued operations from 7/1/15 to 6/30/17 and expansion of Motorist Aid Traveler and Information System (MATIS).			
4.	**Contract Work Description**: Development, deployment, operation and maintenance of MATIS			
5.	**The following data is current as of**: 4/24/15			
6.	**Contract Completion Status**		**Financial Status**	
	Contract Awarded:	3/1/08	**Contract Award Amount:**	$30,880,680
	Notice to Proceed (NTP):	3/1/08	**Total of Modifications Approved:**	$5,230,752
	Original Complete Date:	2/28/14	**Pending Modifications (including this action):**	$7,795,919
	Current Est. Complete Date:	6/30/17	**Current Contract Value (with this action):**	$43,907,351
7.	**Contract Administrator**: Victor Zepeda		**Telephone Number**: (213) 922-1458	
8.	**Program Manager**: Iain Fairweather		**Telephone Number**: (213) 922-5650	

A. Procurement Background

This Board Action is to approve Modification No. 36 to continue operations of MATIS from July 1, 2015 to June 30, 2017. Further, staff recommends additional Contract Modification Authority (CMA) for expansion of the program by adding additional transportation partners and maintaining or upgrading current transportation information features.

This contract modification and future modifications will be processed in accordance with LA SAFE's Acquisition Policy and the contract type is a Firm Fixed Price.

On February 28, 2008, the LA SAFE Board awarded a six-year base Contract No. 06SAFE035 to IBI Group, Inc. for the development, deployment, operation and maintenance of MATIS for $30,880,680 with two, two-year options.

Attachment B shows that 35 modifications have been issued to date.

B. Cost/Price Analysis

The recommended price is determined to be fair and reasonable based upon a current independent cost estimate, cost analysis, technical evaluation, clarifications, and fact finding. IBI has agreed to continue the service for the two-year extension at no increase to their rates.

Proposed Amount	Metro ICE	Negotiated Amount
$7,795,919	$7,822,935	$7,795,919

Additionally, LA SAFE and IBI Group Inc. negotiated and agreed to end the contract early with a 30 day written notice, if the selected contractor develops, implements, and deploys the new 511 system prior to the 24 month period of performance.

C. Small Business Participation

IBI Group, Inc., made a 5.10% Small Business Enterprise (SBE) commitment. The current SBE participation is 6.33%. IBI is exceeding their SBE goal commitment.

SMALL BUSINESS COMMITMENT	5.10% SBE	SMALL BUSINESS PARTICIPATION	6.33% SBE

	SBE Subcontractors	% Committed	Current Participation[1]
1.	InterBase Corporation	5.10%	2.93%
2.	AAMCOM (added)	0.00%	3.40%
	Total	**5.10%**	**6.33%**

[1]*Current Participation = Total Actual Amount Paid-to-Date to DBE firms ÷Total Actual Amount Paid-to-date to Prime.*

D. Living Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy has not been adopted by LA SAFE; therefore, the policy will not apply to this modification.

ATTACHMENT B

CONTRACT MODIFICATION/CHANGE ORDER LOG

MOTORIST AID TRAVELER INFORMATION SYSTEM/ CONTRACT NO. 06SAFE035

Mod. No.	Description	Date	Mod. Amount
1.	Revised Contractor Key Personnel	3-1-08	$0
2.	• Revised Pricing Schedule • Extended Phase I - Baseline Start-up Schedule	3-13-08	$0
3.	• Extended Period of Performance - Base Contract • Extended Period of Performance – Phase I MATIS Development and Deployment • Reallocated level of efforts: Re-scoped Phase I Design and Development and De-scoped Phase II Call Center O&M	3-6-09	$0
4.	• Revised Statement of Work to add a Point-to-Point Data Link between Caltrans District 8 TMC and the MATIS Hosting Facility • Increased Contract Pricing Schedule	7-22-09	$16,159
5.	• Extended Period of Performance - Base Contract • Extended Period of Performance – Phase I Project Management • Reallocated level of efforts: Re-scoped Phase I Design and Development and De-scoped Phase II Call Center O&M	6-1-09	$0
6.	Expanded the Southern California 511 Interactive Voice Response (IVR) Automated Trip Transit Planner service to include Orange County per March 25, 2010 Board Approval	6-26-09	$704,114
7.	Revised Contractor Key Personnel	9-8-09	$0
8.	Revised Statement of Work to include transfer of toll free numbers to LA SAFE at Contract completion	9-14-09	$0
9.	Revised Statement of Work for added IVR Report Requirements	10-22-09	$20,000
10.	• Revised Statement of Work to include the Traveler Information Center (TIC) development and O&M.	1-15-10	

	• Reallocated funds from Phase II for TIC development; and from Year 10 for TIC O&M		$927,603
11.	Extended TIC O&M Performance period	10-21-10	$210,383
12.	Expanded IVR and Web to include Bus Arrival Information System (BAIS) Design and Development	3-23-11	$107,321
13.	Extended TIC O&M Performance period	6-21-11	$414,845
14.	Extended TIC O&M Performance period	12-27-11	$276,563
15.	Incorporated Design, Development, and Deployment of Application Programming Interface (API) in support of a 511 mobile application	4-17-12	$125,000
16.	Incorporated Design, Development, and Deployment of CHP CAD Interface	4-5-12	$34,731
17.	Extended TIC O&M Performance period	6-20-12	$276,563
18.	Advanced Change Order Rates (FY 12/13)	8-1-12	$0
19.	Revised Contractor Key Personnel	8-5-12	$0
20.	Extended TIC O&M Performance period	12-20-12	$138,282
21.	Extended TIC O&M Performance period	4-29-13	$270,000
22.	Incorporate the Design, Development, and Deployment of Access Services	12-2-13	$163,924
23.	Incorporate the development of: • Metro Express Lanes; Phases1, 2 and 3 • Los Angeles Department of Transportation • Express Park • #399 mobile call box/motorist aid services • Call Center Agent Training	1-17-14	$352,792
24.	Extended TIC O&M Performance period	2-5-14	$76,832
25.	Revised Contractor Key Personnel	3-26-14	$0
26.	Extended TIC O&M Performance period	4-11-14	$48,531
27.	Extended TIC O&M Performance period	5-8-14	$72,799
28.	Change order to include: O&M services for: • Express Lanes • Access Services – IVR only • Polylines for Web application • Stale data • ERS Snapping • Third party data feeds • Call center call volume Design, Development, and	6-25-14	$399,631

	Implementation of Pasadena ARTS, Glendale Beeline and Nextrip		
29.	De-scope of Fleet Monitoring Services	6-25-14	-$161,501
30.	Advanced Change Order Rates (FY 14/15)	7-18-14	$0
31.	Extended TIC O&M Performance period	8-18-14	$439,769
32.	Revised Statement of Work to include Express Lanes Main Menu & Transfer option	8-28-14	$11,859
33.	Revised Statement of Work to include Local Project Manager services	12-9-14	$304,552
34.	Incorporate: • Near Term Enhancements De-scope (-$765,661.90) • Re-scope Extension of Services to June 30, 2015 (reallocate $488,033.46) • Re-scope Web Enhancements (reallocate $230,687.53) • Re-scope Access Services IVR O&M (reallocate $26,142.22)	In-process (5-16-15)	$0
35.	Advanced Change Order Rates (FY 15/16)	In-process (5-16-15)	$0
36	Extend MATIS Operations (Pending Board Approval)		$7,795,919
	Total Modifications and Pending:		**$13,026,671**
	Prior CMA Authorized by Board		**$5,656,106**
	Increased CMA for this Recommended Action		**$779,592**
	Remaining CMA for Future Changes		**$1,911,481**

File #: 2015-0444, **File Type:** Budget **Agenda Number:** 3.

SAFE BOARD MEETING
JUNE 25, 2015

SUBJECT: FISCAL YEAR BUDGET

ACTION: ADOPT THE FISCAL YEAR 2015 - 2016 BUDGET

RECOMMENDATION

ADOPT the **Fiscal Year 2015-2016 (FY16) budget** in the amount of $12,309,099 for the operation and administration of the Los Angeles County Service Authority for Freeway Emergencies (SAFE). This budget amount includes the annual funding allocations to:

A. the agreement with the Public Transportation Services Corporation (PTSC) for direct labor and administrative support services in the amount of $2,176,099; and

B. the agreement with the Los Angeles County Metropolitan Transportation Authority (MTA) for Freeway Service Patrol (FSP) in the amount of $2,000,000.

ISSUE

SAFE was created in 1988, pursuant to California Streets and Highway Code Section 2550 et.seq. and is responsible for providing motorist aid services in Los Angeles County. In order to fulfill its mission SAFE needs an annual budget and requires administrative support services, which is provided via a Memorandum of Understanding (MOU), from the PTSC. A summary of the proposed FY16 budget is provided as Attachment A.

DISCUSSION

During FY15, SAFE continued to fund, develop, implement and operate a variety of motorist aid services, programs and activities. These programs, services and activities included:

- Operation of the Kenneth Hahn Call Box System
- Operation and continued development of Southern California 511 - new services/enhancements introduced include real-time transit information for Pasadena Arts and Glendale Beeline as well as the incorporation of improved Metro Rail information.
- Funding for the Metro FSP program
- Partnering with MTA to develop and implement the One Call-One Click Veterans

Transportation and Community Living Initiative (VTCLI)
- Continued coordination with MTA, Caltrans and CHP on a variety of motorist service programs including Metro FSP, the Regional Integration of Intelligent Transportation Systems (RIITS) and other regional projects that focus on improving mobility throughout Los Angeles County.

For FY16, SAFE is recommending the funding, implementation and/or operation of the following projects and activities:

- Implement the approved restructuring plan for the Kenneth Hahn Call Box System;
- Continue operation of the restructured call box system;
- Manage, improve, operate and maintain Southern California 511;
- Develop and implement new services under Southern California 511 (includes improvements to the existing system as well as funding for the development of the next generation 511 system.);
- Continue funding for the Metro Freeway Service Patrol program;
- Work with MTA and Caltrans to continue developing the new regional data environment, includes updating RIITS, integrating the Archived Data Management System (ADMS), monitoring and supporting the Waze agreement and developing other data sources;
- Work with our regional partners to identify and implement improvements to existing programs and develop new services that will improve mobility within the region - including Intelligent Transportation Systems (ITS), Connected Vehicle, and corridor management projects;

The FY16 budget of $12.3 million represents a decrease of approximately $4.3 million or 26% compared to the adopted FY15 budget. Specifically, the FY16 budget variances for each major budget category are as follows:

Category	Increase/ (Decrease)
Administration	($ 69,100)
Direct Labor	($ 251,804)
Programs & Services	($4,015,000)

The decrease in Administration is due to a reduction in budgets for computer equipment and travel. Additionally, in FY15 there was a budget allocation for the replacement of a non-revenue service vehicle that is not being budgeted this fiscal year. The remaining Administration budget provides funding for insurance and office supplies.

The decrease in Direct Labor is a due to lower overhead, fringe and non-work costs allocated to SAFE by PTSC. These costs are allocated annually by PTSC based upon their formulas and are not controlled by SAFE. Despite this decrease, the Direct Labor budget includes a request for one new FTE in FY16 to support the management and upgrade of the Regional Integration of Intelligent Transportation Systems (RIITS) program. With the implementation of Southern California 511 and the growing impact of technology in transportation, SAFE's reliance on RIITS to gather, compile, manage and provide a vast array of transportation related data has increased. This additional FTE to support RIITS will assist in the modernization of RIITS and enable RIITS to more efficiently integrate new data sources, such as real-time transit data from municipal bus agencies. This data can then be

compiled and provided to Southern California 511 for distribution to the public.

The decrease for Programs & Services is due to reductions in the Call Box budget, the Traveler Information budget and the annual funding allocation to MTA in support of Metro FSP operations. The Call Box operations budget is proposed to decrease due to lower anticipated maintenance cost as a result of implementing the planned system restructuring. The decrease to the Traveler Information budget is attributable to lower advertising and new service development costs. During this fiscal year, staff will be focused on maintaining the current system while securing a new contractor to support the development and implementation of the new 511 system. While there will be continued improvements to the 511 system, the scope of the improvements are not anticipated to be as large due to the need to transition to a new system.

Finally, the largest decrease is associated with a lower allocation of SAFE funds to Metro for FSP operations. In FY15, SAFE provided, at Metro's request, $5 million in support of FSP operations. This year, Metro requested additional funding above the historical $1 million provided by SAFE and it was agreed that staff would recommend allocating $2 million in FY16 to support Metro FSP operations. This additional funding will enable MTA to continue improving the outdated communications systems while continuing to fully fund and improve current FSP operations. As this is an annual allocation, LA SAFE and MTA will continue to meet and discuss the funding needs for FSP and the availability of LA SAFE funds and present the recommended allocation to the Board for approval each year.

A more detailed summary of each project/service as well as a breakdown of the FTE allocation is provided as part of the Five-Year Financial Forecast (Attachment B).

DETERMINATION OF SAFETY IMPACT

None

FINANCIAL IMPACT

Funding in the amount of $12,309,099 million has been included in the FY16 proposed budget in project 300209 and allocated to cost center 3351 (SAFE), 7140 (Marketing) and 0921 (Non-Departmental ITS). The Five-Year Financial Forecast demonstrates the financial capacity of SAFE to use its existing fund balance and projected revenue to fully fund the proposed FY16 budget.

ALTERNATIVES CONSIDERED

The Board has two alternatives. It can (a) decide to not adopt the proposed budget or (b) make a modification, either a decrease or an increase, to the proposed budget. Neither of these options is recommended.

To ensure the continued operation of SAFE and its programs an annual budget is required. Without the budget, SAFE will be unable to administer its programs and fulfill its statutory motorist aid mission. Modification of the proposed budget is also not recommended. The proposed budget was

developed to ensure that SAFE is sufficiently funded for FY16 and has a certain amount of flexibility to adapt to situations and opportunities as they arise. The proposed budget ensures SAFE's ability to properly fulfill its mission and comply with all existing legal and statutory requirements.

NEXT STEPS

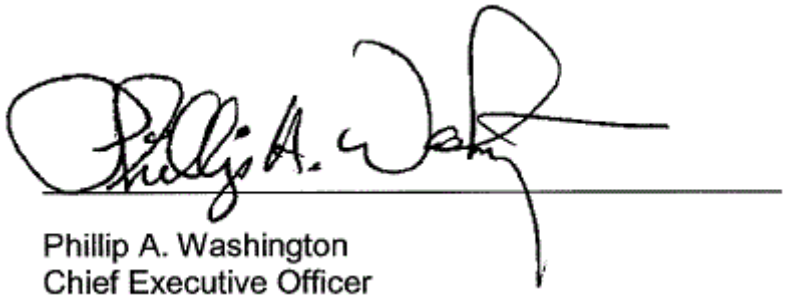
Upon approval of the proposed FY16 budget, staff will begin implementing the projects and work for FY16. Staff will monitor the budget and projects to ensure SAFE meets all its requirements in a fiscally responsible manner.

ATTACHMENTS

A. Proposed Fiscal Year 2015 - 2016 Budget Summary
B. Five Year Financial Forecast

Prepared by: Kenneth Coleman, DEO Congestion Reduction Programs (213) 922-2951

Reviewed by: Shahrzad Amiri, Executive Officer Congestion Reduction, (213) 922-3061



Phillip A. Washington
Chief Executive Officer

ATTACHMENT A

Proposed Fiscal Year 2015-2016 Budget Summary
Total Expenditure Categories

CATEGORY		*FY16 PROPOSED BUDGET*	*PERCENTAGE*
Administration		147,500	1%
Direct Labor		2,176,099	18%
Programs & Services		9,985,500	81%
	Call Box Operations	1,235,000	12%
	Traveler Information System	6,250,500	63%
	Metro Freeway Service Patrol	2,000,000	20%
	Motorist Services Improvements	500,000	5%
Total		12,309,099	

Proposed Fiscal Year 2015-2016 Budget Summary
Comparison FY15 Budget vs. FY16 Budget

CATEGORY		*FY15 BUDGET*	*FY16 PROPOSED BUDGET*	*VARIANCE*
Administration		216,600	147,500	(69,100)
Direct Labor		2,427,903	2,176,099	(251,804)
Programs & Services		13,965,000	9,985,500	(3,979,500)
	Call Box Operations	1,790,000	1,235,000	(555,000)
	Traveler Information System	6,675,000	6,250,500	(424,500)
	Metro Freeway Service Patrol	5,000,000	2,000,000	(3,000,000)
	Motorist Services Improvements	500,000	500,000	0
Total		16,609,503	12,309,099	(4,300,404)

ATTACHMENT B

LOS ANGELES COUNTY SERVICE AUTHORITY FOR FREEWAY EMERGENCIES
FINANCIAL FORECAST ($000)
FISCAL YEAR 2015-2016

	PROJECTED YEAR-END 2014/2015	PROPOSED BUDGET 2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
SAFE FUNDS							
Projected Registration Surcharge	$7,500	$7,500	$7,500	$7,500	$7,500	$7,500	$7,500
Projected SAFE Fund Balance	$29,723	$24,405	$19,852	$15,819	$12,528	$9,231	$5,879
Projected Interest	$307	$257	$215	$178	$146	$112	$79
FUNDS AVAILABLE	$37,530	$32,162	$27,567	$23,497	$20,173	$16,844	$13,458
EXPENSES/OBLIGATIONS							
Administration	$175	$148	$150	$150	$150	$150	$150
Direct Labor	$2,000	$2,176	$2,198	$2,220	$2,242	$2,264	$2,287
Programs & Services	$10,950	$9,986	$9,400	$8,600	$8,550	$8,550	$8,550
Call Box Program	*$1,000*	*$1,235*	*$1,200*	*$1,200*	*$1,200*	*$1,200*	*$1,200*
Traveler Information	*$4,825*	*$6,251*	*$6,700*	*$5,900*	*$5,850*	*$5,850*	*$5,850*
Metro Freeway Service Patrol	*$5,000*	*$2,000*	*$1,000*	*$1,000*	*$1,000*	*$1,000*	*$1,000*
Motorist Services Improvements	*$125*	*$500*	*$500*	*$500*	*$500*	*$500*	*$500*
TOTAL EXPENSE/OBLIGATIONS	$13,125	$12,310	$11,748	$10,970	$10,942	$10,964	$10,987
PROJECTED YEAR END BALANCE	$24,405	$19,852	$15,819	$12,528	$9,231	$5,879	$2,471

Los Angeles County
Service Authority for Freeway Emergencies
Five-Year Financial Forecast
Fiscal Year 2015 – 2016

Notes and Assumptions

The FY16 Five-Year Financial Forecast has been developed to provide a snapshot of SAFE's current financial situation and project the impact of the proposed FY16 budget to the overall financial condition of SAFE. The forecast is based upon the assumptions and notes listed herein.

The use of SAFE funds is strictly limited per California Streets and Highways Code Section 2550 et.seq. which requires SAFE to first use its dedicated funds to support the call box system and then enables the use of funds to support other motorist aid services.

The forecast demonstrates that SAFE currently has sufficient financial capacity to fully fund the call box system as well as other motorist aid services as proposed in the FY16 budget. SAFE has the current financial capability to absorb the impact of the FY16 budget for the next five years. However, the forecast also shows a decrease in available SAFE funds for each successive fiscal year. Staff will closely monitor the financial status of SAFE and identify and implement solutions to alleviate any potential negative financial situation in a timely manner.

This forecast includes the projected costs of operating the call box system, operating and enhancing Southern California 511, funding for Metro Freeway Service Patrol operations and funding improvements to motorist services programs. All financial figures will be refined as better information is obtained and more accurate projections can be made.

SAFE FUNDS

This section provides a summary of the projected funds available to SAFE.

- Projected Registration Surcharge

  This refers to the projected annual revenue generated by the $1.00 vehicle registration surcharge. The forecast is based upon historical figures. The forecast is a conservative forecast based upon long-term historical actuals. Overall, the registration surcharge is projected to remain relatively constant for the next five years.

- Projected SAFE Fund Balance

The SAFE fund balance shows the available funds from the end of the previous fiscal year.

- Projected Interest

  This references the projected interest income for SAFE, based upon a conservative 1.0% rate of return on the investment base. The investment base is defined as the total funds available less 50% of the projected fiscal year expenditures. The total funds available are defined as the "Projected Registration Surcharge" + "Projected SAFE Fund Balance".

EXPENSES/OBLIGATIONS

- Administration

  These are funds programmed for general administrative support services and equipment costs. Items such as travel, training, office supplies, computer equipment, insurance, legal, and other general services required for the administration of SAFE are included in this category. The cost for administration is projected to remain relatively constant at an allocation of $150,000 for the purposes of this forecast. The forecast presumes the current general operating parameters for SAFE will remain constant with the potential variable being equipment replacement and insurance costs. However, as SAFE recently replaced one of its vehicles during FY15 and as insurance costs have remained relatively stable for SAFE the cost for these items are not projected to increase during the period of the forecast. As this is an annual forecast the impact of the variable cost items will be updated each year as new information is received.

  The FY16 budget for administrative services is proposed to decrease by $69,100 compared to the adopted FY15 budget. This decrease is due to the elimination of the cost of procuring a replacement non-revenue service vehicle as well as reductions to the computer equipment and travel budgets. There are no anticipated negative impacts as a result of this budget decrease.

- Direct Labor

  These funds are programmed to cover the projected costs associated with SAFE's staffing resource needs. This includes overhead, salary, fringe benefits and as-needed labor costs. During FY16, SAFE will continue to fund the program management staffing needs for both SAFE and Motorist Services Unit (includes FSP, RIITS and other related motorist services projects). The FY16 budget for this category is $251,804 less than FY15 primarily due to changes in the overhead and related labor costs allocated to SAFE by PTSC. All of the staff provided under this category will be obtained from the Public Transportation Services Corporation (PTSC) via the existing MOU.

The FY16 FTE allocation is comprised of the following positions:

Position	FY16 Request	FY15 Authorized	Existing - New
DEO – Hwy Ops	1	1	Existing
Sr. Hwy Ops PM	1	1	Existing
Motorist Services PM	1	1	Existing
Hwy Ops PM	1	1	Existing
Trans. Planning Mgr. III	2	2	Existing
Motorist Services Tech Administrator	1	1	Existing
Sr. Hwy Ops Program Administrator	1	1	Existing
Administrative Aide	1	1	Existing
Trans. Planning Mgr. V	1	0	New
Total	**10**	**9**	

For FY16, SAFE is requesting one new FTE, a Transportation Project Manager V, to support the on-going improvement, development and operation of the Regional Integration of Intelligent Transportation Systems program (RIITS). RIITS currently has one FTE allocated to manage the program and this additional FTE is needed to ensure that RIITS is able to manage its existing operations as well as updating its aging system. RIITS is a regional transportation program that obtains, manages and distributes a variety of transportation data to and from multiple regional partners. RIITS is a primary source of transportation data for Southern California 511 and the upgrade and continued improvement of RIITS operations and data is critical to the future success of 511. This position will ensure that RIITS has additional resources to make the needed improvements to its aging system and provide an expanded level of services and data to 511 and other regional partners.

Costs for outlying years are projected to slightly increase over the forecast period. The forecast predicts a 1% annual increase in Direct Labor costs for the duration of the forecast period.

- Programs & Services

Funds programmed in direct support of the programs, projects and services operated by or to be funded by SAFE. The programs and services SAFE proposes to support during FY16 include the Kenneth Hahn Call Box System, Southern California 511 traveler information system, Metro FSP operations and Motorist Services Improvements.

The FY16 budget for this category has decreased by $4,015,000 compared to the adopted FY15 budget. This decrease is attributable to reductions in the budget allocation for Call Box Operations, Traveler Information System and the annual allocation to the Metro Freeway Service Patrol. Funding for Programs & Services is projected to decrease slightly over the next five year forecasted period. It is anticipated that the major cost associated with the operation of the traveler information system will initially increase due to the development and transition to the

next generation 511 system and then decrease in FY18 as the development activity is concluded. As funds become available and/or as new motorist aid projects are identified, SAFE will evaluate the ability to fund and/or operate new projects and incorporate the projects into the forecast as the Board authorizes them. The following is a breakdown of each program and service to be funded and/or operated by SAFE during FY16:

Call Box Program

Funds programmed to cover the costs to operate, maintain and improve the Kenneth Hahn Call Box System. The FY16 funding for the Call Box Program is proposed to decrease by $555,000 compared to the adopted FY15 budget. This decrease is attributable to the anticipated impact of the planned system restructuring. The restructuring is anticipated to result in the removal of 412 call boxes which will result in an overall decrease in the operational cost for the system.

Operational cost to fund the call box system include all day-to-day requirements to operate and maintain the call box system and is based on contractual and supplier costs to supply the services and parts to operate and maintain the system. Items include call answering services, cellular service and maintenance operations. Funding for call box operations is projected to remain stable during the course of this forecast. Should additional system restructuring occur during this period the operational cost of the system will be adjusted accordingly.

Traveler Information System – Southern California 511

Funds programmed to support the operation of the current Southern California 511 and the development of the next generation 511 system. Southern California 511 is a regional traveler information system operated in partnership with MTA, the Orange County Transportation Authority, the Ventura County Transportation Commission, CHP and Caltrans. The system provides individuals with the ability to obtain traffic, transit, commuter services and other general traveler information via their phone or the Internet. The system was deployed in June 2010 and since the launch, Southern California 511 has been used by over 11 million users. This system is represents the first iteration and steps are being taken to evaluate and determine the best path forward for the next generation of Southern California 511. Items currently under consideration include:

- improve the quality of the 511 phone system;
- improve the performance of the website;
- expand the capability of the real-time transit information (Nextrip);
- improve the quality and amount of data and information available;
- develop a general emergency platform for 511 to support in emergency situations;
- improve the alert and announcement information;
- identify how to better integrate with MTA and their enhanced customer focused initiatives;
- and a variety of other items

The FY16 allocation for this system is proposed to decrease by $460,000 compared to the FY15 allocation; however, this decrease will not negatively impact the ability of the program to operate or improve. The FY16 request includes funds for the continued development, deployment and operation of the system. The decrease is primarily due to a reduction in the funds allocated to support the marketing and advertising of Southern California 511 as well as a slight reduction in the budget for development efforts in support of the current 511 system. Allocations for FY17 shows an increase to account for the development cost of the next generation 511 system and while in FY18 the allocation is forecasted to decrease due to the completion of the initial next generation development and transition. While the operating costs are projected to remain stable from FY18 and beyond it is anticipated that there will be efficiencies realized that will lead to lower operating costs. Staff will closely monitor 511 operations to ensure that the highest quality service is provided to the public and to ensure that the system adapts to meet the needs of the region.

Metro Freeway Service Patrol Operations

Funds programmed to assist MTA with the operation of the Metro Freeway Service Patrol (FSP). Funding of the FSP program from SAFE funds is authorized as FSP is a motorist aid service. Based on discussions with MTA, staff is recommending a decrease in the allocation compared to FY15. The funding allocation is considered on an annual basis and is determined by a combination of MTA's request and available funding. For FY16, MTA requested an increase to the allocation as compared against the historical average of $1.0 million and after discussion it was agreed that staff would proceed with a recommendation to provide $2 million. The allocation for FY17 and beyond have been reduced to the $1.0 million but may be modified as MTA and SAFE meet annually to review the needs of FSP and the ability of SAFE to provide funds.

Motorist Services Improvements

Funds programmed to enable SAFE to support improvements to existing motorist services programs and/or develop new services. In the past these funds have been used to develop the Southern California 511 mobile app as well as support MTA's Veteran's Transportation grant. For FY16, these funds may be used to develop and deploy new non-planned improvements to Southern California 511; support the development of new ITS related projects which will reduce congestion and improve mobility; and develop a strategic roadmap to support current and future SAFE activities. The funding for service improvements will be allocated on an annual basis depending upon available funds, identified needs or the ability to secure new third party/grant funds.

File #: 2015-0445, **File Type:** Contract **Agenda Number:** 4.

SAFE BOARD MEEETING
JUNE 25, 2015

SUBJECT: CALL BOX SYSTEM RESTRUCTURING

ACTION: APPROVE THE RESTRUCTURING OF THE CALL BOX SYSTEM

RECOMMENDATION

AUTHORIZE the **restructuring of the Los Angeles County Kenneth Hahn Call Box System** as outlined, based upon the findings and recommendations of the recently concluded Call Box Assessment Study (Attachment A).

ISSUE

As part of the overall management of the Call Box System, an assessment Study was completed in 2014. The Study recommends that LA SAFE proceed with a four phase restructuring of the call box system resulting in the removal of approximately 412 call boxes in phase 1 from service or a 23% reduction. This recommendation is being brought to the Board for approval prior to implementation.

DISCUSSION

The Call Box system was established to provide a motorist aid service to the public. In 2007, the Board authorized an initial restructuring that transitioned the call box system from a primary motorist aid resource to a secondary safety net. This resulted in a decrease of approximately 2,500 call box sites from the initial base of 4,500 call boxes. At the time the usage of the call box system had decreased from an average of 20,000 calls per month in the year 2000 to approximately 5,000 calls per month in 2007. Current call box system usage averages approximately 1,700 calls per month spread over an installed base of approximately 1,800 call boxes.

Due to the decrease in usage and the continued proliferation of cell phones, as well as the implementation of new motorist aid services, the call box system was further evaluated to identify call boxes that are no longer useful in meeting program goals, as well as those that present a safety risk due to their location. A field site assessment of all existing locations (1,786 sites at the time of the assessment) was conducted. The field assessments were conducted during the months of May 2013, June 2013, and March 2014 and consisted of the following tasks:

1. Verification of the location and sign number data;

2. Verification of the call box site type;
3. Assessment of the availability of cell phone coverage to determine if sufficient service is available to support personal cell phone usage;
4. Confirmation of the width of the shoulder;
5. Identification of any unusual conditions such as poor sight distance, steep grade, vegetation covering the site, etc. that can pose a safety hazard to call box users and/or the motoring public;

In addition to the field assessment, a review of the maintenance history and usage data for each call box was also conducted. Utilizing the results of the field assessment, maintenance history and usage data, three main criteria were used to evaluate each call box location and determine if the box should be removed:

1. Site Type - Due to safety concerns, Caltrans has recommended the phased removal of Type B and C call boxes where they are no longer effectively used. These call box types were cut into an existing hillside (Type B) or built over an existing down slope (Type C). As such, an assessment of Type B and C call boxes with low utilization was conducted and locations identified.

2. Knockdowns - Call boxes with a history of multiple knockdowns in a year indicate a potential problematic location or site and as such were identified for removal.

3. Program Goals - The Call Box program goals are to provide motorist aid service to the public. For various reasons, primarily the proliferation of the usage of cellular telephones and other alternative emergency services available to the motorists, there are call boxes with a pattern of little or no usage.

As a result of the evaluation, a total of 412 type B and C call box sites have been recommended for removal within Phase I.

In addition to the recommendation to remove the 412 identified type B and C call box sites, the assessment also provides a working roadmap to continue identifying call box sites that are candidates for removal and/or relocation under the above criteria.

DETERMINATION OF SAFETY IMPACT

Removal of the identified call boxes is not anticipated to present any negative safety impacts. The recommendations have been reviewed by our partner agencies, Caltrans and CHP, for safety implications and both agencies concur with the findings.

FINANCIAL IMPACT

Funding of $500,000 for implementation of the restructuring has been included in the FY16 budget

request under Cost Center 3351, Project 300209 for LA SAFE.

Since this is a multi-year project, the cost center manager and Executive Officer will be accountable for budgeting the cost in future years, including any options exercised.

ALTERNATIVES CONSIDERED

The Board could elect not to approve the restructuring. Staff is not recommending this alternative, since the restructuring will ensure a more efficient, effective and safe system for the motoring public.

NEXT STEPS

Upon approval, staff will begin steps to restructure the call box system. Additionally staff will continue monitoring the system and move forward with additional call box removals as warranted and report to the Board annually of any implemented changes.

ATTACHMENTS

A. Call-Box Assessment Study

Prepared by: Iain Fairweather, Sr. Program Manager LASAFE, (213) 922-5650
Ken Coleman, Deputy Executive Officer LASAFE, (213) 922-2951

Reviewed by: Shahrzad Amiri, Executive Officer LA SAFE, (213) 922-3061

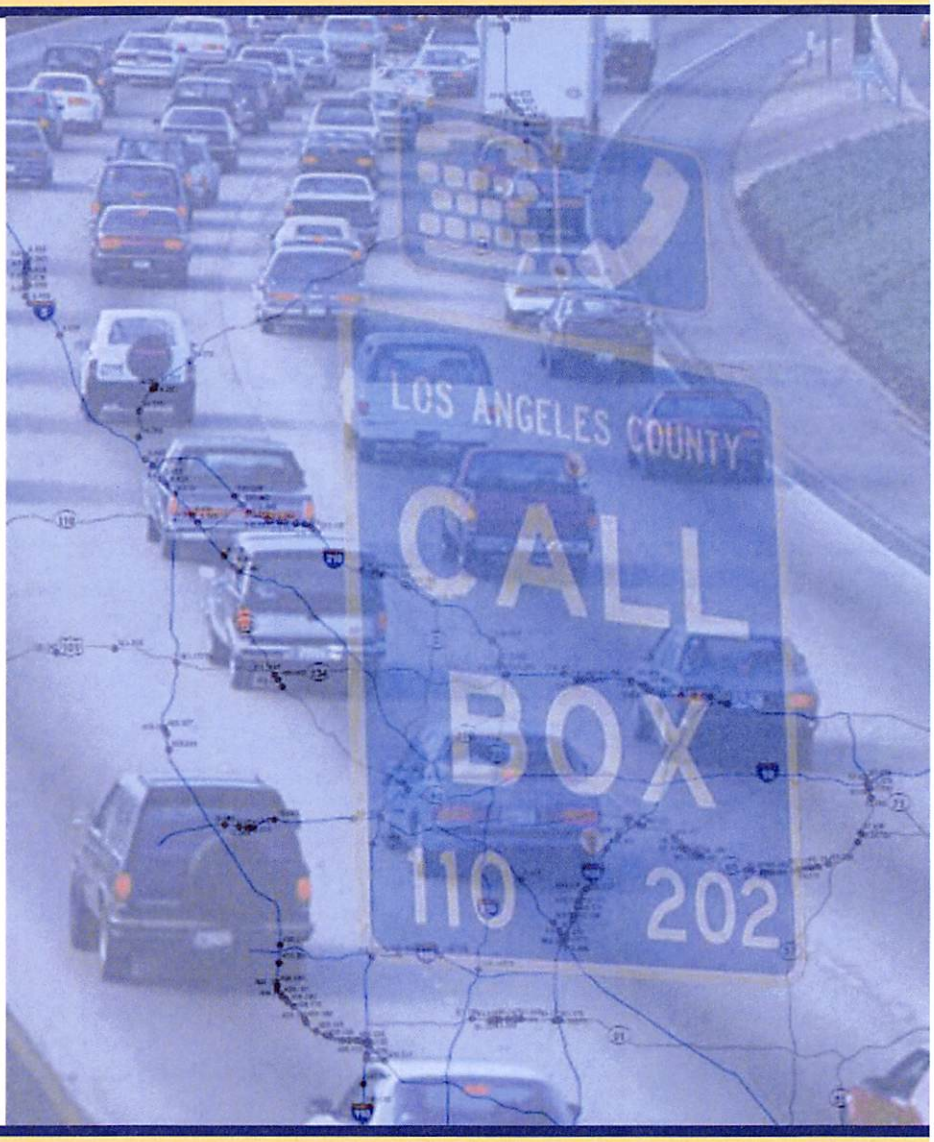
Phillip A. Washington
Chief Executive Officer

ATTACHMENT A

LASAFE

Call Box Assessment Study

May 27, 2014



J12-1798

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1.0 INTRODUCTION

The Los Angeles County Service Authority for Freeway Emergencies (LA SAFE) is responsible for call boxes that are located within Los Angeles County's freeway and highway system. The goal of this project is to evaluate the status and provide recommendations on the current deployment of the Los Angeles County Kenneth Hahn Call Box System, with an emphasis on ensuring that the call box system will continue to provide a safe, efficient, and effective service to the motoring public. One of the main objectives is to develop and establish a methodology/guideline to determine the optimal placement of call box sites given present conditions and needs, and the reduction of those call box sites that do not meet the established guidelines.

Based on the data presented in this report, it will become clear that the Call Box program, including its associated guidelines, has become inconsistent with its original intentions and that the physical boxes on the side of the road may be nearing obsolescence. This assessment study will lay out a plan for the immediate removal of call boxes that, for various reasons, no longer serve the purpose of the program. The plan will also address the future removal of boxes, potential alternative uses for sites where call boxes have been removed, and the next steps towards developing guidelines for how the program could more efficiently utilize the funding available to best serve the public with motorist aid.

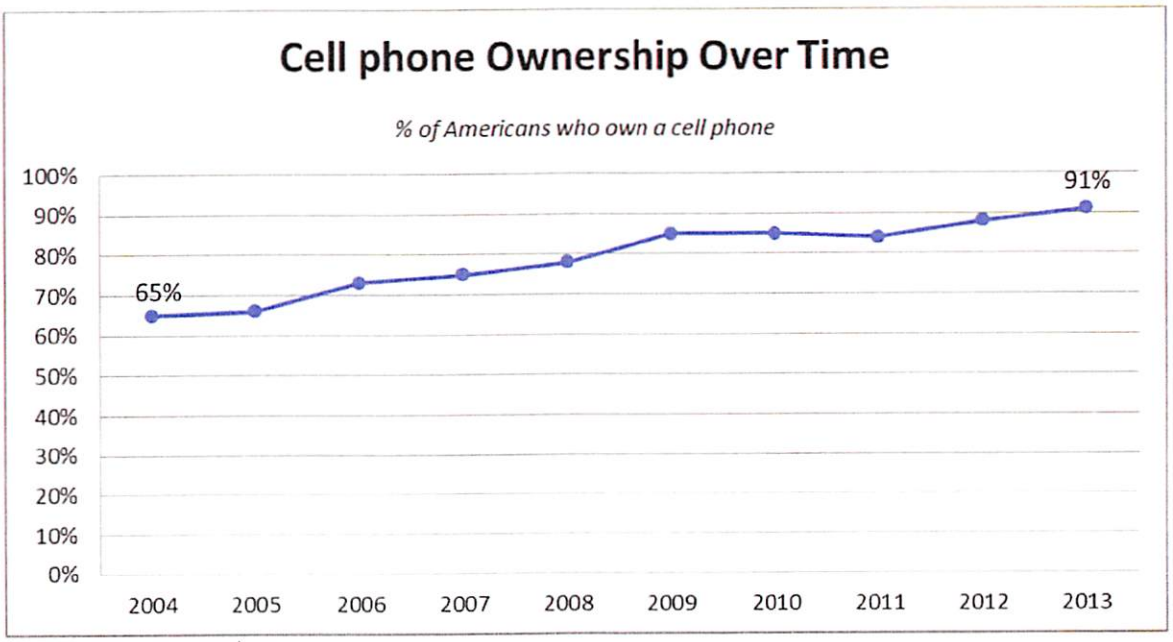
1.1 BACKGROUND

The Call Box program in the State of California was created in 1986 and is governed by individual regions and/or counties through local SAFE agencies. The program is currently funded through a $1.00 per vehicle annual registration fee and maintenance for the program is privately contracted. The annual $1.00 fee also supports other motorist aid programs within the individual counties/regions.

At its inception, the Call Box program was established for the purposes of providing motorist aid, improving safety, and incident detection. Call boxes were placed as close as one-quarter mile apart on highways in many urban areas. The call box site was intended to give the stranded motorist a feeling of security, suggesting that help would soon be on the way. Like phone booths, the call boxes were intended to provide communications access in order for stranded motorist to request for help when assistance is needed, thereby reducing exposure time and impact of the vehicle on the roadway and potentially reducing related traffic congestion. This was at a time when many other options to get assistance were not available to the general motoring public. The mobile cellular telephones or in-vehicle communications systems were just coming on the market and were not available to most people. In addition, the Metro Freeway Service Patrol (FSP), as well as the Caltrans and California Highway Patrol (CHP) Transportation Management Center (TMC) 24-hour 7-day incident management programs, did not get implemented until the 1990s.

Conditions have changed in recent years such that the need for an extensive call box system and program has been called to question. Today, there are many more options available to a stranded motorist to get expedited assistance. The Los Angeles urban freeway corridors are now extensively instrumented and equipped with sensors and cameras for active incident management systems and are monitored by Caltrans and the CHP from Transportation Management Centers (TMC) 24 hours a day, seven days a week. The corridors are also monitored by the Metro FSP during busy traffic hours, on weekdays as well as weekends. The development of the Metro 511 program allows for other motorists to call in and notify the 511 call center of a stranded vehicle or a motorist in need of assistance. At the same time, the conventional highways are now more developed with commercial businesses, such as gas stations, mini-marts, shopping centers, and restaurants, which allow a stranded motorist to seek help. The most compelling change, however, is the advancement of technology and the widespread (almost universal) use of mobile cellular telephones by the motoring public. Where portable or mobile cellular telephones were just being invented in the 1980s and introduced for the few in the 1990s, they are now widely used by the masses, basically as a necessity of life. According to a 2013 Pew Research Center survey, approximately 91% of adults in the United States currently own cell phones, up from 88% in 2012 and 83% in 2011. **Figures 1** through **3** below present survey data showing the growth of cell phone ownership and usage over the years. In addition, the survey showed that 56% of all cell phone owners currently own a smartphone, up from 46% in 2012 and 35% in 2011. These percentages are likely to be much higher in Southern California; where the median income is relatively higher and where cellular network coverage is superior to most other regions in the nation, and owning a cell phone is often regarded as a necessary personal accessory such as watches, hand bags, or wallets.

FIGURE 1: PEW RESEARCH CENTER SURVEYS ON CELL PHONE OWNERSHIP



Source: www.pewresearch.org

FIGURE 2: CTIA-THE WIRELESS ASSOCIATION DATA ON CELLPHONE SUBSCRIBERS IN US

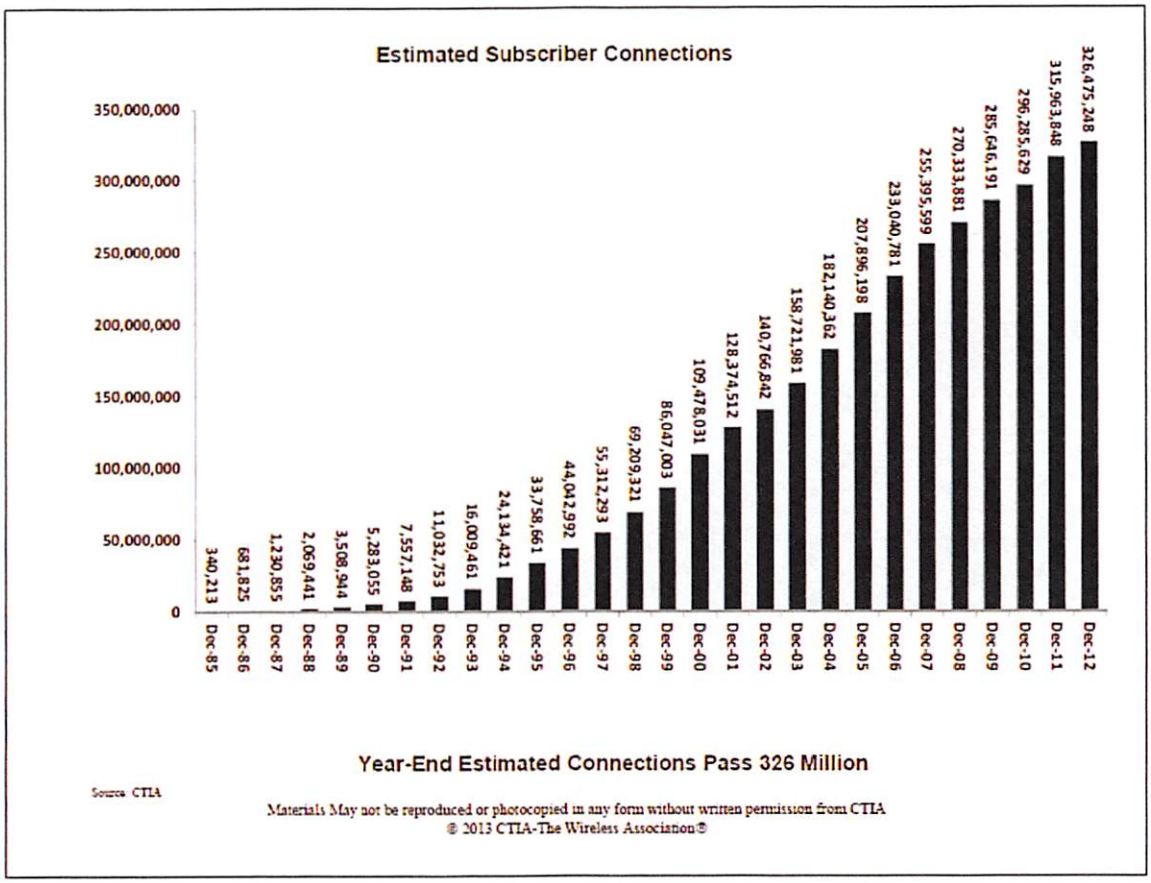
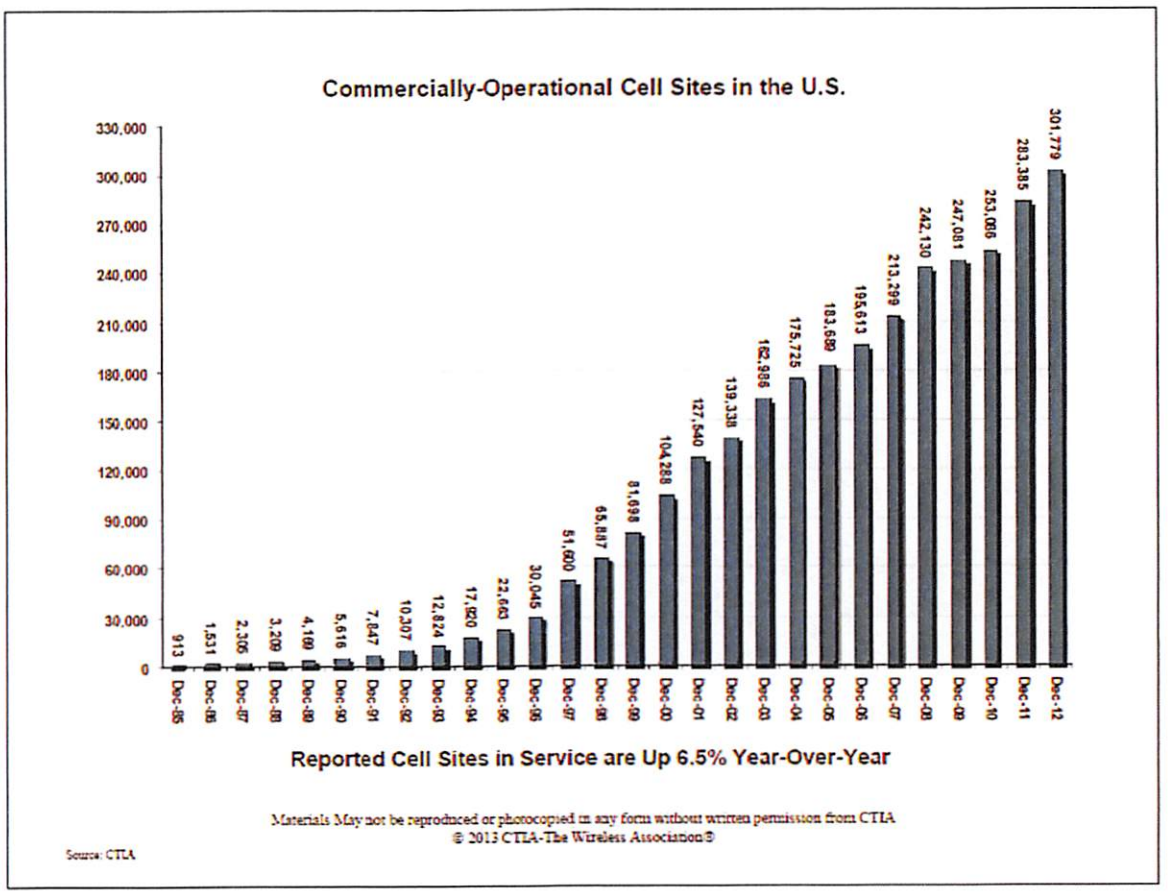
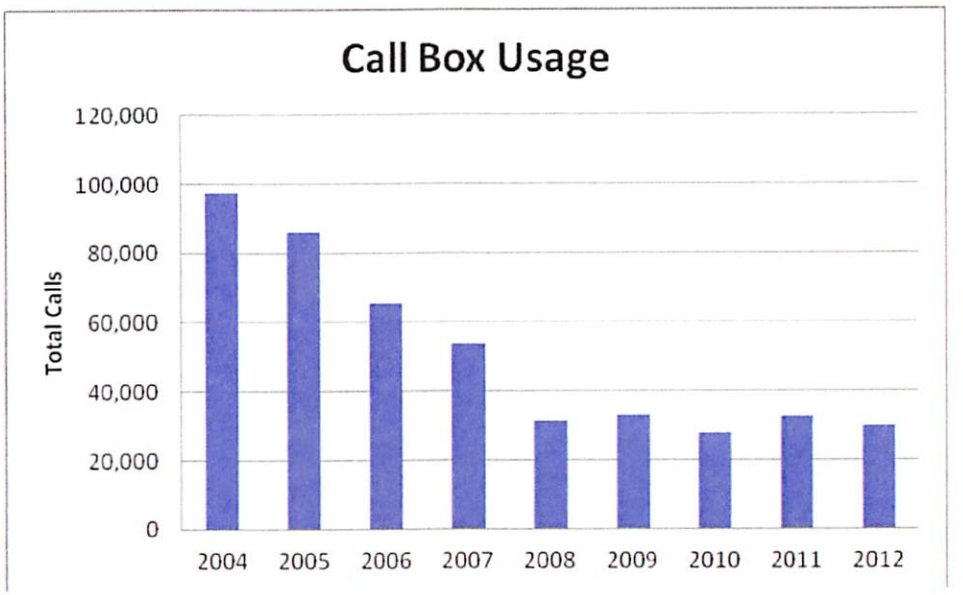


FIGURE 3: CTIA-THE WIRELESS ASSOCIATION DATA ON REPORTED CELL SITES IN US



As expected, with the increase in cell phone ownership call box usage has significantly declined during the recent years. **Figure 4** shows the general trend of total calls received on the Los Angeles County Call Box System during the past nine years. As shown in the figure, from 2004 to 2012, calls made on the system dropped from approximately 97,000 to 30,000, at an average of 13% per year.

FIGURE 4: CALL BOX CALL USAGE FROM 2004 TO 2012



Source: LA SAFE

The Call Box system receives calls of different types. **Table 1** summarizes the total number of calls per call type in 2012.

TABLE 1: 2012 CALL TYPES

Emergency Calls	890
Non-Emergency Request for Aid Calls	6,104
Subtotal	*6,994*
Non-Aid Related Incidental Calls	
Call Box Check	10,544
Duplicate Calls	1,513
Inappropriate Calls	111
No Help Calls	1,402
Incidental Calls	7,347
Subtotal	*20,917*
TOTAL	**27,911**

As indicated in **Table 1** above, out of the 27,911 composite call data for 2012, only 6,994 calls (approximately 25%) were for emergency related calls or calls requesting motorist aid. Emergency calls include calls related to accidents, ambulance requests, crime, fire, first responder, medical, road blocked, roadway hazard, or other special circumstances. Non-emergency request for motorist aid calls

include Auto Club, company dispatch, friends and family, Freeway Service Patrol, tow request, roadway hazard, and other special circumstances. Incidental calls include ghost calls, maintenance test, system runaway, training test, special circumstances, and unknown. As indicated above only about 25 percent of all call box usage data is related to actual motorist aid calls. Given the total number of 1,786 operating call boxes in Los Angeles County, on average for the entire 2012, this translates to less than 4 calls per call box.

The call box system was initiated and developed before the proliferation of the cellular telephones as a means to motorist aid. With the recent trend of ownership of cellular telephone, the widespread coverage of the cellular service with the growth of cell sites, and the provisions of other motorist aid services such as FSP, Metro go511 program, and Caltrans/CHP incident management, the call boxes are now nearing obsolescence much like the pay phones and phone booths. As such, the call box system should continuously be reevaluated and usage data analyzed to consider slowly phasing out the sites that are no longer being used or effective, and save the cost and valuable resources to operate and maintain them.

1.2 PROGRAM GOALS

As described in the CHP/Caltrans Call Box and Motorist Aid Guidelines, the California Legislature passed Senate Bill 1190 in 1985 to enable counties to generate revenue for the purpose of purchasing, installing, operating and maintaining an emergency motorist aid system. As stipulated in the Streets and Highway Code Chapter 14, Section 2550, "the Legislature declares that its intent in enacting this chapter is to encourage the placement of call boxes along the California Freeway and Expressway System to enable motorists in need of aid to obtain assistance. However, it is not intended that a motorist aid system of call boxes be considered an emergency telephone system." As such, it is acknowledged that the purpose and goal of the call box system is to provide motorist aid.

2.0 CURRENT CALL BOX SYSTEM ENVIRONMENT

In order to meet the project goals and develop a methodology for evaluating the current system, it is first necessary to discuss the current system. The Los Angeles County SAFE is the largest and most active motorist aid call box system in California. The program currently consists of 1,786 operating call boxes. The general locations of these call boxes are shown on Figure 5. Since the inception of the call box program, transportation system conditions and technology environment have changed over time, most significantly in recent years, and thus an evaluation of the overall call box system is necessary to ensure the program continues to stay relevant and meets its goals while operating in the most efficient manner possible.

In the years since the previous assessment study was conducted, various motorist aid options other than call boxes have emerged that have had a profound effect on the usage of the call box system and will affect how the overall call box program would operate in the coming years.

Los Angeles County SAFE
Call Box Assessment Study

Figure 5
Current Call Box System

2.1 Motorist Aid Alternative To Call Boxes

- **Cellular Phone Usage** – Cell phone usage has likely had the largest impact on the usage of the overall call box system. Within the past five years, the advent of "smart phone" ownership has allowed motorists to not only use their phones as a means to call or text for aid, but also as a GPS (Global Positioning System) device to identify and/or transmit their location. Accompanying cellular telephone service features include the ability to make 911 emergency calls to the CHP or other law enforcement and the 511 calls to the Metro call center. Many motorists also have roadside emergency service call centers offered by the Auto Club, insurance carriers, vehicle manufacturers, and credit card companies.

- **Freeway Service Patrol (FSP)** – Metro, in partnership with the California Department of Transportation (Caltrans) and the California Highway Patrol (CHP) manages the largest fleet of tow and service trucks in the country, known as the Los Angeles County Metro Freeway Service Patrol (FSP). This elite team of tow truck drivers spots incidents, disabled vehicles and motorists who are in need of assistance during their "patrols" and provides help to stranded motorists and removes vehicles involved in and debris from traffic accidents to keep traffic moving. This free service also greatly reduces the chances of further incidents caused by onlookers and impatient drivers. FSP trucks operate on over 400 miles of LA County freeways based on specially designed "beats". Service levels (number of trucks) vary by day of week/time of day.

- **Advanced Freeway Service Technologies** – Advanced communication systems such as the General Motor's "On Star" service, generally regarded as the nation's leading in-vehicle safety, security, and communication service, have also played a role in the reduced usage of call boxes. Other advanced technology is continuously evolving including smart phone and tablet applications. For many luxury vehicles, the vehicle computer system diagnoses problems and sends trouble notices to a call center even before the vehicle driver is aware, often including GPS coordinates.

- **Incident Management** – Caltrans and the CHP monitor the Los Angeles County freeway system 24 hours a day, 7 days a week from their joint Transportation Management Center (TMC). Most of the urban freeway corridors are instrumented with vehicle detection sensors, closed-circuit television cameras, and electronic message signs, to detect, locate and verify incidents and disabled vehicles. In many cases, CHP dispatch sends a patrol officer to a disabled vehicle even before a call for help is completed.

- **Commercial Development along Highways** – Since the late 1980s when the call boxes were introduced, commercial businesses have developed significantly along State highways. There are many more shops and businesses available now to get help rather than taking the longer walk to find the next call box along the highway.

2.2 STATEWIDE CALL BOX GUIDELINES

A set of motorist aid guidelines were originally developed by the California Highway Patrol (CHP) and Caltrans to guide statewide consistency of the call box systems, which are developed and operated on a county-by-county basis. The latest guidelines developed by CHP, Caltrans, and various SAFE agencies in California can be found in *CHP/Caltrans Call Box and Motorist Aid Guidelines* (November 2007).

The guidelines outline the roles and responsibilities of the various agencies involved in providing motorist aid services in California. The guidelines also provide guidance on the physical aspects of the call box system, such as spacing of boxes and design of the call box sites. The following paragraphs summarize some key information contained in the "Design and Construction" section of the guidelines, as they pertain to this study:

<u>Call Box Site Requirements</u>

- Within spacing requirements, call box locations will be selected to have minimal impact on highway operation. A call box will not be located where there is less than an eight foot shoulder. Any exceptions shall be reviewed and approved by the local district at Caltrans.

Where the highway shoulders are narrow, it is recognized that the liability is greater for a motorist to walk along the freeway to find the closest call box to use. This factor is more relevant today where there are many more options to call boxes for motorist aid. Motorists in need of assistance are more likely to use their cellular telephone, in vehicle communication system, wait for a passerby to call in to the 511 or 911 Call Centers, or wait for the FSP/CHP in the safety and comfort of their vehicle rather than get out to walk to a roadside call box. Even if the motorist does not have a cell phone, most motorists passing by will have a cell phone to call in for help, particularly if the vehicle is blocking a lane or is in a hazardous/emergency condition.

<u>Call Box Spacing</u>

- Within the guidelines, call box spacing should ensure motorist safety by providing the closest feasible spacing to reduce pedestrian and vehicle exposure time. Closer spacing also contributes to congestion relief by providing faster notification and clearing of disabled vehicles from the roadway.

- Variation in terrain, available revenue, urban/rural characteristics, and proximity for roadside services are factors in the decision of spacing between call boxes. For existing systems in place for two or more years, call box usage may also be considered when determining spacing. In order to allow flexibility and still maintain consistency in these installations, the county SAFEs should adhere to the following suggested spacing guidelines:

- A reasonable spacing on rural highways with low ADTs may be based on geometric and economic needs. Other factors may include the cellular coverage area and isolation. Spacing does not constitute a system of call boxes but rather a service. These call boxes should only be placed in an area where adequate safe clearance from the roadway is available.

- On Caltrans toll bridges, call boxes should be spaced between 600 to 1,200 feet, depending on whether or not adequate shoulders are provided. Special situations and deviations from this should be discussed with the district traffic liaison.

Considering the alternative motorist aid options available, call box spacing may no longer be appropriate or relevant. Where the guidelines suggest closer spacing in urban areas with higher traffic volumes, it is likely that the cellular coverage is also highest and alternatives are most abundant, including FSP service and incident management and monitoring. Where there is higher traffic volume, there are also more motorists passing by that can call for help on their cell phone, if the stranded motorist does not have one. There is less need or urgency for a motorist to walk along the freeway of a quarter mile to get to a call box today.

Call Box Removal, Relocation, and Repairs

- There may be factors, including, but not limited to, significant decreases in annual call volume, administrative issues, and operational issues, that warrant the need to remove call boxes on a systemwide basis. The SAFE will develop a systemwide call box removal plan that shall include a list of recommended call box sites to be removed, the resulting spacing between remaining adjacent sites, and justification for removal. If call boxes are being removed as a result of low call box usage, call box usage data for each call box shall also be provided. However, it should be noted that a call box may be removed due to systemwide decreases in call volume. The SAFE shall submit the call box removal plan to the CHP and Caltrans for a 60-day review and approval. With the exception of removal for construction, a removal that is planned or in existence for more than six months is considered a permanent removal and requires an approved removal plan.

- A SAFE does not need to submit a removal plan to the CHP and Caltrans for the removal of individual call boxes. However, removal of greater than 10 percent of the number of installed call boxes on any one corridor does require a removal plan.

- Where a call box has been removed, the site shall be restored to its original pre-installation conditions. All call box materials (e.g., pedestrian pads, asphalt paths, retaining walls, handrails, etc.) shall be removed from the site. The surface area where the call box was installed shall be graded flush with the surrounding soil.

- Along freeways, expressways, and divided conventional highways, call boxes shall be removed from both sides of the roadway to maintain call box pairing.

Presently, phone booths and pay phones are generally considered obsolete. The cost to operate and maintain them can no longer be offset by the benefit of the service provided with their very low usage.

Similarly, removal of call boxes should be considered now for locations where low usage cannot offset the cost to operate and maintain them, not to mention the cost of potential liability.

3.0 FIELD SITE ASSESSMENT

The first step was to conduct a field site assessment of all 1,786 locations listed in the database by physically visiting each location and conducting a site survey. The site assessments were conducted by a combination of Iteris and Wiltec staff during the months of May 2013, June 2013, and March 2014.

All field site surveys were conducted by two staff members, a driver and a passenger. At each call box location, the field staff members performed the following tasks:

1. Verified if the box existed with the sign number matching the previous database;
2. Verified the call box site type;
3. Checked the cell phone coverage in the area to determine if an adequate alternative was available;
4. Measured the width of the shoulder;
5. Noted any unusual conditions such as poor sight distance, steep grade, vegetation covering the site, etc.;

In addition, digital pictures were taken at each call box site visited for database update and future verification purposes. For those locations with construction activities along some of the freeway routes, field staff could only conduct the survey passing by the site in their vehicle and were not able to stop and measure at those locations. At some locations, field staff were able to locate and stop at the call box site, but no call box was found at the site or the box was disabled, even though the sign was present (as shown in the pictures to the right). Some of the surveyed boxes were located on transition roads where the field staff could not stop and measure. The following is a summary of the field surveys:

- 1,786 boxes were surveyed
- Of the 1,786 boxes surveyed, 1,287 boxes were verified, documented and evaluated
- 82 boxes initially listed in the database as a Type B or C were identified in the field as having a non Type B or C site type.
- 25 boxes initially listed in the database as a non Type B or C were identified in the field as being a Type B or C site type
- As a result of the adjusted site types per the field survey, it was confirmed that 229 Type B Call Boxes and 183 Type C Call Boxes currently exist.

The results of the field surveys showed that approximately 28 percent of the boxes identified in the original database did not exist in the field or could not be found by the field survey staff.

4.0 SYSTEM EVALUATION METHODOLOGY

In light of Section 1 and 2, and the results obtained from Section 3, the overall Los Angeles County Kenneth Hahn Call Box System was evaluated comprehensively. The purpose of the evaluation was to assess the call box program for effectiveness and develop a plan for efficiency moving forward into the future, considering the changes in today's climate in regards to highway motorist aid. Those locations that are still effective and needed were identified and those that are not as effective and may no longer be needed were also identified. Recommendations are then made for removal of those locations that no longer serve their purpose where the costs and potential liability far outweigh any potential benefits.

Rather than evaluating the system parameters (such as type, number, or spacing requirements), a more appropriate approach would be to re-evaluate the system as a whole in a systematic approach to consider eliminating call boxes that are no longer useful or meeting program goals and/or present an unnecessary potential liability risk, and then evaluate the system parameters as needed. The call box system right-sizing process starts by identifying and moving potentially unnecessary call boxes into a category called "call box candidate for removal" (CFR) using a systematic process. Once all of the CFR boxes have been identified, an additional "filtering"/screening process would take place to make a final determination and recommendation on which call boxes to keep and which ones to consider removing.

Three main criteria were used to place the existing call boxes verified into the CFR category. These criteria, based on the site type, knockdown history, and recent past usage of the call boxes, include the following:

1. **Site Type** – Caltrans has recommended phased removal of all Type B and C call boxes where they are no longer effectively used. As such, an assessment of Type B and C call boxes was made where low utilization sites were identified as CFR.

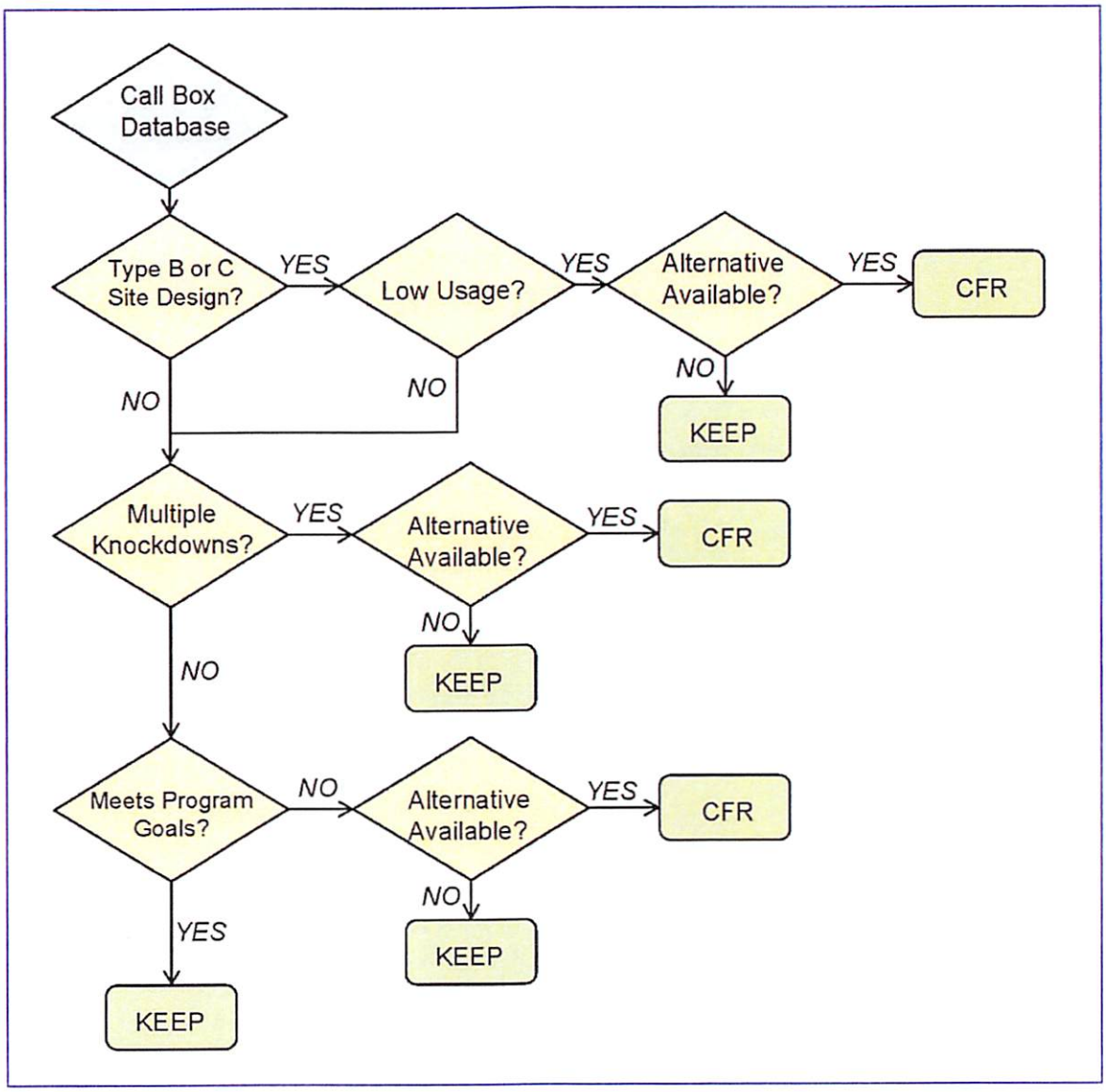
2. **Knockdowns** – Call boxes with a history of multiple knockdowns in a year indicate a potential problematic location or site, posing a liability risk for traffic safety, and were identified for removal.

3. **Program Goals** – The Call Box program goals are to provide motorist aid service to the public. For various reasons such as the proliferation of cell phone usage and other alternative help avenues, there are call boxes with a pattern of little or no usage. If these boxes are not being used, then they do not meet program goals any longer and were identified for removal.

As part of the CFR determination process, each call box was subject to a final check at each of the three criteria levels. This check consisted of an evaluation of other motorist aid alternatives that would be available to a stranded motorist if the box was removed. These alternatives include FSP coverage, strong cellular phone coverage, incident management instrumentation and monitoring coverage, and/or

nearby commercial uses at which to seek help in the absence of the other alternatives. While it is rare that none of these alternatives would be available within Los Angeles County, some boxes located in relatively less urban and/or rural areas such as on State Routes 2, 27, and 38 were identified in the initial stage and were kept off the CFR list.

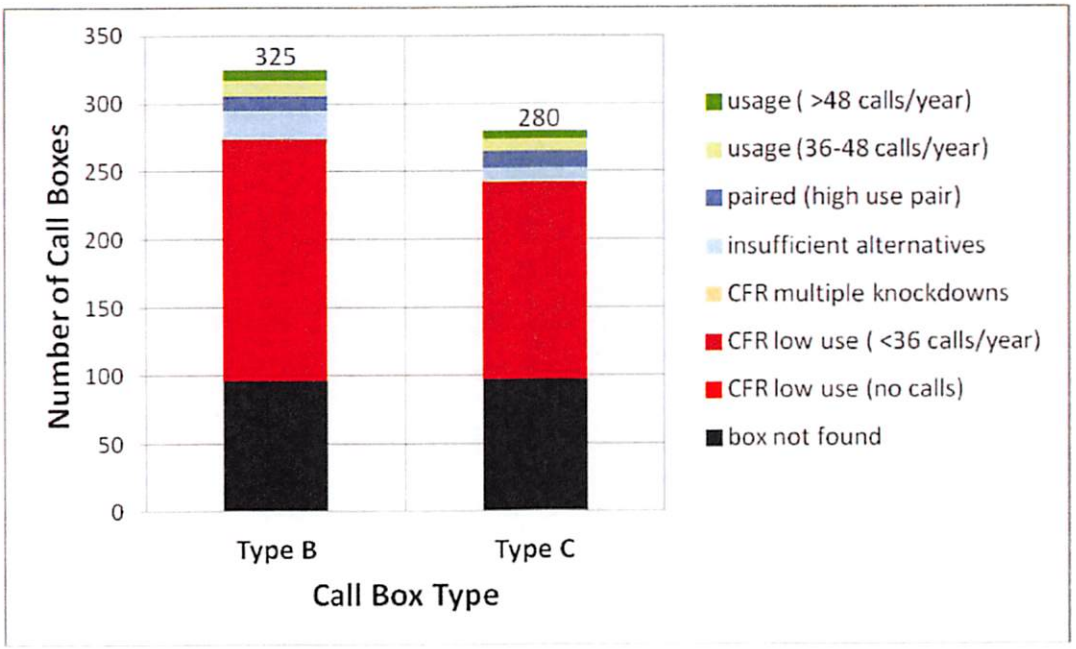
The flow chart presented below illustrates the process used for developing the CFR list, including whether to remove or keep a call box, and is described in further detail in this section.



A total of 669 existing field-verified boxes were identified for initial removal considerations as part of this initial evaluation. The following subsections provide a detailed summary of the methodology used to derive the 669 boxes.

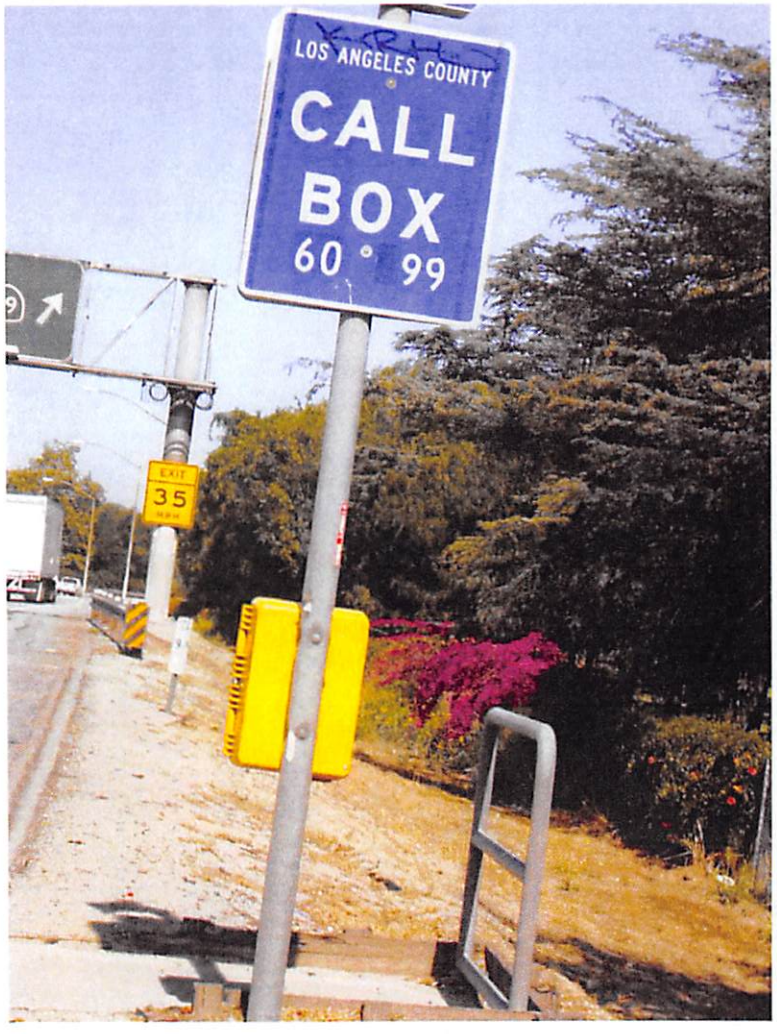
4.1 Site Type

The first criterion was to evaluate Type B and C Call Boxes with low usage which had sufficient alternatives (other motorist aid methods) available. Type B and C call boxes were identified where the average number of calls was less than 36 per year, or on the average less than three calls per month. Based on review of the call statistics for the last two years, the number of calls that pertain to actual motorist aid calls was less than half of the total calls on the system, as shown in **Table 1**. In addition, a filter was applied to those identified for potential removal by conducting a call box alternative analysis. For each of these locations, the availability of Metro Freeway Service Patrol (FSP) service along the corridor covering the call box location was investigated. In addition, the analysis evaluated each location's cellular telephone service coverage and incident management capabilities (with intelligent transportation systems) coverage and monitoring by Caltrans and CHP. If the site was on a highway arterial, then proximity to commercial businesses was considered. Out of the identified 412 Type B and C call box locations verified in the field, 376 were identified to have less than 36 calls per year on average within the last three year's call records. Of these 376 locations, it was concluded that 31 locations did not have sufficient alternative motorist aid options available to the call boxes, if they were removed. Therefore, only the remaining 345 identified locations were recommended for removal. The chart below illustrates the results of the above analysis, indicating the number of Type B and C call boxes and their recent annual call usage records. Examples of Type B and Type C Call Box Sites are shown on **Figure 6**. The general locations of the Type B and Type C Call Box Sites are shown on **Figure 7**.



It should be noted from the above chart, call boxes receiving in excess of 24 calls per year on average are less than 20 percent of the total system. Trends indicate that calls are progressively decreasing each year.

Site Type B
(Cut slope)



Site Type C
(Fill slope)

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FIGURE 6
Type B and Type C Examples

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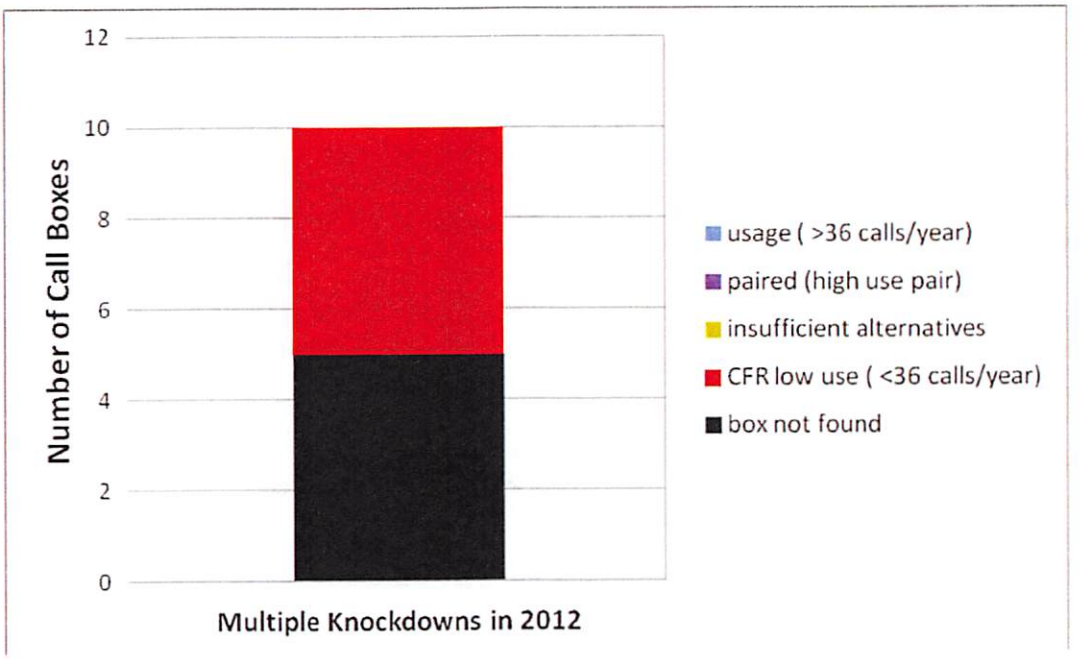
Call Box Assessment Study

Figure 7
Location of Type B and Type B Call Boxes

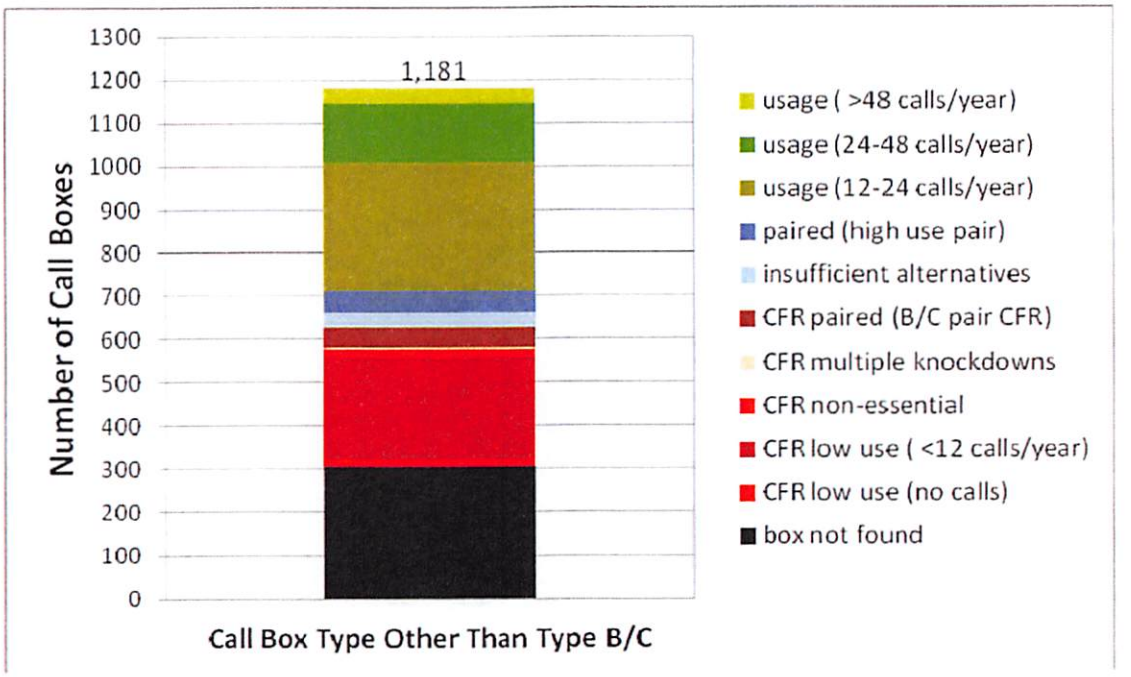
4.2 KNOCKDOWNS

The second criterion was to identify those call boxes that have a history of repeated knockdowns. Analysis of the maintenance records indicated that there were 136 locations with a knockdown record in 2012. Of those, 10 locations had repeated knockdowns. This indicates a potential problem at this location for various reasons such as roadway geometrics, visibility, etc. Of the 10 locations, five were verified in the field and five were not found. Of the five that were verified in the field, one was a Type C location and four were other non-Type B/C. For any location that has a history of multiple knockdowns, their removal is recommended. It was concluded that two locations had sufficient alternatives available and recommended for removal, while three locations need to be considered for relocation. Below is a chart illustrating the results of the above analysis, indicating the number of knockdown locations and their recent annual call usage records.



4.3 PROGRAM GOALS

The third criterion was to identify call boxes that do not meet Program Goals. This was defined as call boxes which had no calls recorded during the last 3 years. The initial analysis identified 156 locations with zero calls during the last three years, with 142 of these being boxes that did not exist per the field survey and 14 that did exist. These are the non-Type B and C call boxes, as the Type B and C with low usage have already been assessed in the first step. Once the 14 locations were identified, a filtering process was used to identify whether these locations had sufficient alternatives for motorist aid. Out of the 14 locations, it was concluded that all 14 locations did have sufficient alternatives available. Therefore, it is recommended to consider removing the 14 locations with no calls during the last 3 years. Below is a chart illustrating the analysis results, indicating the 14 call box locations with no calls in the last three years, shown in red, as well as the other usage results.



It should be noted from the above chart that, as with the Type B and C call boxes, call boxes receiving in excess of 24 calls per year on average are less than 20 percent of the total. Trends indicate that the number of calls is decreasing each year.

4.4 Approaches to System Evaluation of Other SAFEs

Other California SAFE Agencies have developed guidelines and/or undertaken call box system evaluation and/or re-sizing efforts since the last call box system study. To gather information on the approach and methodology of other agencies within the last few years, Iteris staff contacted several major SAFEs and collected and reviewed pertinent reports and documents. **Table 3** summarizes this research. As shown, other California SAFE agencies have also identified call box locations for removal within the last several years.

TABLE 2: SUMMARY OF CALL BOX REMOVAL PROGRAM BY SELECTED CALIFORNIA SAFE AGENCIES

Agency	Total	Removed/ Identified for Removal	Average Call Box Spacing	
			From	To
Bay Area MTC	2,086	500	1 box/mile	1 box/2 miles
SANBAG	1,700	450	Varies	No change
Riverside County Transportation Commission (RCTC)	594	36	2 boxes/mile (urban) 1 box/2 miles	1 box/mile (urban) No change (rural)
San Diego	1,770	None	1 box/mile	No change
OCTA	633	12	1 box/mile	No change
VCTC	564	None	2 boxes/mile	No change

5.0 RECOMMENDATIONS

From the Metro database list of current existing call boxes and their supposed locations, the whereabouts of the 499 physically missing call boxes or boxes that could not be found in the field visits is unknown. Regardless, we recommend including these locations for removal, if not physically then from the Metro's database, since they meet the criteria for removal. Construction activities and other freeway/highway work can, at times, remove call boxes without informing Metro and Metro staff will need to use the call backs to verify active responses and identify those without responses as potential broken or removed call boxes. A plan for periodic reassessment is described later in Section 5.2, and would include new visual inventory surveys.

For the 1,287 boxes that were found in the field, 669 were initially recommended for removal ("CFR" category) and 618 were initially recommended to be kept ("Keep" category). Consistent with the guidelines, if a call box is to be considered for removal, then its pair box in the opposite direction should also be considered for removal, and the same criteria assessment be made for the paired location. The following additional filter was used to make the final call box removal recommendations using the pair box criteria from the guidelines:

- For a Type B/C box listed in the CFR category, a check into the status and previous usage of its working pair was conducted:
  - If the working pair existed in the field and was listed in the "Keep" category, it was recommended for removal only if it received less than 72 calls over the three year period.
  - If the working pair had received more than 72 calls over the three year period, it remained in the "Keep" category and the Type B/C CFR was moved into the "Keep" category and flagged for potential retrofit.
- For a non Type B/C box listed in the CFR category, a check into the status and previous usage of its working pair was also conducted.
  - If the working pair existed in the field and was listed in the "Keep" category, it was recommended for removal if it received less than 36 calls over the three year period.
  - If the working pair had received more than 36 calls over the three year period, it remained in the "Keep" category and the CFR was moved into the "Keep" category.

This refinement resulted in 70 boxes added to the "Keep" category from the "CFR" category and 45 boxes being moved to the "CFR" category from the "Keep" category. As a result, a total of 646 boxes are recommended for removal. The final database of call boxes recommended for removal that were found and verified in the field is provided in **Appendix A**. A total of 641 boxes are recommended to be kept, 88 of which are Type B/C boxes. It is recommended that a mitigation measure plan be developed to address the retaining wall heights and removal of handrails for the remaining 88 Type B/C site locations. **Appendix B** provides a list of the 88 Type B/C boxes to remain and **Appendix C** provides a list of the non Type B/C boxes to remain.

Table 3 summarizes the number of boxes recommended for removal by freeway route.

TABLE 3: SUMMARY OF RECOMMENDATIONS FOR REMOVAL

Route	Total Existing Boxes Before Removal	Recommended for Removal	% To be removed
SR-1	17	1	6%
I-10	66	38	58%
US-101	89	32	36%
SR-103	4	4	100%
I-105	55	34	62%
I-110	87	32	37%
SR-118	35	21	60%
SR-134	6	0	0%
SR-14	30	21	70%
SR-170	11	0	0%
SR-2	94	39	41%
SR-210	12	12	100%
SR-22	4	0	0%
SR-23	36	20	56%
SR-27	162	99	61%
I-405	0	0	0%
SR-47	6	0	0%
I-5	2	0	0%
SR-57	103	51	50%
SR-60	7	7	100%
I-605	150	45	30%
SR-71	28	25	89%
I-710	54	37	69%
SR-90	74	44	59%
SR-91	7	5	71%
Cornell Wy (CN)	40	26	65%
Elizabeth Lake Rd (EL)	9	9	100%
Encinal Cyn Rd (EN)	42	18	43%
La Cienega Blvd (LC)	1	0	0%

Lake Hughes Rd (LH)	1	0	0%
Mulholland Hwy (MU)	0	0	0%
Angeles Forest Hwy (N3)	4	4	100%
Kanan Dume Rd (N9)	5	0	0%
Park n' Ride (PR)	8	0	0%
San Francisquito Canyon Rd (SF)	9	0	0%
Stocker St (STK)	6	0	0%
Total	1,287	646	50%

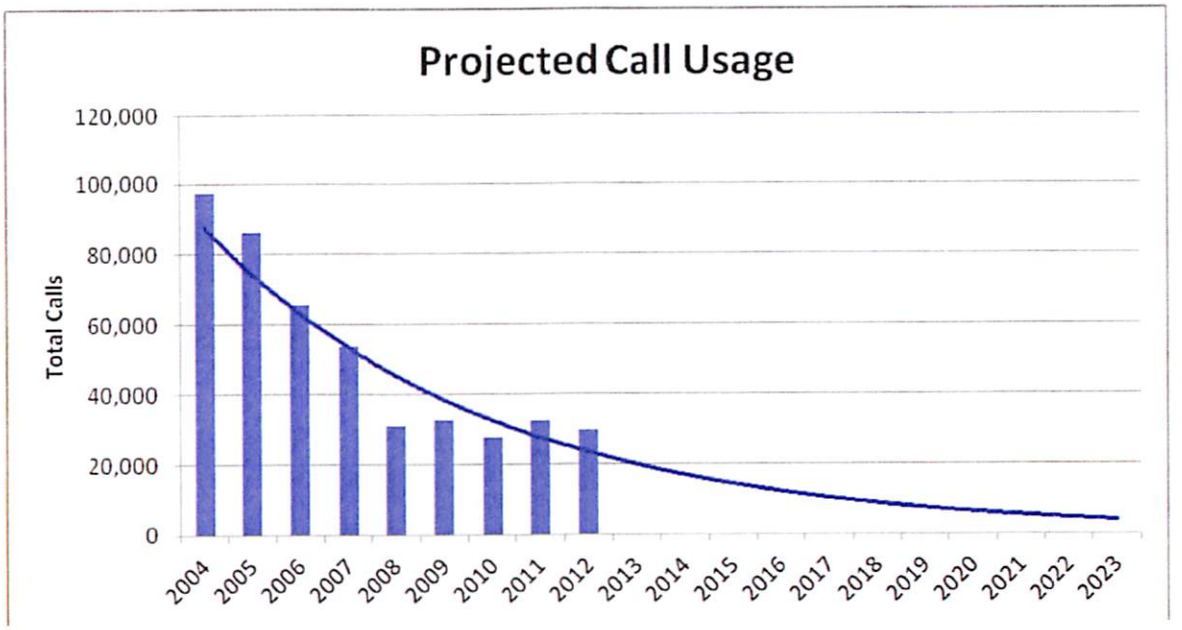
As shown in **Table 3**, the percentages of call boxes to be removed per individual corridor are all above ten percent, with the exception of SR-14. The final database of call boxes recommended for removal that were found and verified in the field is provided in **Appendix A.**

5.1 Future Additional Phased Reduction

Moving forward, a phased approach is recommended to reevaluate the overall call box program and make necessary adjustments as conditions change over the next ten years. A total of 646 call boxes are recommended for removal now as part of Phase I, to be implemented as quickly as possible. As part of subsequent phases, Phase II, III, and IV, it is recommended that a similar evaluation and analysis be conducted every few years or more frequently as needed to determine if any of the 641remaining sites meet the criteria described in Section 3 and considered no longer effective or useful. It is anticipated that continuous advancement in cellular telephone, in-vehicle communications, and incident management technology would eventually render all call boxes obsolete and no longer needed. The funds saved could be better utilized in support of the new technology alternatives in providing motorist aid rather than to continuously operate and maintain call boxes that are no longer useful.

With the continued increase in cell phone ownership and widespread usage it is expected that call box usage would continue to decline rapidly to insignificant numbers. At the current rate of decline, shown in **Figure 8**, it is projected that the system usage could dwindle to less than 10,000 yearly by 2016 and less than 2,000 yearly by 2023.

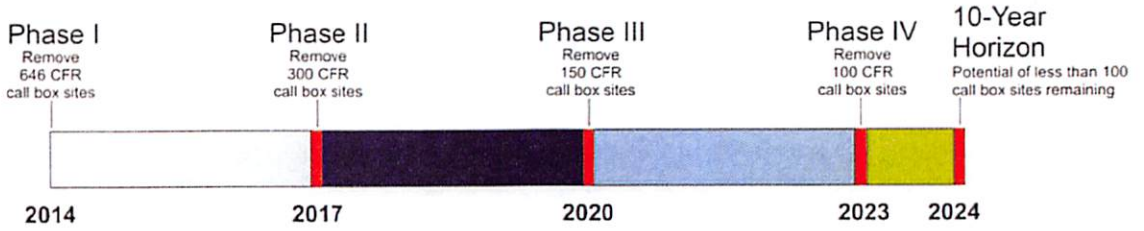
FIGURE 8: LOS ANGELES COUNTY PAST AND PROJECTED CALL BOX USAGE (2004 TO 2023)



Based on the trend of total calls made per year over the last decade, the number of boxes that could fall in the candidate for removal (CFR) criteria in subsequent phases is projected. The total number of calls could drop 60% by 2017 from 2012, 75% by 2020, and 90% by 2024. Applying the same criteria described in Section 3.0 to the projected usage, the following are estimated:

- **At 2016** – Approximately 300 boxes.
- **At 2019** – Approximately 150 boxes.
- **At 2022** – Approximately 100 boxes.

By the ten-year horizon of 2024, less than 100 call boxes could remain, if all of the additional projected CFR locations are removed. Again, the projections are based on the trend of the total calls made over the last decade. The projected calls over the next ten years, however, could actually be much lower as the cell phone, in-vehicle communications, and motorist aid technology is advancing very quickly. It is not too unreasonable to expect call boxes to be used for motorist-aid very little or none at all in the next few years, essentially rending them completely obsolete.



Currently, the operations and maintenance cost of the call box system is approximately $400,000 annually, as according to recent LASAFE records. Implementation of Phase I could potentially reduce this cost by nearly 50 percent.

There are other call box programs in the nation that have eliminated all physical call boxes and replaced them with other services including information service, providing emergency phones (as shown on the right), and cellular call services. Where call boxes were initiated in the 1980's before the introduction of cellular phones or mobile phones, technology is advancing very quickly, particularly with the motorist aid services. We now have smart phones with motorist aid applications, the go511 Program, On Star vehicle call service, and other GPS motorist aid services, where these services are getting better and better each year. It is likely that there is a horizon in the near future for the physical call boxes where they will no longer be useful. However, as long as vehicles are driven, motorist aid will still be needed. The call box program could be replaced with other advanced services that are more useful or convenient, in line with the current technology, for motorists in the future. In the meantime, a phased evaluation process over the next several years is recommended to ensure that the call box system stays relevant, effective, and efficient.

5.2 Next Steps

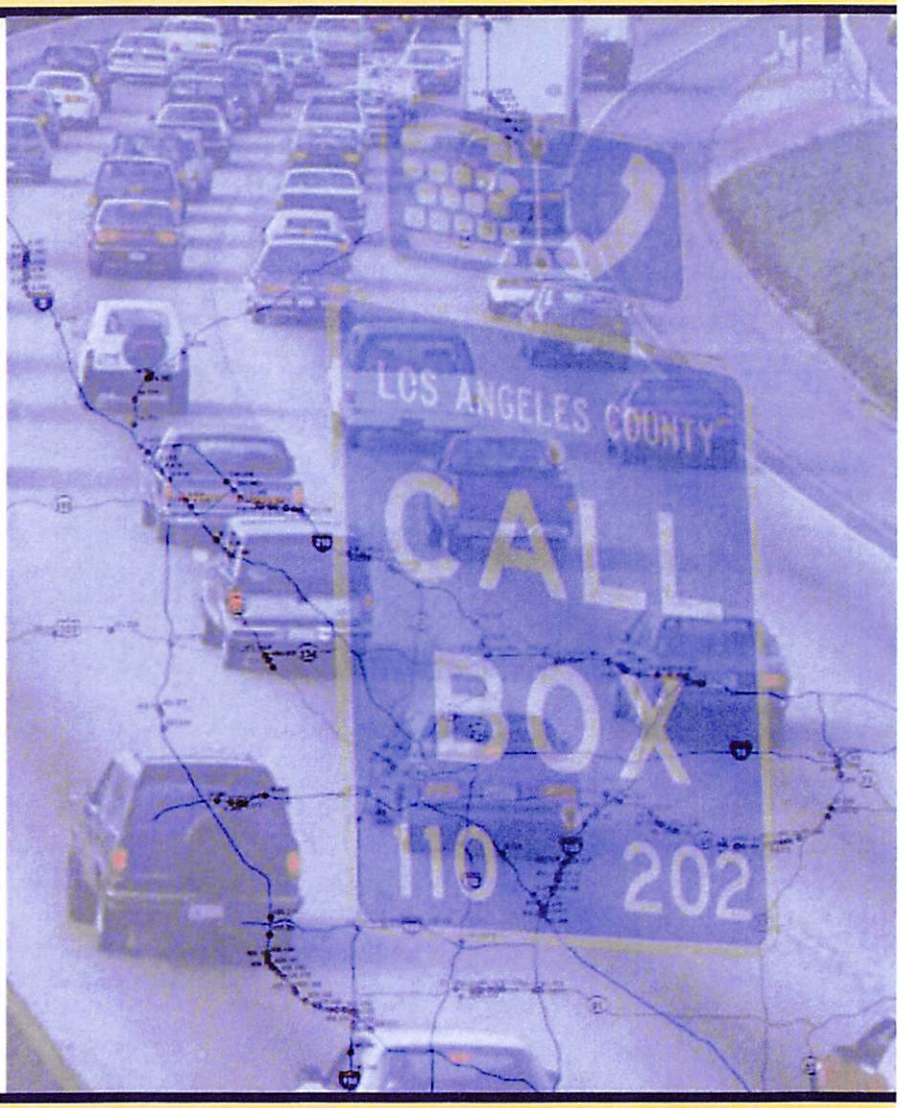
Based on the results of this study and the rapidly declining usage in recent years, the statewide guidelines may need to be reviewed to reassess regulations and/or legislature, policy and directives, program goals and objectives, and overall effectiveness of the call box program for motorist-aid. Modifications to the statewide guidelines may be necessary to adjust to the changes in conditions, usage, and technology that have taken place since the inception of the program. The modifications should take into account impact and program changes experienced by other regions in California.

With any removal of call boxes, the dollars saved from future operations and maintenance costs could be applied to other essential motorist aid-related services and should be addressed. In addition, the call box sites with removed call boxes also have the potential for other uses. The sites could still be utilized for signage for 511 call center or for other motorist aid uses. For example, technology application could be implemented at the sites, such as Bluetooth vehicle detection, to improve communication as well as collect and transfer data for motorist aid programs.

LASAFE

Call Box Assessment Study

APPENDIX



J12-1758

APPENDIX A: RECOMMENDATIONS FOR REMOVAL

Appendix A - Recommended For Removal

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
10	10-024	EB I10 JEO LINCOLN BLVD, ACC 4TH ST			B
10	10-025	WB I10 JEO LINCOLN BLVD, ACC 20TH ST			B
10	10-036A	EB I10 JWO S LA CIENEGA BLVD, **FSP 17** ACC FROM NATIONAL BLVD	34.03653	-118.37868	B
101R	101-012R	NB US101 JNO E 1ST ST,**FSP 02** ACC 1ST ST	34.05683	-118.22277	B
101	101-014TA	NB US101 TO NB SR110 CON, **FSP 02** ACC BROADWAY	34.06002	-118.24612	B
101	101-014TB	NB US101 TO NB SR110 CON,**FSP 02** ACC BROADWAY	34.06312	-118.24768	B
101	101-024	NB US101 JSO GLENDALE BLVD, ** FSP02 ** ACC I110 OR SR110	34.06837	-118.25682	B
101	101-025	SB US101 JSO GLENDALE BLVD,**FSP 02** ACC GLENDALE BLVD	34.07983	-118.25607	B
101	101-035	SB US101 JNO N BENTON WY,**FSP 02** ACC SILVERLAKE BLVD			B
10	10-114	EB I10 JEO LA BREA AV, **FSP 17** ACC CRENSHAW BLVD			B
10	10-119	WB I10 JWO ARLINGTON AV, **FSP 17** ACC WESTERN AV			B
101	101-199	EB US101 JEO WHITE OAK AV,**FSP 07** ACC WHITE OAK AV			B
10	10-354	WB I10 JWO W WEST COVINA PKWY,**FSP 12** (3/4 MI W OF COVINA PARKWAY) (WBI10 JWO WEST COVINA PKWY)			B
10	10-415	WB I10 JEO VIA VERDE, **FSP 18** ACC KELLOGG DR	34.0643	-117.82545	B
10	10-429TB	WB I10 TO SB SR57 CON, **FSP 18** ACC FAIRPLEX BLVD			B
105	105-022	EB I105 JEO INGLEWOOD AV			B
105	105-023T	WB I105 TO NB I405 CON, **FSP 39**			B
105	105-023TC	WB I105 TO NB I405 CON, **FSP 39** ACC IMPERIAL HWY			B
105	105-033TA	WB I105 ON PRAIRIE AV OFR, **FSP 39** ACC CRENSHAW BLVD	33.9326	-118.34727	B
105	105-065	WB I105 JWO BUDLONG AV, ** FSP 39 ** ACC VERMONT AV			B
105	105-066	EB I105 JWO S VERMONT AV, ** FSP 39 ** ACC CRENSHAW BLVD			B
105	105-066T	EB I105 TO SB I110 CON, **FSP39** ACC CRENSHAW BLVD			B
105	105-066TE	WB I105 TO SB I110 CON, **FSP 39** ACC CENTRAL AV			B
105	105-067	WB I105 JWO S VERMONT AV, **FSP 39** ACC CENTRAL AV			B
105	105-075	WB I105 AT SB I110, **FSP 39** ACC CENTRAL AV			B
105	105-084	EB I105 JEO NB I110, **FSP 39** ACC VERMONT AV			B
105	105-098	EB I105 JEO WILMINGTON AV, **FSP 40** ACC CENTRAL AV			B
105	105-099	WB I105 AT WILMINGTON AV, **FSP 40** ACC LONG BEACH BLVD			B
105	105-124TA	EB I105 TO SB I710 CON, **FSP 40** ACC LONG BEACH BLVD			B
105	105-143TA	WB I105 TO NB I710 CON, ** FSP 40 ** ACC LAKEWOOD BLVD			B
105	105-144	EB I105 JEO GARFIELD AV, **FSP 40** ACC SB I710			B
105	105-164	EB I105 JWO BELLFLOWER BLVD, **FSP 40** ACC LAKEWOOD BLVD			B
105	105-165	WB I105 JWO BELLFLOWER BLVD, **FSP 40** ACC SB I605			B
105	105-174T	EB I105 TO SB I605 CON, **FSP 40** ACC BELLFLOWER BLVD			B
105	105-174TC	EB I105 TO SB I605 CON, **FSP 40** ACC BELLFLOWER BLVD	33.9118	-118.10553	B
110	110-064	NB I110 JNO W SEPULVEDA BLVD, ACC SEPULVEDA BLVD			B
110	110-065	SB I110 JSO W 223RD ST, ACC 223RD ST			B
110	110-068	NB I110 JSO W CARSON ST, ACC CARSON ST	33.8287	-118.28718	B
110	110-078	NB I110 JNO W TORRANCE BLVD, ACC CARSON ST	33.84532	-118.2851	B
110	110-079	SB I110 JSO W TORRANCE BLVD, ACC SB I405	33.84535	-118.28552	B
110	110-098	NB I110 JNO WB SR91,***FSP BT 43*** ACC 190TH ST			B
110	110-098T	WB SR91 TO NB I110 CON, ***FSP BT 26*** ACC 190TH ST	33.8768	-118.29583	B
110	110-125	SB I110 JSO EL SEGUNDO BLVD, **FSP 43** ACC EL SEGUNDO BLVD			B
110	110-128	NB I110 JNO W EL SEGUNDO BLVD, **FSP43** ACC EL SEGUNDO BLVD	33.91492	-118.28605	B
110	110-132	NB I110 JSO EB I105, **FSP 43** ACC EL SEGUNDO BLVD	33.92042	-118.28273	B
110	110-132TC	NB I110 TO EB I105 CON, **FSP 43** ACC EL SEGUNDO BLVD			B
110	110-136T	NB I110 TO WB I105 CON, **FSP 43**	33.92807	-118.28017	B
110	110-143T	SB I110 TO WB I105 CON, **FSP 43**			B
110	110-143TA	SB I110 TO WB I105 CON, ** FSP 43 **			B
110	110-143TE	SB I110 TO WB I105 CON, ** FSP BT 43 ** ACC MANCHESTER AV			B
110	110-239T	SB SR110 TO SB US101 CON, ** FSP01 ** ACC STADIUM WAY	34.06355	-118.24803	B
118	118-004	EB SR118 JEO LACO VECO COUNTY LINE, **FSP 33** ACC ROCKY PEAK RD			B
118	118-005	WB SR118 JEO LACO VECO COUNTY LINE, **FSP 33** ACC TOPANGA CANYON BLVD			B
118	118-048	EB SR118 AT TAMPA AV, **FSP 33** ACC DE SOTO AV	34.2721	-118.5538	B
118	118-049	WB SR118 AT TAMPA AV, **FSP 33** ACC RESEDA BLVD	34.27262	-118.55378	B
118	118-055	WB SR118 JEO TAMPA AV, **FSP 33** ACC RESEDA BLVD			B
118	118-059	WB SR118 AT RESEDA BLVD, **FSP 33** ACC BALBOA BLVD	34.2751	-118.5371	B
118	118-084	EB SR118 JEO BALBOA BLVD, **FSP 33** ACC BALBOA BLVD			B
118	118-095	WB SR118 JWO SB I405, **FSP 33** ACC SEPULVEDA BLVD			B
118	118-134	EB SR118 JEO GLENOAKS BLVD, **FSP 33** ACC GLENOAKS BLVD			B
118	118-136	EB SR118 JWO I210, **FSP 33** ACC GLENOAKS BLVD			B
118	118-138	EB SR118 TO EB I210 CON, **FSP 33** ACC GLENOAKS BLVD	34.294	-118.41298	B
134	134-024	EB SR134 JEO W OLIVE AV,**FSP 22** ACC HOLLYWOOD WAY			B
134	134-078	EB SR134 JWO N GLENDALE AV, **FSP 35** ACC BRAND BLVD	34.15592	-118.24358	B
134	134-128	EB SR134 JWO ORANGE GROVE BLVD,**FSP 35** ACC SAN RAFAEL AV			B
134	134-135	WB SR134 JWO WB I210,**FSP 11** ACC FAIR OAKS AV			B
14	14-284	NB SR14 JNO PLACERITA CANYON RD, **FSP 24** ACC PLACERITA CANYON RD			B
14	14-306T	NB SR14 ON SIERRA HWY OFR,***FSP BT24*** ACC GOLDEN VALLEY			B
14	14-328	NB SR14 JSO SAND CANYON RD, **FSP 24** 1/2 MI ACC VIA PRINCESSA			B
14	14-468	NB SR14 JNO WARD RD, ACC WARD RD**FSP 41**			B
14	14-544	NB SR14 AT ANGELES FOREST HWY, **FSP 41** ACC SIERRA HWY			B
14	14-545	SB SR14 AT ANGELES FOREST HWY, **FSP 41** ACC AVENUE S			B
14	14-569	SB SR14 AT VISTA POINT, ACC AVENUE S**FSP 41**			B
14	14-629	SB SR14 JSO AVENUE N, 3/4 MI ACC AVENUE N			B
14	14-645	SB SR14 JSO AVENUE M, 1/4 MI ACC AVENUE M			B
14	14-649	SB SR14 JNO AVENUE M, 1/4 MI ACC AVENUE L			B
14	14-655	SB SR14 JSO AVENUE L, 1/4 MI ACC AVENUE L			B
14	14-658	NB SR14 AT AVENUE L, ACC AVENUE L			B
14	14-668	NB SR14 AT AVENUE K, ACC AVENUE K			B
14	14-699	SB SR14 JSO AVENUE H, ACC AVENUE H			B
170	170-185	SB SR170 JNO SHERMAN WY,**FSP 27** ACC ROSCOE BLVD			B
210	210-028	EB I210 JWO BLEDSOE ST, ACC ROXFORD ST			B
210	210-029	WB I210 JWO BLEDSOE ST, ACC POLK ST			B
210	210-038	EB I210 JWO HUBBARD ST, ACC POLK ST	34.31112	-118.43317	B

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
210	210-039	WB I210 JWO HUBBARD ST, ACC HUBBARD ST	34.31155	-118.4322	B
210	210-045	WB I210 JEO HUBBARD ST, ACC MACLAY ST			B
210	210-059	WB I210 JWO SR118, **FSP 33** ACC PAXTON ST	34.28953	-118.40783	B
210	210-186T	EB I210 TO SB SR2 CON, ACC LA CRESCENTA AV			B
210	210-195T	WB I210 TO SB SR2 CON, ACC ANGELES CREST HWY	34.20752	-118.2105	B
210	210-199	WB I210 JWO ANGELES CREST HWY, ACC ANGELES CREST HWY			B
210	210-247	WB I210 TO NB I210 CON, ACC LAKE AV	34.15455	-118.15588	B
210	210-248TA	EB I210 TO WB SR134 CON, **FSP 11** ACC SECO ST	34.16283	-118.15678	B
210	210-248TC	EB I210 TO WB SR134 CON, **FSP 11** ACC MOUNTAIN AV	34.14755	-118.16032	B
210	210-249	NB SR710 TO WB I210 CON, ** FSP11 ** ACC CALIFORNIA AV	34.16133	-118.15483	B
210	210-253	WB I210 JWO FAIROAKS AV, **FSP 11** ACC LAKE AV	34.15205	-118.15933	B
210	210-253TB	WB I210 TO SB I710 CON,** FSP 11** ACC LAKE AV	34.14757	-118.1548	B
210	210-254T	EB I210 JWO LAKE AVE., **FSP 11** ACC LINCOLN AV	34.165	-118.1472	B
210	210-264	EB I210 JEO N LAKE AV, **FSP 11** ACC MARENGO ST	34.16533	-118.1308	B
210	210-265	WB I210 JWO N LAKE AV, **FSP 11** ACC HILL AV	34.15207	-118.13018	B
210	210-384	EB I210 JEO IRWINDALE AV			B
210	210-385	WB I210 JEO IRWINDALE AV, **FSP 28** ACC VERNON AV			B
210	210-389	WB I210 JWO N VERNON AV, **FSP 28** ACC VERNON AV			B
210	210-398	EB I210 JEO VERNON AV			B
210	210-399	WB I210 JEO S AZUSA AV, **FSP 28** ACC CITRUS AV			B
210	210-404	EB I210 JWO S CITRUS AV, **FSP 28** ACC AZUSA AV			B
210	210-405	WB I210 JWO S CITRUS AV, **FSP 28** ACC CITRUS AV			B
210	210-408	EB I210 JEO S CITRUS AV, **FSP 28** ACC CITRUS AV	34.12062	-117.88597	B
210	210-409	WB I210 JEO S CITRUS AV, **FSP 28** ACC GRAND AV			B
210	210-447TC	EB I210 TO SB SR57 CON,**FSP 38**			B
210	210-462	EB I210 JWO FRUIT ST, APPROX 1 MI	34.1199	-117.79133	B
210	210-464	EB I210 JWO FRUIT ST, APPROX 3/4 MI	34.1194	-117.7774	B
210	210-468	EB I210 JEO FRUIT ST			B
210	210-478	EB I210 JWO FRUIT ST			B
210	210-515	WB I210 JWO BASELINE RD			B
2	2-145	SB SR2 JNO GLENDALE BLVD, **FSP 35** ACC SB IS	34.09377	-118.25507	B
2	2-149	SB SR2 JSO SB IS, **FSP 35** ACC SAN FERNANDO RD			B
2	2-169	SB SR2 JSO VERDUGO RD, **FSP 35** ACC VERDUGO RD			B
2	2-179	SB SR2 JSO COLORADO BLVD, **FSP 35** 7/10 MI ACC COLORADO BLVD			B
2	2-195TA	SB SR2 TO WB SR134 CON, **FSP 35** ACC MOUNTAIN ST	34.15167	-118.22637	B
2	2-226TB	NB SR2 TO EB I210 CON, ACC MOUNTAIN ST			B
2	2-228TC	NB SR2 TO WB I210 CON, ACC MOUNTAIN ST			B
405	405-024	NB I405 AT N BELLFLOWER BLVD, **FSP 19** ACC WOODRUFF AV			B
405	405-045	SB I405 AT CHERRY AV, **FSP 19** ACC ORANGE AV			B
405	405-046T	NB I405 ON NB CHERRY AV OFR, **FSP 19** ACC SPRING ST			B
405	405-115	SB I405 JNO AVALON BLVD, **FSP 19** ACC MAIN ST			B
405	405-131	SB I405 JSO NB I110, **FSP 19** ACC NORMANDIE AV	33.85743	-118.2858	B
405	405-131T	SB I405 TO SB I110 CON, **FSP 19** ACC NORMANDIE AV	33.85675	-118.28512	B
405	405-154	NB I405 JSO CRENSHAW BLVD, **FSP 09** ACC WESTERN AV			B
405	405-199	SB I405 JSO E EL SEGUNDO BLVD, **FSP 09** ACC EL SEGUNDO BLVD			B
405	405-223	SB I405 AT W CENTURY BLVD, **FSP 06** ACC LA CIENEGA BLVD			B
405	405-226	NB I405 AT ARBOR VITAE ST, **FSP 05** ACC CENTURY			B
405	405-227TA	SB I405 ON W CENTURY BLVD OFR,**FSP 06** ACC MANCHESTER BLVD	33.96417	-118.3686	B
405	405-227TB	SB I405 AT W CENTURY BLVD, ** FSP06 ** ON COL ACC MANCHESTER BLVD	33.9655	-118.36847	B
405	405-229T	SB I405 AT W ARBOR VITAE ST, COL **FSP 06** ACC MANCHESTER BLVD	33.9548	-118.36885	B
405	405-237	SB I405 JSO S LA CIENEGA BLVD, **FSP 06** ACC LA TIJERA BLVD	33.96503	-118.36967	B
405	405-244	NB I405 JNO LA TIJERA BLVD, **FSP 06** ACC MANCHESTER BLVD			B
405	405-404	NB I405 JSO BURBANK BLVD, **FSP 10** ACC EB US101	34.17167	-118.46655	B
405	405-405	SB I405 JSO BURBANK BLVD, **FSP 10** ACC VICTORY BLVD	34.17165	-118.46983	B
5	5-139T	SB IS TO SB I710 CON, ** FSP04 ** ACC DITMAN AV			B
5	5-187	SB IS JSO MISSION RD, ** FSP04 ** ACC MAIN ST			B
5	5-198TA	NB IS TO NB SR110 CON, ** FSP04 ** ACC MAIN ST			B
5	5-199	SB IS JSO SB SR110, *** FSP 04 ** ACC STADIUM WY (SB IS JSO 110)			B
5	5-338	NB IS JNO SUNLAND BLVD,**FSP 34** ACC HOLLYWOOD WY			B
5	5-349	SB IS JSO LANKERSHIM BLVD,**FSP 34** ACC LANKERSHIM BLVD	34.22633	-118.38642	B
5	5-356	NB IS JNO LANKERSHIM BLVD,**FSP 34** ACC LANKERSHIM BLVD			B
5	5-444	NB IS AT I210, ACC WB I210 OR ROXFORD ST	34.31933	-118.49225	B
5	5-519	SB IS JNO MCBEAN PKWY,**FSP 42** APPROX 1/4 MI ACC VALENCIA BLVD			B
57	57-074TB	NB SR57 TO WB I10 CON, ** FSP 38 ** ACC TEMPLE AV			B
57	57-084	NB SR57 JNO WB I10, **FSP 38** ACC EB I10			B
60	60-005	WB SR60 TO WB I10 CON, ** FSP 03 ** ACC LORENA ST			B
60	60-009	WB SR60 JWO S LORENA ST, ** FSP 03 **ACC LORENA ST	34.02868	-118.2095	B
60	60-018	EB SR60 JEO S INDIANA ST, ** FSP 03 ** ACC INDIANA ST	34.03157	-118.19192	B
60	60-024	EB SR60 JWO S DOWNEY RD, ** FSP 03 ** ACC INDIANA ST	34.03148	-118.18698	B
60	60-025	WB SR60 JWO S DOWNEY RD, ** FSP 03 ** ACC DOWNEY RD	34.03195	-118.18617	B
60	60-029	WB SR60 JWO NB I710, **FSP 13** ACC SB I710 OR ATLANTIC BLVD			B
60	60-035	WB SR60 JWO NB I710, ** FSP 13 ** ACC ATLANTIC BLVD			B
60	60-036	EB SR60 JEO NB I710, ** FSP 13 ** ACC DOWNEY RD			B
60	60-085	WB SR60 JWO SAN GABRIEL BLVD, ** FSP 13 ** ACC SAN GABRIEL BLVD			B
60	60-256	EB SR60 JEO DIAMOND BAR BLVD, ** FSP 21 ** ACC DIAMOND BAR BLVD	34.02448	-117.80882	B
605	605-028	NB I605 JSO DEL AMO BLVD, ** FSP14 ** ACC CARSON ST	33.84508	-118.09163	B
605	605-035	SB I605 JSO SOUTH ST, ** FSP14 ** ACC SOUTH ST			B
605	605-218	NB I605 JSO LOWER AZUSA RD, ** FSP37 ** ACC RAMONA BLVD			B
605	605-219	SB I605 JSO LIVE OAK AV, ** FSP37 ** ACC LIVE OAK AV	34.09022	-117.99353	B
71	71-005TA	NB SR71 TO WB I10 CON, ** FSP38 ** ACC VALLEY BLVD	34.06667	-117.80455	B
710	710-194T	NB I710 ON EB FLORENCE AV OFR, ** FSP23 ** ACC FIRESTONE BLVD			B
710	710-197T	SB I710 ON EB FLORENCE AV OFR, ** FSP23 ** ACC ATLANTIC BLVD			B
710	710-242	NB I710 JSO S HUMPHREYS AV, ** FSP23 ** ACC OLYMPIC BLVD			B
710	710-242T	NB I710 TO EB SR60 CON, ** FSP23 ** ACC OLYMPIC BLVD			B
710	710-244	NB I710 JSO E 3RD ST, ** FSP23 ** ACC OLYMPIC BLVD	34.03225	-118.16938	B

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
710	710-252	NB I710 JNO CESAR CHAVEZ AV, ** FSP23 ** ACC 3RD ST	34.04232	-118.16903	B
710	710-326TA	NB SR710 TO EB I210 CON, ACC DEL MAR BLVD			B
710	710-326TC	NB SR710 TO EB I210 CON, ACC DEL MAR BLVD			B
91	91-088	EB SR91 JWO S WILMINGTON AV,**FSP 26** ACC CENTRAL AV			B
91	91-095	WB SR91 JEO S WILMINGTON AV,**FSP 26** ACC ACACIA AV			B
91	91-11STD	EB SR91 TO NB I710 CON,**FSP 26** ACC LONG BEACH BLVD	33.8776	-118.19082	B
91	91-198	EB SR91 JWO CARMENITA RD,**FSP 15**	33.8689	-118.0543	B
LC	LC-005	S LA CIENEGA BLVD JNO STOCKER ST, SB ACC RODEO RD			B
STK	STK-002	STOCKER ST JWO S FAIRFAX AV, EB ACC LA CIENEGA BLVD			B
10	10-068	EB I10 JEO OVERLAND AV, **FSP 17** ACC OVERLAND AV	34.02987	-118.40655	C
101	101-014	NB US101 JSO NB SR110,**FSP 02** ACC MAIN ST	34.0601	-118.24607	C
101	101-015	SB US101 JSO NB I110,**FSP 02** ACC GLENDALE BLVD	34.05978	-118.24597	C
101	101-018	NB US101 JNO SB SR110,**FSP 02** ACC BROADWAY			C
101	101-172TA	WB US101 TO SB I405 CON,**FSP 07** ACC VAN NUYS BLVD	34.16063	-118.4686	C
101	101-195	EB US101 JWO BALBOA BLVD,**FSP 07** ACC WHITE OAK AV			C
101	101-224	WB US101 JWO RESEDA BLVD			C
101	101-235	EB US101 AT WINNETKA AV,**FSP 29** ACC DE SOTO AV	34.17157	-118.57232	C
101	101-269	EB US101 JEO MULHOLLAND DR,**FSP 29** ACC VALLEY CIRCLE BLVD			C
10	10-134T	EB I10 ON S NORMANDIE AV OFR, **FSP 17** ACC WESTERN AV	34.03665	-118.29668	C
10	10-149	WB I10 JEO NB I110, **FSP 3** ACC LOS ANGELES ST			C
10	10-209	WB I10 JWO N EASTERN AV, ** FSP 2** ACC FREMONT AV	34.06025	-118.17473	C
10	10-212	EB I10 JEO N EASTERN AV, ** FSP 8** ACC EASTERN AV	34.0613	-118.17167	C
10	10-213T	WB I10 TO SB I710 CON, **FSP 8** ACC I10	34.06207	-118.17483	C
103	103-012	NB SR103 AT W PACIFIC COAST HWY, ACC ANAHEIM ST	33.78617	-118.2244	C
103	103-013	EB SR1 ONR TO SB SR47, ACC SR1	33.78615	-118.2247	C
10	10-312T	EB I10 TO SB I605 CON, **FSP12** ACC GARVEY AV			C
10	10-334	EB I10 JEO PUENTE AV, **FSP 12** ACC PUENTE AV			C
10	10-339	WB I10 JWO W WEST COVINA PKWY, **FSP 12** ACC WEST COVINA PKWY			C
10	10-368	EB I10 JEO N AZUSA AV, **FSP 12** ACC AZUSA AV			C
10	10-399	WB I10 JEO HOLT AV, **FSP 18** ACC VIA VERDE			C
10	10-422TA	EB I10 TO SB SR57 CON, **FSP 18** ACC VIA VERDE AV	34.06357	-117.8115	C
105	105-113T	WB I105 AT LONG BEACH BLVD, **FSP 40** ACC LONG BEACH BLVD			C
105	105-183T	IMPERIAL HWY ONR TO WB I105, ***FSP 40*** ACC IMPERIAL HWY	33.91507	-118.1044	C
110	110-014	NB I110 JNO CHANNEL ST, ACC GAFFEY ST	33.75745	-118.2902	C
110	110-084T	NB I110 TO NB I405 CON,** FSP43 **	33.85172	-118.296	C
110	110-132TA	NB I110 TO EB I105 CON, ACC EL SEGUNDO BLVD	33.9268	-118.26003	C
118	118-103TA	WB SR118 TO SB I405 CON, **FSP 33** ACC LAUREL CANYON BLVD			C
118	118-119T	WB SR118 TO NB IS CON, **FSP 33** ACC SAN FERNANDO RD			C
118	118-128	EB SR118 JWO GLENOAKS BLVD, **FSP 33** ACC SAN FERNANDO RD	34.27652	-118.42333	C
134	134-039	WB SR134 JWO FOREST LAWN DR,**FSP 22** ACC FOREST LAWN DR	34.15503	-118.31138	C
134	134-044	EB SR134 JEO FOREST LAWN DR,**FSP 22** ACC FOREST LAWN DR	34.15625	-118.30178	C
134	134-055	WB SR134 JWO SAN FERNANDO RD	34.1548	-118.28638	C
134	134-058	EB SR134 AT SAN FERNANDO RD,**FSP 22** ACC FOREST LAWN DR			C
134	134-088	EB SR134 JEO HARVEY DR, **FSP 35** ACC GLENDALE AV	34.14677	-118.22727	C
134	134-089	WB SR134 AT NB SR2, ** FSP35 ** ACC FIGUEROA ST	34.1471	-118.22691	C
134	134-132	EB SR134 JWO ORANGE GROVE BLVD,**FSP 11** ACC SAN RAFAEL AV	34.14715	-118.15958	C
14	14-345	SB SR14 JNO OAK SPRING CANYON RD, **FSP24** ACC SOLEDAD CANYON RD			C
14	14-478	NB SR14 JSO CROWN VALLEY RD, 1/2 MI ACC WARD RD**FSP 41**			C
14	14-514	NB SR14 JNO SANTIAGO RD, 1/3 MI ACC SANTIAGO RD**FSP 41**			C
14	14-618	NB SR14 JNO 10TH ST W, ACC 10TH ST W			C
14	14-694	NB SR14 JNO AVENUE I, ACC AVENUE I			C
14	14-709	SB SR14 JNO AVENUE G, ACC AVENUE F			C
14	14-714	NB SR14 JNO AVENUE G, ACC AV G			C
14	14-715	SB SR14 JSO AVENUE F, ACC AVENUE F			C
170	170-154	NB SR170 JNO MAGNOLIA BLVD, **FSP 27** ACC MAGNOLIA BLVD			C
210	210-008	EB I210 JEO YARNELL ST, ACC YARNELL ST	34.32288	-118.47802	C
210	210-024	EB I210 JEO ROXFORD ST, ACC ROXFORD ST	34.32347	-118.45442	C
210	210-025	WB I210 JEO ROXFORD ST, ACC POLK ST	34.32378	-118.45363	C
210	210-049	WB I210 JWO MACLAY ST, ACC EB SR I118	34.30333	-118.41907	C
210	210-065T	WB I210 TO WB SR118 CON, ACC OSBORNE ST			C
210	210-078	EB I210 JEO OSBORNE ST, ACC PAXTON ST			C
210	210-084	EB I210 JWO WHEATLAND AV, ACC OSBORNE ST	34.27363	-118.3701	C
210	210-088	EB I210 JWO WHEATLAND AV, ACC OSBORNE ST			C
210	210-094	EB I210 AT WHEATLAND AV, ACC OSBORNE ST	34.27225	-118.35485	C
210	210-095	WB I210 AT WHEATLAND AV, ACC SUNLAND BLVD	34.27263	-118.35395	C
210	210-099	WB I210 JEO WHEATLAND AV, ACC SUNLAND BLVD	34.27148	-118.34538	C
210	210-155	WB I210 JWO LOWELL AV, ACC PENNSYLVANIA AV			C
210	210-168	EB I210 JEO PENNSYLVANIA AV, ACC LOWELL AV	34.2218	-118.24658	C
210	210-193	WB I210 JWO ANGELES CREST HWY, ACC ANGELES CREST HWY	34.20727	-118.21445	C
210	210-195TC	WB I210 TO SB SR2 CON, ACC ANGELES CREST HWY	34.20915	-118.21658	C
210	210-234	EB I210 JEO LINCOLN AV, ACC LINCOLN AV	34.17135	-118.15823	C
210	210-285	WB I210 JWO N SIERRA MADRE BLVD, **FSP 11** ACC SIERRA MADRE BLVD			C
210	210-295	WB I210 JEO MADRE ST, **FSP 11** ACC MICHILINDA AV			C
210	210-318	EB I210 JWO N SANTA ANITA AV, **FSP 11** ACC BALDWIN AV			C
210	210-324	EB I210 JEO N SANTA ANITA AV, **FSP 28** ACC SANTA ANITA AV			C
210	210-329	WB I210 JEO W HUNTINGTON DR, **FSP 28** ACC MYRTLE AV	34.13942	-118.01453	C
210	210-349	WB I210 JWO BUENA VISTA ST, **FSP 28** ACC BUENA VISTA ST			C
210	210-367TA	WB I210 AT MOUNT OLIVE DR, **FSP 28** ACC IRWINDALE AV	34.1475	-117.95568	C
210	210-374	EB I210 JWO IRWINDALE AV, **FSP 28** ACC NB I605			C
210	210-418	EB I210 JEO N GRAND AV,** FSP 28** ACC GRAND AV	34.11923	-117.87333	C
210	210-434	EB I210 JEO S SUNFLOWER AV, **FSP 38** ACC SUNFLOWER AV			C
210	210-444	EB I210 JEO S LOKE HILL AV, **FSP 38** ACC SUNFLOWER AV	34.12078	-117.8284	C
210	210-448	EB I210 JEO SB SR57			C
210	210-489	WB I210 JWO TOWNE AV EXIT			C
2	2-154	NB SR2 AT LOS ANGELES RIVER, **FSP 35** ACC NB 5 TO NB 2 CON			C

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
2	2-155T	SB SR2 TO NB I5 CON, **FSP 35**	34.1073	-118.24915	C
2	2-175	SB SR2 JSO YORK BLVD, **FSP 35** ACC COLORADO ST	34.12355	-118.22887	C
2	2-184	NB SR2 AT COLORADO BLVD, **FSP 35** ACC YORK BLVD	34.13958	-118.22719	C
2	2-185	SB SR2 JSO COLORADO BLVD, **FSP 35** ACC MOUNTAIN ST	34.13988	-118.22852	C
405	405-094	NB I405 AT WILMINGTON AV, **FSP 19** ACC ALAMEDA ST			C
405	405-098	NB I405 JNO WILMINGTON AV, **FSP 19** ACC WILMINGTON AV	33.82602	-118.24667	C
405	405-119	SB I405 JSO E DEL AMO BLVD, **FSP 19** ACC MAIN ST			C
405	405-126T	NB I405 TO NB I110 CON, **FSP 19** ACC AVALON BLVD	33.85545	-118.28215	C
405	405-128T	NB I405 TO SB I110 CON, **FSP 19** ACC AVALON BLVD			C
405	405-130	NB I405 AT NB I110, **FSP 19** ACC NB I110	33.8581	-118.28573	C
405	405-155	SB I405 JSO CRENSHAW BLVD, **FSP 09** ACC CRENSHAW BLVD			C
405	405-204	NB I405 JNO E EL SEGUNDO BLVD, **FSP 09** ACC EL SEGUNDO BLVD			C
405	405-424	NB I405 AT SHERMAN WY, **FSP 10** ACC VICTORY BLVD	34.19948	-118.47268	C
405	405-478	NB I405 JNO RINALDI ST, ACC DEVONSHIRE ST	34.26062	-118.482	C
405	405-479	SB I405 JNO RINALDI ST, ACC ROXFORD ST	34.26068	-118.46853	C
47	47-053	SB SR103 JNO W PACIFIC COAST HWY, ACC SEPULVEDA BLVD	33.79062	-118.22417	C
47	47-058	NB SR103 JSO E SEPULVEDA BLVD, ACC PACIFIC COAST HWY	33.80883	-118.22077	C
5	5-068TB	NB I5 TO SB I605 CON, ** FSP15 ** ACC PIONEER BLVD	33.94195	-118.0966	C
5	5-071T	SB I5 TO NB I605 CON, ** FSP15 ** ACC LAKEWOOD BLVD	33.93935	-118.09693	C
5	5-078	NB I5 JSO ROSEMEAD BLVD, ** FSP15 ** ACC SB I605			C
5	5-223T	SB I5 TO SB SR2 CON, ACC SAN FERNANDO RD			C
5	5-305	SB I5 JNO SAN FERNANDO BLVD,**FSP 31** ACC BUENA VISTA ST			C
5	5-345	SB I5 JNO PENROSE ST,**FSP 34** ACC TUXFORD ST			C
5	5-416	NB I5 AT I405,**FSP 34** ACC SAN FERNANDO MISSION BLVD			C
5	5-495	SB I5 JNO CALGROVE BLVD,**FSP 42** APPROX 1/2 MI ACC LYONS AV	34.37	-118.55718	C
5	5-578	NB I5 JNO HASLEY CANYON RD,**ESCAPE AREA** **FSP 42** APPX 1 1/4 MI ACC HASLEY CANYON	34.47327	-118.61535	C
57	57-014	NB SR57 JSO DIAMOND BAR BLVD, ** FSP 21 ** ACC BREA CANYON RD			C
57	57-049	SB SR57 JSO SUNSET CROSSING RD,**FSP 21** ACC SUNSET CROSSING RD			C
57	57-077	SB SR57 JSO EB I10, ** FSP 38 ** ACC VIA VERDE			C
57	57-112TA	EB I210 JEO S LONE HILL AV, **FSP 38** ACC LONE HILL AV	34.11988	-117.81957	C
57	57-113	SB SR57 JSO AUTO CENTRE DR, *FSP 38**	34.11287	-117.82427	C
60	60-006TA	EB SR60 TO SB I5 CON,** FSP 03** ACC ALAMEDA ST			C
60	60-045	WB SR60 JWO S ATLANTIC BLVD, ** FSP 13 ** ACC ATLANTIC BLVD			C
60	60-099	WB SR60 JEO ROSEMEAD BLVD, ** FSP 13 ** ACC SANTA ANITA AV	34.04122	-118.05893	C
60	60-104	EB SR60 JEO SANTA ANITA AV, ** FSP 13 ** ACC ROSEMEAD BLVD			C
60	60-109	WB SR60 JWO PECK RD, **FSP 13** ACC NB I605 OR CROSSROADS PKWY	34.03782	-118.03943	C
60	60-119	WB SR60 JEO NB I605, ** FSP 13 ** ACC CROSSROADS	34.045	-118.0256	C
605	605-015	SB I605 JSO E CARSON ST, ** FSP14 ** ACC CARSON ST	33.82758	-118.08185	C
605	605-018	NB I605 JNO E CARSON ST			C
605	605-019	SB I605 JNO E CARSON ST, ** FSP14 ** ACC DEL AMO BLVD	33.83282	-118.09283	C
605	605-044	NB I605 JSO EB SR91, ** FSP14 ** ACC SOUTH ST			C
605	605-046TB	NB I605 TO WB SR91 CON, ** FSP14 ** ACC SOUTH ST	33.87682	-118.10208	C
605	605-052	NB I605 JNO WB SR91, ** FSP14 ** ACC SOUTH ST			C
605	605-055	SB I605 JSO ALONDRA BLVD, ** FSP14 ** ACC ALONDRA BLVD			C
605	605-059	SB I605 JSO ROSECRANS AV, ** FSP14 ** ACC ROSECRANS AV	33.8897	-118.10392	C
605	605-068	NB I605 JSO IMPERIAL HWY, ** FSP14 ** ACC ALONDRA BLVD	33.90353	-118.10505	C
605	605-075	SB I605 AT ROSECRANS AV, ** FSP14 ** ACC FIRESTONE BLVD			C
605	605-154	NB I605 JSO ROSE HILLS RD, ** FSP37 ** ACC BEVERLY BLVD			C
605	605-155	SB I605 AT ROSE HILLS RD, ** FSP37 ** ACC PECK RD			C
605	605-176	NB I605 JNO WB SR60, ** FSP37 ** ACC PECK RD			C
605	605-177TA	SB I605 TO WB SR60 CON, ** FSP37 ** ACC VALLEY BLVD			C
605	605-178	NB I605 JNO WB SR60, ** FSP37 ** ACC WB SR60 OR EB SR60	34.0382	-118.02135	C
605	605-185	SB I605 JSO VALLEY BLVD, **FSP 37** ACC VALLEY BLVD			C
605	605-198	NB I605 JNO VALLEY BLVD, **FSP37** ACC VALLEY BLVD			C
605	605-199	SB I605 JNO VALLEY BLVD, ** FSP37 ** ACC EB I10 OR WB I10			C
605	605-224	NB I605 JNO LOWER AZUSA RD, ** FSP37 ** ACC LOWER AZUSA RD			C
71	71-005	SB I210 TO SB SR71 CON, ACC VIA VERDE	34.07533	-117.80652	C
710	710-085	SB I710 JNO W Willow St			C
71	71-012	NB SR71 AT W VALLEY BLVD, ACC VALLEY BLVD	34.06293	-117.79145	C
710	710-185T	NB I710 ON WB FIRESTONE BLVD OFR, ** FSP30 ** ACC IMPERIAL HWY	33.95833	-118.16932	C
710	710-187T	SB I710 ON EB FIRESTONE BLVD OFR, ** FSP23 ** ACC FLORENCE AV	33.95383	-118.16995	C
710	710-249T	SB I710 TO WB SR60 CON, ** FSP23 ** ACC I10	34.03907	-118.16992	C
710	710-253T	SB I710 TO WB SR60 CON, ** FSP23 ** ACC I10	34.04238	-118.16973	C
90	90-014	EB SR90 JWO S CENTINELA AV, ACC CULVER BLVD			C
91	91-099	WB SR91 JWO S ALAMEDA ST,**FSP 26** ACC LONG BEACH BLVD	33.87417	-118.2229	C
91	91-105	WB SR91 AT S SANTA FE AV,**FSP 26** ACC LONG BEACH BLVD			C
91	91-125	WB SR91 JEO ATLANTIC AV,**FSP 26** ACC CHERRY AV	33.8771	-118.19517	C
91	91-147T	NB LAKEWOOD BLVD ONR TO WB SR91,**FSP 15**	33.8774	-118.1437	C
91	91-205	WB SR91 JWO CARMENITA RD,**FSP 15** ACC VALLEY VIEW AV			C
101R	101-008R	NB US101 JSO E 4TH ST, **FSP 2** ACC 7TH ST			A
101	101-268	WB US101 AT WOODLAKE AV, **FSP29** ACC TOPANGA CANYON BLVD			A
101	101-284	WB US101 JWO PARKWAY CALABASAS,**FSP 29** ACC PARKWAY CALABASAS			A
101	101-339	EB US101 JEO CHESEBRO RD, ACC KANAN RD	34.14292	-118.7403	A
103	103-005	SB SR103 JNO E ANAHEIM ST, ACC PACIFIC COAST HWY			A
10	10-335	WB I10 JWO WEST COVINA PKWY			A
10	10-422TD	EB I10 TO SB SR57 CON, **FSP 18** ACC VIA VERDE			A
110	110-054	NB I110 JSO W SEPULVEDA BLVD, ACC PACIFIC COAST HWY			A
110	110-234TA	NB SR110 TO SB US101 CON, ** FSP01 ** ACC 2ND ST			A
134	134-134	EB SR134 JEO ORANGE GROVE BLVD.			A
14	14-669	SB SR14 AT AVENUE K, ACC AVENUE J			A
14	14-698	NB SR14 JSO AVENUE H, ACC AVENUE I			A
170	170-147T	SB SR170 TO EB SR134 CON, **FSP 27** ACC MAGNOLIA BLVD			A
170	170-164	NB SR170 JNO BURBANK BLVD, **FSP 27** ACC BURBANK BLVD	34.17763	-118.39317	A
170	170-175	SB SR170 JNO VICTORY BLVD,**FSP 27** ACC SHERMAN WAY			A
170	170-199	SB SR170 AT ARLETA AV, (SB SR170 AT ARLETA)			A

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
210	210-048	EB I210 JEO MACLAY ST, **FSP 33** ACC HUBBARD ST	34.29953	-118.41993	A
210	210-169	WB I210 JEO PENNSYLVANIA AV, ACC OCEAN VIEW BLVD	34.2225	-118.24607	A
210	210-195	WB I210 JWO ANGELES CREST HWY, ACC ANGELES CREST HWY	34.2071	-118.21052	A
210	210-198	EB I210 JWO ANGELES CREST HWY, ACC SB ANGELES CREST HWY			A
210	210-209	WB I210 JEO GOULD AV, ACC BERKSHIRE PL			A
210	210-253TA	WB I210 TO SB I710 CON,**FSP 11** ACC LAKE AV			A
210	210-254	EB I210 JWO FAIROAKS AV, **FSP 11** ACC ORANGE GROVE BLVD			A
210	210-367	WB I210 JEO NB I505, **FSP 28** ACC IRWINDALE AV			A
210	210-394	EB I210 AT S AZUSA AV, **FSP 28** ACC VERNON AV			A
2	2-168	NB SR2 JSO VERDUGO RD, **FSP 35** ACC EAGLE ROCK BLVD			A
2	2-186	NB SR2 JNO COLORADO BLVD, **FSP 35** ACC YORK BLVD			A
2	2-228TA	NB SR2 TO WB I210 CON, **FSP 35** ACC MOUNTAIN ST			A
405	405-108	NB I405 JNO E CARSON ST, **FSP 19** ACC CARSON ST	33.84817	-118.25778	A
405	405-198TC	NB I405 TO EB I105 CON, **FSP 9**			A
405	405-198TD	NB I405 TO WB I105 CON, **FSP 9**			A
405	405-223T	SB I405 ON W CENTURY BLVD OFR, *FSP 06** ACC LA CIENEGA BLVD			A
405	405-236	NB I405 JSO S LA CIENEGA BLVD, **FSP 06** ACC MANCHESTER BLVD			A
405	405-256TB	NB I405 TO WB SR90 CON, ** FSP06 ** ACC LA TUERA BLVD			A
47	47-003	SB SR47 TO NB I110 CON			A
47	47-003T	SB SR47 ON SB N GAFFEY ST OFR, WB SR47 ON GAFFEY ST OFR			A
47	47-005	NB SR47 JNO SB I110, ACC TERMINAL ISLAND			A
47	47-052	NB SR103 JNO W PACIFIC COAST HWY, ACC PACIFIC COAST HWY	33.79065	-118.2238	A
5	5-089	SB I5 JSO PARAMOUNT BLVD, ** FSP15 ** ACC SLAUSON AV			A
5	5-158TA	NB I5 TO WB I10 CON, ** FSP 04** ACC CALZONA ST			A
5	5-339	SB I5 JNO SUNLAND BLVD,**FSP 34** ACC PENROSE ST			A
5	5-419TC	SB I5 TO SB I405 CON, SB 5 TRK LN TO SB 405			A
5	5-545	SB I5 JSO THE OLD ROAD,**FSP 42** APPROX 1/2 MI, ACC THE OLD RD			A
5	5-569	SB I5 JNO HASLEY CANYON RD,**ESCAPE AREA** **FSP 42** ACC PARKER RD	34.46037	-118.61472	A
57	57-034	NB SR57 JNO PATHFINDER RD, ** FSP 21 ** ACC DIAMOND BAR BLVD			A
57	57-049T	SB SR57 TO WB SR60 CON, ** FSP 38 ** ACC SUNSET CROSSING RD			A
57	57-065	SB SR57 JNO TEMPLE AV, ** FSP 38 ** ACC WB I10 OR VIA VERDE			A
57	57-082	NB SR57 JNO WB I10, **FSP 38** ACC TEMPLE			A
60	60-007T	WB SR60 TO NB US101 CON, ** FSP 03 ** ACC LORENA ST			A
60	60-009TA	WB SR60 TO NB I5 CON, **FSP 03** ACC LORENA ST	34.02968	-118.21275	A
60	60-032TB	EB SR60 TO SB I710 CON, **FSP 13** ACC DOWNEY RD			A
60	60-037TA	WB SR60 TO NB I710 CON, **FSP 13** ACC ATLANTIC			A
60	60-037TB	WB SR60 TO SB I710 CON, **FSP 13** ACC ATLANTIC BLVD			A
60	60-079	WB SR60 JEO PARAMOUNT BLVD, ** FSP 13 ** ACC SAN GABRIEL BLVD			A
60	60-095	WB SR60 JWO ROSEMEAD BLVD, ** FSP 13 ** ACC ROSEMEAD BLVD	34.04157	-118.07967	A
60	60-116TB	EB SR60 TO NB I605 CON, **FSP 13** ACC PECK RD			A
60	60-253	WB SR60 JEO GRAND AV, ** FSP 21 ** ACC DIAMOND BAR BLVD			A
60	60-294	EB SR60 JEO SR71, **FSP 21** ACC PHILLIPS RANCH RD			A
60	60-295	WB SR60 JWO SR71, **FSP 21** ACC RESERVOIR ST			A
605	605-066	NB I605 AT EB I105, **FSP14** ACC ALONDRA BLVD			A
605	605-174TB	NB I605 TO WB SR60 CON, ** FSP37 ** ACC PECK RD			A
605	605-257	SB I605 AT WB I210, ** FSP37 ** ACC HUNTINGTON DR			A
605	605-259TA	SB I605 TO WB I210 CON, ** FSP37 ** ACC HUNTINGTON DR			A
605	605-259TB	SB I605 TO EB I210 CON, ** FSP37 ** ACC HUNTINGTON DR			A
71	71-013	SB SR71 AT W VALLEY BLVD, ACC SB I210 OR EB I10	34.06273	-117.79198	A
710	710-153	SB I710 JNO ROSECRANS AV, **FSP 30**			A
710	710-157	SB I710 JSO E IMPERIAL HWY, **FSP 30**			A
710	710-255	SB I710 JNO FLORAL DR, ** FSP23 ** ACC I10	34.04612	-118.16852	A
710	710-326	NB SR710 JNO COLORADO BLVD, ACC OEL MAR BLVD			A
90	90-019	WB SR90 JEO S CENTINELA AV, ACC FRM SB I405 OR SLAUSON AV			A
91	91-108	EB SR91 JWO N LONG BEACH BLVD,**FSP 26** ACC SANTA FE AV			A
91	91-178	EB SR91 JWO PIONEER BLVD,**FSP 15** ACC STUDEBAKER RD			A
91	91-204	EB SR91 JWO CARMENITA RD,**FSP 15** ACC SHOEMAKER AV			A
PR	PR-004	S LONE HILL AV AT EB I210, PARK N RIDE			A
PR	PR-005	S GRAND AV AT W BASELINE RD, PARK & RIDE			A
PR	PR-006	STUDEBAKER RD JSO WB I105, STUDEBAKER PARK AND RIDE			A
PR	PR-007	STUDEBAKER RD JSO WB I105, STUDEBAKER PARK AND RIDE			A
PR	PR-008	STUDEBAKER RD JSO WB I105, STUDEBAKER PARK AND RIDE			A
PR	PR-009	STUDEBAKER RD JSO WB I105, STUDEBAKER PARK AND RIDE			A
PR	PR-010	STUDEBAKER RD JSO WB I105, STUDEBAKER PARK AND RIDE			A
PR	PR-011	STUDEBAKER RD JSO WB I105, STUDEBAKER PARK AND RIDE			A
PR	PR-013	SR19 JSO WB I105, LAKEWOOD PARK & RIDE			A
PR	PR-014	LONG BEACH BLVD JNO EB I105, LONG BEACH BLVD PARK & RIDE			A
PR	PR-015	WILMINGTON AV JSO WB I105, WILMINGTON PARK AND RIDE			A
PR	PR-016	AVALON BLVD AT EB I105, PARK AND RIDE ON AVALON			A
PR	PR-017	S VERMONT AV JNO EB I105,VERMONT PARK & RIDE			A
PR	PR-018	S VERMONT AV JNO EB I105, VERMONT PARK & RIDE			A
PR	PR-019	CRENSHAW BLVD AT W 120TH ST, CREWSHAW PARK & RIDE	33.92463	-118.32712	A
PR	PR-021	CRENSHAW BLVD AT W 120TH ST, CRENSHAW PARK & RIDE	33.9243	-118.3296	A
PR	PR-022	LONG BEACH BLVD JNO WB I105, PARK & RIDE LOT			A
PR	PR-023	S HAWTHORNE BLVD JNO WB I105, PARK & RIDE LOT			A
PR	PR-024	S HAWTHORNE BLVD JNO WB I105, PARK & RIDE LOT			A
PR	PR-025	S HAWTHORNE BLVD JNO WB I105, PARK & RIDE LOT			A
101R	101-009R	SB US101 JNO E 4TH ST,**FSP2** ACCESS MISSION RD			D
101	101-068	NB US101 JSO N GOWER ST, **FSP 27** ACC HOLLYWOOD BLVD			D
10	10-108	EB I10 JEO S LA BREA AV, **FSP17** ACC WASHINGTON BLVD			D
101	101-234	WB US101 AT WINNETKA AV,**FSP 29** ACC TAMPA AV	34.1717	-118.57288	D
10	10-219	WB I10 TO NB I710 CON, **FSP 8** ACC FREMONT AV	34.0649	-118.15833	D
10	10-229	WB I10 JWO N ATLANTIC BLVD, **FSP 8** ACC ATLANTIC BLVD	34.07183	-118.14288	D
10	10-469	WB I10 JEO N SAN ANTONIO AV, **FSP 18** ACC INDIAN HILL BLVD	34.08097	-117.74583	D
105	105-041T	CRENSHAW BLVD OKR TO WB I105, ** FSP 39 ** ACC CRENSHAW BLVD			D

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
105	105-066TC	EB I105 TO SB I110 CON, **FSP 39** ACC CRENSHAW			D
105	105-182	EB I105 JEO WOODRUFF AV, **FSP 40**			D
105	105-183	WB I105 AT SB I605, ** FSP40 ** ACC IMPERIAL HWY			D
110	110-129	SB I110 JNO EL SEGUNDO BLVD,**FSP 43** ACC IMPERIAL HWY	33.923	-118.28583	D
110	110-175	SB I110 JSO W GAGE AV,**FSP 43** ACC GAGE AVE			D
134	134-095TA	WB SR134 TO NB SR2 CON, ** FSP35 ** ACC FIGUEROA ST			D
210	210-228	EB I210 JWO LINCOLN AV, ACC ARROYO BLVD			D
210	210-229	WB I210 JWO LINCOLN AV, ACC LINCOLN AV			D
210	210-455	WB I210 JEO N SAN DIMAS AV, (WB 210 JEO SAN DIMAS AV)	34.11998	-117.81567	D
405	405-234T	EB W MANCHESTER BLVD OKR TO NB I405, **FSP 05** ACC CENTURY BLVD			D
5	5-068TA	NB I5 TO NB I605 CON, ** FSP 16 ** ACC FLORENCE			D
5	5-085	SB I5 JNO ROSEMEAD BLVD, ** FSP16 ** ACC PARAMOUNT BLVD			D
5	5-125	SB I5 JSO S ATLANTIC BLVD, ** FSP04 ** ACC SB I710			D
5	5-195	SB I5 JNO N MAIN ST, ** FSP04 ** ACC SB SR110 OR STADIUM WY			D
5	5-304	NB I5 JNO SAN FERNANDO BLVD,**FSP 31** ACC BURBANK BLVD			D
57	57-024	NB SR57 JSO PATHFINDER RD, ** FSP 21 ** ACC DIAMOND BAR BLVD			D
60	60-037T	WB SR60 TO NB I710 CON, **FSP 13** ACC ATLANTIC BLVD			D
605	605-064T	NB I605 JNO ALONDRA BLVD, **FSP14** ACC ALONDRA BLVD			D
605	605-066T	NB I605 TO WB I105 CON			D
605	605-067	SB I605 JSO ROSECRANS AV, **FSP 14** ACC ROSECRANS AV			D
605	605-069	SB I605 JSO ROSECRANS AV, ** FSP14 ** ACC IMPERIAL HWY	33.90427	-118.10465	D
605	605-089	SB I605 AT FIRESTONE BLVD, ** FSP14 ** ACC FLORENCE			D
605	605-099TA	SB I605 TO NB I5 CON, **FSP14 ** ACC TELEGRAPH RD			D
605	605-102T	NB I605 ON TELEGRAPH RD OFR, ** FSP14 ** ACC FLORENCE AV			D
605	605-124	NB I605 JNO WASHINGTON BLVD, ** FSP27 ** ACC WASHINGTON BLVD	33.97798	-118.07825	D
710	710-133T	SB I710 TO WB SR91 CON, ** FSP30 ** ACC ALONDRA BLVD			D
710	710-135T	SB I710 TO EB SR91 CON,**FSP 30** ACC ALONDRA BLVD			D
90	90-015	WB SR90 JWO S CENTINELA AV, ACC CENTINELA AV			D
91	91-139	WB SR91 JEO N PARAMOUNT BLVD,**FSP 15** ACC DOWNEY AV	33.87653	-118.15887	D
105	105-033T	WB I105 ON S HAWTHORNE BLVD OFR, ** FSP 39 ** ACC IMPERIAL HWY			E
405	405-208	NB I405 JNO E EL SEGUNDO BLVD, **FSP 09** ACC EL SEGUNDO BLVD			E
405	405-469T	SB I405 TO WB SR118 CON, ACC SAN FERNANDO MISSION BLVD			E
10	10-057T	WB I10 TO SB I405 CON, **FSD 17** ACC OVERLAND AV			F
101R	101-003R	SB US101 JSO E 4TH ST,**FSP 02** ACC 4TH ST			F
101	101-225	EB US101 JEO TAMPA AV,**FSP 29** ACC WINNETKA AV			F
101	101-244	WB US101 JWO DE SOTO AV,**FSP 29** ACC WINNETKA AV	34.16838	-118.58943	F
101	101-245	EB US101 JWO DE SOTO AV, **FSP 29** ACC CANOGA AV	34.17917	-118.58375	F
10	10-132T	EB I10 ON S NORMANDIE AV OFR, ** FSP 17 ** ACC ARLINGTON AV			F
101	101-379	EB US101 JWO W LIKDERO CANYON RD, ACC WESTLAKE BLVD			F
10	10-142TA	EB I10 TO SB I110 CON, **FSP 3** ACC NORMANDIE AV			F
10	10-182	EB I10 TO NB I5 CON, **FSP 3** ACC ALAMEDA ST	34.03067	-118.222	F
10	10-185	SB I5 TO WB I10 CON, **FSP 4** ACC 4TH ST			F
103	103-004	NB SR103 JSO W PACIFIC COAST HWY,ACC ANAHEIM ST			F
10	10-422TC	EB I10 TO SB SR57 CON, **FSP 18** ACC VIA VERDE AV			F
10	10-422TE	EB I10 TO SB SR57 CON, **FSP 18** ACC VIA VERDE			F
105	105-012TA	EB I105 TO SB I405 CON, **FSP 39**			F
105	105-012TF	EB I105 TO NB I405 CON,**FSP 39**			F
105	105-023TB	WB I105 TO SB I405 CON, ** FSP 39 **			F
110	110-028	NB I110 JNO C ST, ACC C ST			F
110	110-096T	NB I110 TO EB SR91 CON, **FSP 43**ACC 190TH ST			F
110	110-143TB	SB I110 TO EB I105 CON, ** FSP43 ** ACC CENTURY BLVD	33.93058	-118.2814	F
110	110-239	SB SR110 AT W SUNSET BLVD, ** FSP01 ** ACC STADIUM WAY	34.0635	-118.24805	F
118	118-094	EB SR118 JWO NB I405, **FSP 33** ACC HAYVENHURST AV			F
118	118-103TC	WB SR118 TO SB I405 CON, **FSP 33** ACC LAUREL CANYON BLVD			F
118	118-135	WB SR118 JWO GLENOAKS BLVD, **FSP 33** ACC WB I210			F
134	134-018	EB SR134 JWO PASS AV,**FSP 22** ACC CAHUENGA BLVD	34.15388	-118.34503	F
134	134-025	WB SR134 JEO N HOLLYWOOD WY,**FSP 22** ACC BOB HOPE DR			F
134	134-038	EB SR134 JWO FOREST LAWN DR,**FSP 22** ACC BUENA VISTA ST	34.1546	-118.31132	F
134	134-059T	WB SR134 JWO SAN FERNANDO RD,**FSP 22** ACC PACIFIC AV			F
134	134-114	EB SR134 JWO FIGUEROA ST, ** FSP35 ** ACC HARVEY DR			F
134	134-133	WB SR134 AT ORANGE GROVE BLVD, **FSP 11** ACC FAIR OAKS AV	34.14785	-118.15945	F
1	1-353	EB I10 AT MAIN ST, START OF SR1			F
14	14-306TB	NB SR14 ON SIERRA OFFRAMP			F
14	14-614	NB SR14 JNO RANCHO VISTA BLVD, ACC PALMDALE BLVD			F
14	14-654	NB SR14 JSO AVENUE L, 1/4 MI ACC AVENUE M			F
14	14-659	SB SR14 AT AVENUE L, ACC AVENUE K			F
14	14-664	NB SR14 JSO AVENUE K, 1/4 MI ACC AVENUE L			F
14	14-674	NB SR14 JNO AVENUE J-8, ACC AVENUE K			F
14	14-675	SB SR14 JSO 20TH ST W, ACC AVENUE J			F
14	14-684	NB SR14 JNO AVENUE J, ACC AVENUE J			F
14	14-685	SB SR14 JNO AVENUE J, ACC AVENUE I			F
14	14-695	SB SR14 JSO EB AVENUE H			F
170	170-159	SB SR170 JSO BURBANK BLVD, **FSP 27** ACC OXNARD ST	34.17077	-118.38735	F
170	170-163	SB SR170 JSO OXNARD ST,**FSP 27** ACC VICTORY BLVD	34.17673	-118.39418	F
170	170-169	SB SR170 JSO VICTORY BLVD,**FSP 27** ACC VICTORY BLVD	34.18307	-118.39888	F
210	210-058TA	EB I210 TO WB SR118 CON, **FSP 8T 33** ACC MACLAY ST	34.28907	-118.40922	F
210	210-063	WB I210 JEO PAXTON ST, ACC OSBORNE ST	34.28658	-118.40477	F
210	210-063T	WB I210 TO WB SR118 CON, ACC OSBORNE ST			F
210	210-192TB	EB I210 TO SB SR2 CON, ACC LA CRESCENTA AV			F
210	210-208	EB I210 JEO GOULD AV, ACC ANGELES CREST HWY			F
210	210-215	WB I210 JEO BERKSHIRE PL, ACC WINDSOR AV	34.19135	-118.16007	F
210	210-246T	EB I210 TO SB SR710 CON, ACC SECO ST			F
210	210-288	EB I210 JEO N SIERRA MADRE BLVD			F
210	210-435	WB I210 JEO S SUNFLOWER AV, **FSP 28** ACC LOKE HILL AV			F
2	2-186TA	NB SR2 TO EB SR134 CON, **FSP 35** ACC YORK BLVD			F

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
2	2-186TB	NB SR2 TO WB SR134 CON, **FSP 35** ACC VERDUGO RD			F
2	2-228TB	NB SR2 TO WB I210 CON, ACC MOUNTAIN ST			F
405	405-095	SB I405 AT WILMINGTON AV, **FSP 19** ACC WILMINGTON AV	33.8257	-118.24023	F
405	405-159	SB I405 JNO CRENSHAW BLVD, **FSP 09** ACC ARTESIA BLVD	33.87117	-118.33285	F
405	405-169	SB I405 JNO REDONDO BEACH BLVD, **FSP 09** ACC HAWTHORNE BLVD			F
405	405-189	SB I405 JSO W ROSECRANS AV, **FSP 09** ACC ROSECRANS AV			F
405	405-219T	SB I405 AT W CENTURY BLVD, **FSP 6** ACC LA CIENEGA BLVD			F
405	405-265T	SB I405 TO WB SR90 CON, ** FSP05 ** ACC BRADDOCK DR			F
47	47-004	NB SR47 AT N PACIFIC AV, ACC SB I110			F
5	5-045	SB I5 JNO SAN ANTONIO DR, ** FSP16 ** ACC NORWALK BLVD			F
5	5-068	NB I5 JNO NB I605, ** FSP16 ** ACC FLORENCE AV			F
5	5-187T	SB I5 TO EB I10 CON, ** FSP04 ** ACC MAIN ST			F
5	5-203	SB I5 JNO N BROADWAY,** FSP04 ** ACC STADIUM WY			F
5	5-213	SB I5 JSO SB SR110, ** FSP04 ** ACC STADIUM WY			F
5	5-221T	SB I5 JNO STADIUM WY,**FSP 31** CONNECTOR RD FROM 2 FWY TO SB 5			F
5	5-226T	NB I5 TO NB SR2 CON, **FSP 31** ACC STADIUM WY			F
5	5-228	NB I5 JNO NB SR2,**FSP 31** ACC STADIUM WY			F
5	5-229TB	SB I5 TO NB SR2 CON,** FSP31 ** ACC GLENDALE BLVD			F
5	5-509	SB I5 JNO PICO CANYON RD,**FSP 42** APPROX 2/5 MI ACC MCBEAN PKWY			F
57	57-074	NB SR57 JSO EB I10, ** FSP 38 ** ACC TEMPLE AV	34.06088	-117.80497	F
57	57-076	NB SR57 JSO EB I10, ** FSP 38 ** ACC TEMPLE AV	34.06415	-117.806	F
57	57-078	NB SR57 JSO VIA VERDE, **FSP 38** ACC TEMPLE AV			F
57	57-079	SB SR57 JSO VIA VERDE AV, **FSP 38** ACC VIA VERDE			F
57	57-083	SB SR57 JSO VIA VERDE AV, **FSP 38** ACC VIA VERDE			F
57	57-108	NB SR57 JNO W ARROW HWY, ** FSP 38** ACC ARROW HWY	34.10903	-117.82255	F
57	57-112T	NB SR57 TO EB I210 CON, **FSP 38** ACC ARROW HWY	34.11837	-117.82352	F
57	57-112TB	NB SR57 TO WB I210 CON	34.13267	-117.82408	F
60	60-032TA	EB SR60 TO NB I710 CON, **FSP 13** ACC DOWNEY RD			F
60	60-116TA	EB SR60 TO SB I605 CON, **FSP 13** ACC PECK RD			F
60	60-256T	EB SR60 TO NB SR57 CON, ** FSP 21 ** ACC GRAND AV			F
60	60-305	WB SR60 JEO S RESERVOIR ST, **FSP 21** ACC RAMONA AV			F
605	605-053TA	SB I605 TO WB SR91 CON, ** FSP14 ** ACC ALONDRA BLVD			F
605	605-085T	SB I605 TO WB I105 CON, **FSP14** ACC FROM FIRESTONE BLVD			F
605	605-177	SB I605 JNO WB SR60, ** FSP37 ** ACC VALLEY BLVD			F
605	605-254T	NB I605 TO EB I210 CON, ** FSP37 ** ACC ARROW HWY			F
71	71-008	NB SR71 JSO EB I10, ACC VALLEY BLVD			F
710	710-152TA	WB ROSECRANS AV ONR TO NB I710, **FSP 30**			F
710	710-156T	EB E ROSECRANS AV ONR TO NB I710, **FSP 30**			F
710	710-196T	NB I710 ON WB FLORENCE AV OFR, ** FSP23 ** ACC FIRESTONE BLVD			F
710	710-235T	SB I710 TO SB I5 CON, ** FSP23 ** ACC 3RD ST			F
90	90-024TA	EB SR90 TO SB I405 CON, ACC CENTINELA AV			F
91	91-117T	NB I710 TO WB SR91 CON,**FSP 30** ACC LONG BEACH BLVD			F
LC	LC-002	S LA CIENEGA BLVD JSO W SLAUSON AV, ACC SLAUSON AV			F
LC	LC-003	S LA CIENEGA BLVD JSO W SLAUSON AV, SB, ACC STOCKER ST			F
LC	LC-004	S LA CIENEGA BLVD JNO STOCKER ST, NB ACC STOCKER ST			F
PR	PR-026	STUDEBAKER RD JSO EB I105, STUDEBAKER PARK AND RIDE			F
101	101-138	WB US101 AT COLDWATER CANYON AV,**FSP 07** ACC LAUREL CANYON BLVD			G
105	105-159	WB I105 AT LAKEWOOD BLVD, **FSP 40** ACC BELLFLOWER BLVD	33.91397	-118.14225	G
110	110-228T	NB I110 JNO W 4TH ST, ** FSP01 ** ACC 4TH ST ON COL			G
118	118-138TB	EB SR118 TO WB I210 CON, **FSP 33**			G
210	210-364	EB I210 JWO NB I605, **FSP 28** ACC BUENA VISTA ST			G
405	405-046	NB I405 JSO CHERRY AV, **FSP 19** ACC SPRING ST			G
405	405-227	SB I405 JNO W CENTURY BLVD, **FSP 06** ACC LA CIENEGA BLVD			G
405	405-256	NB I405 JSO JEFFERSON BLVD, **FSP 05** ACC LA TIJERA BLVD			G
60	60-084	EB SR60 JWO SAN GABRIEL BLVD, ** FSP 13 ** ACC PARAMOUNT BLVD			G
710	710-249	SB I710 JSO CESAR CHAVEZ AV, ** FSP23 ** ACC BROOKLYN AV	34.03928	-118.16937	G
90	90-018	EB SR90 JEO S CENTINELA AV, ACC CENTINELA AV			G
90	90-025	WB SR90 JWO NB I405, ACC SLAUSON AV			G
91	91-149	WB SR91 JWO CLARK AV,**FSP 15** ACC BELLFLOWER BLVD			G
10	10-146	EB I10 JEO S HOOVER ST, **FSP 3** ACC HOOVER ST	34.03783	-118.27782	J
10	10-147	WB I10 AT NB I110, **FSP 3** ACC SAN PEDRO ST	34.03823	-118.27792	J
10	10-179	WB I10 JEO S SANTA FE AV, **FSP 3** ACC SB OSF TO WB 10 CON	34.02868	-118.22852	J
14	14-306TA	NB SR14 ON SIERRA OFFRAMP (OVERHEAD)	34.41317	-118.45647	J
105	105-174TA	EB I105 TO NB I605 CON, **FSP 40** ACC BELLFLOWER BLVD	33.91408	-118.10602	K
105	105-174TD	EB I105 TO NB I605 CON, **FSP40** ACC BELLFLOWER BLVD	33.92	-118.104	K
110	110-158	NB I110 AT MANCHESTER AV, **FSP 43** ACC CENTURY BLVD	33.95977	-118.2795	K
110	110-159	SB I110 AT MANCHESTER AV,** FSP BT 43 ** ACC FLORENCE AV	33.95987	-118.28125	K
405	405-198T	NB I405 TO EB I105 CON, **FSP 9**			K
405	405-212T	NB I405 AT IMPERIAL HWY,**FSP9** ON COLLECTOR RD			K
710	710-135TA	SB I710 TO EB SR91 CON, **FSP 30**			K
710	710-152TB	NB I710 TO EB I105 CON,**FSP 30**	33.9092	-118.17918	K
90	90-026	EB SR90 AT NB I405, ACC CENTINELA AV	33.98743	-118.39647	K
90	90-027	WB SR90 AT NB I405, ACC SLAUSON AV	33.9877	-118.396	K
90	90-028	EB SR90 JEO NB I405, ACC CENTINELA AV OR SB I405 TO EB SR90 CON			K
101	101-359	EB US101 JEO REYES ADOBE RD, ACC REYES ADOBE RD			L
14	14-359	SB SR14 JSO AGUA DULCE CANYON RD, **FSP 24** 3.8 MILES JSO AGUA DULCE	34.44733	-118.38167	L
210	210-058	EB I210 AT PAXTON ST, ACC MACLAY ST	34.28915	-118.40908	L
210	210-195TA	WB I210 TO SB SR2 CON, ACC ANGELES CREST HWY	34.2077	-118.21393	L
210	210-224	EB I210 JEO N ARROYO BLVD, ACC BERKSHIRE			L
210	210-255T	WB I210 JEO SR134,**FSP 11** ACC LAKE AV	34.15212	-118.1465	L
210	210-348	EB I210 JEO S MYRTLE AV, **FSP 28** ACC MYRTLE AV	34.1353	-117.9955	L
210	210-395	WB I210 AT S AZUSA AV, **FSP 28** ACC AZUSA AV			L
210	210-494	EB SR210 JWO TOWNE AV	34.12012	-117.74783	L
5	5-595	SB I5 JSO LAKE HUGHES RD, **ESCAPE AREA** ACC LAKE HUGHES RD			L
57	57-075	SB SR57 JSO EB I10, ** FSP 38 **	34.06072	-117.80535	L

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
57	57-109	SB SR57 JNO W GLADSTONE ST, **FSP 38** ACC AUTO CENTRE DR	34.10888	-117.82302	L
60	60-008	EB SR60 JWO EUCLID AV, ** FSP 03 ** ACC SANTA FE ST			L
2	2-144	NB SR2 JNO GLENDALE BLVD, **FSP 35** ACC GLENDALE BLVD	34.1102	-118.25563	R
5	5-825	SB I5 JNO SR138, APPROX 1/3 MI ACC GORMAN	34.7699	-118.80272	C
105	105-112	EB I105 JWO LONG BEACH BLVD, **FSP 40** ACC WILMINGTON AV	33.92527	-118.21148	A
5	5-474	NB I5 JSO CALGROVE BLVD	34.34728	-118.5333	A
57	57-115	SB SR57 JSO AUTO CENTRE DR			L
10	10-369	WB I10 JEO N AZUSA AV, **FSP 12** ACC CITRUS ST			A
110	110-015	SB I110 JNO CHANNEL ST, ACC C ST	33.75678	-118.29095	A
118	118-054	EB SR118 JWO RESEDA BLVD, **FSP 33** ACC TAMPA AV			A
14	14-469	SB SR14 JNO WARD RD, ACC CROWN VALLEY RD ** FSP BEAT 41 **			A
14	14-665	SB SR14 JSO AVENUE K, 1/4 MI ACC AVENUE K			A
170	170-168	NB SR170 JSO VICTORY BLVD, **FSP 27** ACC OXNARD ST	34.1833	-118.39757	A
170	170-174	NB SR170 JNO VICTORY BLVD, **FSP 27** ACC VICTORY BLVD			A
210	210-154	EB I210 JWO LOWELL AV, ACC LA TUNA CANYON RD			A
210	210-488	EB I210 JWO N TOWNE AV			A
5	5-079	SB I5 JSO LAKEWOOD BLVD, **FSP16 ** ACC PARAMOUNT BLVD			A
57	57-015	SB SR57 JNO BREA CANYON RD, **FSP 21** ACC DIAMOND BAR BLVD			A
57	57-048	NB SR57 JNO EB SR60, ** FSP 21 ** ACC GRAND AV			A
60	60-105	WB SR60 JEO SANTA ANITA AV, ** FSP 13 ** ACC PECK RD			A
605	605-074	NB I605 JSO IMPERIAL HWY, **FSP14**			A
605	605-225	SB I605 ON LOWER AZUSA RD OFR, ** FSP37 ** ACC LIVE OAK AV	34.0952	-117.98768	A
91	91-089	WB SR91 JWO S WILMINGTON AV,**FSP 26** ACC ACACIA AV			A
91	91-109	WB SR91 JWO N LONG BEACH BLVD,**FSP 26** ACC LONG BEACH BLVD			A
118	118-085	WB SR118 JWO HAYVENHURST AV, **FSP 33** ACC WOODLEY AV			D
210	210-089	WB I210 JWO WHEATLAND AV, ACC WHEATLAND AV			D
210	210-235	WB I210 AT W WASHINGTON BLVD, ACC SECO ST	34.17102	-118.15672	D
210	210-284	EB I210 JEO N SERRA MADRE BLVD, **FSP 11** ACC ALLEN AV			D
60	60-037	WB SR60 JEO NB I710,** FSP13 ** ACC ATLANTIC BL			D
110	110-099	SB I110 AT EB SR91, **FSP BT 43*** ACC REDONDO BEACH			E
2	2-174	NB SR2 JSO YORK BLVD, **FSP 35** ACC EAGLE ROCK BLVD	34.1236	-118.22737	E
101R	101-013R	SB US101 JNO E 1ST ST,**FSP 02** ACC ALAMEDA ST	34.0493	-118.2216	F
101	101-019	SB US101 TO SB SR110 CON, **FSP 02** ACC GLENDALE BLVD			F
101	101-194	WB US101 AT BALBOA BLVD,**FSP 07** ACC BALBOA BLVD			F
10	10-414	EB I10 JWO KELLOGG DR, **FSP 18** ACC VIA VERDE	34.06382	-117.8254	F
134	134-059	WB SR134 JWO SAN FERNANDO RD,**FSP 22** ACC PACIFIC RD			F
134	134-079	WB SR134 JWO N GLENDALE AV,**FSP 35** ACC GLENDALE AV	34.15618	-118.24298	F
170	170-155	SB SR170 JNO MAGNOLIA BLVD,**FSP 27** ACC BURBANK BLVD			F
210	210-294	EB I210 JWO N ROSEMEAD BLVD, **FSP 11** ACC MADRE ST			F
210	210-375	WB I210 JWO IRWINDALE AV, **FSP 28** ACC IRWINDALE AV			F
405	405-205	SB I405 JNO E EL SEGUNDO BLVD, **FSP 09** ACC IMPERIAL HWY			F
5	5-198	NB I5 AT PASADENA AV, ** FSP04 ** ACC MAIN ST			F
5	5-344	NB I5 JNO PENROSE ST,**FSP 34** ACC SUNLAND BLVD			F
605	605-034	NB I605 JNO DEL AMO BLVD, ** FSP14 ** ACC DEL AMO BLVD			F
605	605-054	NB I605 JSO ALONDRA BLVD, ** FSP14 ** ACC EB SR91 OR WB SR91			F
405	405-114	NB I405 JNO AVALON BLVD, **FSP 19** ACC CARSON ST			G
405	405-198	NB I405 JSO E EL SEGUNDO BLVD, **FSP 09** ACC ROSECRANS AV			G
60	60-044	EB SR60 JEO S ATLANTIC BLVD, ** FSP 13 ** ACC NB I710			G
118	118-137	WB SR118 JWO I210, **FSP 33** ACC EB I210			K
14	14-644	NB SR14 JSO AVENUE M, 1/4 MI ACC AVENUE N			L
210	210-009	WB I210 JWO YARKELL ST, ACC ROXFORD ST	34.32322	-118.47727	L
91	91-124	EB SR91 JEO ATLANTIC AV,**FSP 26** ACC ATLANTIC AV	33.87658	-118.18318	L

APPENDIX B: REMAINING TYPE B/C SITES

Appendix B - Type B and C Locations to keep

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
134	134-105	WB SR134 AT ARBOR DELL PL, ** FSP35 ** ACC FIGUEROA ST			B
134	134-119	WB SR134 JWO N SAN RAFAEL AV,**FSP 35** ACC SAN RAFAEL AV			B
14	14-454	NB SR14 JNO ESCONDIDO CANYON RD, ** FSP 41 ** ACC ESCONDIDO CANYON RD			B
14	14-519	SB SR14 JNO SANTIAGO RD, 1 MI ACC PEARBLOSSOM HWY**FSP 41**			B
14	14-525	SB SR14 JNO SANTIAGO RD, 1 1/2 MI ACC PEARBLOSSOM HWY**FSP 41**			B
210	210-139	WB I210 JWO LA TUNA CANYON RD, ACC LA TUNA CANYON RD			B
210	210-425	WB I210 JEO N GRAND AV, ** FSP 28** ACC SUNFLOWER AV			B
210	210-428	EB I210 JWO S SUNFLOWER AV, **FSP 28** ACC GRAND AV			B
210	210-485	WB I210 JWO N TOWNE AV, (1 1/2 MI) (WB SR210 JWO TOWNE AV)			B
605	605-144	NB I605 JSO BEVERLY BLVD, ** FSP37 ** ACC WHITTIER BLVD			B
101	101-085	SB US101 AT HIGHLAND AV,**FSP 27** ACC BARHAM BLVD			C
105	105-042	EB I105 JEO CRENSHAW BLVD, ** FSP 39 ** ACC CRENSHAW BLVD ONR			C
110	110-088	NB I110 JNO NB I405, **FSP 43** ACC TORRANCE BLVD			C
14	14-268	NB SR14 JSO SAN FERNANDO RD, ** FSP 24 ** ACC NB IS			C
14	14-458	NB SR14 JSO WARD RD, 3/4 MI ACC ESCONDIDO CANYON RD**FSP 41**			C
14	14-548	NB SR14 JNO ANGELES FOREST HWY, **FSP 41** ACC PEARBLOSSOM HWY			C
14	14-688	NB SR14 JSO AVENUE I, ACC AVENUE J			C
210	210-014	EB I210 JWO GLENOAKS BLVD, ACC YARNELL ST			C
210	210-034	EB I210 JEO POLK ST, ACC ROXFORD ST	34.3156	-118.43913	C
210	210-104	EB I210 JEO WHEATLAND AV, ACC WHEATLAND AV			C
405	405-039	SB I405 JNO N LAKEWOOD BLVD,**FSP 19** ACC SPRING ST			C
91	91-065	WB SR91 JWO S MAIN ST, **FSP 26** ACC MAIN ST	33.8731	-118.29833	C
1	1-502	SR1 JNO CORRAL CANYON RD, 4/10 MI			B
1	1-592	SR1 JSO ENCINAL CANYON RD, 4/10 MI			B
1	1-596	PACIFIC COAST HWY JNO ENCINAL CANYON RD, 1/10 MI			B
18	18-019	SR18 JEO 240TH ST E, APPROX 4/10 MI			B
18	18-029	SR18 JEO SR138, SR18 JEO 233RD ST E ** APPROX 1/10 MI **			B
18	18-043	SR18 JEO SR138, APPROX 5/10 MI			B
23	23-066	DECKER RD AT MULHOLLAND HWY			B
2	2-787	SR2 JWO CRN4, APPROX 1 2/10 MI MM 78.64			B
5	5-619	SB I5 JNO LAKE HUGHES RD, APPROX 2 1/3 MI ACC TEMPLIN HWY			B
5	5-629	SB I5 JSO CKP RD, APPROX 1 MI ACC TEMPLIN HWY			B
5	5-654	NB I5 JSO TEMPLIN HWY,APPROX 1/2 MI ACC LAKE HUGHES RD			B
5	5-674	NB I5 JNO TEMPLIN HWY, APPROX 1 2/5 MI ACC TEMPLIN HWY			B
5	5-719	SB I5 JNO CHERRY CANYON, APPROX 5 1/2 MI ACC VISTA DEL LAGO RD			B
5	5-724	NB I5 JSO VISTA DEL LAGO RD, ACC TEMPLIN HWY			B
5	5-728	NB I5 JSO VISTA DEL LAGO RD, ACC TEMPLIN HWY			B
5	5-829	SB I5 JNO SR138, APPROX 2/3 MI ACC GORMAN			B
5	5-835	SB I5 JNO SR138, APPROX 1 1/4 MI ACC GORMAN			B
N3	N3-012	ANGELES FOREST HWY JNO MT EMMA RD, 3.5 MILES PAST MT EMMA			B
N3	N3-048	ANGELES FOREST HWY AT MT EMMA RD			B
N3	N3-069	ANGELES FOREST HWY JSO MT EMMA RD, 2.0 MILES JSO MT EMMA			B
N3	N3-079	ANGELES FOREST HWY JSO ALISO CANYON RD, 0.7 MILES JSO ALISO CYN			B
1	1-575	SR1 AT LUNITA RD	34.03578	-118.8545	C
23	23-004	SR1 AT SR23			C
23	23-039	DECKER RD JND PACIFIC COAST HWY			C
23	23-046	DECKER RD JSO MULHOLLAND HWY			C
23	23-087	DECKER RD JND PACIFIC COAST HWY, 1 MILE JSO CARLISLE			C
2	2-747	ANGELES CREST HWY MM 74.54, JWO VINCENT GULCH DIVIDE RD APPROX 2/10 MI			C
5	5-659	SB I5 AT TEMPLIN HWY, ACC TEMPLIN HWY			C
5	5-795	SB I5 JNO SMOKEY BEAR RD, APPROX 1 1/10 MI ACC WB SR138			C
5	5-799	SB I5 JSO SR138, APPROX 1 1/3 MI ACC WB SR138			C
5	5-809	SB I5 JSO SR138, APPROX 1/4 MI ACC QUAIL LAKE RD OR WB SR138			C
105	105-095	WB I105 JWO WILMINGTON AV, **FSP 40** ACC WILMINGTON AV			B
105	105-108	EB I105 JWO LONG BEACH BLVD, **FSP 40** ACC WILMINGTON AV	33.92697	-118.21532	B
110	110-135	SB I110 JSO EB I105, ***FSP 43*** ACC IMPERIAL HWY			B
14	14-299	SB SR14 JKO GOLDEN VALLEY RD, **FSP24** ACC VIA PRINCESSA			B
14	14-365	SB SR14 JSO SPRING CANYON RD, **FSP24** 1/3 MI ACC AGUA DULCE CANYON RD			B
14	14-378	NB SR14 JSO AGUA DULCE CANYON RD, **FSP 24** ACC SOLEDAD CYN AT 2000'			B
14	14-549	SB SR14 JKO ANGELES FOREST HWY, **FSP 41** ACC AVENUE S			B
1	1-582	PACIFIC COAST HWY JSO BROAD BEACH RD, 1/2 MI			B
210	210-005TB	WB I210 TO SB I5 CON, ACC YARNELL ST			B
2	2-272	ANGELES CREST HWY JNO BAY TREE RD,MM 27.20			B
5	5-249	SB I5 JNO GRIFFITH PARK DR,**FSP 31** ACC COLORADO ST			B
5	5-416T	NB I405 TO NB I5 CON,**FSP 34** ACC RINALDI ST			B
5	5-464	NB I5 JSO WELDON CANYON RD, APPROX 1/2 MI ACC NB SR14			B
5	5-668	NB I5 JNO TEMPLIN HWY, APPROX 3/4 MI ACC TEMPLIN HWY			B
5	5-684	NB I5 JNO TEMPLIN HWY, APPROX 2 1/3 MI ACC TEMPLIN HWY			B
5	5-718	NB I5 JNO CKERRY CANYON, APPROX 5 1/2 MI ACC TEMPLIN HWY			B
5	5-725	SB I5 JSO VISTA DEL LAGO RD, ACC VISTA DEL LAGO RD			B
5	5-744	NB I5 AT VISTA DEL LAGO RD, ACC TEMPLIN HWY			B
605	605-248	NB I605 JNO ARROW HWY, ** FSP37 ** ACC ARROW HWY			B
N3	N3-093	ANGELES FOREST HWY AT ALISO CANYON RD			B
101	101-084	NB US101 AT HIGHLAND AV,**FSP 27** ACC VINE ST			C
118	118-118T	NB I5 TO EB SR118 CON, ** FSP24 ** ACC OSBORNE ST			C
14	14-474	NB SR14 JSO CROWN VALLEY RD, 1 MI ACC WARD RD**FSP 41**			C
210	210-015	WB I210 JWO GLENOAKS BLVD, ACC ROXFORD ST			C
210	210-035	WB I210 JEO POLK ST,ACC HUBBARD ST	34.31593	-118.43802	C
210	210-055	WB I210 JWO SR118, **FSP 33** ACC PAXTON ST			C
210	210-159	WB I210 AT LOWELL AV, AT CITY LIMITS ACC PENNSYLVANIA AV			C
405	405-104	NB I405 JSO E CARSON ST, **FSP 19** ACC WILMINGTON AV			C
5	5-608	NB I5 JNO LAKE HUGHES RD, APPROX 1 1/3 MI ACC LAKE HUGHES RD			C
5	5-675	SB I5 JSO HUNGRY VALLEY RD			C
5	5-775	SB I5 JSO SMOKEY BEAR RD, APPROX 1/2 MI ACC SMOKEY BEAR RD			C

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
5	5-798	NB I5 JSO SR138, APPROX 1 1/3 MI ACC HUNGRY VALLEY RD			C
605	605-189	SB I605 JSO VALLEY BLVD, ** FSP37 ** ACC VALLEY BLVD			C
605	605-249	SB I605 JSO EB I210, ** FSP37 ** ACC EB I210 OR WB I210			C
710	710-084	NB I710 JRD W Willow St			C

APPENDIX C: REMAINING NON TYPE B/C SITES

Appendix C - Non Type B and C Locations to keep

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
101	101-274	WB US101 AT VALLEY CIRCLE BLVD, **FSP 29** ACC WOODLAKE AV			A
101	101-325	EB US101 JEO AGOURA RD, ACC LIBERTY CANYON RD			A
10	10-374	EB I10 JEO N CITRUS ST, **FSP 12** ACC AZUSA AV			A
118	118-098	EB SR118 AT NB I405, **FSP 33** ACC HAYVENHURST AV			A
134	134-009	WB SR134 JEO E CAHUENGA BLVD,**FSP 22** ACC PASS AV			A
210	210-109	WB I210 JWO SUNLAND BLVD, ACC SUNLAND BLVD			A
210	210-115	WB I210 AT SUNLAND BLVD, ACC LA TUNA CANYON RD			A
210	210-239	WB I210 JWO MOUNTAIN ST, ACC SECO ST			A
210	210-309	WB I210 AT N BALDWIN AV, **FSP 11** ACC SANTA ANITA AV			A
2	2-199	SB SR2 AT MOUNTAIN ST, **FSP 35** ACC VERDUGO BLVD			A
5	5-128	NB I5 AT S ATLANTIC BLVD, ** FSP04 ** ACC ATLANTIC BLVD			A
60	60-124	EB SR60 JEO NB I605, **FSP 13** ACC PECK RD OR NB I605			A
60	60-278	EB SR60 JWO PHILLIPS RANCH RD,**FSP 21** ACC PHILLIPS RANCH RD			A
605	605-122	NB I605 JNO WASHINGTON BLVD, ** FSP37 ** ACC TELEGRAPH RD			A
91	91-188	EB SR91 JEO NORWALK BLVD,**FSP 15** ACC PIONEER BLVD			A
101	101-265	SB US101 JNO VENTURA BLVD.	34.16523	-118.6207	D
110	110-119	SB I110 JNO W ROSECRANS AV, **FSP 43** ACC EL SEGUNDO BLVD			D
210	210-459	WB I210 JWO FOOTHILL BLVD, **FSP 38** ACC FOOTHILL BLVD			D
405	405-009	SB I405 JSO PALO VERDE AV, **FSP 19** ACC WOODRUFF AV			D
405	405-149	SB I405 JNO WESTERN AV, **FSP 09** ACC CRENSHAW BLVD	33.86139	-118.31542	D
405	405-165	SB I405 JSO ARTESIA BLVD, **FSP 09** ACC HAWTHORNE BLVD			D
5	5-174	NB I5 JSO E 4TH ST, ** FSP04 ** ACC CALZONA ST			D
605	605-064	NB I605 JNO ALONDRA BLVD, ** FSP14 ** ACC ALONDRA BLVD			D
91	91-114	EB SR91 TO SB I710 CON,**FSP 26** ACC LONG BEACH BLVD	33.87312	-118.19703	D
91	91-164	EB SR91 JWO SB I605,**FSP 15** ACC BELLFLOWER BLVD			D
110	110-024	NB I110 JSO C ST, ACC C ST			E
10	10-064	EB I10 JEO NB I405, **FSP 17** ACC I405			F
101	101-038	NB US101 JNO SILVERLAKE BLVD,**FSP 02** ACC SILVERLAKE BLVD			F
101	101-048	NB US101 JSO MELROSE AV,**FSP 27** ACC VERMONT AV			F
101	101-075	SB US101 AT VINE ST,**FSP 27** ACC HIGHLAND AV			F
101	101-205	EB US101 JWO WHITE OAK AV	34.17097	-118.52313	F
101	101-215	EB US101 JWO RESEDA BLVD,**FSP 29** ACC VAN ALDEN AV			F
110	110-034	NB I110 JSO W ANAHEIM ST, ACC C ST			F
110	110-244	NB SR110 JNO STADIUM WY, ** FSP01 ** ACC SUNSET BLVD			F
14	14-678	NB SR14 JSO AVENUE J,ACC AVENUE K			F
5	5-499	SB I5 JSO PICO CANYON RD,**FSP 42** ACC LYONS AV	34.3755	-118.56302	F
60	60-195	WB SR60 JWO NB FULLERTON RD	33.99438	-117.90523	F
71	71-009	SB SR71 JNO W VALLEY BLVD, ACC SB I210 OR EB I10			F
710	710-234	NB I710 JSO E OLYMPIC BLVD, ** FSP23 ** ACC WASHINGTON BLVD			F
91	91-067	WB SR91 JWO S MAIN ST,**FSP 26** ACC AVALON BLVD			F
91	91-144	EB SR91 AT LAKEWOOD BLVD,**FSP 15** ACC DOWNEY AV			F
110	110-095	SB I110 JSO EB SR91, **FSP 43** ACC REDONDO BEACH BLVD			G
405	405-174	NB I405 AT HAWTHORNE BLVD, **FSP 09** ACC REDONDO BEACH BLVD			G
405	405-185	SB I405 JNO INGLEWOOD AV, **FSP 09** ACC ROSECRANS AV			G
710	710-159	SB I710 JNO ROSECRANS AV, **FSP 30** ACC MLK			G
110P	110P-195	SB I110 HOV JSO W 39TH ST, ** FSP BT 1 **			K
210	210-258	EB I210 JWO N LAKE AV, **FSP 11** ACC MARENGO ST	34.16517	-118.13972	K
5	5-529	SB I5 JNO VALENCIA BLVD,**FSP 42** APPROX 1/3 MI ACC MAGIC MOUNTAIN PKWY	34.41378	-118.578	L
126	126-002	HENRY MAYO DR AT LACO VECO COUNTY LINE			A
138	138-562	SR138 JEO 96TH ST E			A
138	138-642	SR138 JEO 155TH ST E, APPROX 1/3 MI			A
138	138-653	SR138 JEO 175TH ST E, APPROX 1/2 MI			A
138	138-662	SR138 JEO AVENUE W, APPROX 1/2 MI			A
138	138-689	SR138 JEO 213TH ST E, APPROX 2/10 MI			A
138	138-702	SR138 JEO SR18, APPROX 1/2 MI *TG X*			A
138	138-713	SR138 JEO SR18, APPROX 1 MI			A
1	1-497	SR1 JSO CRN1, 3/10 MI NORTH END			A
23	23-077	WESTLAKE BLVD JSO CARLISLE RD, (1 MI)			A
2	2-698	SR2 JWO DAWSON SADDLE, APPROX 2/10 MI MM 69.81			A
2	2-713	ANGELES CREST HWY MM 71.40, JWO VINCENT GULCH DIVIDE RD APPROX 2 4/10 MI			A
CN	CN-007	CORNELL WY JEO KANAN RD, .6 MILES JSO KANAN			A
LH	LH-159	LAKE HUGHES RD JNO DRY GULCH RD			A
MU	MU-144	MULHOLLAND HWY JEO KANAN DUME RD, 2.5 MILES			A
MU	MU-254	MULHOLLAND HWY JEO COLD CANYON RD			A
N3	N3-029	ANGELES FOREST HWY JSO SIERRA HWY, 2.8 MILES JSO SIERRA HWY			A
N9	N9-037	KANAN RD JSO CASTLE VIEW DR, .9 MILES			A
N9	N9-077	KANAN DUME RD AT MULHOLLAND HWY, 100FT JNO MULHOLLAND			A
N9	N9-086	KANAN DUME RD JSO LATIGO CANYON RD, .4 MILES			A
N9	N9-107	KANAN DUME RD JSO NEWTON CANYON RD, 1.2 MILES			A
126	126-012	HENRY MAYO DR JEO SAN MARTINEZ GRANDE CYN RD			F
126	126-013	HENRY MAYO DR JWO SAN MARTINEZ GRANDE CYN RD, APPROX 4/10 MI			F
126	126-022	HENRY MAYO DR JEO CHIQUITO CANYON RD, EB APPROX 4/10 MI JWO			F
126	126-033	HENRY MAYO DR JWO WOLCOTT WY			F
126	126-042	HENRY MAYO DR JEO WOLCOTT WY			F
2	2-226TA	NB SR2 TO EB I210 CON, ACC MOUNTAIN ST			F
27	27-083	TOPANGA CANYON JNO ENTRADO DR			F
5	5-609	SB I5 JNO LAKE HUGHES RD, APPROX 1 1/3 MI ACC TEMPLIN HWY			F
5	5-625	SB I5 JNO LAKE HUGHES RD, APPROX 2 3/4 MI ACC TEMPLIN HWY			F
EL	EL-146	ELIZABETH LAKE RD JEO SAN FRANCISQUITO CANYON RD, 1 MILE			F
LH	LH-177	LAKE HUGHES RD JNO TAYLOR CANYON MTWY			F
LH	LH-189	LAKE HUGHES RD JNO TAYLOR CANYON MTWY			F
10	10-051TB	NB I405 FWY CON TO WB 10			A
10	10-065	WB I10 JWO S ROBERTSON BLVD, **FSP 17** ACC ROBERTSON BLVD (WB I10 JWO ROBERTSON BLVD)			A
10	10-104A	EB I10 ON NB S LA BREA AV OFR, **FSP17** ACC WASHINGTON BLVD			A

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
101	101-095	SB US101 JNO BARHAM BLVD,**FSP 27** ACC LANKERSHIM BLVD			A
101	101-099	SB US101 JNO UNIVERSAL CENTER DR, ** FSP27 ** ACC LANKERSHIM BLVD			A
10	10-113A	CRENSHAW BLVD ONR TO WB I10, **FSP 17** ACC CRENSHAW BLVD			A
101	101-159	EB US101 AT VAN NUYS BLVD,**FSP 07** ACC SEPULVEDA BLVD			A
101	101-172TC	WB US101 TO SB I405 CON,**FSP 07** ACC VAN NUYS BLVD			A
101	101-289	EB US101 JWO PARKWAY CALABASAS,**FSP 29** ACC LAS VIRGENES RD			A
101	101-314	WB US101 JWO LAS VIRGENES RD,**FSP 29** ACC LAS VIRGENES RD			A
10	10-203T	WB I10 AT N NERBERT AV, ON COL **FSP 2** ACC NERBERT AV			A
10	10-209T	WB I10 AT N EASTERN AV, ON COL **FSP 2** ACC I710			A
10	10-268T	EB I10 JEO ROSEMEAD BLVD, **FSP 8**			A
10	10-349	WB I10 JWO N SUNSET AV, **FSP 12** ACC VINCENT AV			A
10	10-358	EB I10 JEO N VINCENT AV, **FSP 12** ACC VINCENT AV			A
10	10-359	WB I10 JEO N VINCENT AV, **FSP 12** ACC AZUSA AV			A
10	10-365	WB I10 JWO N AZUSA AV, **FSP 12** ACC AZUSA AV			A
10	10-426	EB I10 JWO SB SR71, **FSP 18** ACC VIA VERDE			A
10	10-428	EB I10 JEO SB SR71, **FSP 18** ACC VIA VERDE			A
10	10-434	EB I10 JEO NB SR57, **FSP 18** ACC VIA VERDE OR I210			A
105	105-030	EB I105 JEO HAWTHORNE BLVD,**FSP39 ** ACC AVIATION BLVD			A
105	105-054	EB I105 JEO S WESTERN AV, ** FSP 39 ** ACC CRENSHAW BLVD	33.92527	-118.3101	A
105	105-076	EB I105 JEO SB I110, **FSP 39**, ACC VERMONT AV	33.92787	-118.27448	A
105	105-115	WB I105 AT LONG BEACH BLVD, **FSP 40** ACC LONG BEACH BLVD			A
105	105-124TC	WB I105 TO SB I710 CON, **FSP 40** ACC LAKEWOOD BLVD			A
105	105-132	EB I105 JEO ATLANTIC AV			A
110	110-018	NB I110 JNO CHANNEL ST, ACC CHANNEL ST			A
110	110-019	SB I110 JNO CHANNEL ST, ACC C ST			A
110	110-058	NB I110 JNO W SEPULVEDA BLVD,ACC SEPULVEDA BLVD			A
110	110-089	SB I110 JNO NB I405,**FSP 43** ACC REDONDO BEACH BLVD			A
110	110-096	NB I110 JSO EB SR91,**FSP43** ACC 190TH ST			A
110	110-139	SB I110 AT EB I105,**FSP 43**			A
110	110-194	NB I110 AT MARTIN LUTHER KING JR BLVD, **FSP 43** ACC VERNON AV			A
110	110-228	NB I110 JNO W 6TH ST, ** FSP01 ** ACC 8TH ST			A
110	110-245	SB SR110 JSO STADIUM WY, ** FSP01 ** ACC STADIUM WAY			A
118	118-074	EB SR118 JWO BALBOA BLVD, **FSP 33** ACC RESEDA BLVD	34.2776	-118.51135	A
118	118-099	WB SR118 JWO NB I405, **FSP 33** ACC SEPULVEDA BLVD			A
118	118-118	EB SR118 JEO NB IS, **FSP 33** ACC SEPULVEDA BLVD			A
118	118-124	EB SR118 JEO SAN FERNANDO RD, **FSP 33** ACC LAUREL CANYON BLVD			A
138	138-613	SR138 JEO 136TH ST E, APPROX 1 1/3 MI			A
138	138-682	SR138 JEO LARGO VISTA RD, APPROX 1/10 MI			A
138	138-722	SR138 JEO 233RD ST E, APPROX 8/10 MI			A
138	138-742	SR138 ANTELOPE HWY JWO FORT TEJON RD, APPROX 9/10 MI			A
14	14-278	NB SR14 JNO SAN FERNANDO RD, ** FSP24 ** ACC SAN FERNANDO RD (NB SR14 JNOSAN FERNANDO RD)			A
14	14-279	SB SR14 JSO PLACERITA CANYON RD, ** FSP24 ** ACC GOLDEN VALLEY RD			A
14	14-293	NB SR14 JNO GOLDEN VALLEY RD, **FSP 24** ACC GOLDEN VALLEY RD			A
14	14-315	SB SR14 JNO VIA PRINCESSA, **FSP 24** ACC SAND CANYON RD			A
14	14-358	NB SR14 AT SOLIDAD CANYON ROAD	34.43383	-118.38392	A
14	14-369	SB SR14 JNO OAK SPRING CANYON RD, **FSP24** ACC AGUA DULCE CANYON RD			A
14	14-464	NB SR14 JSO WARD RD, **FSP 41** ACC ESCONDIDO CANYON RD			A
14	14-524	NB SR14 JNO SIERRA HWY, **FSP 41** ACC SOLEDAD CANYON RD			A
14	14-559	SB SR14 JSO AVENUE S			A
14	14-564	NB SR14 JNO ANGELES FOREST HWY, **FSP 41** 1 1/2 MI ACC PEARBLOSSOM HWY			A
14	14-624	NB SR14 JSO AVENUE N, 1/4 MI ACC 10TH ST W			A
14	14-625	SB SR14 JSO AVENUE O, 1 1/4 MI ACC AVENUE N			A
14	14-639	SB SR14 JNO AVENUE N, 1/4 MI ACC AVENUE M			A
1	1-486	SR1 JNO CRN1, 4/10 MI			A
1	1-487	SR1 JNO CRN1, 4/10 MI			A
1	1-496	SR1 JSO CRN1, 3/10 MI NORTH END			A
1	1-512	SR1 JSO LATIGO CANYON RD			A
1	1-526	SR1 JNO ESCONDIDO BEACH RD, 2 MI			A
1	1-532	SR1 JSO ZUMA BEACH RD			A
1	1-598	PACIFIC COAST HWY AT DECKER RD			A
18	18-012	SR18 JWO 263RD ST E, APPROX 4/10 MI			A
210	210-108	EB I210 JWO SUNLAND BLVD, ACC WHEATLAND AV			A
210	210-114	EB I210 JEO SUNLAND BLVD, ACC SUNLAND BLVD			A
210	210-124	EB I210 JWO LA TUNA CANYON RD, ACC SUNLAND BLVD			A
210	210-125	WB I210 JWO LA TUNA CANYON RD, ACC LA TUNA CANYON RD			A
210	210-145	WB I210 AT LA TUNA CANYON RD, ACC LA TUNA CANYON RD			A
210	210-158	EB I210 JEO LOWELL AV, ACC LA TUNA CANYON RD			A
210	210-174	EB I210 JWO LA CRESCENTA AV, ACC PENNSYLVANIA AV			A
210	210-238	EB I210 JWO MOUNTAIN ST, ACC LINCOLN AV			A
210	210-305	WB I210 JEO N MICHILLINDA AV, **FSP 11** ACC BALDWIN AV	34.149	-118.05932	A
210	210-308	EB I210 AT N BALDWIN AV, **FSP 11** ACC MICHILLINDA AV			A
210	210-314	EB I210 JEO N BALDWIN AV, **FSP 11** ACC BALDWIN AV			A
210	210-362T	EB I210 TO SB I605 CON, **FSP 28** ACC BUENA VISTA ST			A
210	210-364T	EB I210 TO NB I605 CON, **FSP 28** ACC BUENA VISTA ST			A
210	210-429	WB I210 JWO S SUNFLOWER AV, **FSP 28** ACC SUNFLOWER AV			A
210	210-442	EB I210 AT S LONE HILL AV, **FSP 38** ACC SUNFLOWER AV			A
210	210-443T	WB I210 JEO S SUNFLOWER AV, **FSP 38** ACC SAN DIMAS AV (WB 210 JEO SUNFLOWER AV)			A
210	210-446	EB I210 JEO S LONE HILL AV, **FSP 38** ACC LONE HILL AV			A
2	2-198	NB SR2 JSO MOUNTAIN ST, **FSP 35** ACC WB SR134			A
2	2-208	NB SR2 JNO SHERER LN, **FSP 35** ACC MOUNTAIN ST			A
2	2-226	NB SR2 JSO EB I210, **FSP 35** ACC MOUNTAIN ST			A
2	2-229	SB SR2 JSO VERDUGO BLVD, **FSP 35** ACC FOOTHILL BLVD			A
405	405-124	NB I405 JSO NB I110, **FSP 19** ACC AVALON BLVD			A
405	405-126	NB I405 JSO NB I110,** FSP 19** ACC AVALON BLVD			A
405	405-144	NB I405 JSO WESTERN AV, **FSP 09** ACC NORMANDIE AV			A

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
405	405-218T	NB I405 AT W MANCHESTER BLVD			A
405	405-229	SB I405 JNO W CENTURY BLVD, **FSP 06** ACC LA CIENEGA BLVD			A
405	405-469	SB I405 AT EB SR118, ACC SAN FERNANDO MISSION BLVD			A
5	5-064	NB I5 JNO FLORENCE AV, ** FSP16 ACC PIONEER BLVD			A
5	5-065	SB I5 JSO SB I605, ** FSP16 ** ACC LAKEWOOD BLVD			A
5	5-070	NB I5 JNO NB I605, ** FSP16 ** ACC PIONEER BLVD			A
5	5-129	SB I5 AT S ATLANTIC BLVD, ** FSP04 ** ACC SB I710			A
5	5-213TA	SB I5 TO SB SR110 CDN,** FSP04 ** ACC STADIUM WY			A
5	5-223	SB I5 JSO SB SR2,**FSP 31** ACC GLENDALE BLVD			A
5	5-226	NB I5 JSO NB SR2,**FSP 31** ACC STADIUM WY			A
5	5-235	SB I5 JNO FLETCHER DR,**FSP 31** ACC GLENDALE BLVD			A
5	5-239	SB I5 AT GLENDALE BLVD,**FSP 31** ACC WB LOS FELIZ BLVD			A
5	5-264T	NB I5 TO EB SR134 CDN, **FSP 31** ACC COLORADO ST			A
5	5-408	NB I5 JSO I405,**FSP 34** TRU ACC SAN FERNANDO MISSION BLVD	34.28568	-118.4603	A
5	5-435	SB I5 JSO I210, ACC SB SR14 OR CALGROVE BLVD			A
5	5-438	NB I5 JNO ROXFORD ST, ACC ROXFORD ST			A
5	5-439	SB I5 JSO I210, ACC SB SR14 OR CALGROVE BLVD			A
5	5-488	NB I5 JNO CALGROVE BLVD,**FSP 42**			A
5	5-553C	28648 THE OLD RD, NEWHALL CHP OFFICE			A
5	5-588	NB I5 AT PARKER RD,**ESCAPE AREA** **FSP 42** ACC HASLEY CANYON RD			A
5	5-589	SB I5 JNO PARKER RD,**ESCAPE AREA** **FSP 42** ACC LAKE HUGHES RD			A
57	57-074TA	NB SR57 TO EB I10 CDN, ** FSP 38 ** ACC TEMPLE AV			A
5	5-834	NB I5 JNO SR138, APPROX 1 1/4 MI ACC WB SR138			A
60	60-119TB	WB SR60 TO SB I605 CDN, **FSP 13** ACC CROSSROADS PKWY			A
60	60-125	WB SR60 JEO NB I605, ** FSP 13 ** ACC CROSSROADS PKWY			A
60	60-128	EB SR60 JEO CROSSROADS PKWY S, **FSP 20** ACC NB I605 OR PECK RD			A
60	60-129	WB SR60 JEO CROSSROADS PKWY S, ** FSP 13 ** ACC CROSSROADS PKWY			A
60	60-255	WB SR60 JWO DIAMOND BAR BLVD, **FSP 21** ACC DIAMOND BAR BLVD			A
60	60-264	EB SR60 JEO DIAMOND BAR BLVD, **FSP 21** ACC DIAMOND BAR BLVD			A
60	60-279	WB SR60 JWO PHILLIPS RANCH RD,**FSP 21** ACC PHILLIPS RANCH RD			A
605	605-004	NB I605 JNO E SPRING ST, **FSP 14** ACC KATELLA AV			A
605	605-024	NB I605 JNO E CARSON ST, ** FSP14 ** ACC CARSON ST			A
605	605-123	SB I605 JNO WASHINGTON BLVD, ** FSP37 ** ACC WASHINGTON BLVD			A
605	605-174TA	NB I605 TO EB SR60 CDN, ** FSP37 ** ACC PECK RD			A
605	605-175	SB I605 JSO EB SR60, ** FSP37 ** ACC VALLEY BLVD			A
605	605-194	NB I605 JSO VALLEY BLVD, ** FSP37 ** ACC EB SR60 OR WB SR60			A
605	605-208	NB I605 JNO EB I10, ** FSP37 ** ACC VALLEY BLVD			A
605	605-209	SB I605 JSO RAMONA BLVD, ** FSP37 ** ACC RAMONA BLVD			A
605	605-214	NB I605 JNO RAMONA BLVD, ** FSP37 ** ACC RAMONA BLVD			A
710	710-155	SB I710 JSO EB I105, **FSP 30** ACCESS E IMPERIAL HWY			A
710	710-158	NB I710 JNO EB I105, ** FSP 30 ** ACC WB 91 OR EB 91 (NB I710 JNO I105)			A
710	710-165T	SB I710 TO WB I105 CDN, ** FSP30 ** ACC IMPERIAL HWY			A
91	91-064	EB SR91 JWO FIGUEROA ST,**FSP 26** ACC VERMONT ST	33.87259	-118.28218	A
91	91-084	EB SR91 AT S CENTRAL AV,**FSP 26** ACC AVALON BLVD			A
91	91-123TC	WB SR91 TO NB I710 CDN,**FSP 26** ACC CHERRY AV			A
91	91-146	EB SR91 JEO LAKEWOOD BLVD			A
91	91-189	WB SR91 AT NORWALK BLVD,**FSP 15** ACC BLOOMFIELD AV			A
EN	EN-030	ENCINAL CANYON RD JEO GRACE RD, .2 MILES			A
LH	LH-147	LAKE HUGHES RD JSO N CASTAIC RESERVOIR RD			A
MU	MU-108	MULHOLLAND HWY JWO ENCINAL CANYON RD, 1 MILE			A
MU	MU-208	MULHOLLAND HWY JWO LAS VIRGENES RD, .75 MILES			A
N3	N3-003	ANGELES FOREST HWY AT SIERRA HWY			A
N3	N3-038	ANGELES FOREST HWY JNO MT EMMA RD, .85 MI JNO MT EMMA RD			A
10	10-038	EB I10 JWO S CENTINELA AV, ACC CLOVERFIELD BLVD			D
10	10-039	WB I10 JWO S CENTINELA AV			D
10	10-078	EB I10 AT S ROBERTSON BLVD, **FSP 17** ACC NATIONAL BLVD			D
10	10-088	EB I10 JEO S FAIRFAX AV, **FSP 17** ACC LA CIENEGA BLVD			D
101	101-055	SB US101 JSO SANTA MONICA BLVD,**FSP 27** ACC SANTA MONICA BLVD			D
101	101-065	SB US101 JNO W SUNSET BLVD,**FSP 27** ACC HOLLYWOOD BLVD			D
101	101-118	WB US101 JWO SB SR170,**FSP 07** ACC MOORPARK AV			D
101	101-124	WB US101 AT LAUREL CANYON BLVD,**FSP 07** ACC TUJUNGA AV			D
101	101-125	EB US101 AT LAUREL CANYON BLVD,**FSP 07** ACC LAUREL CANYON BLVD			D
101	101-158	WB US101 AT VAN NUYS BLVD,**FSP 07** ACC WOODMAN AV			D
101	101-164	WB US101 AT KESTER AV,**FSP 07** ACC VAN NUYS BLVD			D
101	101-165	EB US101 AT SEPULVEDA BLVD, **FSP 07** ACC SEPULVEDA BLVD			D
101	101-179	EB US101 JWO HASKELL AV,**FSP 07** ACC HAYVENHURST AV			D
101	101-185	EB US101 AT HAYVENHURST AV,**FSP 07** ACC BALBOA BLVD			D
101	101-214	WB US101 JWO RESEDA BLVD,**FSP 29** ACC WHITE OAK AV			D
101	101-218	WB US101 JWO RESEDA BLVD,**FSP 29** ACC RESEDA BLVD			D
10	10-133T	S NORMANDIE AV ONR TO WB I10, **FSP 17** ACC NORMANDIE AV			D
10	10-264	EB I10 JEO WALNUT GROVE AV, **FSP 8** ACC WALNUT GROVE AV			D
105	105-066TA	EB I105 TO SB I110 CDN, **FSP 39** ACC CRENSHAW BLVD			D
105	105-069	WB I105 JWO NB I110, **FSP39** ACC CENTRAL AV			D
105	105-077TG	WB I105 TO NB I110 CDN, **FSP 39** ACC CENTRAL AV			D
105	105-104	EB I105 JEO WILMINGTON AV, **FSP 40** ACC CENTRAL AV	33.9294	-118.22538	D
105	105-177	SB I605 TO WB I105 CDN,**FSP 14** ACC SB I605			D
110	110-025	SB I110 JSO C ST, ACC C ST			D
110	110-038	NB I110 JSO PACIFIC COAST HWY, ACC ANAHEIM ST			D
110	110-045	SB I110 JNO PACIFIC COAST HWY, ACC SEPULVEDA BLVD			D
110	110-102	NB I110 JSO REDONDO BEACH BLVD, ***FSP 43*** ACC EB 91			D
110	110-103	SB I110 JNO EB SR91, ** FSP 43 ** ACC REDONDO BEACH BLVD			D
110	110-103T	SB I110 TO WB SR91 CDN, ***FSP ST 43***			D
110	110-104	NB I110 JSO REDONDO BEACH BLVD, **FSP 43** ACC EB SR91			D
110	110-105	SB I110 JNO WB SR91, ** FSP 43 ** ACC FM REDONDO BEACH BLVD			D
110	110-118	NB I110 JNO W ROSECRANS AV, **FSP 43** ACC ROSECRANS AV			D

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
110	110-143	SB I110 JNO W IMPERIAL HWY, **FSP 43** ACC MANCHESTER AV			D
110	110-144	NB I110 JNO WB I105, **FSP 43** ACC EL SEGUNDO BLVD			D
110	110-145	SB I110 JSO W CENTURY BLVD, **FSP 43** ACC MANCHESTER AV			D
110	110-154	NB I110 JSO MANCHESTER AV, ***FSP BT 43***			D
110	110-155	SB I110 JNO CENTURY BLVD, ** FSP BT 43 **			D
110	110-164	NB I110 JNO MANCHESTER AV,*** FSP43 *** ACC MANCHESTER AV			D
110	110-165	SB I110 JNO MANCHESTER AV,***FSP 43***			D
110	110-168	NB I110 JSO W FLORENCE AV, **FSP 43** ACC MANCHESTER AV			D
110	110-169	SB I110 JSO W FLORENCE AV, **FSP 43** ACC GAGE AV			D
118	118-09ST	EB SR118 TO SB I405 CON,**FSP 33** ACC HAYVENHURST AV			D
118	118-108	EB SR118 JWO SB I5, **FSP 33** ACC SEPULVEDA BLVD			D
118	118-109	WB SR118 JWO SB I5, **FSP 33** ACC SAN FERNANDO RD			D
210	210-165	WB I210 JWO PENNSYLVANIA AV, ACC PENNSYLVANIA AV			D
210	210-269	WB I210 JWO N HILL AV, **FSP 11** ACC HILL AV			D
210	210-278	EB I210 JWO ALTADENA DR, **FSP 11** ACC ALLEN AV			D
210	210-279	WB I210 JWO ALTADENA DR, **FSP 11** ACC ALTADENA DR			D
210	210-345	WB I210 JEO S MYRTLE AV, **FSP 28** ACC MOUNTAIN AV			D
210	210-354	EB I210 JWO BUENA VISTA ST, **FSP 28** ACC MOUNTAIN AV			D
210	210-447	WB I210 JWO N SAN DIMAS AV, **FSP 38** ACC SAN DIMAS AV (WB SR210 JWO SANDIMAS AV)			D
210	210-458	EB I210 JEO N SAN DIMAS AV, **FSP 38** ACC SAN DIMAS AV			D
210	210-462T	EB I210 JEO FRUIT ST, APPROX 3/4 MI			D
210	210-484	EB I210 JEO FRUIT ST EXIT			D
405	405-004	NB I405 AT N STUDEBAKER RD, **FSP 19** ACC SB I605 OR 7TH ST			D
405	405-005	SB I405 JSO E STEARNS ST, **FSP 19** ACC STEARNS ST TO 796E4			D
405	405-008	NB I405 JSO PALO VERDE AV, **FSP 19** ACC STUDEBAKER RD			D
405	405-015	SB I405 JSO WOODRUFF AV,**FSP 19** ACC WOODRUFF AV			D
405	405-024T	NB N BELLFLOWER BLVD ONR TO NB I405, ** FSP19 **			D
405	405-148	NB I405 JNO WESTERN AV, **FSP 09** ACC WESTERN AV	33.88168	-118.31522	D
405	405-164	NB I405 JSO ARTESIA BLVD, **FSP 09** ACC CRENSHAW BLVD			D
405	405-175	SB I405 AT NB HAWTHORNE BLVD,**FSP 09** ACC INGLEWOOD AV			D
405	405-178	NB I405 JSO INGLEWOOD AV, **FSP 09** ACC HAWTHORNE BLVD			D
405	405-428	NB I405 JNO SHERMAN WY, **FSP 10** ACC SHERMAN WAY			D
405	405-444	NB I405 JSO NORDHOFF ST, **FSP 10** ACC ROSCOE BLVD	34.22903	-118.47197	D
405	405-454	NB I405 JNO NORDHOFF ST, **FSP 10** ACC NORDHOFF ST	34.24385	-118.47185	D
5	5-144	NB I5 AT DITMAN AV, ** FSP04 ** ACC ATLANTIC BLVD			D
5	5-148	NB I5 AT DITMAN AV, ** FSP04 ** ACC DITMAN AV			D
5	5-175	SB I5 JSO E 4TH ST, ** FSP04 ** ACC 4TH ST			D
5	5-178	NB I5 JSO CESAR CHAVEZ AV, ** FSP04 ** ACC 4TH ST			D
5	5-179	SB I5 JSO CESAR CHAVEZ AV, ** FSP04 ** ACC CEASAR CHAVEZ AV			D
5	5-220	NB I5 JNO STADIUM WY, ** FSP31 ** ACC NB SR110			D
5	5-222	NB I5 JSO SB SR2,**FSP 31** ACC STADIUM WY			D
5	5-248	NB I5 JNO LOS FELIZ BLVD,**FSP 31** ACC LOS FELIZ BLVD			D
5	5-498	NB I5 JSO LYONS AV,**FSP 42** ACC CALGROVE BLVD	34.37525	-118.56295	D
60	60-258	EB SR60 JEO DIAMOND BAR BLVD, **FSP 21** ACC DIAMOND BAR BLVD			D
605	605-065	SB I605 JSO ROSECRANS AV, ** FSP14 ** ACC ROSECRANS AV			D
605	605-066TA	NB I605 TO WB I105 CON, ** FSP14** ACC ALONDRA BLVD			D
605	605-093	SB I605 JSO FLORENCE AV, ** FSP14 ** ACC FLORENCE AV			D
605	605-103	SB I605 JSO TELEGRAPH RD, ** FSP14 ** ACC TELEGRAPH RD			D
605	605-104	NB I605 JNO TELEGRAPH RD, ** FSP37 ** ACC TELEGRAPH RD			D
605	605-135	SB I605 JSO WHITTIER BLVD, ** FSP37 ** ACC WHITTIER BLVD			D
91	91-067TB	WB SR91 TO NB I110 CON, **FSP 26** ACC AVALON BLVD			D
91	91-115	WB SR91 JEO N LONG BEACH BLVD,**FSP 26** ACC ATLANTIC AV	33.8738	-118.19788	D
91	91-128	EB SR91 JWO CHERRY AV,**FSP 26** ACC ATLANTIC AV			D
91	91-129	WB SR91 JWO CHERRY AV,**FSP 26** ACC CHERRY AVE			D
105	105-023TH	WB I105 TO SB I405 CON, **FSP 39**			E
105	105-032	EB I105 AT W IMPERIAL HWY, ** FSP 39 ** ACC AVIATION BLVD			E
118	118-114	EB SR118 AT SB I5, **FSP 33** ACC SEPULVEDA BLVD			E
2	2-209	SB SR2 JSO WB I210			E
405	405-212	NB I405 JSO W CENTURY BLVD,**FSP9**			E
405	405-217T	SB I405 JSO W MANCHESTER BLVD, **FSP 6**			E
405	405-434	NB I405 JSO ROSCOE BLVD, **FSP 10** ACC SHERMAN WAY	34.21533	-118.47215	E
60	60-298	EB SR60 JWO S RESERVOIR ST, **FSP 21** ACC SB SR71			E
10	10-079	WB I10 AT S ROBERTSON BLVD, **FSP 17** ACC LA CIENEGA BLVD			F
10	10-094	EB I10 AT BALLONA CREEK, **FSP 17** ACC ROBERTSON BLVD			F
101R	101-005R	SB US101 JSO E 4TH ST,**FSP 02** ACC MISSION RD			F
101	101-039	SB US101 JSO N VERMONT AV,**FSP02** ACC VERMONT AV			F
101	101-049	SB US101 JNO MELROSE AV,**FSP 27** ACC SANTA MONICA BLVD			F
101	101-074	NB US101 AT VINE ST,**FSP 27** ACC HOLLYWOOD BLVD			F
101	101-079	SB US101 JSO HIGHLAND AV,**FSP 27** ACC HIGHLAND AV	34.11087	-118.33517	F
101	101-128	WB US101 JEO LAUREL CANYON BLVD,**FSP 07** ACC TUJUNGA AV			F
101	101-129	EB US101 AT LAUREL CANYON BLVD, **FSP 07** ACC COLDWATER CANYON AV			F
101	101-134	WB US101 AT COLDWATER CANYON AV,**FSP 07** ACC LAUREL CANYON BLVD			F
101	101-184	WB US101 JEO HAYVENHURST AV,**FSP 07** ACC HASKELL AV			F
101	101-188	WB US101 AT BALBOA BLVD, **FSP 07** ACC HASKELL AV			F
101	101-204	EB US101 AT BURBANK BLVD, (SB US101 JSO BURBANK BLVD)	34.1714	-118.52197	F
101	101-208	WB US101 AT RESEDA BLVD,**FSP 07** ACC WHITE OAK AV			F
101	101-209	EB US101 AT RESEDA BLVD,**FSP 07** ACC VAN ALDEN AV			F
101	101-219	EB US101 JWO RESEDA BLVD,**FSP 29** ACC VAN ALDEN AV			F
101	101-238	WB US101 JWO WINNETKA AV, ** FSP 29 **			F
101	101-248	WB US101 AT CANOGA AV,**FSP 29** ACC DE SOTO AV			F
101	101-249	EB US101 AT CANOGA AV, ** FSP29 ** ACC TOPANGA CANYON BLVD			F
101	101-264	WB US101 JWO SHOUP AV, **FSP 29** ACC TOPANGA CANYON BLVD	34.16552	-118.62075	F
101	101-275	EB US101 JEO MULHOLLAND DR,**FSP 29** ACC VALLEY CIRCLE BLVD			F
101	101-295	EB US101 JWO PARKWAY CALABASAS,*FSP 29** ACC LAS VIRGENES RD			F
101	101-299	EB US101 JEO LAS VIRGENES RD,**FSP 29** ACC LAS VIRGENES RD			F

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
101	101-308	WB US101 JEO LAS VIRGENES RD, **FSP 29** ACC PARKWAY CALABASAS			F
101	101-319	EB US101 JEO LOST HILLS RD, ACC LIBERTY CANYON RD			F
101	101-324	WB US101 JEO LIBERTY CANYON RD, ACC LOST HILLS RD			F
10	10-136A	S VERMONT AV ONR TO EB I10, **FSP 1** ACC FROM VERMONT AV			F
10	10-143T	WB I10 JWO S HOOVER ST, **FSP 9** ACC LOS ANGELES ST WB I10 JWO HOOVERON COLLECTOR			F
105	105-043	WB I105 AT CRENSHAW BLVD, ** FSP 39 ** ACC VERMONT AV			F
105	105-126T	EB I105 TO SB I710 CON, **FSP 40** ACC LONG BEACH BLVD			F
105	105-134	EB I105 JWO NB I710, **FSP 40** ACC LONG BEACH BLVD			F
105	105-135	WB I105 JWO SB I710, **FSP 40** ACC GARFIELD AV			F
105	105-174TF	EB I105 TO NB I605 CON, **FSP 40** ACC BELLFLOWER BLVD			F
110	110-094	NB I110 JSO EB SR91, ***FSP BT 43*** ACC 190TH ST			F
110	110-097	SB I110 JSO EB SR91,***FSP 43*** ACC REDONDO BEACH BLVD			F
110	110-136	NB I110 JNO EL SEGUNDO BLVD, **FSP 43** ACC EL SEGUNDO BLVD			F
110	110-137	SB I110 AT EB I105,***FSP 43***			F
110	110-195	SB I110 JSO MARTIN LUTHER KING JR BLVD, **FSP 43** ACC 37TH ST			F
110	110-234	NB I110 JNO W 1ST ST, ** FSP01 ** ACC 3RD ST			F
110	110-265	SB SR110 JNO NB I5, ** FSP01 ** ACC AVENUE 43	34.0861	-118.21592	F
118	118-103T	WB SR118 TO SB I405 CON, **FSP 33** ACC LAUREL CANYON BLVD			F
118	118-119	WB SR118 JEO NB I5, **FSP 33** ACC SAN FERNANDO RD			F
118	118-138T	EB SR118 TO WB I210 CON, ** FSP 33** ACC GLENOAKS BLVD			F
134	134-056	EB SR134 JWO NB I5,**FSP 22** ACC FOREST LAWN DR	34.15203	-118.2905	F
134	134-056T	EB SR134 TO SB I5 CON,**FSP 22** ACC FOREST LAWN DR			F
134	134-098	EB SR134 JEO SB SR2, **FSP 35** ACC HARVEY DR			F
134	134-104	EB SR134 JEO SB SR2, ** FSP35 ** ACC HARVEY DR			F
134	134-118	EB SR134 JEO FIGUEROA ST, ** FSP35 ** ACC FIGUEROA ST			F
14	14-269	SB SR14 JSO SAN FERNANDO RD, ** FSP 24 ** ACC SAN FERNANDO RD			F
14	14-274	NB SR14 JNO SAN FERNANDO RD, ** FSP 24 ** ACC SAN FERNANDO RD			F
14	14-307T	SIERRA HWY ONR TO SB SR14, ***FSP 24***			F
14	14-308	NB SR14 JSO VIA PRINCESSA, **FSP 24** ACC GOLDEN VALLEY RD			F
14	14-318	NB SR14 JNO VIA PRINCESSA, **FSP 24** AT SANTA CLARA RIVER			F
14	14-334	NB SR14 AT SAND CANYON RD, **FSP 24** ACC VIA PRINCESSA			F
14	14-338	NB SR14 JNO SAND CANYON RD, **FSP 24** ACC SAND CANYON RD			F
14	14-368	NB SR14 JNO SPRING CANYON RD, **FSP24** 3/4 MI ACC SOLEDAD CANYON RD, TEMPREMOVAL			F
14	14-375	SB SR14 JNO SPRING CANYON RD, **FSP 24** ACC AGUA DULCE CANYON RDJSO 2000'	34.446	-118.362	F
14	14-404	NB SR14 JNO AGUA DULCE CANYON RD,**FSP 41** .75 MILES JNO AGUA DULCE			F
14	14-405	SB SR14 JSO ESCONDIDO CANYON RD, *** FSP 41 ***			F
14	14-408	NB SR14 JNO AGUA DULCE CANYON RD, NB 14 JNO AGUA DULCE *** FSP 41 ***			F
14	14-409	SB SR14 JNO AGUA DULCE CANYON RD,**FSP 41** 3/4 MI ACC ESCONDIDO CANYON RD			F
14	14-414	NB SR14 JNO AGUA DULCE CANYON RD, 1 1/3 MI ACC AGUA DULCE CANYON RD **FSP41**			F
14	14-424	NB SR14 JSO ESCONDIDO CANYON RD, (.5 MI JSO ESCONDIDO) *** FSP 41 ***			F
14	14-448	NB SR14 JNO ESCONDIDO CANYON RD, 1 1/2 MI ACC ESCONDIDO CANYON RD ***FSP BT 41***			F
14	14-455	SB SR14 JSO WARD RD, ACC WARD RD AT SUMMIT**FSP 41**			F
14	14-459	SB SR14 JSO WARD RD, 3/4 MI ACC WARD RD**FSP 41**			F
14	14-465	SB SR14 JSO WARD RD, **FSP 41** ACC WARD RD			F
14	14-475	SB SR14 JSO CROWN VALLEY RD, 1 1/4 MI ACC CROWN VALLEY RD**FSP 41**			F
14	14-518	NB SR14 JNO SANTIAGO RD, **FSP 41** 1 MI ACC SANTIAGO RD			F
14	14-554	NB SR14 JNO ANGELES FOREST HWY, **FSP 41** 1/2 MI ACC PEARBLOSSOM HWY			F
14	14-555	SB SR14 JNO ANGELES FOREST HWY, **FSP 41** 1/2 MI ACC AVENUE S			F
14	14-558	NB SR14 JNO ANGELES FOREST HWY, **FSP 41** MI ACC PEARBLOSSOM HWY			F
14	14-565	SB SR14 JSO AVENUE S, 1 6/8 MI ACC AVENUE S**FSP 41**			F
14	14-609	SB SR14 JSO RANCHO VISTA BLVD, 1/2 MI ACC AVENUE P**FSP 41**			F
14	14-679	SB SR14 JSO AVENUE J, ACC AVENUE I			F
14	14-689	SB SR14 JSO AVENUE L ACC AVENUE H			F
1	1-605	PACIFIC COAST HWY JKO DECKER RD, 6/10 MI			F
210	210-004	EB I210 JEO I5, ACC NB I5			F
210	210-005T	WB I210 TO SB I5 CON, ACC YARNELL ST			F
210	210-105	WB I210 JEO WHEATLAND AV, ACC SUNLAND BLVD			F
210	210-128	EB I210 JWO LA TUNA CANYON RD, ACC SUNLAND BLVD			F
210	210-134	EB I210 JWO LA TUNA CANYON RD, ACC SUNLAND BLVD			F
210	210-135	WB I210 JWO LA TUNA CANYON RD, ACC LA TUNA CANYON RD			F
210	210-138	EB I210 JWO LA TUNA CANYON RD, ACC SUNLAND BLVD			F
210	210-164	EB I210 JWO PENNSYLVANIA AV, ACC LOWELL AV			F
210	210-259	WB I210 JWO N LAKE AV, **FSP 11** ACC LAKE AV			F
210	210-304	EB I210 JEO N MICHILLINDA AV, **FSP 11** ACC MICHILLINDA AV			F
210	210-335	WB I210 JWO S MYRTLE AV, **FSP 28** ACC MYRTLE AV			F
210	210-367TB	WB I210 TO SB I605 CON, **FSP 28** ACC IRWINDALE AV			F
210	210-424	EB I210 JEO N GRAND AV, **FSP 28** ACC GRAND AV			F
210	210-438	EB I210 JEO S SUNFLOWER AV, **FSP 28** ACC SUNFLOWER AV			F
2	2-224	NB SR2 JSO VERDUGO BLVD, **FSP 35** ACC MOUNTAIN ST			F
2	2-225	SB SR2 JSO VERDUGO BLVD, **FSP 35** ACC VERDUGO BLVD			F
2	2-227	SB SR2 JSO VERDUGO BLVD, **FSP 35** ACC VERDUGO BLVD			F
27	27-034	SR27 JNO SR1, APPROX 3 1/2 MI			F
405	405-014	NB I405 JNO PALO VERDE AV, **FSP 19** ACC PALO VERDE AV			F
405	405-036	NB I405 JNO N LAKEWOOD BLVD,**FSP 19** ACC LAKEWOOD BLVD			F
405	405-038	NB I405 JNO N LAKEWOOD BLVD, **FSP 19** ACC LAKEWOOD BLVD			F
405	405-065	SB I405 JNO N LONG BEACH BLVD, **FSP19** ACC LONG BEACH BLVD	33.81847	-118.19113	F
405	405-127	SB I405 JSO NB I110, **FSP 19** ACC NORMANDIE AV			F
405	405-198TB	NB I405 TO EB I105 CON, FSP 9**			F
405	405-213	SB I405 JNO EB I105,*FSP6*			F
405	405-215T	SB I405 TO EB I105 CON, **FSP 6** ON COLLECTOR RD			F
405	405-222T	NB I405 JSO W CENTURY BLVD,**FSP6**			F
405	405-232T	NB I405 ON W MANCHESTER BLVD OFR, **FSP 06** ACC CENTURY BLVD			F
405	405-235	SB I405 AT W MANCHESTER BLVD, **FSP 06** ACC LA CIENEGA BLVD	33.96183	-118.36687	F
405	405-255	SB I405 AT SEPULVEDA BLVD,**FSP 06** ACC JEFFERSON BLVD			F
405	405-256TA	NB I405 TO WB SR90 CON,** FSP 06** ACC LA TUERA BLVD			F

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
5	S-109	SB I5 JNO GARFIELD AV, ** FSP04 ** ACC WASHINGTON BLVD			F
5	S-188	NB I5 AT N MAIN ST, ** FSP04 ** ACC MISSION RD			F
5	S-189	SB I5 AT MISSION RD, ** FSP04 ** ACC BROADWAY			F
5	S-234	NB I5 JSO GLENDALE BLVD,**FSP 31** ACC FLETCHER DR			F
5	S-245	SB I5 JNO LOS FELIZ BLVD,**FSP 31** ACC COLORADO ST			F
5	S-264	NB I5 JSO N ZOO DR,**FSP 31** ACC COLORADO ST			F
5	S-267	SB I5 JNO WB SR134, **FSP 31** ACC WESTERN AV			F
5	S-419TB	SB I5 JNO BALBOA BLVD, SB 5 TK LNS TRANS TO SB 5			F
5	S-436T	NB I5 TO EB I210 CON, (NB I5 TO EB 210 CON)			F
5	S-445TA	SB I5 TO EB I210 CON			F
5	S-445TB	SB I5 TO EB I210 CON, ** TRU ** ACC SBSR14			F
5	S-468	NB I5 JSO CALGROVE BLVD, APPROX 1 MI ACC NB SR14			F
5	S-485	SB I5 JSO CALGROVE BLVD, ACC LYONS AV			F
5	S-574	NB I5 JNO HASLEY CANYON RD,**ESCAPE AREA** **FSP 42** APPX 3/4 MI ACC HASLEY CANYON			F
5	S-605	SB I5 JNO LAKE HUGHES RD, APPROX 1 MI ACC TEMPLIN HWY			F
5	S-614	NB I5 JNO LAKE HUGHES RD, APPROX 1 3/4 MI ACC LAKE HUGHES RD			F
5	S-615	SB I5 JNO LAKE HUGHES RD, APPROX 1 3/4 MI ACC TEMPLIN HWY			F
5	S-628	NB I5 JSO CHP RD, APPROX 1 MI ACC LAKE HUGHES RD			F
5	S-634	NB I5 JSO CHP RD, APPROX 1/2 MI ACC LAKE HUGHES RD			F
5	S-635	SB I5 JSO CHP RD, APPROX 1/2 MI ACC TEMPLIN HWY			F
5	S-639	SB I5 AT CHP RD, ACC TEMPLIN HWY TG X			F
5	S-644	NB I5 JNO CHP RD, APPROX 1/2 MI ACC LAKE HUGHES RD			F
5	S-648	NB I5 JSO TEMPLIN HWY, APPROX 1 MI ACC LAKE HUGHES RD			F
5	S-649	SB I5 JSO TEMPLIN HWY, APPROX 1 MI ACC TEMPLIN HWY			F
5	S-669	SB I5 JNO TEMPLIN HWY, APPROX 3/4 MI ACC VISTA DEL LAGO RD			F
5	S-678	NB I5 JNO TEMPLIN HWY, APPROX 1 9/10 MI ACC TEMPLIN HWY			F
5	S-679	SB I5 JSO HUNGRY VALLEY RD			F
5	S-685	SB I5 JSO HUNGRY VALLEY RD			F
5	S-689	SB I5 JNO TEMPLIN HWY, APPROX 2 4/5 MI ACC VISTA DEL LAGO RD			F
5	S-694	NB I5 JNO TEMPLIN HWY, APPROX 3 4/10 MI ACC TEMPLIN HWY			F
5	S-698	NB I5 JNO THE ISLANDS, APPROX 3 4/5 MI ACC TEMPLIN HWY			F
5	S-699	SB I5 JNO TEMPLIN HWY, APPROX 3 4/5 MI ACC VISTA DEL LAGO RD			F
5	S-704	NB I5 JNO OSITO CANYON, APPROX 4 1/3 MI ACC TEMPLIN HWY			F
57	57-068	NB SR57 JNO TEMPLE AV, ** FSP 38 ** ACC TEMPLE AV	34.0537	-117.80263	F
5	S-708	NB I5 JNO TEMPLIN HWY, APPROX 4 4/5 MI ACC TEMPLIN HWY			F
5	S-709	SB I5 JNO CHERRY CANYON,APPROX 4 4/5 MI N/O ACC VISTA DEL LAGO RD			F
5	S-738	NB I5 JSO VISTA DEL LAGO RD, ACC TEMPLIN HWY			F
5	S-748	NB I5 JNO VISTA DEL LAGO RD, ACC VISTA DEL LAGO RD			F
5	S-749	SB I5 JNO VISTA DEL LAGO RD, ACC HUNGRY VALLEY RD			F
5	S-768	NB I5 JSO SMOKEY BEAR RD, APPROX 1 MI ACC VISTA DEL LAGO RD			F
5	S-769	SB I5 JSO HUNGRY VALLEY RD, APPROX 1 MI			F
5	S-815	SB I5 JSO SR138, APPROX 1/5 MI ACC QUAIL LAKE RD			F
60	60-068	EB SR60 JWO PARAMOUNT BLVD, ** FSP 13 ** ACC GARFIELD AV			F
60	60-117	WB SR60 JWO SB I605, ** FSP 13 ** ACC CROSSROADS PKWY			F
60	60-158	EB SR60 JWO S HACIENDA BLVD, ** FSP 20 ** ACC 7TH AV	34.00698	-117.96545	F
60	60-299	WB SR60 JWO S RESERVOIR ST, **FSP 21** ACC RESERVOIR ST			F
605	605-046TA	NB I605 TO EB SR91 CON, ** FSP14 ** ACC SOUTH ST			F
605	605-079	SB I605 JSO IMPERIAL HWY, ** FSP14 ** ACC FIRESTONE BLVD			F
605	605-105	SB I605 JNO TELEGRAPH RD, ** FSP37 ** ACC SLAUSON AV			F
605	605-109	SB I605 JSO SLAUSON AV, ** FSP37 ** ACC SLAUSON AV	33.95647	-118.08823	F
605	605-115	SB I605 JSO SLAUSON AV, ** FSP37 ** ACC SLAUSON AV			F
605	605-134	NB I605 AT WHITTIER BLVD, (NB I605 AT WHITTIER)			F
605	605-254TA	NB I605 TO EB I210 CON			F
605	605-255	EB I210 TO SB I605 CON, ** FSP 28 ** ACC MOUNTAIN AV			F
71	71-008	NB SR71 JNO W VALLEY BLVD, ACC VALLEY BLVD			F
710	710-152T	NB I710 TO EB I105 CON, ** FSP30 ** ACC ROSECRANS AV			F
710	710-154	NB I710 AT EB I105, **FSP 30**			F
710	710-155T	SB I710 JNO ROSECRANS AV, ***FSP 30*** ACC ROSECRANS			F
710	710-163	SB I710 JSO E IMPERIAL HWY, **FSP 30** ACC IMPERIAL			F
710	710-235	SB I710 AT NB I5, *** FSP23 ** ACC 3RD ST			F
710	710-267TC	NB I710 TO WB I10 CON, **FSP 23**			F
91	91-066	EB SR91 JWO S MAIN ST,**FSP 26** ACC FIGUEROA ST			F
91	91-067TA	WB SR91 TO NB I110 CON, **FSP 26** ACC AVALON BLVD			F
91	91-145	WB SR91 JWO LAKEWOOD BLVD,**FSP 15** ACC LAKEWOOD BLVD			F
91	91-147	WB SR91 JEO LAKEWOOD BLVD,**FSP 15** ACC BELLFLOWER BLVD			F
91	91-165	WB SR91 JWO SAN GABRIEL RIVER,**FSP 15** ACC PIONEER BLVD			F
91	91-168TA	EB SR91 TO NB I605 CON,**FSP 15** ACC BELLFLOWER BLVD			F
91	91-168TC	EB SR91 TO SB I605 CON,**FSP 15** ACC BELLFLOWER BLVD			F
91	91-169	WB SR91 JWO SB I605,**FSP 15** ACC PIONEER BLVD			F
LH	LH-198	LAKE HUGHES RD JSO TAYLOR CANYON MTWY, 1 MILE S/O			F
MU	MU-095	MULHOLLAND HWY JEO WESTLAKE BLVD, .2 MILES			F
MU	MU-134	MULHOLLAND HWY JEO KANAN DUME RD, .5 MILES			F
MU	MU-232	MULHOLLAND HWY JEO LAS VIRGENES RD, APPROX 1.1 MILES AT VIEWSITE			F
N9	N9-098	KANAN DUME RD JSO NEWTON CANYON RD, .4 MILE			F
N9	N9-120	KANAN DUME RD JSO NEWTON CANYON RD, 2.4 MILES			F
101	101-064	NB US101 JNO W SUNSET BLVD,**FSP 27** ACC FOUNTAIN AV			G
10	10-375	WB I10 JWO N CITRUS ST, **FSP 12** ACC BARRANCA ST			G
110	110-035	SB I110 JSO W ANAHEIM ST, ACC ANAHEIM ST			G
110	110-142	NB I110 JNO EB I105, **FSP 43** ACC EL SEGUNDO BLVD			G
118	118-097	WB SR118 JWO SB I405, **FSP 33** ACC SEPULVEDA BLVD			G
134	134-008	EB SR134 JEO LANKERSHIM BLVD,** FSP22**			G
14	14-306	NB SR14 JSO VIA PRINCESSA, **FSP 24** ACC GOLDEN VALLEY RD			G
2	2-194	NB SR2 JNO HOLLY DR, **FSP 35** ACC HOLLY DR			G
405	405-034	NB I405 JNO N LAKEWOOD BLVD, **FSP 19** ACC BELLFLOWER BLVD			G
405	405-035	SB I405 JSO N LAKEWOOD BLVD, **FSP 19** ACC SPRING ST			G

Route	SignNumber	PhysicalLocation	Site Latitude	Site Longitude	Revised Site Type
405	405-105	SB I405 JSO E CARSON ST, **FSP 19** ACC CARSON ST			G
405	405-128	NB I405 JSO NB I110, **FSP 19** ACC AVALON BLVD			G
405	405-184	NB I405 JNO INGLEWOOD AV, **FSP 09** ACC HAWTHORNE BLVD			G
405	405-194	NB I405 JNO W ROSECRANS AV, **FSP 09** ACC ROSECRANS AV			G
405	405-214	NB I405 JNO W IMPERIAL HWY,**FSP 6**			G
405	405-215	SB I405 JSO WB I105,**FSP 6**			G
405	405-228	NB I405 AT W MANCHESTER BLVD,**FSP 06**			G
405	405-232	NB I405 AT W MANCHESTER BLVD,**FSP 06** ACC CENTURY BLVD			G
405	405-233	SB I405 JSO W MANCHESTER BLVD,**FSP 06** ACC LA CIENEGA BLVD			G
5	5-265	SB I5 JSO WESTERN AV			G
5	5-298	NB I5 JNO E BURBANK BLVD,**FSP 31** ACC BURBANK BLVD			G
57	57-019	SB SR57 JSO DIAMOND BAR BLVD, **FSP 21** ACC DIAMOND BAR BLVD			G
605	605-145	SB I605 JSO BEVERLY BLVD, ** FSP37 ** ACC BEVERLY BLVD			G
710	710-266	NB I710 JNO WB I10, ** FSP23 ** ACC FLORAL DR			G
710	710-267	SB I710 JNO WB I10, ** FSP23 ** ACC VALLEY BLVD			G
91	91-174	EB SR91 AT STUDEBAKER RD,**FSP 15** ACC BELLFLOWER BLVD			G
MU	MU-155	MULHOLLAND HWY AT SEMINOLE DR			G
SF	SF-007	SAN FRANCISQUITO CANYON RD AT LEONA DIVIDE FIRE RD			G
110	110-204	NB I110 AT JEFFERSON BLVD, ** FSP01 * ACC EXPOSITION BLVD	34.02472	-118.27492	K
110P	110P-182	NB I110 JNO W SLAUSON AV, **FSP 43** NB I10 ON CARPOOL OVERPASS			K
110P	110P-184	NB I110 JNO W SLAUSON AV, **FSP 43** NB I110 ON CARPOOL OVERPASS			K
110P	110P-185	SB I110 JNO W SLAUSON AV, **FSP 43** SB I110 ON CARPOOL OVERPASS			K
110P	110P-186	NB I110 JNO W SLAUSON AV, **FSP 43** NB I110 ON CARPOOL OVERPASS			K
110P	110P-187	SB I110 JNO W SLAUSON AV,**FSP 43** SB I110 ON CARPOOL OVERPASS			K
110P	110P-188	NB I110 JSO EXPOSITION BLVD, **FSP 43** N3 I110 ON CARPOOL OVERPASS			K
110P	110P-189	SB I110 AT W VERNON AV, **FSP 43** SB I110 ON CARPOOL OVERPASS			K
110P	110P-192	NB I110 AT W VERNON AV, **FSP 43** NB I110 ON CARPOOL OVERPASS			K
110P	110P-193	SB I110 AT W 42ND ST,**FSP01** SB I110 ON CARPOOL O/PASS			K
110P	110P-194	NB I110 AT MARTIN LUTHER KING JR BLVD,**FSP 43** NB I110 ON CARPOOL O/PASS			K
210	210-075	WB I210 JEO TERRA BELLA ST, ACC OSBORNE ST			K
210	210-315	WB I210 JEO N BALDWIN AV, **FSP 11** ACC SANTA ANITA AV			K
60	60-194	EB SR60 JEO FULLERTON RD, ** FSP 20 ** ACC AZUSA AV			K
101	101-178	WB US101 JWO HASKELL AV,**FSP 07** ACC HASKELL AV			L
101	101-239	EB US101 JEO DE SOTO AV,**FSP 29** ACC DE SOTO AV			L
101	101-279	EB US101 JWO VALLEY CIRCLE BLVD,**FSP 29** ACC PARKWAY CALABASAS			L
101	101-309	EB US101 JEO LAS VIRGENES RD,**FSP 29** ACC SB LAS VIRGENES RD			L
1	1-478	SR1 AT WINTER MESA RD, 3/10 MI			L
210	210-059	WB I210 JEO PAXTON ST, ACC OSBORNE ST			L
5	5-528	NB I5 JSO MAGIC MOUNTAIN PKWY,**FSP 42** APPROX 1/3 MI ACC VALENCIA BLVD			L
5	5-585	SB I5 JSO PARKER RD,**ESCAPE AREA** **FSP 42** APPROX 3/4 MI ACC PARKER RD			L
5	5-824	NB I5 JNO SR138, APPROX 1/3 MI ACC QUAIL LAKE RD	34.77063	-118.80253	L
210	210-379	WB I210 JWO IRWINDALE AV, **FSP 28** ACC VERNON AV	34.13035	-117.99233	M
1	1-616	SR1 SJO MULHOLLAND HWY			X
N3	N3-049	ANGELES FOREST HWY AT MT EAGMA RD			X