

Attachment 1 - OCTA Equipment for Reuse at 91 Express Lanes Facility

91 Express Lanes Equipment	Replace	Reuse
Servers & Associated Equipment	All	
Fiber Communications	By Design	All Dark Fiber
Laser communications device	All	
Network Switches	All	
AVI Antennas and Readers	All	
VES Equipment	All	
Datalogger Camera	All	
AVC Hardware	All	
CCTV Camera	All	
Cabinets	All	
Cabling (Equipment Specific)	All	
Power	By Design	
Ground-based Loops	All	
Generator	No	Yes
Gantries & Sign Structures	No	Yes
Autosense Units	All	
Enforcement Beacons	All	

91 Toll Collection and Enforcement Site						
Number	Direction	Location	Number of Toll Lanes	Left Shoulder Width	Right Shoulder Width	Toll Gantry / Structure
1	EB	STA: 348 + 80	3	Channelized 10' Shoulder - Coverage not required	There is no shoulder next to lane 3	Existing Dual Gantry
2	WB	STA: 363 + 50	3	Channelized 10' Shoulder - Coverage not required	There is no shoulder next to lane 3	Existing Dual Gantry

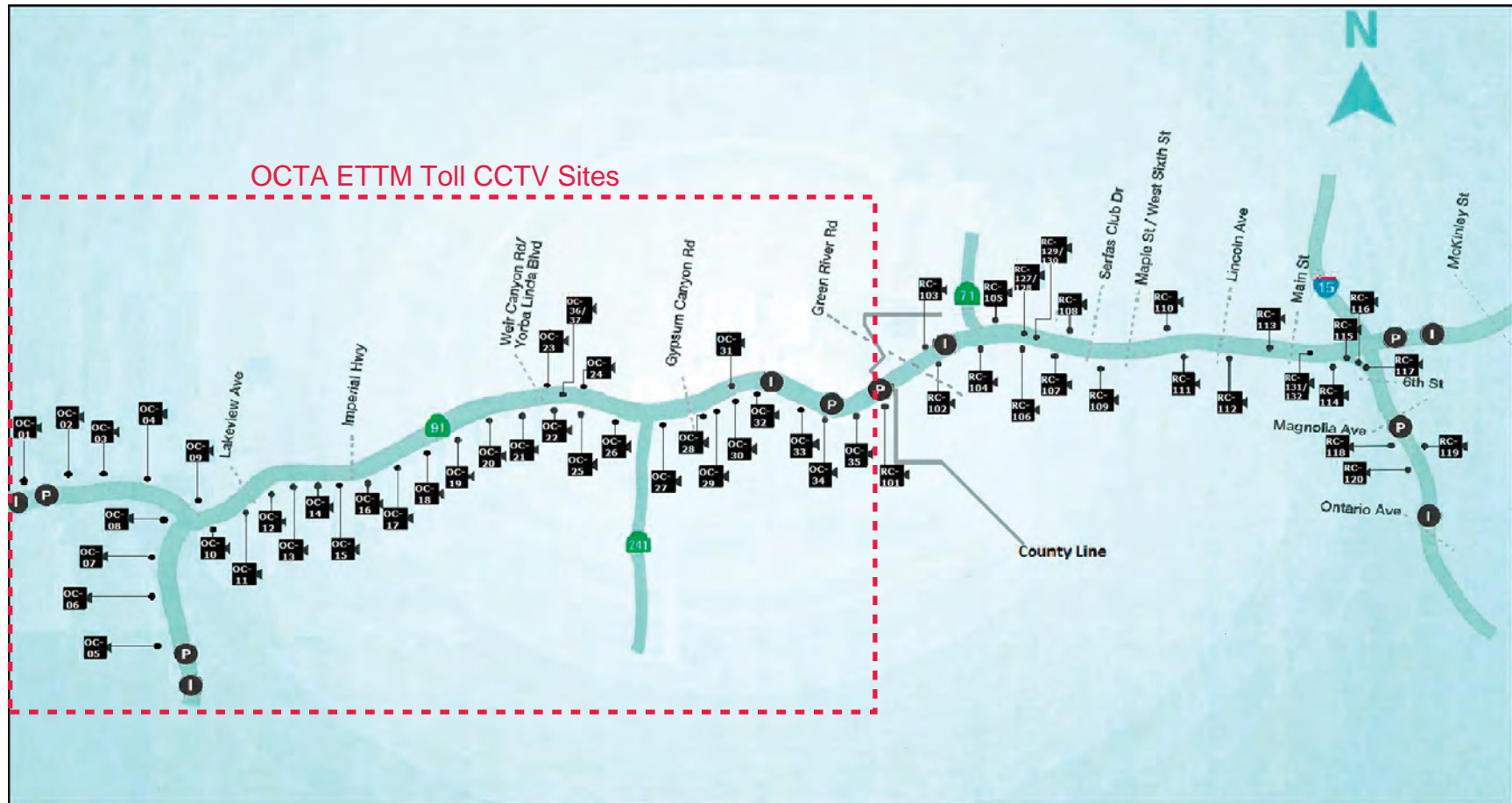
91 Transponder Read Sites						
Number	Direction	Location	Number of Read Lanes	Left Shoulder Width	Right Shoulder Width	Toll Gantry / Structure
1	WB*	SR 91 County line STA 57+50	2	n/a	n/a	Existing Overhead Sign Structure
2	EB	SR 55 Connector STA 65+00	1	1'	0'	Existing Toll Gantry
3	EB	SR 91 Connector STA 498+00	1	1'	10' - Coverage not required	Existing Toll Gantry

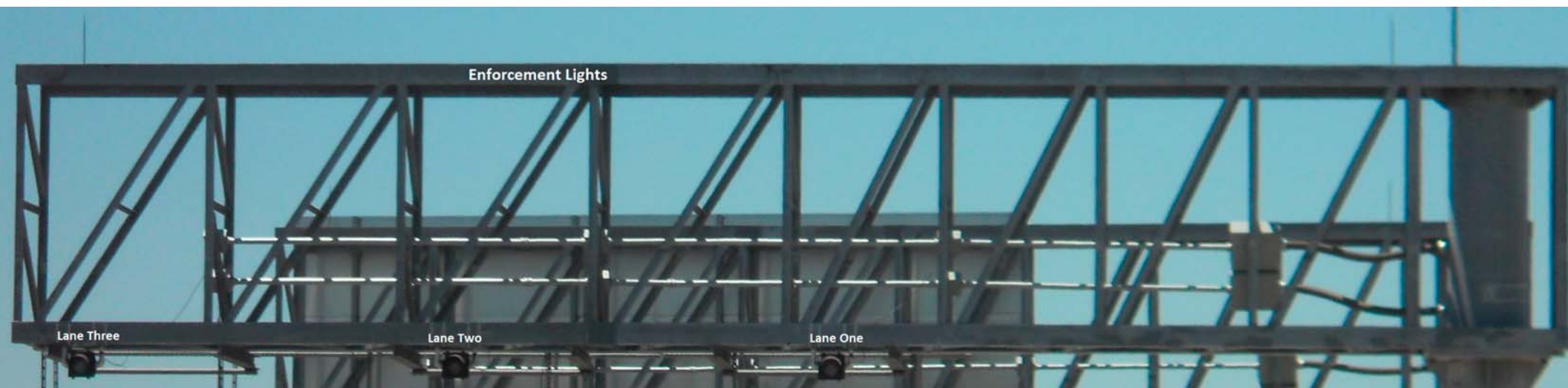
*System was removed by AWJV as part of the SR-91 Tolling Project

I-91 TMS Inventory - CCTV									
CCTV INFORMATION							91 PMC PROJECT		
#	DISTRICT	COUNTY	ROUTE	Ref: Asbuilt	Station	DIRECTION	ELEMENT TYPE	ELEMENT SUBTYPE	PM, GPS & DESCRIPTION
1	12	OC	91			WB	CCTV	FBR	
2	12	OC	91			WB	CCTV	FBR	
3	12	OC	91			WB	CCTV	FBR	
4	12	OC	91			WB	CCTV	FBR	
5	12	OC	55		275+75	WB	CCTV	FBR	
6	12	OC	55			WB	CCTV	FBR	
7	12	OC	55			EB	CCTV	FBR	
8	12	OC	55		267+00	EB	CCTV	FBR	
9	12	OC	91			WB	CCTV	FBR	
10	12	OC	91	12-0g3304_pgs_0601_0700	85+00	EB	CCTV	FBR	E-63
11	12	OC	91	12-0g3304_pgs_0601_0700	95+50	EB	CCTV	FBR	E-64
12	12	OC	91	12-0g3304_pgs_0601_0700	113+00	EB	CCTV	FBR	E-65
13	12	OC	91	12-0g3304_pgs_0601_0700	127+00	EB	CCTV	FBR	E-66
14	12	OC	91	12-0g3304_pgs_0601_0700	139+90	EB	CCTV	FBR	E-67
15	12	OC	91	12-0g3304_pgs_0601_0700	162+25	EB	CCTV	FBR	E-69
16	12	OC	91	12-0g3304_pgs_0601_0700	176+90	EB	CCTV	FBR	E-71
17	12	OC	91	12-0g3304_pgs_0601_0700	203+90	EB	CCTV	FBR	E-73
18	12	OC	91	12-0g3304_pgs_0601_0700	219+10	EB	CCTV	FBR	E-74
19	12	OC	91	12-0g3304_pgs_0601_0700	260+50	EB	CCTV	FBR	E-77
20	12	OC	91	12-0g3304_pgs_0601_0700	277+90	EB	CCTV	FBR	E-79
21	12	OC	91	12-0g3304_pgs_0601_0700	309+25	EB	CCTV	FBR	E-81
22	12	OC	91	12-0g3304_pgs_0601_0700	327+50	EB	CCTV	FBR	E-83
23	12	OC	91	12-0g3304_pgs_0601_0700	347+75	WB	CCTV	FBR	E-84
24	12	OC	91	12-0g3304_pgs_0601_0700	362+50	EB	CCTV	FBR	E-87
25	12	OC	91	12-0g3304_pgs_0601_0700	379+00	WB	CCTV	FBR	E-89
26	12	OC	91			WB	CCTV	FBR	
27	12	OC	91			WB	CCTV	FBR	
28	12	OC	91			WB	CCTV	FBR	
29	12	OC	91			WB	CCTV	FBR	
30	12	OC	91	RFP No. 12-31-112-00 - RCTC	492+10	EB	CCTV	FBR	E-A01
31	12	OC	91	RFP No. 12-31-112-00 - RCTC	515+50	EB	CCTV	FBR	E-A03

32	12	OC	91	RFP No. 12-31-112-00 - RCTC	528+20	EB	CCTV	FBR	E-A04
33	12	OC	91	RFP No. 12-31-112-00 - RCTC	548+50	EB	CCTV	FBR	E-A05
34	12	OC	91	RFP No. 12-31-112-00 - RCTC	568+00	EB	CCTV	FBR	E-A06
35	12	OC	91	RFP No. 12-31-112-00 - RCTC	578+00	EB	CCTV	FBR	E-A07

91 Express Lanes – ETTM Toll CCTV Sites





Lane Level Equipment

On the gantry, there are seven devices of note:

1. VES Cameras
2. VES Lights
3. Autosense Units
4. Ground-Based Loops
5. Enforcement Lights
6. AVI antenna
7. Data Logger Camera

There is one of each, per lane, and they are utilized as follows.

VES (Video Enforcement System) – The VES Cameras are P382 3M (Formerly PIPS) cameras. They utilize a high speed camera system that captures multiple images once the end of vehicle has been captured. The P382 utilizes two distinct lenses, an IR and a color overview lens. This allows the system to capture both license plate and overview images at a high speed in real time.

VES Lights – These are the lights that are always on, particularly at night, to help with the color overview images. The IR (plate images) are not affected by light.

Datalogger Camera – The connects directly into the Datalogger as a live feed network camera.

Autosense Units – The Autosense units present a laser curtain across the lanes. The Autosense units capture vehicles in a two-laser curtain format. Once the second beam is restored, the system triggers the VES Camera to capture the End-of-Vehicle.

Ground-Based Loops – Not unlike the Autosense units, the purpose of the Ground-Based loops is to determine the End-of-Vehicle and send the signal triggering the VES Cameras.

Enforcement Beacon – The Enforcement Beacon provides CHP officers with a very visible signal that the vehicle traveling under the gantry does not have a transponder. Additional information regarding the Enforcement Beacon system can be found under the “Enforcement Beacons” Section 2.2.7.10.

PROPOSED

I-405 ETTM - TOLL COLLECTION AND ENFORCEMENT SITES								
TOLL COLLECTION SITE INFORMATION					I-405 PMC PROJECT			
SITE #	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION	ELEMENT TYPE	Left Shoulder Width	Right Shoulder Width	NOTES
1	405	NB	619+00	JWO HARBOR BLVD	FULL SUITE	≤ 4'	0'	
2	405	SB	678+00	WEST OF EUCLID ST	FULL SUITE	≤ 4'	0'	
3	405	NB	872+00	BEACH BLVD	FULL SUITE	≤ 4'	0'	
4	405	SB	917+00	BETWEEN MCFADDEN & GOLDENWEST AVE	FULL SUITE	≤ 4'	0'	
5	405	NB	1160+00	EAST OF SEAL BEACH BLVD	FULL SUITE	≤ 4'	0'	
6	405	SB	1160+00	EAST OF SEAL BEACH BLVD	FULL SUITE	≤ 4'	0'	

PROPOSED

I-405 ETTM - TOLL COLLECTION AND ENFORCEMENT SITE CABINETS						
TOLL COLLECTION SITE CABINET INFORMATION					I-405 PMC PROJECT	
SITE #	ROUTE	DIRECTION	APPROXIMATE CABINET STATION	LOCATION	ELEMENT TYPE	NOTES
1	405	SB	619+50	JWO HARBOR BLVD	CABINET	
2	405	NB	677+75	WEST OF EUCLID ST	CABINET	
3	405	NB	871+50	BEACH BLVD	CABINET	
4	405	SB	917+00	BETWEEN McFADEN & GOLDENWEST AVE	CABINET	
5	405	NB	1160+00	EAST OF SEAL BEACH BLVD	CABINET	
6	405	NB	1160+00	EAST OF SEAL BEACH BLVD	CABINET	

PROPOSED

I-405 ETTM - TOLL TRANSPONDER READ SITES								
TOLL TRANSPONDER READ SITE INFORMATION					I-405 PMC PROJECT			
READ SITE #	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION	ELEMENT TYPE	Left Shoulder Width	Right Shoulder Width	NOTES
1	405	NB & SB	561+00	JWO / 73 INTERCHANGE	ANTENNA	≤ 4'	≤ 4'	
2	405	NB	955+50	JWO GOLDENWEST	ANTENNA	≤ 4'	≤ 4'	
3	405	SB	985+00	JWO EDWARDS ST	ANTENNA	≤ 4'	≤ 4'	
4	405	SB	1222+00	405 SB/605 SB HOV CONNECTOR	ANTENNA	≤ 4'	≤ 4'	
5	405	NB	1233+50	405 NB/605 NB HOV CONNECTOR	ANTENNA	≤ 4'	≤ 4'	

READ SITE #	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION	ELEMENT TYPE	Left Shoulder Width	Right Shoulder Width	NOTES
6	22	NB & SB	1091+80	405-22 CONNECTOR	ANTENNA	≤ 4'	≤ 4'	

PROPOSED

I-405 ETTM - TRANSPONDER READ SITE CABINETS						
TOLL TRANSPONDER READ SITE CABINET INFORMATION					I-405 PMC PROJECT	
READ SITE #	ROUTE	DIRECTION	APPROXIMATE CABINET STATION	LOCATION	ELEMENT TYPE	NOTES
1	405	SB	561+00	JWO the 73 Interchange	CABINET	
2	405	NB	955+50	JWO Goldenwest St	CABINET	
3	405	NB	984+00	JWO Edwards St	CABINET	
4	405	NB	1221+00	SR-22 SB Connector	CABINET	
5	405	SB	1234+50	SR-22 NB Connector	CABINET	

READ SITE #	ROUTE	DIRECTION	APPROXIMATE CABINET STATION	LOCATION	ELEMENT TYPE	NOTES
6	22	NB	1092+00	405-22 Connector	CABINET	

PROPOSED

I-405 ETTM - TOLL RATE CMS SITES (Mainline)							
TOLL RATE CMS SITE INFORMATION						I-405 PMC PROJECT	
TOLL RATE CMS #	COUNTY	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION/NAME	ELEMENT TYPE	NOTES
1	OC	405	NB	515+00	BEAR ST	Toll Rate CMS	
2	OC	405	NB	765+80	JEO BUSHARD ST	Toll Rate CMS	
3	OC	405	SB	821+00	JWO MAGNOLIA AVE	Toll Rate CMS	
4	OC	405	NB	919+50	JEO BOLSA AVE	Toll Rate CMS	
5	OC	405	SB	976+00	JEO EDWARDS ST	Toll Rate CMS	
6	OC	405	SB	1249+25	405 SB/605 SB HOV CONNECTOR	Toll Rate CMS	

TOLL RATE CMS #	COUNTY	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION/NAME	ELEMENT TYPE	NOTES
7	OC	605	SB	235+00	JSO E WILLOW ST	Toll Rate CMS	
8	OC	22	WB	N/A	JEO SPRINGDALE ST	Toll Rate CMS	
9	OC	73	NB	N/A	JSO BAKER ST	Toll Rate CMS	

PROPOSED

I-405 ETTM - TOLL RATE CMS SITE CABINETS (Mainline)							
TOLL RATE CMS SITE CABINET INFORMATION						I-405 PMC PROJECT	
TOLL RATE CMS #	COUNTY	ROUTE	DIRECTION	APPROXIMATE CABINET STATION	LOCATION/NAME	ELEMENT TYPE	NOTES
1	OC	405	NB	515+00	BEAR ST	CABINET	
2	OC	405	SB	766+50	JEO BUSHARD ST	CABINET	
3	OC	405	SB	819+50	JWO MAGNOLIA AVE	CABINET	
4	OC	405	SB	918+50	JEO BOLSA CHICA	CABINET	
5	OC	405	NB	975+50	JEO EDWARD ST	CABINET	
6	OC	405	SB	1250+25	405 SB/605 SB HOV CONNECTOR	CABINET	

TOLL RATE CMS #	COUNTY	ROUTE	DIRECTION	APPROXIMATE CABINET STATION	LOCATION/NAME	ELEMENT TYPE	NOTES
7	OC	605	SB	236+00	JSO E WILLONW ST	CABINET	
8	OC	22	WB	N/A	JEO SPRINGDALE ST	CABINET	
9	OC	73	NB	N/A	JSO BAKER ST	CABINET	

PROPOSED

I-405 ETTM - TOLL RATE CMS SITE (Ramp)							
TOLL RATE CMS SITE INFORMATION						I-405 PMC PROJECT	
TOLL RATE CMS #	COUNTY	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION/NAME	ELEMENT TYPE	NOTES
10	OC	405	SB	802+50	MAGNOLIA ST SB ON-RAMP	Toll Rate CMS	

PROPOSED

I-405 ETTM - TOLL RATE CMS SITE CABINET (Ramp)							
TOLL RATE CMS SITE CABINET INFORMATION						I-405 PMC PROJECT	
TOLL RATE CMS #	COUNTY	ROUTE	DIRECTION	APPROXIMATE CABINET STATION	LOCATION/NAME	ELEMENT TYPE	NOTES
10	OC	405	SB	803+00	MAGNOLIA ST SB ON-RAMP	CABINET	

PROPOSED

I-405 ETTM - TOLL CCTV SITES						
TOLL CCTV SITE INFORMATION						
TOLL CCTV #	ROUTE	DIRECTION	APPROXIMATE STATION	STRUCTURE TYPE	LOCATION	NOTES
1	405	SB	544+00	Pole	RTE 405/73 INTERCHANGE	
2	405	MED	561+00	Transponder Read Gantry	E/O FAIRVIEW ROAD	
3	405	NB	590+00	Pole	E/O HARBOR BLVD	
4	405	MED	619+00	Toll Collection Gantry	W/O HARBOR BLVD	
5	405	NB	652+00	Pole	E/O EUCLID ST	
6	405	MED	678+00	Toll Collection Gantry	E/O WARD ST	
7	405	NB	715+50	Pole	W/O TALBERT AVE	
8	405	SB	732+50	Pole	JEO BROOKHURST ST	
9	405	NB	751+50	Pole	W/O SLATER AVE	
10	405	SB	779+00	Pole	E/O WARNER AVE	
11	405	NB	801+00	Pole	E/O MAGNOLIA ST	
12	405	NB	826+00	Pole	E/O NEWLAND ST	
13	405	NB	854+50	Pole	E/O EDINGER AVE	
14	405	MED	872+00	Toll Collection Gantry	E/O BEACH BLVD	
15	405	NB	899+00	Pole	W/O MCFADDEN AVE	
16	405	MED	917+00	Toll Collection Gantry	E/O BOLSA AVE	
17	405	NB	939+75	Pole	BOLSA AVE	
18	405	MED	955+50	Transponder Read Gantry	W/O GOLDENWEST ST	
19	405	MED	985+00	Transponder Read Gantry	W/O EDWARDS ST	
20	405	NB	1016+00	Pole	W/O WESTMINSTER BLVD	
21	405	NB	1065+75	Pole	E/O VALLEY VIEW ST.	
22	405	NB	1098+75	Pole	RTE 405/22 INTERCHANGE	
23	405	NB	1109+75	Pole	RTE 405/22 INTERCHANGE	
24	405	MED	1160+00	Toll Collection Gantry	BTW. BOLSA CHICA AND SEAL BEACH	
25	405	NB	1187+50	Pole	E/O SEAL BEACH BLVD	
26	405	NB	1208+00	Pole	W/O SEAL BEACH BLVD	

PROPOSED

I-405 ETTM - TOLL CCTV SITES						
TOLL CCTV SITE INFORMATION						
TOLL CCTV #	ROUTE	DIRECTION	APPROXIMATE STATION	STRUCTURE TYPE	LOCATION	NOTES
27	405	MED	1233+50	Transponder Read Gantry	405 NB/605 NB HOV CONNECTOR	
28	405	MED	1249+50	Toll Rate CMS Sign	405 SB/605 SB HOV CONNECTOR	

TOLL CCTV #	ROUTE	DIRECTION	APPROXIMATE STATION	STRUCTURE TYPE	LOCATION	NOTES
29	73	NB	520+00	Pole	BEAR STREET	

PROPOSED

I-405 ETTM - TOLL TRAFFIC DETECTOR SITES						
TOLL TRAFFIC DETECTOR SITE INFORMATION						
TRAFFIC DETECTOR #	ROUTE	DIRECTION	APPROXIMATE STATION	STRUCTURE TYPE	LOCATION	NOTES
1	405	MED	515+00	Toll Rate CMS	E/O BEAR ST.	
2	405	NB	562+75	Pole	E/O FAIRVIEW ROAD	
3	405	SB	567+00	Pole	JEO FAIRVIEW ROAD	
4	405	NB	590+00	CCTV	E/O HARBOR BLVD	
5	405	NB	593+50	Pole	E/O HARBOR BLVD	
6	405	NB	615+25	Pole	W/O HARBOR BLVD	
7	405	SB	620+25	Pole	W/O HARBOR BLVD	
8	405	NB	652+00	CCTV	E/O EUCLID ST.	
9	405	SB	666+20	Pole	W/O EUCLID ST.	
10	405	SB	678+00	Toll Collection Gantry	E/O WARD ST.	
11	405	NB	678+00	Toll Collection Gantry	E/O WARD ST.	
12	405	SB	706+00	Pole	E/O TALBERT AVE	
13	405	NB	715+50	CCTV	W/O TALBERT AVE	
14	405	SB	744+50	Pole	E/O SLATER AVE	
15	405	NB	751+50	CCTV	W/O SLATER AVE	
16	405	SB	779+00	CCTV	E/O WARNER AVE	
17	405	NB	785+50	Pole	W/O WARNER AVE	
18	405	SB	816+75	Pole	W/O MAGNOLIA ST.	
19	405	NB	826+00	CCTV	E/O NEWLAND ST.	
20	405	SB	852+00	Pole	E/O EDINGER AVE	
21	405	NB	854+50	CCTV	E/O EDINGER AVE	
22	405	SB	872+00	Toll Collection Gantry	E/O BEACH BLVD	
23	405	NB	872+00	Toll Collection Gantry	E/O BEACH BLVD	
24	405	NB	899+00	CCTV	W/O MCFADDEN AVE	
25	405	SB	903+25	Pole	W/O MCFADDEN AVE	
26	405	NB	917+00	Toll Collection Gantry	E/O BOLSA AVE	
27	405	SB	917+00	Toll Collection Gantry	E/O BOLSA AVE	
28	405	SB	934+50	Pole	JEO BOLSA AVE	
29	405	NB	939+75	CCTV	JWO BOLSA AVE	

PROPOSED

I-405 ETTM - TOLL TRAFFIC DETECTOR SITES						
TOLL TRAFFIC DETECTOR SITE INFORMATION						
TRAFFIC DETECTOR #	ROUTE	DIRECTION	APPROXIMATE STATION	STRUCTURE TYPE	LOCATION	NOTES
30	405	NB	967+25	Pole	E/O EDWARDS ST	
31	405	SB	970+25	Pole	E/O EDWARDS ST	
32	405	NB	985+00	Transponder Read Gantry	W/O EDWARDS ST	
33	405	SB	985+00	Transponder Read Gantry	W/O EDWARDS ST	
34	405	SB	1008+75	Pole	E/O WESTMINSTER BLVD	
35	405	NB	1016+00	CCTV	W/O WESTMINSTER BLVD	
36	405	NB	1065+75	CCTV	E/O VALLEY VIEW ST	
37	405	SB	1082+25	Pole	S/O BOLSA CHICA AVE	
38	405	SB	1102+00	Pole	RTE 405/22 INTERCHANGE	
39	405	NB	1109+75	CCTV	RTE 405/22 INTERCHANGE	
40	405	NB	1160+00	Toll Collection Gantry	BTW. BOLSA CHICA AND SEAL BEACH	
41	405	SB	1160+00	Toll Collection Gantry	BTW. BOLSA CHICA AND SEAL BEACH	
42	405	NB	1187+50	CCTV	E/O SEAL BEACH BLVD	
43	405	SB	1192+75	Pole	E/O SEAL BEACH BLVD	
44	405	NB	1223+00	Pole	W/O SEAL BEACH BLVD	
45	405	SB	1227+75	Pole	W/O SEAL BEACH BLVD	
46	405	NB	1256+25	Pole	S/O 405/605 INTERCHANGE	
47	405	SB	1259+25	Pole	S/O 405/605 INTERCHANGE	

TRAFFIC DETECTOR #	ROUTE	DIRECTION	APPROXIMATE STATION	STRUCTURE TYPE	LOCATION	NOTES
48	73	SB	520+00	CCTV	BEAR STREET	
49	22	WB	1091+80	Transponder Read Gantry	RTE 405/22 HOV CONNECTOR	
50	605	SB	1271+50	Pole	RTE 405/605 INTERCHANGE	
51	605	NB	1271+50	Pole	RTE 405/605 INTERCHANGE	

PROPOSED

I-405 ETTM - TOLL EQUIPMENT BUILDING SITE						
TOLL EQUIPMENT BUILDING SITE INFORMATION						
TOLL BLDG	COUNTY	ROUTE	DIRECTION	APPROXIMATE STATION	LOCATION/NAME	NOTES
1	OC	405	NB	676+50	WO EUCLID ST	Next to existing Caltrans Communications Hub



Asaf
Executive Director

KP
Deputy CEO

INFORMATION SYSTEMS OPERATIONS SECURITY POLICY

Policy#: FA-IS-900.10ISOSP

Origination Date: 03/27/2007

Revised Date: 12/07/2016

I. PURPOSE

The purpose of the Information System (IS) Operations Security Policy is to provide the Orange County Transportation Authority (OCTA) the ability to protect its resources through the identification and use of secure IS management practices.

II. ORGANIZATIONAL UNITS AFFECTED

This policy applies to all OCTA resources, as well as all employees, third parties, or visitors who require interaction with these resources.

The OCTA Security Function is responsible for the administration and maintenance of this policy. The enforcement of this policy shall be the responsibility of the Chief Executive Officer (CEO) or designee. Employees, third parties, and visitors are responsible for complying with this policy.

III. POLICY

The intent of this policy is to ensure that OCTA has a consistent, secure manner for managing the IS operations of the organization.

IV. DEFINITIONS

- A. Backup Media – the physical recording material used in the data backup process. Examples include tapes, hard drives, CDs, and DVDs.
- B. Business Continuity Plan (BCP) – a documented methodology used to create and validate an exercised logistical plan for organizational recovery or restoration following major failures, disruptions or disasters.
- C. Capacity Planning – the process of estimating the space, computer hardware, software, connection infrastructure resources, and support personnel that will be needed over some future period of time.
- D. Change Management – a structured approach to transition from a current state to a desired state.
- E. Chain of Custody – a process that tracks the movement of items through their collection, transportation, and storage by documenting each person who handled the items.
- F. Encryption Keys – a sequence of characters used by an encryption algorithm to encrypt plain text into cipher text. The use of passwords is a typical example.

Finance and Administration Division
INFORMATION SYSTEMS OPERATIONS SECURITY POLICY

Policy#: FA-IS-900.10ISOSP

Origination Date: 03/27/2007

Revised Date: 12/07/2016

- G. Encryption Tools** – mechanisms used in the process of encoding information into an unreadable form prior to its transmission or storage, until such time that it is converted back to its original form by authorized individuals or systems.
- H. Information Systems** – an automated system, comprised of technology components, designed to collect, process, transmit, and disseminate information. Examples include application, hardware, and telecommunications equipment.
- I. IS Management** – a group of managers responsible for ensuring the health and well-being of the OCTA technical environment.
- J. IS Operations** – the people, processes, and technology employed to ensure the health and well-being of the OCTA technical environment.
- K. Malicious Mobile Code** – software obtained from a remote source and executed on a local system without explicit installation or execution by the recipient. Examples include computer viruses, spyware, and worms.
- L. Resources** – any asset of the OCTA. This includes building, equipment, rolling stock, parts, phones, computers, software, data, etc.
- A. Sensitive Information** – any information that could potentially be used maliciously to compromise the security of OCTA resources or customers. For example: the administrative passwords to a financial system, security guard rotation schedules, etc.
- M. Separation of Duties** – the concept that no single individual has control over two or more phases of a transaction or operation, so that a deliberate fraud or damage is more unlikely to occur.
- N. System Faults** – a failure by a system to execute a prescribed task or set of tasks.
- O. System Log** – a record of transactions that have been executed on a given system.
- P. Technical Vulnerability Assessments** – The process of identifying and quantifying vulnerabilities in a system. Such assessments include recommendations for mitigation.
- Q. Untrusted Network** – Any network that is either not administered by OCTA or incapable of providing the same level of security controls for data protection, integrity, and availability as a trusted network. Examples include the internet, a third party network, and a wireless network.

V. PROCEDURE

- A. IS Operations management** shall document all processes, procedures, and system configurations within the IS Operations environment.
 - 1.** IS operational procedures within OCTA shall be considered sensitive information.

Finance and Administration Division
INFORMATION SYSTEMS OPERATIONS SECURITY POLICY

Policy#: FA-IS-900.10ISOSP

Origination Date: 03/27/2007

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2. These documents shall be reviewed and updated on a regular basis.
- B.** IS Operations shall establish the processes and mechanisms required for structured change management within the OCTA technical environment.
1. Proposed system or application changes shall be tested prior to the implementation into the production environment.
 2. Any changed documentation or procedures shall be communicated to the affected staff.
- C.** IS Operations shall regularly review the roles and responsibilities of the IS Operations staff in order to ensure a clear separation of duties.
- D.** IS Operations shall manage capacity planning for the OCTA technical environment of the organization.
- E.** IS Operations shall establish the processes and mechanisms necessary for the management of encryption tools.
1. OCTA employees shall only utilize encryption tools that are approved by IS Operations.
 2. Encryption keys used to protect confidential or sensitive information shall be classified and handled as sensitive information.
 3. Encryption keys shall be stored on servers that are appropriately secured.
 4. IS Operations shall use encryption tools in accordance with the applicable laws and regulations.
- F.** IS Operations shall conduct technical vulnerability assessments on OCTA information systems on a regular basis.
- G.** IS Operations shall protect information associated with the interconnection of business information systems.
1. IS Operations shall employ appropriate safeguards for protecting electronic messaging and/or file transfers.
 2. Online transactions performed by OCTA information systems shall be configured by the IS Operations to prevent incomplete transmission, misrouting, unauthorized message alteration, unauthorized disclosure, unauthorized message duplication or replay.
- H.** IS Operations shall employ appropriate safeguards to protect OCTA data while it is passing over untrusted networks.
- I.** IS Operations shall implement safeguards to prevent unauthorized modification of data on OCTA information systems that are publicly accessible.

Finance and Administration Division
INFORMATION SYSTEMS OPERATIONS SECURITY POLICY

Policy#: FA-IS-900.10ISOSP

Origination Date: 03/27/2007

Revised Date: 12/07/2016

- J. IS Operations shall implement appropriate security controls to prevent and detect unauthorized activity on OCTA information systems.
 - 1. IS Operations shall establish processes and mechanisms to enable the appropriate monitoring of use on OCTA information systems.
 - 2. IS Operations shall establish processes and mechanisms to enable appropriate system logging on OCTA information systems.
 - 3. IS Operations shall protect log information that is generated on OCTA information systems.
 - 4. IS Operations shall log the activity of OCTA information system administrators.
 - 5. IS Operations shall identify, classify, and log systems faults that are generated on OCTA information systems.
 - 6. IS Operations shall ensure that systems clocks on OCTA information systems are synchronized.
- K. IS Operations shall establish processes and mechanisms for the secure configuration of OCTA systems.
 - 1. IS Operations shall be responsible for the configuration of all OCTA information systems.
 - 2. IS Operations shall apply operational and security patches to OCTA information systems in a timely manner.
 - 3. OCTA information systems shall be configured by IS Operations to deter the unauthorized escalation of system privileges.
 - 4. All OCTA information systems shall be physically housed in a location with the appropriate security safeguards and operating conditions.
 - 5. When operating systems are changed within OCTA, business-critical applications shall be reviewed and tested by IS Operations to ensure there is no adverse impact on organizational operations or security.
- L. IS Operations shall ensure that the data on OCTA information systems are backed up on a regular basis.
 - 1. The IS Operations backup strategy shall conform to all requirements outlined in the OCTA BCP.
 - 2. All procedures that involve the handling of backup media shall conform to the accepted OCTA chain of custody practices.
 - 3. All OCTA backups shall be tested on a regular basis.
 - 4. Backup media shall be stored in a secure environment that is designed to house this type of material.

Finance and Administration Division
INFORMATION SYSTEMS OPERATIONS SECURITY POLICY

Policy#: FA-IS-900.10ISOSP

Origination Date: 03/27/2007

Revised Date: 12/07/2016

- 5. All OCTA backup media shall be classified as sensitive information.
- 6. All OCTA backup media shall be retained in accordance with any applicable laws and regulations.
- M. IS Operations shall implement safeguards to protect against the execution of malicious and mobile code on OCTA information systems.
- N. IS Operations shall protect telecommunications systems such as voicemail and voice recognition systems with the appropriate security controls.
 - 1. Voice mail shall be considered sensitive information.
- O. All assets managed by IS Operations shall be guided by the OCTA Fixed Asset Management Manual.

VI. EXCEPTIONS

Not applicable.

VII. PROVISIONS AND CONDITIONS

Violation of this policy may result in disciplinary action including formal reprimand, suspension, and/or termination.

VIII. RELATED DOCUMENTS

- A. OCTA Fixed Asset Management Manual
- B. Information Security Management System (ISMS) Standard 27001 (ISO 27001)
 - 1. Sections a.10.1.1-3, a.10.3.1-2, a.12.3.2, a.12.6.1, a.10.8.4-5, a.10.8.5, a.10.9.1-2
- C. National Institute of Standards and Technology (NIST)
 - 1. 500 Series
 - 2. 800 Series

END OF POLICY



Finance and Administration Division

Agathe
Executive Director

KP
Deputy CEO

THIRD PARTY SECURITY POLICY

Policy#: FA-IS-900.04THIRDPARTY

Origination Date: 02/27/2007

Revised Date: 12/07/2016

I. PURPOSE

The purpose of the Third Party Security Policy is to define the level of protection that the Orange County Transportation Authority (OCTA) requires for third parties to interact, manage, maintain, or utilize OCTA resources.

II. ORGANIZATIONAL UNITS AFFECTED

This policy applies to all OCTA resources, as well as all employees, third parties, or visitors that require interaction with these resources.

The intended audience of this policy is both the management of OCTA and the Security Function.

III. POLICY

The intent of this policy is to provide the necessary safeguards to ensure the safety and security of anyone who uses or provides OCTA with services.

IV. DEFINITIONS

- A. Computing Environment – a collection of computers, telecommunications and network equipment, applications, and wiring that support the processing and communications of electronic information.
- B. Contractor – any person or body that is recognized as independent of OCTA, engaged to perform services for the organization.
- C. Contracts and Purchase Orders – a legal agreement between OCTA and another entity (e.g. a corporation, partnership, or individual) describing products and/or services to be delivered.
- D. Controlled Area – any area within an OCTA property where identification, authentication, and credentialing are required to gain admittance. An example would be access to the administrative work spaces of OCTA.
- E. Credentials – the means and manner by which access is granted to a specific resource. This can include user-IDs, passwords, badges, tokens, and keys.
- F. Information Exchange Agreements – a formal agreement between two parties that describe the conditions, means, and manner under which information may be transferred.

Finance and Administration Division
THIRD PARTY SECURITY POLICY

Policy#: FA-IS-900.04THIRDPARTY

Origination Date: 02/27/2007

Revised Date: 12/07/2016

- G. Media** – any physical or technical materials used to place, keep, and retrieve data or information. Examples of media include paper files, electronic files, email, tapes, CDs, DVDs, etc.
- H. OCTA Security Function** – the security group established within OCTA to assist management in directing the security strategy of the organization. The Security Function is represented by every division of the organization as members of the Security Advisory Group (SAG).
- I. OCTA Security Policies** – the policies established by OCTA that define the rules for addressing confidentiality, integrity, and availability for OCTA resources (900 Series Policies).
- J. Resources** – any asset of the OCTA. This includes buildings, equipment, rolling stock, parts, phones, computers, software, data, etc.
- K. Rolling Stock** – the mobile assets of OCTA. This includes, but is not limited to, buses, vans, and automobiles.
- L. Sensitive Area** – a section of a controlled area that is deemed as requiring additional protection due to its criticality, value, or risk to safety. Examples of potential sensitive areas include the revenue room or fuel island within a base, and the data center within a building.
- M. Sensitive Information** – any information that could potentially be used maliciously to compromise the security of OCTA resources or customers. For example: the administrative passwords to a financial system, security guard rotation schedules, etc.
- N. Third Parties** – any entity that interacts with OCTA, but is not directly affiliated. For example: clients, contractors, sub-contractors, government agencies, vendors, unions, etc.

V. PROCEDURE

- A.** The following statements will be used to ensure that OCTA has a consistent, secure manner for interacting with third parties:
 - 1.** OCTA shall ensure compliance with the following standards:
 - a.** An assessment shall be performed for all solicitations to determine security implications and control requirements.
 - b.** Only products that are capable of compliance with OCTA security policies shall be considered for purchase.
 - 2.** A process and mechanism shall be employed for the management of contracts and purchase orders with third parties.

Finance and Administration Division
THIRD PARTY SECURITY POLICY

Policy#: FA-IS-900.04THIRDPARTY

Origination Date: 02/27/2007

Revised Date: 12/07/2016

- a. A process shall be employed to manage changes to third party contracts and purchase orders to ensure that any adjustments maintain conformity to OCTA security policies.
3. All third party contracts and purchase orders shall ensure that they comply with the following statements:
 - a. Applicable security requirements, based upon OCTA security policies, shall be included in all contracts and purchase orders for external third parties that manage, maintain, or utilize OCTA resources.
 - b. All contracts and purchase orders for third parties shall contain language that specifies the means and manner under which the contractor shall be monitored and reviewed for compliance with OCTA security policies.
 - c. All contracts and purchase orders for third parties shall specify the acceptance criterion that is necessary to test or validate that the service or product being delivered is in accordance with OCTA security policies.
 - d. All contracts and purchase orders for third parties that house OCTA information shall include language stating that their security practices are comparable or superior to OCTA security policies.
 - e. All contracts and purchase orders for third parties that involve the transfer of media shall specify the point and time at which the third party assumes the liability and responsibility for the media and its contents.
4. A process and mechanism shall be employed to ensure that all communication involving sensitive information between third parties and OCTA is done in a secure manner.
 - a. All communications between OCTA and third parties shall conform to OCTA security policies.
 - b. The electronic transfer of sensitive information shall be performed only through secure and sanctioned mechanisms of OCTA.
 - c. Data shall not be exchanged prior to the establishment of a documented information exchange agreement.
 - d. The exchange of data between third parties and OCTA shall be done in conformance with contracted information exchange agreements.
5. Third parties shall ensure that OCTA data is handled in a secure manner.
 - a. All physical media shall be protected while in transit between OCTA and the third party.
 - b. Sensitive information obtained during the execution of a contract by third parties shall not be disclosed without the consent of OCTA.

Finance and Administration Division
THIRD PARTY SECURITY POLICY

Policy#: FA-IS-900.04THIRDPARTY

Origination Date: 02/27/2007

Revised Date: 12/07/2016

- c. All sensitive information and materials shall be returned or destroyed by contractors once the agreement has been fulfilled unless otherwise specified by contract requirements.
- 6. A process and mechanism shall be employed to manage the distribution of sensitive information and materials only to authorized third parties.
- 7. Any computing asset employed by third parties that connects to the OCTA computing environment or handles OCTA sensitive information shall conform to OCTA security policies.
- 8. Third parties shall be uniquely identified while providing services for OCTA.
 - a. OCTA shall provide third party contractors with authorized credentials that clearly identify them as non-OCTA personnel.
- 9. Third party contractors shall demonstrate that their associates have been adequately screened if they require access to OCTA sensitive areas, sensitive information, or can directly impact the safety of OCTA employees or customers.

B. Disciplinary Action

Violation of this policy by employees can result in disciplinary action including formal reprimand, suspension, and/or termination. Third parties failing to comply with this policy may result in OCTA exercising its rights pursuant to the underlying contract. Visitors who violate this policy may be subject to removal, arrest, or loss of privileges.

VI. EXCEPTIONS

Not applicable.

VII. PROVISIONS AND CONDITIONS

Not applicable.

VIII. RELATED DOCUMENTS

A. Information Security Management System (ISMS) Standard 27001

- 1. Sections a.10.x, a.10.3.x, a.6.2.x, a.10.8.x

B. National Institute of Standards and Technology (NIST)

- 1. Federal Information Processing Standards (FIPS) 201
- 2. 500 Series
- 3. 800 Series

END OF POLICY

VANGUARD® VF-2420-54x255-34-X

Amber (A) or Full-Color (RGB)

Power Specifications

Model	Viewing Angle (HxV)	Amber Amps Per Leg ³	Amber Typical Power ⁴	RGB Amps Per Leg ³	RGB Typical Power ⁴
VF-2420-54x255-34-X	30° x 30°	27	1245 W	29	1713 W

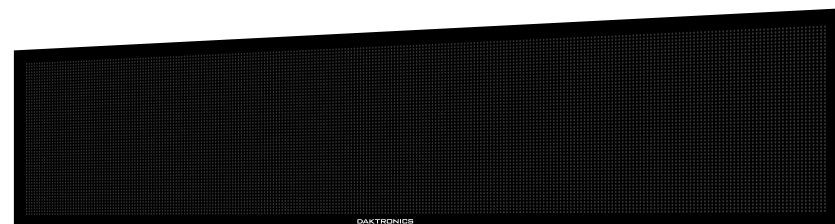
Sample Character Capacity²

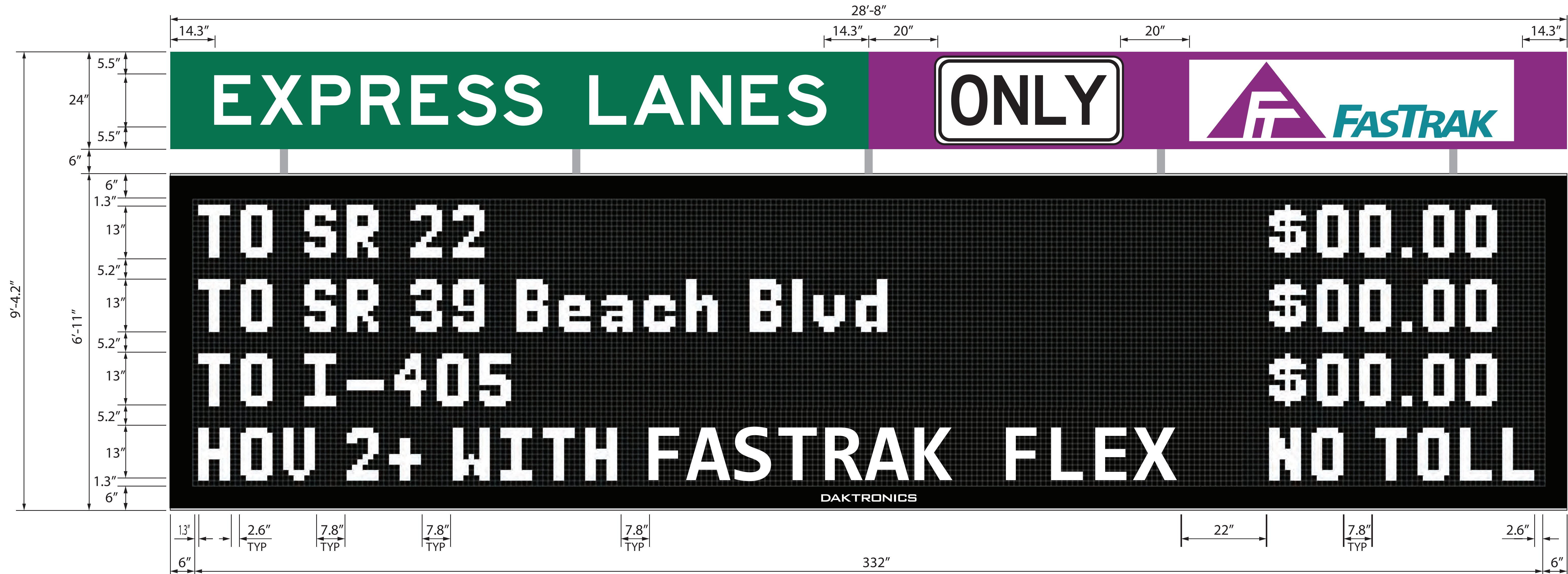
Character Height	Lines/ Characters	Example Font Size	Interline Spacing	Character Spacing
18"	3/21	14x10_2	6	2
12"	4/32	9x06_2	4	2
9"	6/42	7x05_1	3	1

Display Technology	High-intensity LED
Cabinet Access	Front access
Cabinet Enclosure	NEMA 3R
Face Panel	Aluminum mask over polycarbonate face panel
Weight	2265 lbs. (1028 kg)
Dimensions ¹	6'11" x 28'8" x 1'4" (2.09 m x 8.74 m x 0.38 m)
Operating Temp. Range	-30° F to +165° F (-34° C to +74° C)
Humidity Range	0 to 99%, non-condensing
Ventilation	Pressurized, forced-air ventilation system
Controller Location	Sign cabinet or equipment cabinet
Display Type	Full-matrix (variable text and graphics)
Active Area	5'11" x 27'7" (1.78 m x 8.42 m)
Top/Bottom Border Width	6" (152.4 mm)
Left/Right Border Width	6" (152.4 mm)
Pixel Matrix	54 rows x 255 columns
Pixel Pitch	34mm (1.33")
Viewing Distance	450' (137 m) using 9" characters
Sign Intensity	Amber 9,200 candelas/m ² minimum Full-color 12,400 candelas/m ² minimum (white)
LED Color	Amber (590nm ± 5nm) Full-color (32,000 distinct colors using red, green and blue LEDs)
Power Requirements	120/240 VAC, single-phase power (3-wires plus ground)
Communications Protocol	NTCIP 1203
Communications Options	Cellular, fiber optic, direct Ethernet and radio Ethernet
Structural Design Standard	AASHTO
NEMA Standards	NEMA TS 4 Section 2 Environmental Requirements

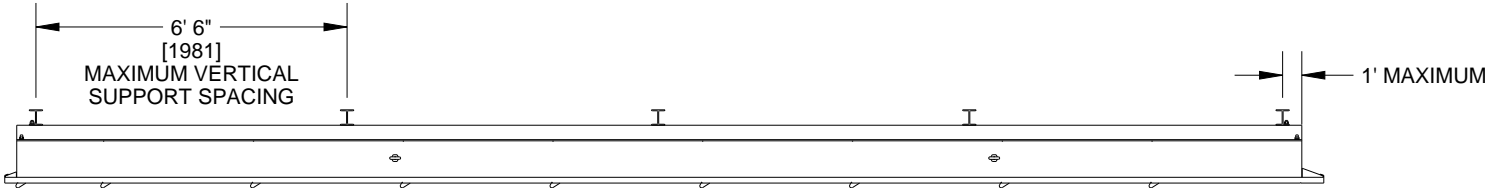
NOTES

1. Display cabinet depth measurement includes "Z" mounting brackets on the rear of the cabinet.
2. Many other font sizes are available.
3. Amps per leg calculation is based on the maximum load of a typical DMS, including a fully-loaded 15A convenience outlet. This value is measured for a 120/240 3W+G system and will vary with auxiliary options installed in the DMS.
4. Typical power includes a partially-illuminated LED sign (15% of the amber pixels or 38% of the RGB pixels at full intensity), the sign controller and ventilation system.
5. Sign front face paint color is semi-gloss black. Other sides are mill finish aluminum.
6. With the continuous improvement of all Daktronics products, the features and measurements on this page are subject to change without notice.
7. The product illustration on this page is for conceptual purposes only and may not represent the actual dimensions of the specified display.

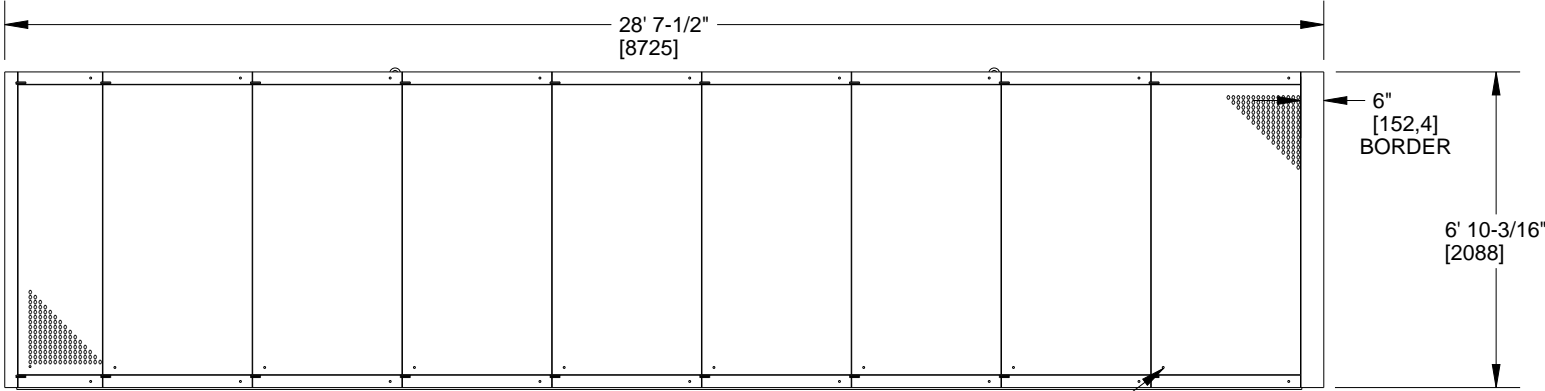




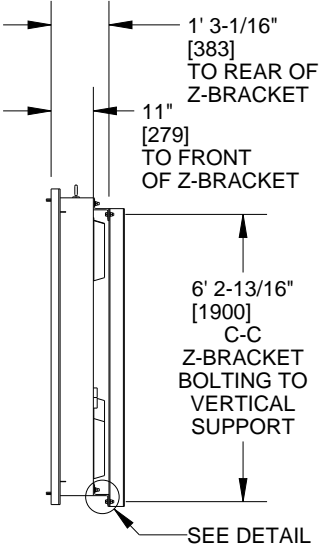
NOTE
NUMBER OF SUPPORTS SHOWN
MAY NOT BE ACTUAL NUMBER
OF SUPPORTS REQUIRED



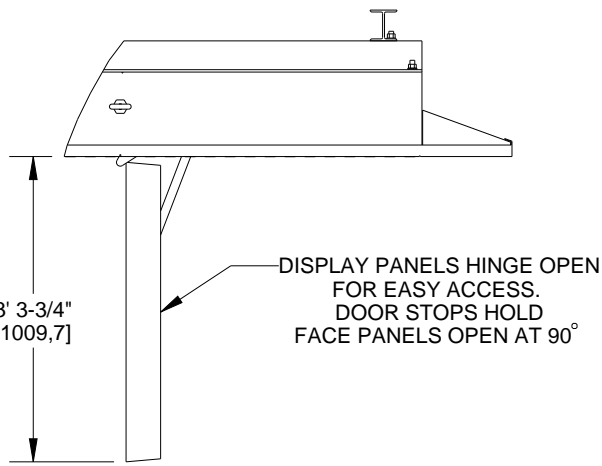
TOP VIEW



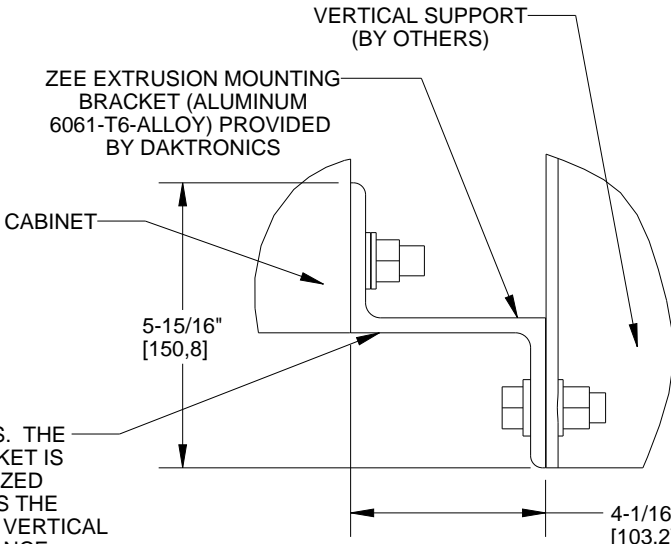
FRONT VIEW



RIGHT SIDE
VIEW



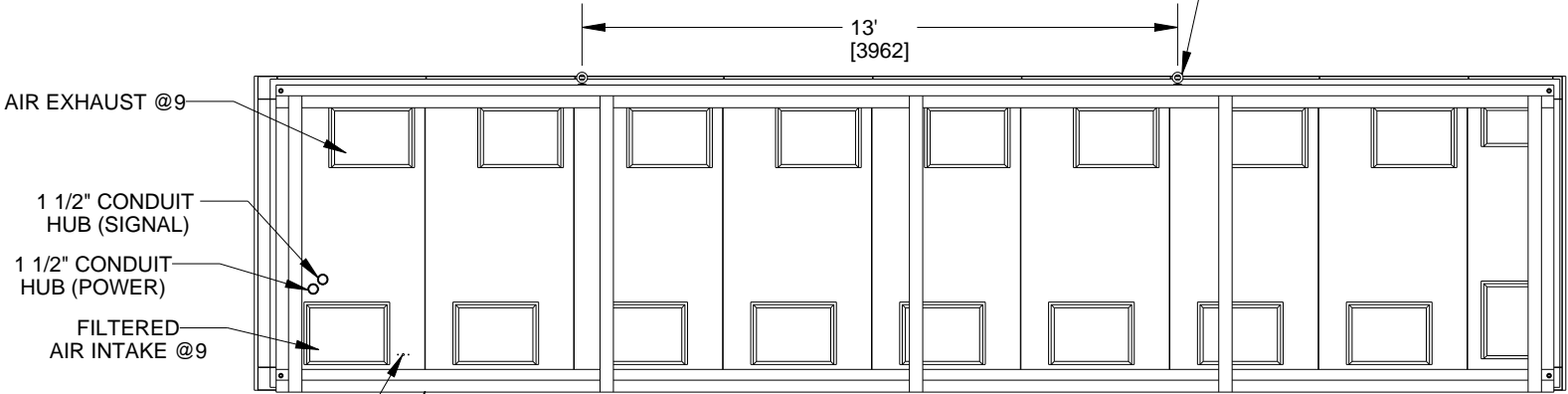
TOP PARTIAL VIEW
FACEPANEL OPEN
SCALE 1/25



DETAIL A
SCALE 1/4


Z-BRACKETS ARE BOLTED TO THE REAR OF THE DISPLAY BY DAKTRONICS. THE VERTICAL SUPPORTS SHOWN ARE PROVIDED BY OTHERS. EACH Z-BRACKET IS ATTACHED TO THE CABINET USING $\varnothing 5/8"$ A325 MECHANICALLY GALVANIZED STRUCTURAL GRADE HARDWARE. FINAL REVIEW OF MOUNTING DETAIL IS THE RESPONSIBILITY OF THE CUSTOMER AND THE CUSTOMER'S ENGINEERS. THE VERTICAL SUPPORTS MUST BE ATTACHED AS SHOWN WITHIN THE STATED TOLERANCE. (STAINLESS STEEL HARDWARE IS OPTIONAL BASED ON PROJECT REQUIREMENTS.)

WHEN LIFTING DISPLAY WITH LIFT EYES USE SPREADER BEAM.
IF LIFT EYES ARE REMOVED AFTER INSTALLATION THEY SHOULD BE REPLACED WITH SS BOLTS TO PREVENT DEBRIS BUILDUP IN THE THREADS OF THE PERMANENT HARDWARE. THIS DOES NOT EFFECT WATER TIGHTNESS.



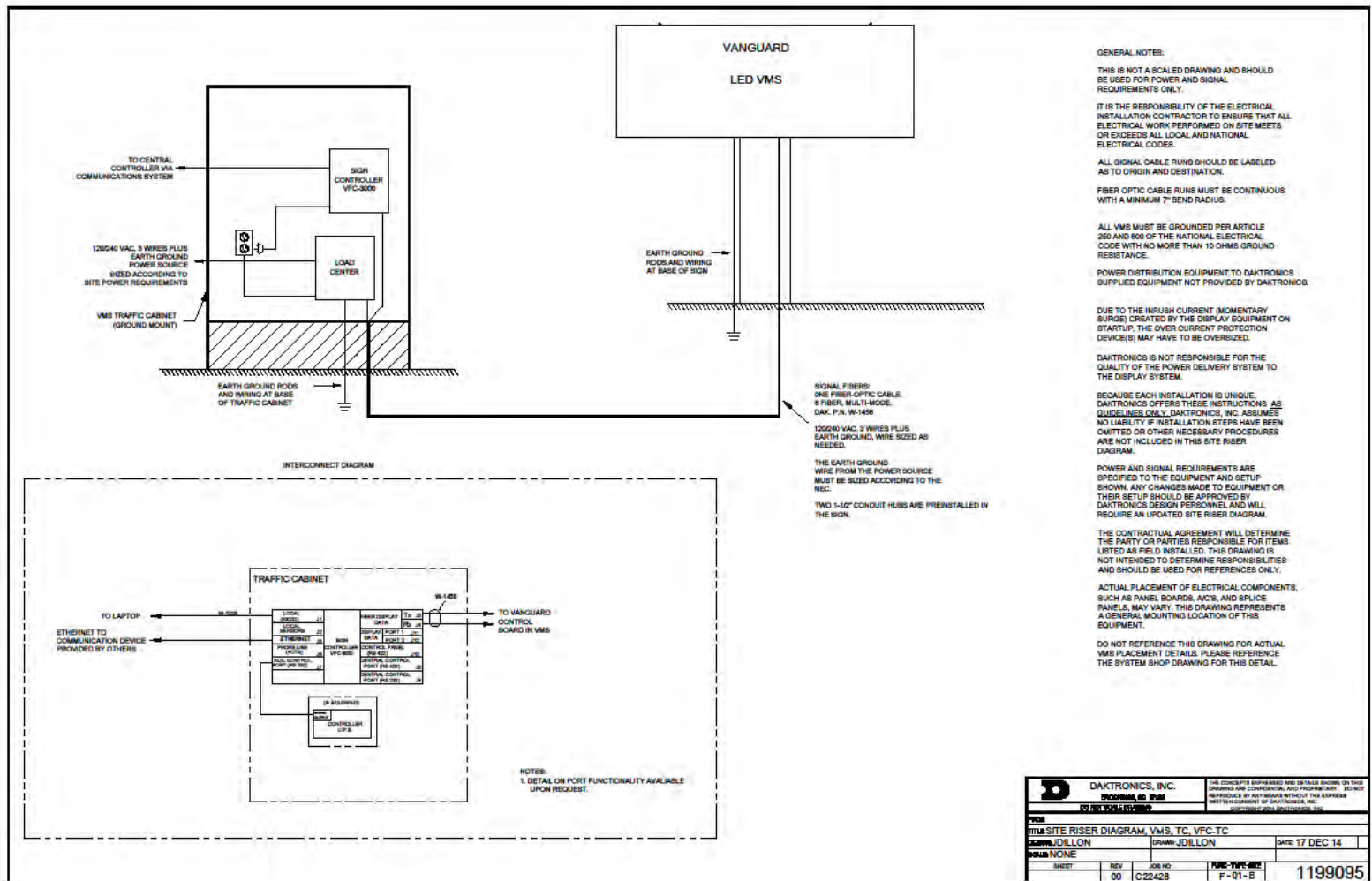
REAR VIEW

- NOTES:
- 1.) MATRIX SIZE 54 X 255
 - 2.) SEE ILLUSTRATIONS FOR POWER AND SIGNAL CONDUIT ENTRANCES.
 - 3.) ALL DIMENSIONS ARE IN FEET & INCHES [mm].
 - 4.) FULL PROTECTIVE MASKED FACE PANEL.
 - 5.) MAINTENANCE OF DISPLAY IS INTERNAL VIA FRONT ACCESS FACE PANEL.
 - 6.) ALL ALUMINUM CONSTRUCTION
 - 7.) POSITIVE PRESSURE VENTILATION SYSTEM
 - 8.) WEIGHT OF THE DISPLAY IS APPROXIMATELY 2265 LBS (1028 KG).
 - 9.) VERTICAL SUPPORTS DESIGNED AND SUPPLIED BY OTHERS.
 - 10.) MOUNTING CALCULATIONS DONE TO "AASHTO STANDARD SPEC. FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS. AASHTO 6TH EDITION 2013;"
 - 11.) IF VERTICAL SUPPORTS NEED TO BE MOVED OUTSIDE OF STATED MAXIMUM SPACING OR IF SPECIFICATIONS EXCEED NOTE #10 THEN CONTACT DAKTRONICS ENGINEERING.

		DAKTRONICS, INC.		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2014 DAKTRONICS, INC.	
BROOKINGS, SD 57006					
DO NOT SCALE DRAWING					
PROJ: VANGUARD					
TITLE: SHOP DRAWING, VF-24**-54X255-34-*, 5/8" HW					
DESIGN: SLEE		DRAWN: JPELLET		DATE: 03-JAN-14	
SCALE: 1/50					
SHEET:	REV	JOB NO:	FUNC-TYPE-SIZE		1159704
1 OF 1	00	P 1626	F - 10 - B		

REV	DATE:		BY:	
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1159704



ADDITIONAL NOTES: Grounding Requirement: The sign structure shall be grounded independent of to the electrical service ground. Ground the structure to a ground rod located as close as practical to the sign structure location. Ground using approved connection methods at the sign structure and ground rod. Provide a minimum of #4 AWG solid copper grounding conductor from structure to ground rod. The ground is connected to the ground lug at the back of the sign. If the resistance of 10 ohms or less cannot be achieved by using the structure as a ground path, a direct connection from the ground lug on the display to the ground rod using a copper conductor is required.

SI-G-013.1 - CMS Gantry Grounding Requirement		
SS	2/4/2015	Cofiroute USA

SR-91

Monthly Traffic & Revenue

2015 & 2016

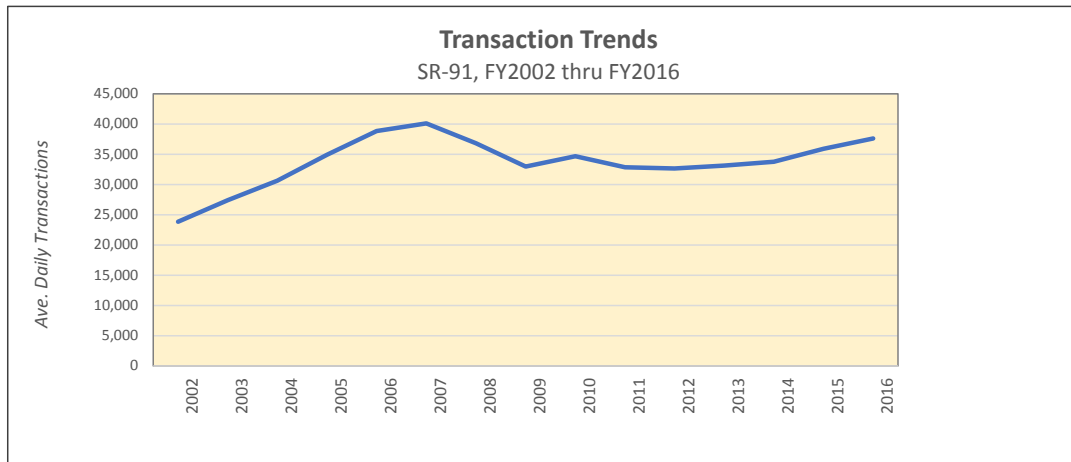
Month	2015		2016	
	Total Tx	Transponder Not Read Tx	Total Tx	Transponder Not Read Tx
Jan	1,018,633	293,989	1,052,626	303,800
Feb	1,023,415	295,369	1,050,074	303,064
Mar	1,174,757	339,049	1,209,371	349,039
Apr	1,173,914	338,805	1,156,174	333,685
May	1,144,369	330,278	1,180,648	340,749
Jun	1,172,590	338,423	1,195,928	345,159
Jul	1,194,162	344,649	1,227,807	354,359
Aug	1,178,826	340,223	1,280,594	369,594
Sep	1,123,963	324,389	1,057,115	305,096
Oct	1,177,515	339,845	1,111,047	320,661
Nov	1,106,073	319,226	1,067,472	308,085
Dec	1,147,611	331,214	1,124,685	324,597

SR-91

Annual Traffic & Revenue

FY 2002 thru FY 2016

Fiscal Year	Ave. Daily Transactions	Annual Revenue	Ave. Revenue per Tx
2002	23,850	\$23,320,000	\$2.68
2003	27,402	\$26,551,249	\$2.65
2004	30,639	\$26,971,775	\$2.41
2005	34,908	\$32,518,490	\$2.55
2006	38,857	\$37,510,374	\$2.64
2007	40,109	\$40,574,194	\$2.77
2008	36,823	\$39,635,350	\$2.94
2009	32,978	\$36,048,302	\$2.99
2010	34,682	\$37,760,887	\$2.98
2011	32,873	\$35,451,098	\$2.95
2012	32,635	\$34,312,031	\$2.87
2013	33,111	\$34,696,959	\$2.87
2014	33,772	\$36,166,803	\$2.93
2015	35,909	\$39,309,443	\$3.00
2016	37,631	\$41,905,619	\$3.04



SR-91

Daily Transaction Summary

January 2017

Date	Weekday	Eastbound (All Three Lanes)						Westbound (All Three Lanes)					
		Total Tx	Tolled Tx	Declared HOV Tx	Declared HOV%	Transponder Not Read Tx	Transponder Not Read %	Total Tx	Tolled Tx	Declared HOV Tx	Declared HOV%	Transponder Not Read Tx	Transponder Not Read %
1/1/2017	Sun	8,795	4,537	4,258	48.4%	2,497	28.4%	11,200	6,552	4,648	41.5%	4,043	36.1%
1/2/2017	Mon	7,890	5,109	2,781	35.2%	2,539	32.2%	9,896	6,420	3,476	35.1%	3,380	34.2%
1/3/2017	Tue	21,170	17,133	4,037	19.1%	6,720	31.7%	17,378	13,459	3,919	22.6%	4,908	28.2%
1/4/2017	Wed	22,833	18,410	4,423	19.4%	6,059	26.5%	18,568	14,314	4,254	22.9%	5,194	28.0%
1/5/2017	Thu	21,275	17,378	3,897	18.3%	5,783	27.2%	17,183	13,288	3,895	22.7%	4,566	26.6%
1/6/2017	Fri	25,192	19,950	5,242	20.8%	6,720	26.7%	19,779	14,928	4,851	24.5%	5,910	29.9%
1/7/2017	Sat	13,839	9,278	4,561	33.0%	3,952	28.6%	14,539	9,545	4,994	34.3%	4,872	33.5%
1/8/2017	Sun	7,076	3,933	3,143	44.4%	2,289	32.3%	7,939	5,338	2,601	32.8%	2,831	35.7%
1/9/2017	Mon	17,788	14,865	2,923	16.4%	5,938	33.4%	15,853	12,873	2,980	18.8%	4,114	25.9%
1/10/2017	Tue	22,535	19,010	3,525	15.6%	5,841	25.9%	17,985	14,695	3,290	18.3%	4,835	26.9%
1/11/2017	Wed	20,731	17,478	3,253	15.7%	5,454	26.3%	16,810	13,760	3,050	18.1%	4,346	25.9%
1/12/2017	Thu	19,614	16,543	3,071	15.7%	5,110	26.1%	16,907	13,757	3,150	18.6%	4,460	26.4%
1/13/2017	Fri	25,197	20,466	4,731	18.8%	6,486	25.7%	17,621	13,887	3,734	21.2%	5,028	28.5%
1/14/2017	Sat	16,683	11,315	5,368	32.2%	4,629	27.7%	15,687	10,467	5,220	33.3%	5,308	33.8%
1/15/2017	Sun	10,729	6,352	4,377	40.8%	3,540	33.0%	12,681	7,979	4,702	37.1%	4,367	34.4%
1/16/2017	Mon	19,440	15,055	4,385	22.6%	6,421	33.0%	18,140	13,429	4,711	26.0%	5,389	29.7%
1/17/2017	Tue	23,186	19,487	3,699	16.0%	6,552	28.3%	19,558	15,964	3,594	18.4%	5,492	28.1%
1/18/2017	Wed	23,638	19,775	3,863	16.3%	6,168	26.1%	19,297	15,755	3,542	18.4%	5,313	27.5%
1/19/2017	Thu	20,621	17,298	3,323	16.1%	5,420	26.3%	16,847	13,627	3,220	19.1%	4,420	26.2%
1/20/2017	Fri	22,691	18,785	3,906	17.2%	5,871	25.9%	15,747	12,379	3,368	21.4%	4,230	26.9%
1/21/2017	Sat	16,032	10,889	5,143	32.1%	4,431	27.6%	16,135	10,823	5,312	32.9%	5,495	34.1%
1/22/2017	Sun	6,702	4,233	2,469	36.8%	2,173	32.4%	8,158	5,379	2,779	34.1%	2,625	32.2%
1/23/2017	Mon	16,963	14,217	2,746	16.2%	5,668	33.4%	14,550	11,801	2,749	18.9%	3,894	26.8%
1/24/2017	Tue	22,223	18,714	3,509	15.8%	5,857	26.4%	17,857	14,626	3,231	18.1%	4,720	26.4%
1/25/2017	Wed	24,508	20,657	3,851	15.7%	6,363	26.0%	18,603	15,156	3,447	18.5%	5,149	27.7%
1/26/2017	Thu	25,181	21,169	4,012	15.9%	6,715	26.7%	20,385	16,642	3,743	18.4%	5,679	27.9%
1/27/2017	Fri	29,043	23,774	5,269	18.1%	7,884	27.1%	20,625	16,204	4,421	21.4%	6,113	29.6%
1/28/2017	Sat	20,089	13,866	6,223	31.0%	5,896	29.3%	19,100	12,680	6,420	33.6%	6,676	35.0%
1/29/2017	Sun	9,496	5,415	4,081	43.0%	3,187	33.6%	10,552	6,962	3,590	34.0%	3,828	36.3%
1/30/2017	Mon	20,377	16,750	3,627	17.8%	6,942	34.1%	18,689	15,072	3,617	19.4%	5,232	28.0%
1/31/2017	Tue	24,270	20,415	3,855	15.9%	6,515	26.8%	19,895	16,253	3,642	18.3%	5,398	27.1%
Monthly Average		18,897	14,911	3,986	21.1%	5,343	28.3%	16,263	12,388	3,876	23.8%	4,768	29.3%
Ave. Weekday		22,452	18,614	3,838	17.1%	6,203	27.6%	18,007	14,422	3,585	19.9%	4,950	27.5%
Ave. Weekend / Holiday		12,434	8,180	4,254	34.2%	3,778	30.4%	13,093	8,689	4,405	33.6%	4,438	33.9%

I-405**Annual Transaction Forecast -- I-405**

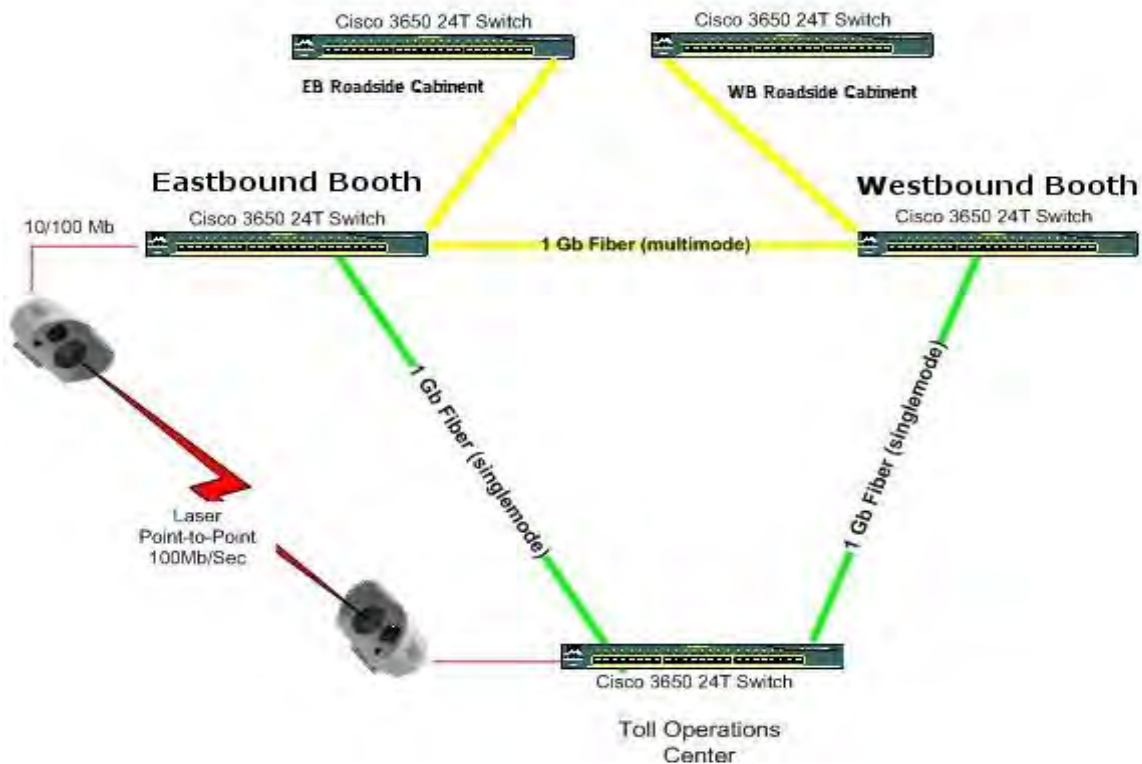
2023 - 2032

Year	Total Tx	Tolled Tx	Declared HOV Tx	Declared HOV%	Transponder Not Read Tx	Transponder Not Read %
2023	71,010,000	27,744,000	43,266,000	60.9%	25,564,000	36.0%
2024	83,744,000	34,141,000	49,603,000	59.2%	27,636,000	33.0%
2025	108,839,000	47,903,000	60,936,000	56.0%	32,652,000	30.0%
2026	122,246,000	55,538,000	66,708,000	54.6%	36,674,000	30.0%
2027	101,930,000	71,124,000	30,806,000	30.2%	30,579,000	30.0%
2028	106,162,000	73,493,000	32,669,000	30.8%	31,849,000	30.0%
2029	110,513,000	75,889,000	34,624,000	31.3%	33,154,000	30.0%
2030	112,181,000	76,404,000	35,777,000	31.9%	33,654,000	30.0%
2031	113,889,000	76,920,000	36,969,000	32.5%	34,167,000	30.0%
2032	115,640,000	77,440,000	38,200,000	33.0%	34,692,000	30.0%

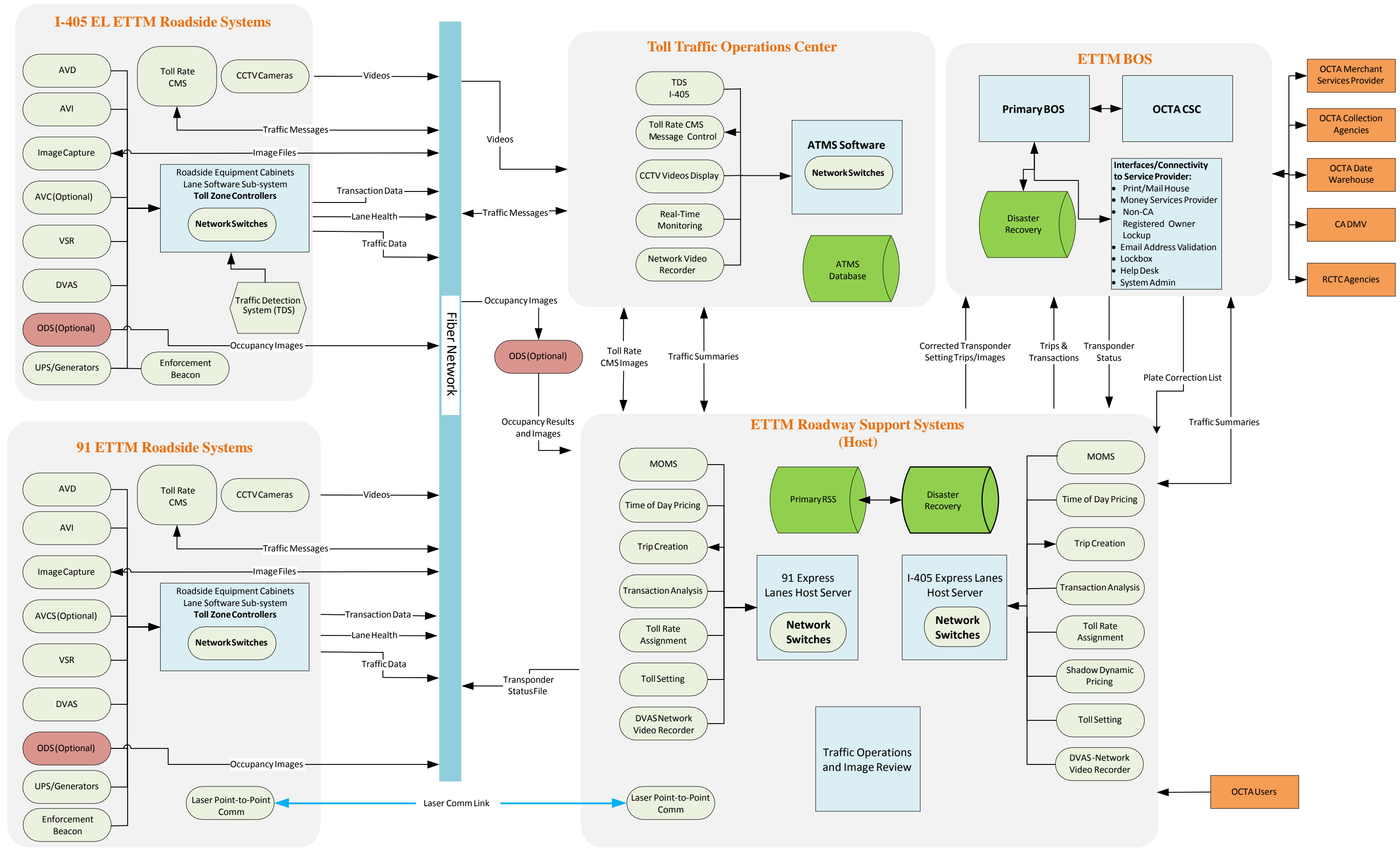
91 Express Lanes Communications Network Layout

The ETTM network consists of various devices communicating on 100mb/1000mb network connections. There are three physical locations. Each of these locations has a Cisco network switch. The switches are interconnected via 1000mb fiber interconnections.

The ETTM network utilizes a ring topology. This design ensures that a single interruption in communication will not impact the network performance. In addition, there is a wireless 100mb link from the Eastbound Booth to the TOC.



OCTA ETTM Communications Network Overview



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1 Introduction

The Riverside County Transportation Commission (RCTC) has entered into a Systems Integration and Implementation Contract (SIIC) with Cofiroute USA to serve as the Systems Integrator (SI) for the SR91 Express Lanes extension project. Cofiroute USA is to provide an Electronic Toll and Traffic Management (ETTM) System for RCTC's eight miles of tolled express lanes within State Route 91 (SR91) between the Riverside/Orange County line and the Interstate 15 interchange, all of which is commonly referred to as the Project.

As the SI, Cofiroute USA has created a back-office system, the Revenue and Account Management System (RAMS), to complete the ETTM SIIC work. This document is an Interface Control Document (ICD), which identifies and describes the various interfaces, components, and subsystems associated with RAMS and which shall be implemented over the course of the Project.

1.1 Purpose

The ICD describes the relationship between the components of a system in terms of the data and messages passed, the protocols observed, and the timing and sequencing of events. This document will provide the development teams with the documentation necessary to integrate the various subsystems needed to implement RAMS. The intended audience of this ICD is the SI Manager, the Project Engineers, and the associated development teams.

1.2 Scope

This ICD describes the interfaces for the subsystems needed to provide, process, and maintain Customer Account information for RAMS. The description of each interface will cover the method of connection, the data flow, and the data exchanged. In addition, some notation of integration will be included. It is also intended to be general enough to provide an overview of the project for non-technical personnel.

The following sections are intended to provide some narrative of the interface. Fields that will be defined (where applicable) are:

- The name of the interface
- A detailed description of the interface
- A depiction of the data flow
- Definition of the data
- Technical listings of interface transports and techniques
- Listings of contingent hardware/software needed to implement the interfaces

Data samples, notes, and additional information will be provided to address any required communications details.

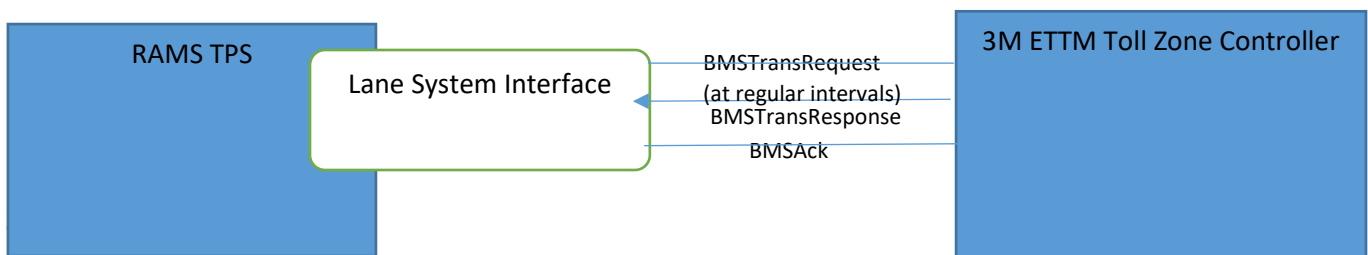
2 3M Lane System

Through the 3M Lane System (Lane System Interface, or LSI), RAMS sends a request to 3M ETTM System to obtain trips within a specified time frame.

The ETTM stores the collected information for traffic traveling on the 91 Express Lanes in a detailed transaction record called a trip. A trip is a collection of 1 or more transaction records or segments which describes the complete movement of a single vehicle along the tolling portion of a highway. ETTM derives the information from transponder-read transactions on the 91 Express Lanes.

The RAMS TPS is responsible for receiving transactions, validating transaction data, and submitting transactions to the RAMS Operations Processing Subsystem (OPS) for assignment of pricing and posting to the appropriate accounts.

2.1 Data Flow



Data exchanged within the 3M Lane System will be in XML format. The full interface will also require CIFS (Common Internet File System) in order to retrieve BLOB images.

The XML fields for 3M ETTM and the Lane Controller are defined below:

2.1.2 BMS TransResponse (Toll TransactionRecord)

```

source <xs:element name="TollTransactionRecord">
  <xs:annotation>
    <xs:documentation>Data structure to describe a toll transaction resolved by the TZC.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TransactionID" type="xs:string"/>
      <xs:element name="TransactionDateTime" type="xs:dateTime"/>
      <xs:element name="SequenceID" type="xs:string" minOccurs="0"/>
      <xs:element ref="TollZone" minOccurs="0"/>
      <xs:element ref="TollZoneID" minOccurs="0"/>
      <xs:element ref="Lane" minOccurs="0"/>
      <xs:element ref="LaneID" minOccurs="0"/>
      <xs:element ref="LaneStatus" minOccurs="0"/>
      <xs:element ref="LaneStatusID" minOccurs="0"/>
      <xs:element ref="LaneMode" minOccurs="0"/>
      <xs:element ref="LaneModelID" minOccurs="0"/>
      <xs:element ref="LCTransactionRecord" minOccurs="0"/>
      <xs:element ref="VideoTransactionRecord" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
  
```

2.1.3 Transaction ID

```

<xs:element name="TransactionID" type="xs:string"/>
  
```



INTERFACE CONTROL DOCUMENT

2.1.4 Transaction Date/Time

```
<xs:element name="TransactionDateTime" type="xs:dateTime"/>
```

2.1.5 LaneID

```
<xs:element name="LaneID">
  <xs:annotation>
    <xs:documentation>Lane including Plaza designation: E1, E2, E3, W1, W2, W3</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="E1"/>
      <xs:enumeration value="E2"/>
      <xs:enumeration value="E3"/>
      <xs:enumeration value="W1"/>
      <xs:enumeration value="W2"/>
      <xs:enumeration value="W3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

2.1.6 LaneStatusID

```
<xs:element name="LaneStatusID">
  <xs:annotation>
    <xs:documentation>O = Open, C = Closed - SR91 is always open!!!</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="O"/>
      <xs:enumeration value="C"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```




2.1.7 LaneModelID

```
<xs:element name="LaneModelID">
  <xs:annotation>
    <xs:documentation>N = Normal (operational) or M = Maintenance</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="N"/>
      <xs:enumeration value="M"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```

2.1.8 LaneTransactionRecord

```

<xs:element name="LCTransactionRecord">
  <xs:annotation>
    <xs:documentation>Data structure to describe a transaction created in a Lane Controller.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TransactionID" type="xs:string"/>
      <xs:element name="TransactionDateTime" type="xs:dateTime"/>
      <xs:element name="SequenceID" type="xs:string" minOccurs="0"/>
      <xs:element ref="TollZone" minOccurs="0"/>
      <xs:element ref="TollZoneID" minOccurs="0"/>
      <xs:element ref="Lane" minOccurs="0"/>
      <xs:element ref="LaneID" minOccurs="0"/>
      <xs:element ref="TransactionResolutionMethod"/>
      <xs:element ref="VehicleDetectionMethod" minOccurs="0"/>
      <xs:element ref="TagReading" minOccurs="0"/>
      <xs:element name="IsStraddleDetected"/>
      <xs:element ref="VehicleDetections" minOccurs="0"/>
      <xs:element ref="StatusMessage" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



2.1.9 TollZoneID

```
<xs:element name="TollZoneID">
  <xs:annotation>
    <xs:documentation>Plaza ID: E or W</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="E"/>
      <xs:enumeration value="W"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
```



2.1.10 VideoTransactionRecord

```
<xs:element name="VideoTransactionRecord">
  <xs:annotation>
    <xs:documentation>Data structure to describe a transaction created through image capture.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TransactionID" type="xs:string"/>
      <xs:element name="TransactionDateTime" type="xs:dateTime"/>
      <xs:element name="SequenceID" type="xs:string" minOccurs="0"/>
      <xs:element ref="TollZone" minOccurs="0"/>
      <xs:element ref="TollZoneID" minOccurs="0"/>
      <xs:element ref="Lane" minOccurs="0"/>
      <xs:element ref="LaneID" minOccurs="0"/>
      <xs:element ref="VehicleDetectionMethod" minOccurs="0"/>
      <xs:element ref="StatusMessage" minOccurs="0"/>
      <xs:element ref="VehicleImages"/>
      <xs:element ref="LicensePlateData" minOccurs="0"/>
      <xs:element name="LCTransactionID" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Orange County Transportation Authority (OCTA)

Toll Lane System Integrator Services for the 405 Express Lanes and 91 Express Lanes

Project Standards

The table below provides a list of standards, manuals, and guidelines that the Contractor must use to design and construct the Project (collectively, the "Project Standards"). Except as otherwise specified in the Contract Documents or otherwise directed by Authority, material and workmanship specified by the number, symbol or title of any standard established by reference to a described publication affecting any portion of the Project must comply with the latest edition or revision thereof and amendments and supplements thereto in effect as of the Setting Date. If the manual expires or revisions are issued during the course of the Project, contact Authority to determine if it should continue to use the manual, use the revision, or if the standard, manual, or guideline will be replaced.

Website addresses have been supplied to the Contractor for some of the listed standards for convenience only, in an effort to help the Contractor locate the required standard. The Websites are not guaranteed to be correct. It is ultimately the Contractor's responsibility to locate the required standard and to determine if the standard has been modified pursuant to the Contract Documents.

The following notes apply to the Caltrans Project Standards that are used on this Project, with the exception of the Standard Specifications:

1. Caltrans manuals were created as an internal guidance document for use by various Caltrans personnel. As such, the manuals are written as guidance documents and not as mandatory requirements. For purposes of this Projects, the Contractor shall assume that all provisions of the manual, including the figures and tables, are mandatory and guidelines shall be assumed to be requirements. All words such as "should," "may," "must," "might," "could," and "can" shall mean "shall" unless the context requires otherwise, as determined in the sole discretion of the Caltrans. Contractor shall disregard qualifying words such as "usually," "normally," "commonly," "in general" and "generally." It shall be in the Caltrans's sole discretion to determine when the context does not require a provision to be mandatory.
2. If a Caltrans Project Standard expires during the course of the Project the Contractor shall contact Authority and Caltrans to determine if they should continue to use the Project Standards or if it will be replaced.
3. Any references related to pay items, bid items, or quantities, measurement for payment, method of measurement, basis of payment, extra work, adjustment of unit prices, or similar phrases shall be disregarded by the Contractor, since the Contract Price is full compensation for the Work.
4. On technical issues "The Engineer" shall mean the Contractor. On administrative issues "The Engineer" shall mean Authority and/or Caltrans. If the Contractor believes that a definition of "The Engineer" is unclear, the Contractor shall have the obligation to raise the issue with Authority. Regardless of whether the Contractor raises the issue, Authority shall always have the right to notify the Contractor if the Contractor is interpreting the definition of "The Engineer" incorrectly. It shall be in the Authority's sole discretion to determine when the context refers to technical responsibilities.
5. If it is unclear whether specific provisions in the document are applicable to the Contractor, the Contractor shall raise the issue with Authority and Authority shall make that determination in its sole discretion.
6. The Contractor shall disregard paragraphs within the documents relating to questions. All questions shall be taken to Authority and/or Caltrans.
7. Some individual Caltrans documents are available in electronic format which can be accessed at the following Web Site: <http://www.dot.ca.gov/hq/esc/techpubs/>.
8. All responsibilities assigned to Caltrans shall be assigned to the Contractor, unless otherwise noted.

9. When the document refers to an action being necessary or needed, the Contractor shall construe the action as required unless the context requires otherwise, as determined in the sole discretion of Authority.
10. In addition, phrases relating to items such as activity[ies] that “will be” conducted, that are “most easily accomplished by”, that “are recommended”, that “is usually necessary”, that “should preferably be” done, that “might require”, that “is necessary” or “as necessary”, that “are” (or “is”) “required” or “done” shall be construed to be mandatory requirements unless the context requires otherwise, as determined in the sole discretion of Authority . Phrases relating to problems with activity[ies] that should not be conducted, such as “is not normally used,” “is not good practice,” “should never be done,” “cannot be used,” or “should be avoided” shall be construed as prohibited. It shall be in Authority’s sole discretion to determine when the context either requires or does not require a provision to be mandatory.
11. Where the notes refer to items that are indicated in the plans or special provisions or required in the plans or special provisions, the plans or special provisions shall mean the Contractor’s plans or special provisions.
12. References to approved products, materials, or equipment shall mean approved by Authority and/or Caltrans.
13. References to payment, pay items and quantities are hereby deleted.
14. All references to the Inspector, the Field Inspector, the Project Engineer, the Engineer, the Materials Engineer, the District Materials Engineer, the Survey Crew, the Project Supervisor, the Agency Certified Technician, the Certified Plant Technician, and the Representative of the Office of Materials shall mean the Contractor, unless noted otherwise.
15. All references to the Caltrans facilities, including the Office of Materials Laboratory, Central Laboratory, Cement Laboratory, Concrete & Metals Laboratory, Aggregate Laboratory, Chemical Laboratory, Mix Design Laboratory, District Laboratory, and the Laboratory shall mean the Contractor’s similar Laboratory facilities, unless noted otherwise.
16. All references to the Agency shall mean Caltrans, unless noted otherwise.
17. The Contractor shall use forms as required to report the same information and in the same format as the Caltrans forms shown in the documents.
18. References to Caltrans practices and policies shall be construed to be mandatory requirements unless the context requires otherwise. It shall be in the Caltrans’s sole discretion to determine when the context does not require a provision to be mandatory.
19. All references to Caltrans offices and personnel shall mean the Contractor’s similar offices and personnel, unless context notes otherwise as determined by the Authority, in its good faith discretion.
20. Contractor shall complete all laboratory testing at a Caltrans-certified facility.

Organization	Description	Format/ Availability
AASHTO	A Guide for Accommodating Utilities within Highway Right-of-Way	IS
AASHTO	A Policy on Design Standards – Interstate System	IS
AASHTO	A Policy on Geometric Design of Highways and Streets	IS
AASHTO	AASHTO Load Resistance Factor Design (LRFD) Bridge Design Specifications, 2012 (Sixth Edition) (Customary U.S. Units)	IS
AASHTO	LRFD Bridge Construction Specifications, 2012 (6th Edition) with California Amendments (AASHTO-CA BDS-6)	IS
AASHTO	Manual for Bridge Evaluation	IS
AASHTO	Roadside Design Guide	IS
AASHTO	Roadway Lighting Design Guide	IS
AASHTO	Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, with 2015 Interims	IS
AASHTO	Standard Specifications for Transportation Materials and Methods of Sampling and Testing, and Provisional Standards	IS
ACI	Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures (ACI 440.2R-02)	IS
ANSI	ANSI A300 (Part 1) - Pruning: Tree Care Operations - Tree, Shrub and Other Woody Plant Maintenance - Standard Practices	IS
ANSI/EIA	ANSI/EIA 632-1999 (R2003) Process for Engineering a System	IS
ANSI	ANSI Z133. Standards for Arboricultural Operations: Safety Requirements	IS
ANSI	ANSI Z60.1-2004 American Standard for Nursery Stock	IS
ANSI	Illuminating Engineering Society of North America Roadway Lighting ANSI Approved; RP-8-00 American National Standard Practice for Roadway Lighting	IS
APWA	Southern California Chapter, Work Area Traffic Control Handbook (WATCH)	IS
ASTM	American Society of Testing and Materials Standards	IS
ATSSA	Guidance for the Use of Portable Changeable Message Signs in Work Zones	IS

Format/Availability Legend:

IS = Industry standard, Contractor's responsibility to acquire

W = standard is available as download on the organization's web site, Contractor's responsibility to acquire.

E = document to be given to Contractor in electronic format

Organization	Description	Format/ Availability
ATSSA	Quality Guidelines for Work Zone Traffic Control Devices	IS
Caltrans	ARS ONLINE: Deterministic PGA Map and ARS Online Report, Fault Data Base, 2007 Fault Errata Report http://www.dot.ca.gov/hq/esc/earthquake_engineering/sdc/documents/2007%20Caltrans%20Deterministic%20PGA%20Map.pdf	W
Caltrans	Bridge Construction Records and Procedures Manual, Volume I http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals/BCRPVol1.pdf	W
Caltrans	Bridge Construction Records and Procedures Manual, Volume II http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals/BCRPVol2.pdf	W
Caltrans	Bridge Deck Construction Manual http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals/Deck_Terms.pdf	W
Caltrans	Bridge Design Aids http://www.dot.ca.gov/des/techpubs/bda.html	W
Caltrans	Bridge Design Details http://www.dot.ca.gov/des/techpubs/bdd.html	W
Caltrans	Bridge Design Practice Manual http://www.dot.ca.gov/des/techpubs/bdp.html	W
Caltrans	Bridge Design Specifications (LRFD Version) http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-design-specifications/bds.html	W
Caltrans	Bridge Memo To Designers http://www.dot.ca.gov/des/techpubs/mtd.html	W
Caltrans	Bridge Standard Detail Sheets (XS Sheets) http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html	W
Caltrans	CADD User's Manual http://www.dot.ca.gov/hq/oppd/cadd/usta/caddman/default.htm	W

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E = document to be given to Contractor in electronic format

Organization	Description	Format/ Availability
Caltrans	Caltrans California Amendments to the AASHTO LRFD Bridge Design Specifications http://www.dot.ca.gov/des/techpubs/	W
Caltrans	California Manual on Uniform Traffic Control Devices (CA MUTCD) http://www.dot.ca.gov/hq/traffops/engineering/mutcd/index.htm	W
Caltrans	California Seismic Hazard Map and Report http://www.dot.ca.gov/hq/esc/earthquake_engineering/seismology/	W
Caltrans	California Test Methods http://www.dot.ca.gov/hq/esc/ctms/index.html	W
Caltrans	Changeable Message Sign Guidelines http://www.polb.com/civica/filebank/blobdload.asp?BlobID=8863	W
Caltrans	Code of Safe Drilling Practices http://www.dot.ca.gov/hq/esc/geotech/	W
Caltrans	Code of Safe Surveying Practices http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/02_Surveys_Figure_2_1.pdf	W
Caltrans	Concrete Pavement Guide Part 2 Chapter 200 http://www.dot.ca.gov/hq/maint/Pavement/Offices/Pavement_Engineering/CPG/CPG_Ch200_CRCP.pdf	W
Caltrans	Concrete Technology Manual http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCompleteManuals/CTM_Terms.pdf	W
Caltrans	Construction Manual http://www.dot.ca.gov/hq/construc/constmanual/construction_manual.pdf	W
Caltrans	Construction Policy Bulletins http://www.dot.ca.gov/hq/construc/manual2001/CPBindex.HTM	W
Caltrans	Construction Procedure Directives http://www.dot.ca.gov/hq/construc/CPDirectives/cpdindex.htm	W

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E = document to be given to Contractor in electronic format

Organization	Description	Format/ Availability
Caltrans	Construction Site Stormwater Quality Sampling Guidance Manual http://www.dot.ca.gov/hq/construc/stormwater/SamplingGuidanceManual.pdf	W
Caltrans	Controlling Shrinkage Cracking http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals/ControlShrinkCracking-ACI_CT.pdf	W
Caltrans	Corrosion Guidelines http://www.dot.ca.gov/hq/esc/Translab/pubs/CorrGuidelines_200309xx.pdf	W
Caltrans	Deputy Directives by Number http://www.dot.ca.gov/hq/oppd/guidance.htm	W
Caltrans	Design Information Bulletins http://www.dot.ca.gov/hq/oppd/dib/dibprg.htm	W
Caltrans	Design Memoranda http://www.dot.ca.gov/hq/oppd/design/	W
Caltrans	Director's Policies http://www.dot.ca.gov/	W
Caltrans	District Electrical Details http://www.dot.ca.gov/hq/esc/oe/project_plans/HTM/stdplns-US-customary-units-new15.htm	W
Caltrans	District Pavement Policies and Standards http://www.dot.ca.gov/hq/maint/Pavement/Standards_and_Guidance/Pavement_Standards.html	W
Caltrans	Division of Environmental Analysis http://www.dot.ca.gov/hq/env/	W
Caltrans	Encroachment Permits Manual http://www.dot.ca.gov/trafficops/ep/manual.html	W
Caltrans	Environmental Handbook Volume 1: Guidance for Compliance http://www.dot.ca.gov/ser/vol1/vol1.htm	W

Format/Availability Legend:

IS = Industry standard, Contractor's responsibility to acquire

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E = document to be given to Contractor in electronic format

Organization	Description	Format/ Availability
Caltrans	Environmental Handbook Volume 2: Cultural Resources http://www.dot.ca.gov/ser/vol2/vol2.htm	W
Caltrans	Environmental Handbook Volume 3: Biological Resources http://www.dot.ca.gov/ser/vol3/vol3.htm	W
Caltrans	Environmental Handbook Volume 4: Community Impact Assessment http://www.dot.ca.gov/ser/vol4/vol4.htm	W
Caltrans	Falsework Manual http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals/FW_Terms.pdf	W
Caltrans	Fiber Optic Design Guidelines	W
Caltrans	Foundation Manual http://www.dot.ca.gov/hq/esc/construction/manuals/OSCCCompleteManuals/Foundation.pdf	W
Caltrans	Foundation Reports for Earth Retaining Systems (ERS) http://www.dot.ca.gov/hq/esc/geotech/geo_manual/page/	W
Caltrans	Geotechnical Manual http://www.dot.ca.gov/hq/esc/geotech/geo_manual/manual.html	W
Caltrans	Guidelines for Structures Foundation Reports http://www.dot.ca.gov/hq/esc/geotech/geo_manual/page/	W
Caltrans	Guidelines on Foundation Loading and Deformation Due to Liquefaction Induced Lateral Spreading http://www.dot.ca.gov/research/structures/peer_lifeline_program/	W
Caltrans	Highway Design Manual http://www.dot.ca.gov/hq/oppd/hdm/hdmtoc.htm	W
Caltrans	Lab Procedures http://www.dot.ca.gov/hq/esc/Translab/ormt/fpmlab.htm	W
Caltrans	Landscape Architecture PS&E Guide http://www.dot.ca.gov/hq/LandArch/lap_guide/index.htm	W

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E = document to be given to Contractor in electronic format

Organization	Description	Format/ Availability
Caltrans	Life Cycle Cost Analysis Procedures Manual http://www.dot.ca.gov/hq/maint/Pavement/Offices/Pavement_Engineering/LCCA_index.html	W
Caltrans	Local Agency Structure Representative Guidelines http://www.dot.ca.gov/hq/construc/CPDirectives/LASR_Guidelines.pdf	W
Caltrans	Local Assistance Procedures Manual Exhibit 11-E Checklist for Drainage http://www.dot.ca.gov/hq/LocalPrograms/lam/forms/chapter11/11e.pdf	W
Caltrans	Maintenance Manual Volume 1 http://www.dot.ca.gov/hq/maint/manual/maintman.htm	W
Caltrans	New Policy and Directives http://www.dot.ca.gov/trafficops/policy.html	W
Caltrans	Outline of Field Construction Practices	E
Caltrans	Overhead Sign Structures Guide	E
Caltrans	Pavement-relevant Design Information Bulletins http://www.dot.ca.gov/hq/maint/Pavement/Standards_and_Guidance/Pavement_Standards.html	W
Caltrans	Pavement Design Software http://www.dot.ca.gov/hq/maint/Pavement/Offices/Pavement_Engineering/Software.html	W
Caltrans	Pavement Tapers and Transitions Guide http://www.dot.ca.gov/hq/maint/Pavement/Offices/Pavement_Engineering/PDF/Pavement-Tapers_Transitions-Guide.pdf	W
Caltrans	Plans Preparation Manual http://www.dot.ca.gov/hq/oppd/cadd/usta/ppman/default.htm	W
Caltrans	Plant Setback and Spacing Guide http://www.dot.ca.gov/dist4/rightofway/documents/airspace/plant_list.pdf	W
Caltrans	Prestress Manual http://www.dot.ca.gov/hq/esc/construction/manuals/	W

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Organization	Description	Format/ Availability
Caltrans	Project Development Procedures Manual http://www.dot.ca.gov/hq/oppd/pdpm/other/PDPM-Chapters.pdf	W
Caltrans	Quality Control Quality Assurance Manual for Asphalt Concrete Production and Placement http://www.dot.ca.gov/hq/construc/publicationlist.htm	W
Caltrans	Ramp Metering Design Manual http://www.dot.ca.gov/trafficops/tm/docs/RMDM.pdf	W
Caltrans	Ready to List and Construction Contract Award Guide http://www.dot.ca.gov/hq/esc/oe/construction_contract_standards/rtl_guide/	W
Caltrans	Reference Sheets for Structural Design Aids Overhead and Roadside Signs http://www.dot.ca.gov/des/techpubs/manuals/reference-sheets/page/english/cover.pdf	W
Caltrans	Right of Way Manual http://www.dot.ca.gov/hq/row/rowman/manual/	W
Caltrans	Safety and Health Manual http://hs.onramp.dot.ca.gov/safety-manual-online	W
Caltrans	Seismic Design Criteria, Version 1.7 http://www.dot.ca.gov/hq/esc/earthquake_engineering/sdc/documents/	W
Caltrans	Sign Specifications http://www.dot.ca.gov/trafficops/tcd/specs.html	W
Caltrans	Signal and Lighting Guidelines http://www.dot.ca.gov/trafficops/camutcd/traffic-manual.html	W
Caltrans	Soil and Rock, Logging, Classification, and Presentation Manual http://www.dot.ca.gov/hq/esc/geotech/sr_logging_manual/page/	W
Caltrans	Specifications for Changeable Message Sign System http://www.dot.ca.gov/trafficops/tech/docs/CMS_2009.pdf	W

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Organization	Description	Format/ Availability
Caltrans	Standard Environmental Reference http://www.dot.ca.gov/ser/	W
Caltrans	Standard Highway Signs http://www.dot.ca.gov/trafficops/tcd/specs.html	W
Caltrans	Standard Plans http://www.dot.ca.gov/hq/esc/oe/project_plans/HTM/stdplns-US-customary-units-new15.htm	W
Caltrans	Standard Specifications and Revised Standard Specifications http://www.dot.ca.gov/hq/esc/oe/construction_contract_standards/std_specs/	W
Caltrans	Standard Special Provisions with updates http://www.dot.ca.gov/hq/esc/oe/2015_SSPs.php	W
Caltrans	Statewide Storm Water Management Plan (SWMP) http://www.dot.ca.gov/hq/env/stormwater/	W
Caltrans	Storm Water – BMPs http://www.dot.ca.gov/hq/oppd/stormwtr/bmps.htm	W
Caltrans	Stormwater and Water Pollution Control – Access Based SWPPP Template http://www.dot.ca.gov/hq/construc/stormwater/	W
Caltrans	Stormwater Quality Handbooks: Construction Site Best Management Practices (BMPs) Manual http://www.dot.ca.gov/hq/construc/stormwater/	W
Caltrans	Stormwater Quality Handbooks: Project Planning and Design Guide http://www.dot.ca.gov/hq/construc/stormwater/	W
Caltrans	Stormwater Quality Handbooks: Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual http://www.dot.ca.gov/hq/construc/stormwater/	W
Caltrans	Structural Detailing Standards http://www.dot.ca.gov/hq/esc/techpubs/manual/othermanual/other-engin-manual/structural-detailing-standards/page/SDS.pdf	W

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Organization	Description	Format/ Availability
Caltrans	Surveys Manual http://www.dot.ca.gov/hq/row/landsurveys/SurveysManual/Manual_TOC.html	W
Caltrans	Technical Memoranda http://www.dot.ca.gov/des/index.html	W
Caltrans	Temporary Pedestrian Facilities Handbook http://www.dot.ca.gov/hq/construc/safety/Temporary_Pedestrian_Facilities_Handbook.pdf	W
Caltrans	Traffic Manual http://www.dot.ca.gov/trafficops/camutcd/traffic-manual.html	W
Caltrans	Traffic Noise Analysis Protocol http://www.dot.ca.gov/hq/env/noise/	W
Caltrans	Transportation and Construction Vibration Guidance Manual http://www.dot.ca.gov/hq/env/noise/pub/TCVGM_Sep13_FINAL.pdf	W
Caltrans	Transportation Electrical Equipment Specifications (TEES) http://www.dot.ca.gov/trafficops/tech/tees.html	W
Caltrans	Transportation Management Plan (TMP) Guidelines	E
Caltrans	Traffic Operations Policy Directives http://www.dot.ca.gov/hq/traffops/policy.htm	W
Caltrans	Trenching and Shoring Manual http://www.dot.ca.gov/hq/esc/construction/manuals/	W
Caltrans	Water Quality Management Plan Template - Streets, Road, Highway, Freeway and Above Ground Linear Drainage Projects http://www.dot.ca.gov/hq/construc/stormwater/	W
CAPUC	G.O. 128 – Rules for Construction of UG Electric Supply and Communication Systems http://www.cpuc.ca.gov/gos/GO128/GO_128_Startup_page.html	W

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Organization	Description	Format/ Availability
City of Costa Mesa	Standard Drawings http://www.costamesaca.gov/index.aspx?page=1493	W
City of Fountain Valley	Standard Plans http://www.fountainvalley.org/448/City-Standard-Plans	W
City of Fountain Valley	Steel Pipe Casing Standards	E
City of Huntington Beach	Standard Plans http://www.huntingtonbeachca.gov/government/departments/public_works/standard_plans.cfm	W
City of Seal Beach	Standard Plans for Sewer Facilities	E
City of Seal Beach	Standard Plans for Streets	E
City of Seal Beach	Standard Plans for Water Facilities	E
City of Seal Beach	Pavement Repair	E
City of Westminster	Standard Requirements for Disinfection	E
City of Westminster	Index to City Standards	E
City of Westminster	VIDS, Ethernet HUB Switch, and Ethernet Intersection Switch Specifications	E
Crimson Pipeline	Pipeline Construction Requirements	E
County of Orange	Orange County Flood Control Design Manual and Policy Memos http://ocflood.com/civicax/filebank/blobdload.aspx?BlobID=26296	W
County of Orange	Orange County Hydrology Manual, including Workbook, Soil Maps and Addendum http://ocflood.com/docs/manuals	W
County of Orange	Orange County Local Drainage Manual http://ocflood.com/civicax/filebank/blobdload.aspx?BlobID=8330	W
County of Orange	Public Works Standards Plan 1405 http://ocpublicworks.com/civicax/filebank/blobdload.aspx?blobid=27411	W

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Organization	Description	Format/ Availability
County of Orange	Technical Guidance Document (TGD) For the Preparation of Conceptual/Preliminary and /or Project Water Quality Management Plans (WQMPs) http://cms.ocgov.com/civicax/filebank/blobdload.aspx?blobid=38765	W
EIA	Electronics Industries Alliance (EIA) Standards	IS
EIA/TIA	Fiber Optic Test Procedure (FTOP) Standards	IS
FGDC	Geospatial Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy https://www.fgdc.gov/standards/projects/accuracy/part3/chapter3	W
FHWA	Guidelines for Applying Microsimulation Modeling Software https://ops.fhwa.dot.gov/trafficanalysisistools/	W
FHWA	Manual on Uniform Traffic Control Devices with Revisions 1 and 2, May 2012 http://mutcd.fhwa.dot.gov/	W
FHWA	Culvert Inspection Manual FHWA-IP-86-2 http://www.dot.state.mn.us/bridge/inspection.html	W
FHWA	Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains FHWA-TS-84-204 http://www.fhwa.dot.gov/BRIDGE/wsp2339.pdf	W
FHWA	Hydraulic Design Series No. 1 Hydraulics of Bridge Waterways FHWA-EPD-86-101 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/hds1.pdf	W
FHWA	Hydraulic Design Series No. 3 Design Charts for Open-Channel Flow FHWA-EPD-86-102 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/hds3.pdf	W
FHWA	Hydraulic Design Series No. 5 Hydraulic Design of Highway Culverts FHWA-NHI-01-020 https://www.fhwa.dot.gov/engineering/hydraulics/pubs/12026/hif12026.pdf	W
FHWA	Hydraulic Design Series No. 9 Debris Control Structures Evaluation and Countermeasures FHWA-IF-04-016 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/04016/hec09.pdf	W
FHWA	Hydraulic Engineering Circular No. 13 (HEC-13), Hydraulic Design of Improved Inlets for Culverts http://www.fhwa.dot.gov/engineering/hydraulics/pubs/hec/hec13.pdf	W

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Organization	Description	Format/ Availability
FHWA	Hydraulic Engineering Circular No. 14 (HEC-14), Hydraulic Design of Energy Dissipaters for Culverts and Channels FHWA-NHI-06-086 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/06086/hec14.pdf	W
FHWA	Hydraulic Engineering Circular No. 15 (HEC-15), Design of Roadside Channels with Flexible Linings FHWA-NHI-05-114 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/05114/05114.pdf	W
FHWA	Hydraulic Engineering Circular No. 17 (HEC-17), The Design of Encroachments on Flood Plains Using Risk Analysis FHWA-EPD-86-112 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/hec/hec17.pdf	W
FHWA	Hydraulic Engineering Circular No. 18 (HEC-18), Evaluating Scour at Bridges FHWA-NHI-01-001 https://www.fhwa.dot.gov/engineering/hydraulics/pubs/hif12003.pdf	W
FHWA	Hydraulic Engineering Circular No. 21 (HEC-21), Design of Bridge Deck Drainage Systems FHWA-SA-92-010 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/hec/hec21.pdf	W
FHWA	Hydraulic Engineering Circular No. 23 (HEC-23), Bridge Scour and Stream Instability Countermeasures: Experience, Selection, and Design-Guidance FHWA-NHI-09-111 http://www.fhwa.dot.gov/engineering/hydraulics/pubs/09111/09111.pdf	W
Greenbook Committee	Standard Specifications for Public Works Construction (Greenbook), including all supplements	IS
International Society of Arboriculture (ISA)	Best Management Practices: Tree Pruning	IS
ISO/IEC	ISO/IEC15288 Systems Engineering	IS
ITE	Institute of Transportation Engineers (ITE) Standards http://www.ite.org/standards/index.asp	W
Midway City Sanitation District	Encasement	E
Midway City Sanitation District	Manhole Adjustment	E

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Organization	Description	Format/ Availability
Midway City Sanitation District	Steel Pipe Casing	E
NCHRP	Report 350 – Recommended Procedures for the Safety Performance Evaluation of Highway Features http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_350-a.pdf	W
NEMA	National Electrical Manufacturers Association (NEMA) Standards http://www.nema.org/Standards/Pages/All-Standards.aspx	W
NFPA	National Electric Code (NEC) Standards, including Listing Requirements	IS
NTCIP	National Transportation Communications for ITS Protocol (NTCIP) Standards https://www.ntcip.org/library/documents/	W
Orange County Sanitation District	OCSD Design Manual	E
State of California	State Administrative Manual - Records Management Act - Section 1600 https://www.documents.dgs.ca.gov/sam/SamPrint/new/sam_master/sam_master_file/chap1600/chap1600(print).pdf	W
State of California	CalRIM E-Records Guidebook http://archives.cdn.sos.ca.gov/pdf/calrim_e_records_guidebook_full.pdf	W
State of California	CalRIM Records Retention Handbook http://archives.cdn.sos.ca.gov/pdf/calrim-records-retention-handbook.pdf	W
State of California	Executive Order B-37-16 – Making Water Conservation a California Way of Life	E
TIA	Telecommunications Industries Association (TIA) Standards http://www.tiaonline.org/standards/	W
TRB	Highway Capacity Manual	IS
USDA	Revised Universal Soil Loss Equation 2 - RUSLE2 http://www.ars.usda.gov/Research/docs.htm?docid=6010	W
USDA	Rural Utilities Service (RUS) Specifications	IS

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<i>Organization</i>	<i>Description</i>	<i>Format/ Availability</i>
USDOT	National ITS Architecture	IS
US Military Standard (MIL)	499B Systems Engineering	IS
Verizon CA, Inc.	Developer Responsibilities	E

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Attachment 10 - Anticipated Project Timeline

Major Milestone Description	Projected Start Date	Projected End Date
Notice to Proceed	3/30/18	
Project Kickoff Meeting	April 2018	
Initial Project Planning Documentation Project Management Plan, Baseline Implementation Schedule, Software Development Plan, Document Control Work Plan, Health and Safety Plans, Quality Assurance Plan	Q2 2018	Q2 2018
I-405 Express Lanes ETTM System Infrastructure Design Requirements Document Full Requirementse Documentation and Plans Submitted	NTP	NTP + 90 day
Second Group of Planning Documentation Installation Plan, Master Test Plan, Individual Test Plans, Test Procedures, Disaster Recovery Plan, Transition Plan	Q2 2018	Q4 2018
System Design (91 EL and applicable portions 405 EL) ETTM System Installation Design Package, RSS Installation Design Documentation, Requirements Traceability Matrix, Installation Checklist, Business Rules Document and Final System Detail Design Documents	Q2 2018	Q4 2018
Third Group of Planning Documentation Maintenance Plans, Operations Plan, Emergency Response Management Plan, Training Plan, Manuals, End of Contract Transition Plan	Q4 2018	Q2 2019
System Development and Initial Testing (91 EL and applicable portions of 405 EL) AVI Certification Report (Third-Party), Software Development, Factory Acceptance Test (FAT), Unit Testing	Q3 2018	Q2 2019
Installation and Testing (91 EL) Installation of all ETTM Sites, Installation RSS, Onsite Installation Test (OIT)	Q2 2019	Q3 2019
Final Testing and Go-Live (91 EL) Installation and Commissioning Test, Data Migration (as required), Go-Live all 91 EL ETTM	Q3 2019	Q4 2019
System Operations / Acceptance for the 91 (Start of Maintenance Phase for 91 EL) As-Built Documentation and Drawings, Operational and Acceptance Testing, Decommissioning of existing 91 EL Equipment, 91 EL Acceptance	Q4 2019	Q2 2019
System Design Remaining Portions of I-405 EL) ETTM System Installation Design Package, I-405 TOC Design Requirements Document, RSS Installation Design Documentation, Requirements Traceability Matrix, Installation Checklist, Business Rules Document and Final System Detail Design Documents	Q3 2019	Q2 2021
Updates to All Planning Documentation	Q2 2021	Q1 2022
System Development and Initial Testing (Remaining portions of 405 EL) AVI Certification Report (Third-Party), Software Development, Factory Acceptance Test (FAT), Unit Testing	Q2 2021	Q1 2022
Installation and Testing (I-405 EL) Installation of all ETTM Sites, Installation RSS, Onsite Installation Test (OIT)	Q2 2022	Q4 2022 ¹
Final Testing and Go-Live (I-405 EL) Installation and Commissioning Test, Data Migration (as required), Go-Live all I-405 EL ETTM	Q4 2022	Q1 2023 ¹
System Operations / Acceptance for the 405 (Start of Maintenance Phase for I-405) As-Built Documentation and Drawings, Operational and Acceptance Testing, I-405 EL Acceptance	Q1 2023	Q3 2023 ¹
Project Acceptance		Q3 2023 ¹

1. Installation, Testing, and Acceptance of I-405 Express Lane ETTM System contingent upon Design-Builder schedule.

91 EL ETTM System Responsibility Matrix - Authority and TSI

	Toll Systems Integrator			OCTA		
	Design	Furnish	Construct/ Install	Design	Furnish	Construct/ Install
91 Express Lanes System Infrastructure						
Power						
Utility service point and connection	A	A	A	C	D	C
Coordinate with electrical utility service provider	A	A	A	C	D	C
Mainline power distribution network	A	A	A	C	D	C
All foundations (including for cabinets and generators)	A	A	A	C	D	C
All junction boxes	A	A	A	C	D	C
All trenching, bores and conduit to cabinets and from cabinets to structures	A	A	A	C	D	C
Toll system power from termination point at cabinet to tolling equipment	A	A	A	C	D	C
Uninterruptible Power Supply (UPS)	A	A	A	C	D	C
Fiber Communications						
Corridor fiber backbone	A	A	A	C	D	C
Laterals to all Roadside Equipment	A	A	A	C	D	C
Conduits and innerducts	A	A	A	C	D	C
Conduits, service cabinets, pull boxes, and pull strings	A	A	A	C	D	C
Termination of fiber in primary toll equipment cabinet	A	A	A	C	D	C
Fiber from primary toll equipment cabinet to junction boxes, specialized toll equipment cabinets and toll equipment.	A	A	A	C	D	C
Network equipment and logical connectivity from Express Lane fiber optic communications network infrastructure to Caltrans and commercial fiber	A	A	A	C	D	C
Toll Zone Gantry						
Gantry Structure	B	B	B	A	A	A
Equipment Frames, Mounts & Brackets	A	A	A	C	D	C
Tolling Equipment on Structure	A	A	A	C	D	C
Tolling CCTV Camera (if needed)	A	A	A	C	D	C
Toll Gantry Pavement Sensors	A	A	A	C	D	C
Tolling enforcement beacon	A	A	A	C	D	C
Enforcement Beacon	A	A	A	C	D	C
Smart Loop Detectors (if needed)	A	A	A	C	D	C
Structures (if necessary)						
Foundations and poles	A	A	A	C	D	C
Special poles mounted to structures or otherwise to support toll rate CCTV cameras	A	A	A	C	D	C
Cabinets and Specialized Conduits						
Primary toll equipment cabinets & foundations	A	A	A	C	D	C
Specialized toll equipment cabinets & foundations	A	A	A	C	D	C
Conduit from ground-mount or pole-mount junction boxes to toll specialized cabinet or toll equipment	A	A	A	C	D	C
Toll Collection Site Pavement						
In and below pavement conduit, junction and boxes risers	A	A	A	C	D	C

Legend
A = PRIMARY RESPONSIBILITY
B = SUPPORT RESPONSIBILITY
C = COORDINATION RESPONSIBILITY ONLY
D = NO RESPONSIBILITY
Preliminary and subject to change

San Diego Freeway (I-405) Improvement Project

Freeway Mainline, Ramps and Connectors Lane Closure Charts (LCC)



PARSONS
March 16, 2016



Freeway Mainline Segments

LANE CLOSURE CHARTS INDEX

FREEWAY MAINLINE LANE REQUIREMENTS (A) AND NIGHTLY COMPLETE CLOSURES (B)			
Chart No.	Route/Direction	PM	Closure Limits
NORTHBOUND FREEWAY SEGMENTS (From South to North)			
1	73 NB	PM: R27.3 to R27.8	Bear UC to N73-N405 Connector OC
2	405 NB	PM: 9.5 to 9.9	Bristol OC to Bear OC
3	405 NB	PM: 9.9 to 10.3	Bear OC to Junction SR-73
4	405 NB	PM: 10.3 to 10.8	Junction SR-73 to Fairview OC
5	405 NB	PM: 10.8 to 11.5	Fairview OC to Harbor UC
6	405 NB	PM: 11.5 to 12.4	Harbor UC to Euclid UC
7	405 NB	PM: 12.4 to 13.2	Euclid UC to Ward OC
8	405 NB	PM: 13.2 to 13.4	Ward OC to Talbert OC
9	405 NB	PM: 13.4 to 13.8	Talbert OC to Brookhurst OC
10	405 NB	PM: 13.8 to 14.1	Brookhurst OC to Slater OC
11	405 NB	PM: 14.1 to 14.5	Slater OC to Bushard OC
12	405 NB	PM: 14.5 to 14.8	Bushard OC to Warner OC
13	405 NB	PM: 14.8 to 15.2	Warner OC to Magnolia OC
14	405 NB	PM: 15.2 to 15.5	Magnolia OC to Heil Pedestrian OC
15	405 NB	PM: 15.5 to 15.9	Heil Pedestrian OC to Newland OC
16	405 NB	PM: 15.9 to 16.3	Newland OC to Edinger OC
17	405 NB	PM: 16.3 to 16.5	Edinger OC to Junction SR-39 / Beach UC
18	405 NB	PM: 16.5 to 17.0	Junction SR-39 / Beach UC to McFadden OC
19	405 NB	PM: 17.0 to 17.8	McFadden OC to Bolsa OC
20	405 NB	PM: 17.8 to 17.9	Bolsa OC to Goldenwest OC
21	405 NB	PM: 17.9 to 18.6	Goldenwest OC to Edwards OC
22	405 NB	PM: 18.6 to 19.2	Edwards OC to Westminster OC
23	405 NB	PM: 19.2 to 19.4	Westminster OC to Springdale OC
24	405 NB	PM: 19.4 to 20.6	Springdale OC to Bolsa Chica OC
25	405 NB	PM: 20.6 to 20.7	Bolsa Chica OC to Junction SR-22 EB
26	405 NB	PM: 20.7 to 22.6	Junction SR-22 EB to Seal Beach OC
27	405 NB	PM: 22.6 to 23.3	Seal Beach OC to Junction SR-22 WB / 7th
28	405 NB	PM: 23.3 to 24.0	Junction SR-22 WB / 7th to Junction I-605
29	405 NB	PM: 24.0 to 24.2	Junction I-605 to LA/OC County Line
30	605 NB	PM: R0.2 to R1.4	N&S605 to N405 Connector OC to Katella UC
SOUTHBOUND FREEWAY SEGMENTS (From North to South)			
50	605 SB	PM: R1.4 to R0.2	Katella UC to N&S605 to N405 Connector OC
51	405 SB	PM: 24.2 to 24.0	LA/OC County Line to Junction I-605
52	405 SB	PM: 24.0 to 23.3	Junction I-605 to Junction SR-22 WB / 7th
53	405 SB	PM: 23.3 to 22.6	Junction SR-22 WB / 7th to Seal Beach OC
54	405 SB	PM: 22.6 to 20.7	Seal Beach OC to Junction SR-22 EB
55	405 SB	PM: 20.7 to 20.6	Junction SR-22 EB to Bolsa Chica OC
56	405 SB	PM: 20.6 to 19.4	Bolsa Chica OC to Springdale OC
57	405 SB	PM: 19.4 to 19.2	Springdale OC to Westminster OC
58	405 SB	PM: 19.2 to 18.6	Westminster OC to Edwards OC
59	405 SB	PM: 18.6 to 17.9	Edwards OC to Goldenwest OC
60	405 SB	PM: 17.9 to 17.8	Goldenwest OC to Bolsa OC
61	405 SB	PM: 17.8 to 17.0	Bolsa OC to McFadden OC
62	405 SB	PM: 17.0 to 16.5	McFadden OC to Junction SR-39 / Beach UC
63	405 SB	PM: 16.5 to 16.3	Junction SR-39 / Beach UC to Edinger OC
64	405 SB	PM: 16.3 to 15.9	Edinger OC to Newland OC
65	405 SB	PM: 15.9 to 15.5	Newland OC to Heil Pedestrian OC
66	405 SB	PM: 15.5 to 15.2	Heil Pedestrian OC to Magnolia OC
67	405 SB	PM: 15.2 to 14.8	Magnolia OC to Warner OC
68	405 SB	PM: 14.8 to 14.5	Warner OC to Bushard OC
69	405 SB	PM: 14.5 to 14.1	Bushard OC to Slater OC
70	405 SB	PM: 14.1 to 13.8	Slater OC to Brookhurst OC
71	405 SB	PM: 13.8 to 13.4	Brookhurst OC to Talbert OC
72	405 SB	PM: 13.4 to 13.2	Talbert OC to Ward OC
73	405 SB	PM: 13.2 to 12.5	Ward OC to Euclid UC
74	405 SB	PM: 12.5 to 11.5	Euclid UC to Harbor UC
75	405 SB	PM: 11.5 to 10.8	Harbor UC to Fairview OC

LANE CLOSURE CHARTS INDEX

FREEWAY MAINLINE LANE REQUIREMENTS (A) AND NIGHTLY COMPLETE CLOSURES (B)			
Chart No.	Route/Direction	PM	Closure Limits
76	405 SB	PM: 10.8 to 10.3	Fairview OC to Junction SR-73
77	405 SB	PM: 10.3 to 9.9	Junction SR-73 to Bear OC
78	73 SB	PM: R27.6 to R27.3	Fairview Road On-ramp OC to Bear UC

Chart No. 1A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 73 / NB								PM: R27.3 to R27.8											
Closure Limits: Bear UC to N73-N405 Connector OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 1B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 73 / NB								PM: R27.3 to R27.8											
Closure Limits: Bear UC to N73-N405 Connector OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
<div>Legend:</div> <div><div></div></div> <div><div></div> No complete freeway closure is permitted.</div>																											
<div>REMARKS:</div>																											

Chart No. 2A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 9.5 to 9.9									
Closure Limits: Bristol OC to Bear OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 2B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB										PM: 9.5 to 9.9									
Closure Limits: Bristol OC to Bear OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
<p>Legend:</p> <div><div></div></div> <div><div></div> No complete freeway closure is permitted.</div>																											
<p>REMARKS:</p>																											

Chart No. 3A																																
Freeway Lane Requirements																																
County: Orange								Route/Direction: 405 / NB								PM: 9.9 to 10.3																
Closure Limits: Bear OC to Junction SR-73																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays								1	1	1	1	1																S	4	3	2	
Fridays								1	1	1	1	1																S	4	3	2	
Saturdays								1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																																
REMARKS:																																

Chart No. 3B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB										PM: 9.9 to 10.3									
Closure Limits: Bear OC to Junction SR-73																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
<p>Legend:</p> <div><div></div></div> <div><div></div> No complete freeway closure is permitted.</div>																											
<p>REMARKS:</p>																											

Chart No. 4A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB								PM: 10.3 to 10.8											
Closure Limits: Junction SR-73 to Fairview OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 4B Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB												PM: 10.3 to 10.8								
Closure Limits: Junction SR-73 to Fairview OC																												
<div style="display: flex; justify-content: space-between;"> FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 </div>																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C																C
Saturdays								C	C	C	C	C	C															C
Sundays								C	C	C	C	C	C															C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																												
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Chart No. 5A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 10.8 to 11.5									
Closure Limits: Fairview OC to Harbor UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 5B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB										PM: 10.8 to 11.5									
Closure Limits: Fairview OC to Harbor UC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
REMARKS: (1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure. (2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.																											

Chart No. 6A																															
Freeway Lane Requirements																															
County: Orange								Route/Direction: 405 / NB										PM: 11.5 to 12.4													
Closure Limits: Harbor UC to Euclid UC																															
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																															
Mondays through Thursdays								1	1	1	1	1															S	4	3	2	
Fridays								1	1	1	1	1														S	4	3	2		
Saturdays								2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																															
REMARKS:																															

Chart No. 6B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB										PM: 11.5 to 12.4									
Closure Limits: Harbor UC to Euclid UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	

Legend:

☐ C Freeway may be closed completely.

☐ No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 7A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 12.4 to 13.2									
Closure Limits: Euclid UC to Ward OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 7B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 12.4 to 13.2							
Closure Limits: Euclid UC to Ward OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 8A																										
Freeway Lane Requirements																										
County: Orange						Route/Direction: 405 / NB										PM: 13.2 to 13.4										
Closure Limits: Ward OC to Talbert OC																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																S	4	3	2	
Fridays		1	1	1	1	1																S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																										
REMARKS:																										

Chart No. 8B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 13.2 to 13.4							
Closure Limits: Ward OC to Talbert OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	

Legend:

C

Freeway may be closed completely.

No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 9A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 13.4 to 13.8									
Closure Limits: Talbert OC to Brookhurst OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 9B																										
Complete Freeway Closure Hours - Nightly																										
County: Orange						Route/Direction: 405 / NB										PM: 13.4 to 13.8										
Closure Limits: Talbert OC to Brookhurst OC																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		C	C	C	C	C																				C
Fridays		C	C	C	C	C																				C
Saturdays		C	C	C	C	C	C																			C
Sundays		C	C	C	C	C	C																			C

Legend:

☐ C Freeway may be closed completely.

☐ No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 10A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 13.8 to 14.1									
Closure Limits: Brookhurst OC to Slater OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 10B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 13.8 to 14.1							
Closure Limits: Brookhurst OC to Slater OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
REMARKS: (1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure. (2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.																											

Chart No. 11A																																
Freeway Lane Requirements																																
County: Orange								Route/Direction: 405 / NB								PM: 14.1 to 14.5																
Closure Limits: Slater OC to Bushard OC																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays								1	1	1	1	1															S	4	3	2		
Fridays								1	1	1	1	1														S	4	3	2			
Saturdays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																																
REMARKS:																																

Chart No. 11B Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB												PM: 14.1 to 14.5								
Closure Limits: Slater OC to Bushard OC																												
<div style="display: flex; justify-content: space-between;"> FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 </div>																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C																C
Saturdays								C	C	C	C	C	C															C
Sundays								C	C	C	C	C	C															C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																												
<p>REMARKS:</p> <p>(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.</p> <p>(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.</p>																												

Chart No. 12A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 14.5 to 14.8									
Closure Limits: Bushard OC to Warner OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 12B Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB												PM: 14.5 to 14.8								
Closure Limits: Bushard OC to Warner OC																												
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays		C	C	C	C	C																					C	
Fridays		C	C	C	C	C																						C
Saturdays		C	C	C	C	C	C																					C
Sundays		C	C	C	C	C	C																					C

Legend:

C

Freeway may be closed completely.

No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 13A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB								PM: 14.8 to 15.2											
Closure Limits: Warner OC to Magnolia OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 13B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 14.8 to 15.2							
Closure Limits: Warner OC to Magnolia OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	

Legend:

C

Freeway may be closed completely.

No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 14A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 15.2 to 15.5									
Closure Limits: Magnolia OC to Heil Pedestrian OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 14B Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB												PM: 15.2 to 15.5								
Closure Limits: Magnolia OC to Heil Pedestrian OC																												
<div style="display: flex; justify-content: space-between;"> FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 </div>																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C																C
Saturdays								C	C	C	C	C	C															C
Sundays								C	C	C	C	C	C															C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																												
<p>REMARKS:</p> <p>(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.</p> <p>(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.</p>																												

Chart No. 15A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 15.5 to 15.9									
Closure Limits: Heil Pedestrian OC to Newland OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 15B																													
Complete Freeway Closure Hours - Nightly																													
County: Orange								Route/Direction: 405 / NB										PM: 15.5 to 15.9											
Closure Limits: Heil Pedestrian OC to Newland OC																													
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays								C	C	C	C	C																	C
Fridays								C	C	C	C	C																	C
Saturdays								C	C	C	C	C	C																C
Sundays								C	C	C	C	C	C																C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																													
<p>REMARKS:</p> <p>(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.</p> <p>(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.</p>																													

Chart No. 16A																																
Freeway Lane Requirements																																
County: Orange								Route/Direction: 405 / NB								PM: 15.9 to 16.3																
Closure Limits: Newland OC to Edinger OC																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays								1	1	1	1	1																S	4	3	2	
Fridays								1	1	1	1	1																S	4	3	2	
Saturdays								1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																																
REMARKS:																																

Chart No. 16B																													
Complete Freeway Closure Hours - Nightly																													
County: Orange								Route/Direction: 405 / NB										PM: 15.9 to 16.3											
Closure Limits: Newland OC to Edinger OC																													
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays								C	C	C	C	C																	C
Fridays								C	C	C	C	C																	C
Saturdays								C	C	C	C	C	C																C
Sundays								C	C	C	C	C	C																C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																													
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Chart No. 17A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 16.3 to 16.5									
Closure Limits: Edinger OC to Junction SR-39/Beach UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 17B																												
Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB										PM: 16.3 to 16.5										
Closure Limits: Edinger OC to Junction SR-39/Beach UC																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C															C	
Saturdays								C	C	C	C	C	C														C	
Sundays								C	C	C	C	C	C														C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																												
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Chart No. 18A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB								PM: 16.5 to 17.0											
Closure Limits: Junction SR-39/Beach UC to McFadden OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 18B																												
Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB										PM: 16.5 to 17.0										
Closure Limits: Junction SR-39/Beach UC to McFadden OC																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C															C	
Saturdays								C	C	C	C	C	C														C	
Sundays								C	C	C	C	C	C														C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																												
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Chart No. 19A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 17.0 to 17.8									
Closure Limits: McFadden OC to Bolsa OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 19B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 17.0 to 17.8							
Closure Limits: McFadden OC to Bolsa OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 20A																															
Freeway Lane Requirements																															
County: Orange								Route/Direction: 405 / NB										PM: 17.8 to 17.9													
Closure Limits: Bolsa OC to Goldenwest OC																															
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																															
Mondays through Thursdays								1	1	1	1	2															S	4	3	2	
Fridays								1	1	1	1	2															S	4	3	2	
Saturdays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																															
REMARKS:																															

Chart No. 20B																													
Complete Freeway Closure Hours - Nightly																													
County: Orange								Route/Direction: 405 / NB										PM: 17.8 to 17.9											
Closure Limits: Bolsa OC to Goldenwest OC																													
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays								C	C	C	C	C																	C
Fridays								C	C	C	C	C																C	
Saturdays								C	C	C	C	C	C															C	
Sundays								C	C	C	C	C	C															C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																													
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Chart No. 21A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 17.9 to 18.6									
Closure Limits: Goldenwest OC to Edwards OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 21B																												
Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB										PM: 17.9 to 18.6										
Closure Limits: Goldenwest OC to Edwards OC																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C															C	
Saturdays								C	C	C	C	C	C														C	
Sundays								C	C	C	C	C	C														C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																												
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Chart No. 22A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 18.6 to 19.2									
Closure Limits: Edwards OC to Westminster OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3		
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 22B																													
Complete Freeway Closure Hours - Nightly																													
County: Orange								Route/Direction: 405 / NB										PM: 18.6 to 19.2											
Closure Limits: Edwards OC to Westminster OC																													
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays								C	C	C	C	C																	C
Fridays								C	C	C	C	C																	C
Saturdays								C	C	C	C	C	C																C
Sundays								C	C	C	C	C	C																C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																													
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Chart No. 23A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 19.2 to 19.4									
Closure Limits: Westminster OC to Springdale OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 23B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 19.2 to 19.4							
Closure Limits: Westminster OC to Springdale OC																											
<div style="display: flex; justify-content: space-between;"> FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 </div>																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																											
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Chart No. 24A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB								PM: 19.4 to 20.6											
Closure Limits: Springdale OC to Bolsa Chica OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 24B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB										PM: 19.4 to 20.6									
Closure Limits: Springdale OC to Bolsa Chica OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 25A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB								PM: 20.6 to 20.7											
Closure Limits: Bolsa Chica OC to Junction SR-22 WB																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 25B Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / NB												PM: 20.6 to 20.7								
Closure Limits: Bolsa Chica OC to Junction SR-22 WB																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C																C
Saturdays								C	C	C	C	C	C															C
Sundays								C	C	C	C	C	C															C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																												
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Chart No. 26A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 20.7 to 22.6									
Closure Limits: Junction SR-22 WB to Seal Beach OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	2	2	2	3																	S	5	4	3	
Fridays		2	2	2	2	3																	S	5	4	3	
Saturdays		2	2	2	2	3	3	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
Sundays		2	2	2	2	3	3	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 26B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 20.7 to 22.6							
Closure Limits: Junction SR-22 WB to Seal Beach OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="border: 1px solid black; width: 30px; height: 15px; margin-bottom: 10px;"></div> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block; vertical-align: middle;"></div> No complete freeway closure is permitted.																											
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Chart No. 27A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 22.6 to 23.3									
Closure Limits: Seal Beach OC to Junction SR-22 WB/7th																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	2	2	2	2																	S	5	4	2	
Fridays		2	2	2	2	2																	S	5	4	3	
Saturdays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
Sundays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 27B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 22.6 to 23.3							
Closure Limits: Seal Beach OC to Junction SR-22 WB/7th																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="border: 1px solid black; width: 30px; height: 15px; margin-bottom: 10px;"></div> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block; vertical-align: middle;"></div> No complete freeway closure is permitted.																											
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Chart No. 28A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 23.3 to 24.0									
Closure Limits: Junction SR-22 WB/7th to Junction I-605																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	1	1	1	2																	S	4	3	2	
Fridays		2	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 28B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 23.3 to 24.0							
Closure Limits: Junction SR-22 WB/7th to Junction I-605																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="margin-bottom: 10px;"> <input style="width: 20px; height: 10px; border: 1px solid black;" type="checkbox"/> </div> <div> <input style="width: 20px; height: 10px; border: 1px solid black;" type="checkbox"/> No complete freeway closure is permitted. </div>																											
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Chart No. 29A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / NB										PM: 24.0 to 24.2									
Closure Limits: Junction I-605 to LA/OC County Line																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	1	1	1	2																	S	4	3	2	
Fridays		2	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 29B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / NB												PM: 24.0 to 24.2							
Closure Limits: Junction I-605 to LA/OC County Line																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="border: 1px solid black; width: 30px; height: 15px; margin-bottom: 10px;"></div> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block; vertical-align: middle;"></div> No complete freeway closure is permitted.																											
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Chart No. 30A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 605 / NB								PM: R0.2 to R1.4											
Closure Limits: N&S605-N405 Connector OC to Katella UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	1	1	1	1																	S	4	3	2	
Fridays		2	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 30B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 605 / NB										PM: R0.2 to R1.4									
Closure Limits: N&S605-N405 Connector OC to Katella UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="margin-bottom: 10px;"> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div> </div> <div> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div> No complete freeway closure is permitted. </div>																											
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Chart No. 50A																										
Freeway Lane Requirements																										
County: Orange						Route/Direction: 605 / SB										PM: R1.4 to R0.2										
Closure Limits: Katella UC to N&S605-N405 Connector OC																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		2	1	1	1	1																	S	4	3	2
Fridays		2	1	1	1	1																	S	4	3	2
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																										
REMARKS:																										

Chart No. 50B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 605 / SB								PM: R1.4 to R0.2											
Closure Limits: Katella UC to N&S605-N405 Connector OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
<div>Legend:</div> <div><div></div></div> <div><div></div> No complete freeway closure is permitted.</div>																											
<div>REMARKS:</div>																											

Chart No. 51A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 24.2 to 24.0									
Closure Limits: LA/OC County Line to Junction I-605																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	1	1	1	2																	S	4	3	2	
Fridays		2	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 51B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 24.2 to 24.0							
Closure Limits: LA/OC County Line to Junction I-605																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
<p>Legend:</p> <div><div></div></div> <div><div></div> No complete freeway closure is permitted.</div>																											
<p>REMARKS:</p>																											

Chart No. 52A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 24.0 to 23.3									
Closure Limits: Junction I-605 to Junction SR-22 WB/7th																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	2	2	2	2																	S	4	3	2	
Fridays		2	2	2	2	2																	S	4	3	2	
Saturdays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 52B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 24.0 to 23.3							
Closure Limits: Junction I-605 to Junction SR-22 WB/7th																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="border: 1px solid black; width: 30px; height: 15px; margin-bottom: 10px;"></div> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block; vertical-align: middle;"></div> No complete freeway closure is permitted.																											
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Chart No. 53A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 23.3 to 22.6											
Closure Limits: Junction SR-22 WB/7th to Seal Beach OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	2	2	2	2																	S	5	4	2	
Fridays		2	2	2	2	2																	S	5	4	2	
Saturdays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
Sundays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 53B Complete Freeway Closure Hours - Nightly																										
County: Orange						Route/Direction: 405 / SB										PM: 23.3 to 22.6										
Closure Limits: Junction SR-22 WB/7th to Seal Beach OC																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays																										
Fridays																										
Saturdays																										
Sundays																										
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; margin-right: 5px;"></div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; margin-right: 5px;"></div> <p>No complete freeway closure is permitted.</p> </div>																										
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Chart No. 54A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 22.6 to 20.7											
Closure Limits: Seal Beach OC to Junction SR-22 EB																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		2	2	2	2	2																	S	5	4	3	
Fridays		2	2	2	2	2																	S	5	4	3	
Saturdays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
Sundays		2	2	2	2	2	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	5	4	3	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 54B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 22.6 to 20.7							
Closure Limits: Seal Beach OC to Junction SR-22 EB																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
Legend: <div style="border: 1px solid black; width: 30px; height: 15px; margin-bottom: 10px;"></div> <div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block; vertical-align: middle;"></div> No complete freeway closure is permitted.																											
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Chart No. 55A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 20.7 to 20.6									
Closure Limits: Junction SR-22 EB to Bolsa Chica OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 55B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 20.7 to 20.6							
Closure Limits: Junction SR-22 EB to Bolsa Chica OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 56A																																
Freeway Lane Requirements																																
County: Orange								Route/Direction: 405 / SB								PM: 20.6 to 19.4																
Closure Limits: Bolsa Chica OC to Springdale OC																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays								1	1	1	1	1																S	4	3	2	
Fridays								1	1	1	1	1															S	4	3	2		
Saturdays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																																
REMARKS:																																

Chart No. 56B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB										PM: 20.6 to 19.4									
Closure Limits: Bolsa Chica OC to Springdale OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
<p>REMARKS:</p> <p>(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.</p> <p>(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.</p>																											

Chart No. 57A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 19.4 to 19.2											
Closure Limits: Springdale OC to Westminster OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
Sundays		1	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 57B																												
Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / SB										PM: 19.4 to 19.2										
Closure Limits: Springdale OC to Westminster OC																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C															C	
Saturdays								C	C	C	C	C	C														C	
Sundays								C	C	C	C	C	C														C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																												
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Chart No. 58A																															
Freeway Lane Requirements																															
County: Orange								Route/Direction: 405 / SB								PM: 19.2 to 18.6															
Closure Limits: Westminster OC to Edwards OC																															
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																															
Mondays through Thursdays								1	1	1	1	1															S	4	3	2	
Fridays								1	1	1	1	1														S	4	3	2		
Saturdays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																															
REMARKS:																															

Chart No. 58B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 19.2 to 18.6							
Closure Limits: Westminster OC to Edwards OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 59A Freeway Lane Requirements																																
County: Orange								Route/Direction: 405 / SB								PM: 18.6 to 17.9																
Closure Limits: Edwards OC to Goldenwest OC																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays								1	1	1	1	1															S	4	3	2		
Fridays								1	1	1	1	1															S	4	3	2		
Saturdays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																																
REMARKS:																																

Chart No. 59B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 18.6 to 17.9							
Closure Limits: Edwards OC to Goldenwest OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 60A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 17.9 to 17.8											
Closure Limits: Goldenwest OC to Bolsa OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 60B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 17.9 to 17.8							
Closure Limits: Goldenwest OC to Bolsa OC																											
<div style="display: flex; justify-content: space-between;"> FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 </div>																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																											
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Chart No. 61A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 17.8 to 17.0									
Closure Limits: Bolsa OC to McFadden OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 61B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 17.8 to 17.0							
Closure Limits: Bolsa OC to McFadden OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 62A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 17.0 to 16.5											
Closure Limits: McFadden OC to Junction SR-39/Beach UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																S	4	3	2		
Fridays		1	1	1	1	1																S	4	3	2		
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 62B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB										PM: 17.0 to 16.5									
Closure Limits: McFadden OC to Junction SR-39/Beach UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																											
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Chart No. 63A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 16.5 to 16.3											
Closure Limits: Junction SR-39/Beach UC to Edinger OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	1																	S	4	3	2	
Fridays		1	1	1	1	1																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 63B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 16.5 to 16.3							
Closure Limits: Junction SR-39/Beach UC to Edinger OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 64A																															
Freeway Lane Requirements																															
County: Orange								Route/Direction: 405 / SB								PM: 16.3 to 15.9															
Closure Limits: Edinger OC to Newland OC																															
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																															
Mondays through Thursdays								1	1	1	1	1															S	4	3	2	
Fridays								1	1	1	1	1														S	4	3	2		
Saturdays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
Sundays								2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																															
REMARKS:																															

Chart No. 64B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 16.3 to 15.9							
Closure Limits: Edinger OC to Newland OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 65A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 15.9 to 15.5									
Closure Limits: Newland OC to Heil Pedestrian OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 65B Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / SB												PM: 15.9 to 15.5								
Closure Limits: Newland OC to Heil Pedestrian OC																												
<div style="display: flex; justify-content: space-between;"> FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 </div>																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C																C
Saturdays								C	C	C	C	C	C															C
Sundays								C	C	C	C	C	C															C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Freeway may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> No complete freeway closure is permitted. </div>																												
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Chart No. 66A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 15.5 to 15.2											
Closure Limits: Heil Pedestrian OC to Magnolia OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 66B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 15.5 to 15.2							
Closure Limits: Heil Pedestrian OC to Magnolia OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 67A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 15.2 to 14.8											
Closure Limits: Magnolia OC to Warner OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 67B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 15.2 to 14.8							
Closure Limits: Magnolia OC to Warner OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 68A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 14.8 to 14.5											
Closure Limits: Warner OC to Bushard OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center; line-height: 10px;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 68B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange							Route/Direction: 405 / SB										PM: 14.8 to 14.5										
Closure Limits: Warner OC to Bushard OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	

Legend:

C Freeway may be closed completely.

No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 69A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 14.5 to 14.1									
Closure Limits: Bushard OC to Slater OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 69B																												
Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / SB										PM: 14.5 to 14.1										
Closure Limits: Bushard OC to Slater OC																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C															C	
Saturdays								C	C	C	C	C	C														C	
Sundays								C	C	C	C	C	C														C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																												
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Chart No. 70A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 14.1 to 13.8											
Closure Limits: Slater OC to Brookhurst OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	2	3	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 70B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 14.1 to 13.8							
Closure Limits: Slater OC to Brookhurst OC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 71A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 13.8 to 13.4											
Closure Limits: Brookhurst OC to Talbert OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 71B																										
Complete Freeway Closure Hours - Nightly																										
County: Orange						Route/Direction: 405 / SB										PM: 13.8 to 13.4										
Closure Limits: Brookhurst OC to Talbert OC																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		C	C	C	C	C																				C
Fridays		C	C	C	C	C																				C
Saturdays		C	C	C	C	C	C																			C
Sundays		C	C	C	C	C	C																			C

Legend:

☐ C Freeway may be closed completely.

☐ No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 72A Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 13.4 to 13.2											
Closure Limits: Talbert OC to Ward OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																S	4	3	2		
Fridays		1	1	1	1	2																S	4	3	2		
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3		
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 72B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 13.4 to 13.2							
Closure Limits: Talbert OC to Ward OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	

Legend:

C

Freeway may be closed completely.

No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 73A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB										PM: 13.2 to 12.5									
Closure Limits: Ward OC to Euclid UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
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REMARKS:																											

Chart No. 73B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 13.2 to 12.5							
Closure Limits: Ward OC to Euclid UC																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays								C	C	C	C	C															C
Fridays								C	C	C	C	C															C
Saturdays								C	C	C	C	C	C														C
Sundays								C	C	C	C	C	C														C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Chart No. 74A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 12.5 to 11.5											
Closure Limits: Euclid UC to Harbor UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																S	4	3	2		
Fridays		1	1	1	1	2																S	4	3	3		
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3		
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2		
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">1</div> Provide at least one through freeway lane open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">2</div> Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">3</div> Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">4</div> Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div><div style="border: 1px solid black; width: 20px; height: 10px; display: inline-block; text-align: center;">S</div> Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 74B																												
Complete Freeway Closure Hours - Nightly																												
County: Orange								Route/Direction: 405 / SB										PM: 12.5 to 11.5										
Closure Limits: Euclid UC to Harbor UC																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays								C	C	C	C	C																C
Fridays								C	C	C	C	C															C	
Saturdays								C	C	C	C	C	C														C	
Sundays								C	C	C	C	C	C														C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																												
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Chart No. 75A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 11.5 to 10.8											
Closure Limits: Harbor UC to Fairview OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	3	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through freeway lane open in direction of travel.</div> <div>2 Provide at least two adjacent through freeway lanes open in direction of travel.</div> <div>3 Provide at least three adjacent through freeway lanes open in direction of travel.</div> <div>4 Provide at least four adjacent through freeway lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																											
REMARKS:																											

Chart No. 75B Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 11.5 to 10.8							
Closure Limits: Harbor UC to Fairview OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	

Legend:

C

Freeway may be closed completely.

No complete freeway closure is permitted.

REMARKS:

(1) Provide detour route and coordinate with Caltrans regarding other mainline segment closures in conjunction with this nightly closure.

(2) Nightly complete freeway closure in one or both directions may be allowed as necessary for safety of motorists during bridge demolitions, falsework set-up/removals, bridge deck installations, and lifting of pile cages greater than 100 feet in length. Nightly complete freeway closures are allowed within the hours shown above in the chart. For hours beyond the hours shown above, submit a request in writing, along with proposed detour plans, supporting traffic analysis and revised TMP to the Authority, Caltrans and affected Corridor Cities for review and approval.

Chart No. 76A																															
Freeway Lane Requirements																															
County: Orange								Route/Direction: 405 / SB								PM: 10.8 to 10.3															
Closure Limits: Fairview OC to Junction SR-73																															
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																															
Mondays through Thursdays								1	1	1	1	2															S	4	3	2	
Fridays								1	1	1	1	2														S	4	3	2		
Saturdays								2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3
Sundays								2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2
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REMARKS:																															

Chart No. 76B																										
Complete Freeway Closure Hours - Nightly																										
County: Orange						Route/Direction: 405 / SB										PM: 10.8 to 10.3										
Closure Limits: Fairview OC to Junction SR-73																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		C	C	C	C	C																				C
Fridays		C	C	C	C	C																				C
Saturdays		C	C	C	C	C	C																			C
Sundays		C	C	C	C	C	C																			C
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																										
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Chart No. 77A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 405 / SB								PM: 10.3 to 9.9											
Closure Limits: Junction SR-73 to Bear OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																	S	4	3	2	
Fridays		1	1	1	1	2																	S	4	3	2	
Saturdays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	3	
Sundays		2	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
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REMARKS:																											

Chart No. 77B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 10.3 to 9.9							
Closure Limits: Junction SR-73 to Bear OC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																											
Fridays																											
Saturdays																											
Sundays																											
<p>Legend:</p> <div><div></div></div> <div><div></div> No complete freeway closure is permitted.</div>																											
<p>REMARKS:</p>																											

Chart No. 78A																											
Freeway Lane Requirements																											
County: Orange								Route/Direction: 73 / SB								PM: R27.6 to R27.3											
Closure Limits: Fairview Road On-ramp OC to Bear UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		1	1	1	1	2																S	4	3	2		
Fridays		1	1	1	1	2																S	4	3	2		
Saturdays		1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
Sundays		1	1	1	1	1	2	3	4	S	S	S	S	S	S	S	S	S	S	S	S	S	S	4	3	2	
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REMARKS:																											

Chart No. 78B																											
Complete Freeway Closure Hours - Nightly																											
County: Orange								Route/Direction: 73 / SB								PM: R27.6 to R27.3											
Closure Limits: Fairview Road On-ramp OC to Bear UC																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C																				C	
Fridays		C	C	C	C	C																				C	
Saturdays		C	C	C	C	C	C																			C	
Sundays		C	C	C	C	C	C																			C	
<p>Legend:</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Freeway may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>No complete freeway closure is permitted.</div> </div>																											
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Freeway Ramps and Connectors

LANE CLOSURE CHARTS INDEX

FREEWAY RAMPS AND CONNECTORS

NIGHTLY CLOSURES (A), SHORT/LONG TERM CLOSURES (B) AND LANE REQUIREMENTS (C)

Chart No.	Direction	Closure Limits	Post Mile	Type A	Type B (Nightly)	Type C (10/30 days)
NORTHBOUND RAMPS (From South to North)						
100	73 NB	On-Ramp from Bear	R27.435		10pm	
101	73 NB	Off-Ramp to Fairview	R27.741		10pm	
102	73-405 NB	NB SR-73 to NB I-405 Connector (Upstream from Susan/Harbor Exit)	R27.741	Lane Requirements	11pm	
103	405 NB	Loop On-Ramp from NB Bristol	9.470		10pm	
104	405 NB	Direct On-Ramp from SB Bristol	9.663		10pm	
105	405 NB	Off-Ramp to South Coast/Fairview/Susan/Harbor CD Road	10.036		11pm	
106	405 NB CD	Off-Ramp to South Coast	10.270		10pm	Long Term
107	405 NB CD	Off-Ramp to Fairview	10.481		10pm	Long Term
108	405 NB CD	Off-Ramp to Susan	11.045		10pm	Short Term
109	405 NB CD	Off-Ramp to Harbor	11.268		10pm	
110	73-405 NB	NB SR-73 to NB I-405 Connector (Downstream from Susan/Harbor Exit)	10.513	Lane Requirements	11pm	
111	405 NB	On-Ramp from Fairview	10.928		10pm	Long Term
112	405 NB	Loop On-Ramp from NB Harbor	11.438		10pm	Long Term
113	405 NB	On-Ramp from Hyland	11.959		10pm	Short Term
114	405 NB	Off-Ramp to Euclid	12.640		11pm	Short Term
115	405 NB	On-Ramp from Euclid	12.873		10pm	Short Term
116	405 NB	Off-Ramp to Brookhurst CD Road	13.543		10pm	
117	405 NB CD	Off-Ramp to NB Brookhurst	13.548		10pm	Short Term
118	405 NB CD	Loop On-Ramp from NB Brookhurst	13.745		10pm	Short Term
119	405 NB CD	Loop Off-Ramp to SB Brookhurst	13.905		10pm	
120	405 NB CD	On-Ramp from SB Brookhurst	13.979		10pm	Short Term
121	405 NB	On-Ramp from Brookhurst CD Road	14.057		10pm	
122	405 NB	Off-Ramp to Warner/Magnolia CD Road	14.704		10pm	
123	405 NB CD	Loop Off-Ramp to WB Warner	14.819		10pm	Short Term
124	405 NB CD	On-Ramp from WB Warner	14.882		10pm	Short Term
125	405 NB CD	Off-Ramp to NB Magnolia	15.076		10pm	Short Term
126	405 NB CD	Loop On-Ramp from NB Magnolia	15.174		10pm	Short Term
127	405 NB CD	On-Ramp from SB Magnolia	15.419		10pm	Short Term
128	405 NB	On-Ramp from Magnolia/Warner CD Road	15.509		10pm	
129	405 NB	Off-Ramp to Beach CD Road	16.209		11pm	
130	405 NB CD	Off-Ramp to NB Beach	16.383		11pm	Short Term
131	405 NB CD	Loop On-Ramp from NB Beach	16.508		11pm	Short Term
132	405 NB CD	Loop Off-Ramp to SB Beach	16.675		11pm	
133	405 NB CD	On-Ramp from SB Beach	16.798		11pm	Short Term
134	405 NB	On-Ramp from Beach CD Road	16.871		11pm	
135	405 NB	Loop Off-Ramp to WB Bolsa	17.696		10pm	Short Term
136	405 NB	Loop On-Ramp from NB Goldenwest	17.935		10pm	Short Term

LANE CLOSURE CHARTS INDEX

FREEWAY RAMPS AND CONNECTORS

NIGHTLY CLOSURES (A), SHORT/LONG TERM CLOSURES (B) AND LANE REQUIREMENTS (C)

Chart No.	Direction	Closure Limits	Post Mile	Type A	Type B (Nightly)	Type C (10/30 days)
137	405 NB	Off-Ramp to Westminster CD Road	18.789		10pm	
138	405 NB CD	Off-Ramp to Westminster	18.902		10pm	
139	405 NB CD	Loop Off-Ramp to WB Westminster	18.903		10pm	Short Term
140	405 NB	On-Ramp from Westminster	19.290		10pm	Short Term
141	405 NB	Off-Ramp to Bolsa Chica	20.277		10pm	Short Term
142	22-405 NB	WB SR-22 GP to NB I-405 GP Connector	20.910	Lane Requirements	11pm	
143	22-405 NB	WB SR-22 HOV to NB I-405 HOV Connector	21.167		11pm	
144	405 NB	Off-Ramp to Seal Beach	22.386		11pm	Short Term
145	405 NB	Loop On-Ramp from Seal Beach	22.558		10pm	
146	405-22 NB	NB I-405 to WB SR-22 Connector/7th	23.036		10pm	
147	405-605 NB	NB I-405 GP to NB I-605 GP Connector	23.828	Lane Requirements	12am	
148	405-605 NB	NB I-405 HOV to NB I-605 HOV Connector	23.376		11pm	
149	22 WB	On-Ramp from Old Ranch	23.036		10pm	Short Term
SOUTHBOUND RAMPS (From North to South)						
200	605-405 SB	SB I-605 GP to SB I-405 GP Connector	23.550	Lane Requirements	12am	
201	22-405 SB	EB SR-22 to SB I-405 Connector	23.179		11pm	
202	605-405 SB	SB I-605 HOV to SB I-405 HOV Connector	23.345		11pm	
203	405 SB	Off-Ramp to Seal Beach	22.705		10pm	Long Term
204	405 SB	On-Ramp from Seal Beach	22.518		10pm	Short Term
205	405 SB-22EB	SB I-405 GP to EB SR-22 GP Connector	21.107	Lane Requirements	11pm	
206	405 SB-22EB	SB I-405 HOV to EB SR-22 HOV Connector	21.154		10pm	
207	405 SB	Off-Ramp to SB Bolsa Chica	20.851		10pm	
208	405 SB	Loop On-Ramp from SB Bolsa Chica	20.511		10pm	Short Term
209	405 SB	Off-Ramp to Springdale/Westminster CD Road	19.528		10pm	
210	405 SB CD	Off-Ramp to Springdale	19.414		10pm	Short Term
211	405 SB CD	Loop Off-Ramp to EB Westminster	19.415		10pm	Short Term
212	405 SB	On-Ramp from Westminster	19.012		10pm	Long Term
213	405 SB	Off-Ramp to Goldenwest/Bolsa CD Road	18.028		10pm	
214	405 SB CD	Off-Ramp to Goldenwest/Westminster Mall	17.937		10pm	Short Term
215	405 SB CD	Loop On-Ramp from SB Goldenwest/Westminster Mall	17.988		10pm	Short Term
216	405 SB CD	Loop Off-Ramp to EB Bolsa	17.728		10pm	Short Term
217	405 SB CD	On-Ramp from EB Bolsa	17.630		10pm	Long Term
218	405 SB	On-Ramp from Bolsa/Goldenwest CD Road	17.554		10pm	
219	405 SB	Off-Ramp to Beach CD Road	16.810		10pm	
220	405 SB CD	Off-Ramp to Beach/Center	16.714		10pm	
221	405 SB CD	Loop On-Ramp from SB Beach/Center	16.595		10pm	Short Term
222	405 SB CD	Loop Off-Ramp to NB Beach	16.467		10pm	
223	405 SB	On-Ramp from Beach CD Road	16.412		10pm	

LANE CLOSURE CHARTS INDEX

FREEWAY RAMPS AND CONNECTORS

NIGHTLY CLOSURES (A), SHORT/LONG TERM CLOSURES (B) AND LANE REQUIREMENTS (C)

Chart No.	Direction	Closure Limits	Post Mile	Type A	Type B (Nightly)	Type C (10/30 days)
224	405 SB	On-Ramp from EB Edinger	16.208		10pm	Short Term
225	405 SB	Off-Ramp to Magnolia	15.364		10pm	Long Term
226	405 SB	Loop On-Ramp from SB Magnolia	15.135		10pm	Short Term
227	405 SB	Loop Off-Ramp to EB Warner	14.848		10pm	Short Term
228	405 SB	On-Ramp from EB Warner	14.698		10pm	Long Term
229	405 SB	Off-Ramp to Brookhurst CD Road	14.014		10pm	
230	405 SB CD	Off-Ramp to SB Brookhurst	13.901		10pm	Short Term
231	405 SB CD	Loop On-Ramp from SB Brookhurst	13.814		10pm	Short Term
232	405 SB CD	Loop Off-Ramp to NB Brookhurst	13.670		10pm	
233	405 SB	On-Ramp from Brookhurst CD Road	13.626		10pm	
234	405 SB	On-Ramp from EB Talbert	13.356		10pm	Long Term
235	405 SB	Off-Ramp to Euclid	12.707		10pm	Short Term
236	405 SB	Loop On-Ramp from Euclid	12.554		10pm	Short Term
237	405 SB	Off-Ramp to Harbor	11.675		10pm	Short Term
238	405 SB	Loop On-Ramp from SB Harbor	11.495		10pm	Short Term
239	405 SB	On-Ramp from NB Harbor	11.292		10pm	Long Term
240	405 SB	Off-Ramp to Fairview	10.933		10pm	Long Term
241	405-73 SB	SB I-405 to SB SR-73 Connector	10.508	Lane Requirements	10pm	
242	405 SB	On-Ramp from Fairview	10.187		10pm	Short Term
243	405 SB	Off-Ramp to Bristol	9.745		10pm	
244	73 SB	On-Ramp from Fairview	R27.728		10pm	Short Term
245	73 SB	Off-Ramp to Bear	R27.416		10pm	

LEGEND:

10pm Nightly Closures: 10pm-5am Weekdays. 10pm-6am or 7am Weekends.
11pm Nightly Closures: 11pm-5am Weekdays. 11pm-6am or 7am Weekends.
12Am Nightly Closures: 12Am-5am Weekdays. 12am-6am or 7am Weekends.
Short Term - 24-Hrs Complete closure for up to 10 days
Long Term - 24-Hrs Complete closure for up to 30 days.

Chart No. 100B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 73 / NB												PM: R27.435												
Closure Limits: On-Ramp from Bear																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 101B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 73 / NB												PM: R27.741												
Closure Limits: Off-Ramp to Fairview																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 102A																										
Connector Lane Requirements																										
County: Orange						Route/Direction: 73-405 / NB										PM: R27.7 to 11.3										
Closure Limits: NB I-405 Connector (Upstream from Susan/Harbor Exit)																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																				1
Fridays		1	1	1	1	1																				1
Saturdays		1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1
Sundays		1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1
<p>Legend:</p> <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; margin-right: 5px;"></div> <div>Work permitted within project right of way where shoulder or lane closure is not required.</div> </div> <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; text-align: center; margin-right: 5px;">1</div> <div>Provide at least one through connector lane open in direction of travel.</div> </div> <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; text-align: center; margin-right: 5px;">2</div> <div>Provide at least two adjacent through connector lanes open in direction of travel.</div> </div> <div style="display: flex;"> <div style="border: 1px solid black; width: 20px; height: 15px; text-align: center; margin-right: 5px;">S</div> <div>Work allowed within right shoulder area when lane closure is not required.</div> </div>																										
REMARKS:																										

Chart No. 102B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 73-405 / NB												PM: R27.741												
Closure Limits: NB SR-73 to NB I-405 Connector (Upstream from Susan/Harbor Exit)																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																				C
Fridays	C	C	C	C	C																				C
Saturdays	C	C	C	C	C	C	C																		C
Sundays	C	C	C	C	C	C	C																		C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 103B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB															PM: 9.47									
Closure Limits: Loop On-Ramp from NB Bristol																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 104B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 9.663												
Closure Limits: Direct On-Ramp from SB Bristol																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 105B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 10.036												
Closure Limits: Off-Ramp to South Coast/Fairview/Susan/Harbor CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C	C																		C		
Sundays	C	C	C	C	C	C	C																		C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 106B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 10.27												
Closure Limits: Off-Ramp to South Coast																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 106C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / NB												PM: 10.27											
Closure Limits: Off-Ramp to South Coast																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 107B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 10.481												
Closure Limits: Off-Ramp to Fairview																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 107C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / NB												PM: 10.481											
Closure Limits: Off-Ramp to Fairview																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 108B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 11.045												
Closure Limits: Off-Ramp to Susan																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 108C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / NB														PM: 11.045												
Closure Limits: Off-Ramp to Susan																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 109B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 11.268												
Closure Limits: Off-Ramp to Harbor																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 110A																										
Connector Lane Requirements																										
County: Orange					Route/Direction: 73-405 / NB										PM: 11.3 to 10.5											
Closure Limits: NB I-405 Connector (Downstream from Susan/Harbor Exit)																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																				1
Fridays		1	1	1	1	1																				1
Saturdays		1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1
Sundays		1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1
<div>Legend:</div> <div><div></div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div><div>1</div> Provide at least one through connector lane open in direction of travel.</div> <div><div>2</div> Provide at least two adjacent through connector lanes open in direction of travel.</div> <div><div>S</div> Work allowed within right shoulder area when lane closure is not required.</div>																										
REMARKS:																										

Chart No. 110B Complete Ramp Closure - Nightly																										
County: Orange	Route/Direction: 73-405 / NB												PM: 10.513													
Closure Limits: NB SR-73 to NB I-405 Connector (Downstream from Susan/Harbor Exit)																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	C	C	C	C	C																				C	
Fridays	C	C	C	C	C																				C	
Saturdays	C	C	C	C	C	C	C																		C	
Sundays	C	C	C	C	C	C	C																		C	
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																										
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																										

Chart No. 111B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 10.928												
Closure Limits: On-Ramp from Fairview																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 111C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / NB												PM: 10.928											
Closure Limits: On-Ramp from Fairview																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 112B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 11.438												
Closure Limits: Loop On-Ramp from NB Harbor																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 112C																											
Complete Ramp Closure - Long-Term																											
County: Orange					Route/Direction: 405 / NB														PM: 11.438								
Closure Limits: Loop On-Ramp from NB Harbor																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 113B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 11.959												
Closure Limits: On-Ramp from Hyland																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 113C																											
Complete Ramp Closure - Short-Term																											
County: Orange							Route/Direction: 405 / NB														PM: 11.959						
Closure Limits: On-Ramp from Hyland																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 114B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 12.64												
Closure Limits: Off-Ramp to Euclid																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C	C																		C		
Sundays	C	C	C	C	C	C	C																		C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 114C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / NB														PM: 12.64												
Closure Limits: Off-Ramp to Euclid																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 115B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 12.873												
Closure Limits: On-Ramp from Euclid																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 115C Complete Ramp Closure - Short-Term																												
County: Orange							Route/Direction: 405 / NB											PM: 12.873										
Closure Limits: On-Ramp from Euclid																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 10px;">C</div> Ramp may be closed completely. </div>																												
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																												

Chart No. 116B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 13.543												
Closure Limits: Off-Ramp to Brookhurst CD Road																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 117B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 13.548												
Closure Limits: Off-Ramp to NB Brookhurst																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 117C Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / NB												PM: 13.548											
Closure Limits: Off-Ramp to NB Brookhurst																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 118B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 13.745												
Closure Limits: Loop On-Ramp from NB Brookhurst																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 118C																											
Complete Ramp Closure - Short-Term																											
County: Orange						Route/Direction: 405 / NB												PM: 13.745									
Closure Limits: Loop On-Ramp from NB Brookhurst																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays						C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays						C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays						C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays						C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 119B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 13.905												
Closure Limits: Loop Off-Ramp to SB Brookhurst																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 119C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB										PM: 13.905												
Closure Limits: Loop Off-Ramp to SB Brookhurst																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 120B Complete Ramp Closure - Nightly																										
County: Orange	Route/Direction: 405 / NB												PM: 13.979													
Closure Limits: On-Ramp from SB Brookhurst																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	C	C	C	C	C																			C	C	
Fridays	C	C	C	C	C																			C	C	
Saturdays	C	C	C	C	C	C	C																	C	C	
Sundays	C	C	C	C	C	C	C																	C	C	
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																										
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																										

Chart No. 120C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB														PM: 13.979								
Closure Limits: On-Ramp from SB Brookhurst																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 121B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 14.057												
Closure Limits: On-Ramp from Brookhurst CD Road																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 122B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 14.704												
Closure Limits: Off-Ramp to Warner/Magnolia CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 123B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 14.819												
Closure Limits: Loop Off-Ramp to WB Warner																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 123C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB												PM: 14.819										
Closure Limits: Loop Off-Ramp to WB Warner																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 124B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 14.882												
Closure Limits: On-Ramp from WB Warner																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 124C																												
Complete Ramp Closure - Short-Term																												
County: Orange							Route/Direction: 405 / NB											PM: 14.882										
Closure Limits: On-Ramp from WB Warner																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend: <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																												
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																												

Chart No. 125B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 15.076												
Closure Limits: Off-Ramp to NB Magnolia																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 125C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB														PM: 15.076								
Closure Limits: Off-Ramp to NB Magnolia																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 126B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 15.174												
Closure Limits: Loop On-Ramp from NB Magnolia																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 126C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB															PM: 15.174							
Closure Limits: Loop On-Ramp from NB Magnolia																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 127B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 15.419												
Closure Limits: On-Ramp from SB Magnolia																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 127C Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / NB												PM: 15.419											
Closure Limits: On-Ramp from SB Magnolia																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 128B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 15.509												
Closure Limits: On-Ramp from Magnolia/Warner CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 129B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 16.209												
Closure Limits: Off-Ramp to Beach CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C																			C		
Sundays	C	C	C	C	C	C																			C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 130B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 16.383												
Closure Limits: Off-Ramp to NB Beach																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C																			C		
Sundays	C	C	C	C	C	C																			C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 130C																											
Complete Ramp Closure - Short-Term																											
County: Orange							Route/Direction: 405 / NB														PM: 16.383						
Closure Limits: Off-Ramp to NB Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fridays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Saturdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 131B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 16.508												
Closure Limits: Loop On-Ramp from NB Beach																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C																			C		
Sundays	C	C	C	C	C	C																			C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 131C Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB														PM: 16.508								
Closure Limits: Loop On-Ramp from NB Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 132B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 16.675												
Closure Limits: Loop Off-Ramp to SB Beach																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																				C
Fridays	C	C	C	C	C																				C
Saturdays	C	C	C	C	C	C																			C
Sundays	C	C	C	C	C	C																			C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 132C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB															PM: 16.675							
Closure Limits: Loop Off-Ramp to SB Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 133B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 16.798												
Closure Limits: On-Ramp from SB Beach																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C																			C		
Sundays	C	C	C	C	C	C																			C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 133C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB															PM: 16.798							
Closure Limits: On-Ramp from SB Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 134B Complete Ramp Closure - Nightly																										
County: Orange	Route/Direction: 405 / NB												PM: 16.871													
Closure Limits: On-Ramp from Beach CD Road																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	C	C	C	C	C																				C	
Fridays	C	C	C	C	C																				C	
Saturdays	C	C	C	C	C	C	C																		C	
Sundays	C	C	C	C	C	C	C																		C	
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																										
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																										

Chart No. 135B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 17.696												
Closure Limits: Loop Off-Ramp to WB Bolsa																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 135C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB													PM: 17.696									
Closure Limits: Loop Off-Ramp to WB Bolsa																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 136B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 17.935												
Closure Limits: Loop On-Ramp from NB Goldenwest																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 136C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB												PM: 17.935										
Closure Limits: Loop On-Ramp from NB Goldenwest																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 137B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 18.789												
Closure Limits: Off-Ramp to Westminster CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 138B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 18.902												
Closure Limits: Off-Ramp to Westminster																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 138C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / NB														PM: 18.902												
Closure Limits: Off-Ramp to Westminster																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 139B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 18.903												
Closure Limits: Loop Off-Ramp to WB Westminster																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 139C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB															PM: 18.903							
Closure Limits: Loop Off-Ramp to WB Westminster																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 140B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 19.29												
Closure Limits: On-Ramp from Westminster																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 140C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / NB														PM: 19.29												
Closure Limits: On-Ramp from Westminster																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 141B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 20.277												
Closure Limits: Off-Ramp to Bolsa Chica																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 141C Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / NB												PM: 20.277											
Closure Limits: Off-Ramp to Bolsa Chica																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 142A																										
Connector Lane Requirements																										
County: Orange					Route/Direction: 22-405 / NB										PM: R0.9 to 20.9											
Closure Limits: WB SR-22 GP to NB I-405 GP Connector																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																				1
Fridays		1	1	1	1	1																				1
Saturdays		1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1
Sundays		1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	1
Legend:																										
<div></div>		Work permitted within project right of way where shoulder or lane closure is not required.																								
<div>1</div>		Provide at least one through connector lane open in direction of travel.																								
<div>2</div>		Provide at least two adjacent through connector lanes open in direction of travel.																								
<div>S</div>		Work allowed within right shoulder area when lane closure is not required.																								
REMARKS:																										

Chart No. 142B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 22-405 / NB												PM: 20.91												
Closure Limits: WB SR-22 GP to NB I-405 GP Connector																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																				C
Fridays	C	C	C	C	C																				C
Saturdays	C	C	C	C	C	C																			C
Sundays	C	C	C	C	C	C																			C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 143B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 22-405 / NB														PM: 21.167												
Closure Limits: WB SR-22 HOV to NB I-405 HOV Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C																			C		
Sundays	C	C	C	C	C	C																			C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 144B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / NB														PM: 22.386												
Closure Limits: Off-Ramp to Seal Beach																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C	C																		C		
Sundays	C	C	C	C	C	C	C																		C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 144C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB														PM: 22.386								
Closure Limits: Off-Ramp to Seal Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 145B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / NB												PM: 22.558												
Closure Limits: Loop On-Ramp from Seal Beach																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 145C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / NB												PM: 22.558										
Closure Limits: Loop On-Ramp from Seal Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 146B Complete Ramp Closure - Nightly																											
County: Orange								Route/Direction: 405-22 / NB												PM: 23.036							
Closure Limits: NB I-405 to WB SR-22 Connector/7th																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 147A																										
Connector Lane Requirements																										
County: Orange					Route/Direction: 405-605 / NB										PM: 23.8 to R0.2											
Closure Limits: NB I-405 GP to NB I-605 GP Connector																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																				
Fridays		1	1	1	1	1																				
Saturdays		1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Sundays		1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Legend:																										
<div></div>		Work permitted within project right of way where shoulder or lane closure is not required.																								
<div>1</div>		Provide at least one through connector lane open in direction of travel.																								
<div>2</div>		Provide at least two adjacent through connector lanes open in direction of travel.																								
<div>S</div>		Work allowed within right shoulder area when lane closure is not required.																								
REMARKS:																										

Chart No. 147B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405-605 / NB														PM: 23.828												
Closure Limits: NB I-405 GP to NB I-605 GP Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																						
Fridays	C	C	C	C	C																						
Saturdays	C	C	C	C	C	C	C																				
Sundays	C	C	C	C	C	C	C																				
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 148B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405-605 / NB														PM: 23.376												
Closure Limits: NB I-405 HOV to NB I-605 HOV Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C	C																		C		
Sundays	C	C	C	C	C	C	C																		C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 149B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 22 / WB												PM: 23.036												
Closure Limits: On-Ramp from Old Ranch																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 149C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 22 / WB															PM: 23.036							
Closure Limits: On-Ramp from Old Ranch																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 200A																										
Connector Lane Requirements																										
County: Orange						Route/Direction: 605-405 / SB										PM: R0.2 to 23.6										
Closure Limits: SB I-605 GP to SB I-405 GP Connector																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																				
Fridays		1	1	1	1	1																				
Saturdays		1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Sundays		1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
<p>Legend:</p> <div style="display: flex; flex-direction: column; gap: 5px;"> <div> Work permitted within project right of way where shoulder or lane closure is not required.</div> <div>1 Provide at least one through connector lane open in direction of travel.</div> <div>2 Provide at least two adjacent through connector lanes open in direction of travel.</div> <div>S Work allowed within right shoulder area when lane closure is not required.</div> </div>																										
REMARKS:																										

Chart No. 200B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 605-405 / SB														PM: 23.55												
Closure Limits: SB I-605 GP to SB I-405 GP Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																						
Fridays	C	C	C	C	C																						
Saturdays	C	C	C	C	C	C	C																				
Sundays	C	C	C	C	C	C	C																				
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 201B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 22-405 / SB														PM: 23.179												
Closure Limits: EB SR-22 to SB I-405 Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C	C																		C		
Sundays	C	C	C	C	C	C	C																		C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 202B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 605-405 / SB														PM: 23.345												
Closure Limits: SB I-605 HOV to SB I-405 HOV Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C	C																		C		
Sundays	C	C	C	C	C	C	C																		C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 203B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 22.705												
Closure Limits: Off-Ramp to Seal Beach																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 203C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 22.705											
Closure Limits: Off-Ramp to Seal Beach																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 204B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 22.518												
Closure Limits: On-Ramp from Seal Beach																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 204C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB													PM: 22.518									
Closure Limits: On-Ramp from Seal Beach																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 205A																										
Connector Lane Requirements																										
County: Orange					Route/Direction: 405-22 / SB										PM: 23.3 to R0.9											
Closure Limits: SB I-405 GP to EB SR-22 GP Connector																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		1	1	1	1	1																			1	1
Fridays		1	1	1	1	1																			2	1
Saturdays		1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	2	1
Sundays		1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	2	1
Legend:																										
<div></div>		Work permitted within project right of way where shoulder or lane closure is not required.																								
<div>1</div>		Provide at least one through connector lane open in direction of travel.																								
<div>2</div>		Provide at least two adjacent through connector lanes open in direction of travel.																								
<div>S</div>		Work allowed within right shoulder area when lane closure is not required.																								
REMARKS:																										

Chart No. 205B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 21.107												
Closure Limits: SB I-405 GP to EB SR-22 GP Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																				C		
Fridays	C	C	C	C	C																				C		
Saturdays	C	C	C	C	C	C																			C		
Sundays	C	C	C	C	C	C																			C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 206B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 21.154												
Closure Limits: SB I-405 HOV to EB SR-22 HOV Connector																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 207B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 20.851												
Closure Limits: Off-Ramp to SB Bolsa Chica																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 208B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 20.511												
Closure Limits: Loop On-Ramp from SB Bolsa Chica																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 208C																												
Complete Ramp Closure - Short-Term																												
County: Orange							Route/Direction: 405 / SB										PM: 20.511											
Closure Limits: Loop On-Ramp from SB Bolsa Chica																												
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																												
Mondays through Thursdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																												
<p>REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.</p>																												

Chart No. 209B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 19.528												
Closure Limits: Off-Ramp to Springdale/Westminster CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 210B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 19.414												
Closure Limits: Off-Ramp to Springdale																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 210C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / SB														PM: 19.414												
Closure Limits: Off-Ramp to Springdale																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 211B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 19.415												
Closure Limits: Loop Off-Ramp to EB Westminster																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 211C Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB														PM: 19.415								
Closure Limits: Loop Off-Ramp to EB Westminster																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 212B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 19.012												
Closure Limits: On-Ramp from Westminster																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 212C Complete Ramp Closure - Long-Term																											
County: Orange	Route/Direction: 405 / SB														PM: 19.012												
Closure Limits: On-Ramp from Westminster																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 213B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 18.028												
Closure Limits: Off-Ramp to Goldenwest/Bolsa CD Road																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 214B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 17.937												
Closure Limits: Off-Ramp to Goldenwest/Westminster Mall																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 214C																											
Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 17.937											
Closure Limits: Off-Ramp to Goldenwest/Westminster Mall																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 215B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 17.988												
Closure Limits: Loop On-Ramp from SB Goldenwest/Westminster Mall																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 215C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / SB														PM: 17.988												
Closure Limits: Loop On-Ramp from SB Goldenwest/Westminster Mall																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 216B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 17.728												
Closure Limits: Loop Off-Ramp to EB Bolsa																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 216C																													
Complete Ramp Closure - Short-Term																													
County: Orange								Route/Direction: 405 / SB												PM: 17.728									
Closure Limits: Loop Off-Ramp to EB Bolsa																													
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays								C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays								C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays								C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays								C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
<p>Legend:</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																													
<p>REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.</p>																													

Chart No. 217B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 17.63												
Closure Limits: On-Ramp from EB Bolsa																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 217C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 17.63											
Closure Limits: On-Ramp from EB Bolsa																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div>Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 218B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 17.554												
Closure Limits: On-Ramp from Bolsa/Goldenwest CD Road																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 219B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 16.81												
Closure Limits: Off-Ramp to Beach CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 220B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 16.714												
Closure Limits: Off-Ramp to Beach/Center																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 221B Complete Ramp Closure - Nightly																													
County: Orange							Route/Direction: 405 / SB														PM: 16.595								
Closure Limits: Loop On-Ramp from SB Beach/Center																													
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays							C	C	C	C	C																C	C	
Fridays							C	C	C	C	C																C	C	
Saturdays							C	C	C	C	C	C	C															C	C
Sundays							C	C	C	C	C	C	C															C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 10px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 10px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																													
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																													

Chart No. 221C Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 16.595											
Closure Limits: Loop On-Ramp from SB Beach/Center																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 222B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 16.467												
Closure Limits: Loop Off-Ramp to NB Beach																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 222C Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB												PM: 16.467										
Closure Limits: Loop Off-Ramp to NB Beach																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 223B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 16.412												
Closure Limits: On-Ramp from Beach CD Road																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																		C	C	
Fridays	C	C	C	C	C																		C	C	
Saturdays	C	C	C	C	C	C	C																C	C	
Sundays	C	C	C	C	C	C	C																C	C	
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 224B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 16.208												
Closure Limits: On-Ramp from EB Edinger																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 224C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB														PM: 16.208								
Closure Limits: On-Ramp from EB Edinger																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 225B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 15.364												
Closure Limits: Off-Ramp to Magnolia																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 225C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 15.364											
Closure Limits: Off-Ramp to Magnolia																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div>Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 226B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 15.135												
Closure Limits: Loop On-Ramp from SB Magnolia																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 226C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB													PM: 15.135									
Closure Limits: Loop On-Ramp from SB Magnolia																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 227B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 14.848												
Closure Limits: Loop Off-Ramp to EB Warner																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 227C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB										PM: 14.848												
Closure Limits: Loop Off-Ramp to EB Warner																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 228B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 14.698												
Closure Limits: On-Ramp from EB Warner																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 228C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 14.698											
Closure Limits: On-Ramp from EB Warner																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 229B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 14.014												
Closure Limits: Off-Ramp to Brookhurst CD Road																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 230B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 13.901												
Closure Limits: Off-Ramp to SB Brookhurst																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 230C																											
Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 13.901											
Closure Limits: Off-Ramp to SB Brookhurst																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 231B Complete Ramp Closure - Nightly																											
County: Orange							Route/Direction: 405 / SB														PM: 13.814						
Closure Limits: Loop On-Ramp from SB Brookhurst																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays							C	C	C	C	C															C	C
Fridays							C	C	C	C	C															C	C
Saturdays							C	C	C	C	C	C	C													C	C
Sundays							C	C	C	C	C	C	C													C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> <div>Ramp may be closed completely.</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> <div>Work permitted within project right of way where shoulder or lane closure is not required.</div> </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 231C Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB														PM: 13.814								
Closure Limits: Loop On-Ramp from SB Brookhurst																											
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 232B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 13.67												
Closure Limits: Loop Off-Ramp to NB Brookhurst																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 233B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 13.626												
Closure Limits: On-Ramp from Brookhurst CD Road																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 234B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 13.356												
Closure Limits: On-Ramp from EB Talbert																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 234C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 13.356											
Closure Limits: On-Ramp from EB Talbert																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend: <div>C</div> Ramp may be closed completely.																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 235B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 12.707												
Closure Limits: Off-Ramp to Euclid																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 235C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / SB														PM: 12.707												
Closure Limits: Off-Ramp to Euclid																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 236B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 12.554												
Closure Limits: Loop On-Ramp from Euclid																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 236C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / SB														PM: 12.554												
Closure Limits: Loop On-Ramp from Euclid																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 237B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 11.675												
Closure Limits: Off-Ramp to Harbor																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 237C Complete Ramp Closure - Short-Term																											
County: Orange	Route/Direction: 405 / SB														PM: 11.675												
Closure Limits: Off-Ramp to Harbor																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
Legend: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 238B Complete Ramp Closure - Nightly																											
County: Orange								Route/Direction: 405 / SB												PM: 11.495							
Closure Limits: Loop On-Ramp from SB Harbor																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 238C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 405 / SB													PM: 11.495									
Closure Limits: Loop On-Ramp from SB Harbor																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 239B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 11.292												
Closure Limits: On-Ramp from NB Harbor																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 239C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 11.292											
Closure Limits: On-Ramp from NB Harbor																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 240B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 10.933												
Closure Limits: Off-Ramp to Fairview																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 240C																											
Complete Ramp Closure - Long-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 10.933											
Closure Limits: Off-Ramp to Fairview																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 30 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 241A																										
Connector Lane Requirements																										
County: Orange					Route/Direction: 405-73 / SB										PM: R27.6 to 10.4											
Closure Limits: SB I-405 to SB SR-73 Connector																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	1	1	1	1	2																			2	1	
Fridays	1	1	1	1	2																			2	1	
Saturdays	1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	2	1	
Sundays	1	1	1	1	1	1	1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	2	1	
Legend:																										
<div><div></div> Work permitted within project right of way where shoulder or lane closure is not required.</div>																										
<div><div>1</div> Provide at least one through connector lane open in direction of travel.</div>																										
<div><div>2</div> Provide at least two adjacent through connector lanes open in direction of travel.</div>																										
<div><div>S</div> Work allowed within right shoulder area when lane closure is not required.</div>																										
REMARKS:																										

Chart No. 241B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405-73 / SB														PM: 10.508												
Closure Limits: SB I-405 to SB SR-73 Connector																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 242B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 405 / SB												PM: 10.187												
Closure Limits: On-Ramp from Fairview																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

Chart No. 242C																											
Complete Ramp Closure - Short-Term																											
County: Orange				Route/Direction: 405 / SB												PM: 10.187											
Closure Limits: On-Ramp from Fairview																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 243B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 405 / SB														PM: 9.745												
Closure Limits: Off-Ramp to Bristol																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 244B Complete Ramp Closure - Nightly																											
County: Orange	Route/Direction: 73 / SB														PM: R27.728												
Closure Limits: On-Ramp from Fairview																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C		
Fridays	C	C	C	C	C																			C	C		
Saturdays	C	C	C	C	C	C	C																	C	C		
Sundays	C	C	C	C	C	C	C																	C	C		
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																											
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																											

Chart No. 244C																											
Complete Ramp Closure - Short-Term																											
County: Orange					Route/Direction: 73 / SB														PM: R27.728								
Closure Limits: On-Ramp from Fairview																											
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
<div>Legend:</div> <div><div>C</div> Ramp may be closed completely.</div>																											
REMARKS: Ramp may be closed completely for up to 10 consecutive days, one time only during the entire construction schedule. Provide detour route and coordinate closely with Caltrans.																											

Chart No. 245B Complete Ramp Closure - Nightly																									
County: Orange	Route/Direction: 73 / SB												PM: R27.416												
Closure Limits: Off-Ramp to Bear																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C																			C	C
Fridays	C	C	C	C	C																			C	C
Saturdays	C	C	C	C	C	C	C																	C	C
Sundays	C	C	C	C	C	C	C																	C	C
Legend: <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;">C</div> Ramp may be closed completely. </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 15px; display: flex; align-items: center; justify-content: center; margin-right: 5px;"></div> Work permitted within project right of way where shoulder or lane closure is not required. </div>																									
REMARKS: Provide detour route and coordinate with Caltrans regarding consecutive night closures required.																									

ENCROACHMENT PERMIT

TR-0120 (REV. 2/98)

In compliance with (Check one):

☒ Your application of FEBRUARY 8, 2007☐ Utility Notice No. _____ Of _____☐ Agreement No. _____ Of _____☐ R/W Contract No. _____ Of _____

TO:

ORANGE COUNTY TRANSPORTATION AUTHORITY (OCTA)
P.O. BOX 14184
ORANGE, CA 92863-1584

DIPACK ROY
714-560-5863

Permit No.
1207-NMC- 0097

Dist/Co/Rte/PM

12-ORA- 91- 8.9/ 18.9
12-ORA- 55- 17.0/ 17.8

Date

FEBRUARY 7, 2007

Fee Paid

EXEMPT

Deposit

\$

Performance Bond Amount (1)

\$

Payment Bond Amount (2)

\$

Bond Company

Bond Number (1)

Bond Number (2)

, PERMITTEE

And subject to the following, PERMISSION IS HEREBY GRANTED to:

Operate, maintain and manage the daily operation of the State Route 91 median improvements and appurtenances thereof from Tustin Avenue Overcrossing in the city of Anaheim to Orange/Riverside County Line in the city of Orange.

All performed work shall be in accordance with current Caltrans Standard Specifications and Standard Plans, Section 500 (Specific Permits) of the Encroachment Permits Manual, the attached Provisions, assigned Lease/ Franchise Agreement by and between California Private Transportation Company, L.P. and State of California, Department of Transportation regarding State Route 91 Median Improvements dated June 30, 1993 and As-Built Plans for Contract Numbers 12-000964 and 12-000974.

Permittee shall contact State Permit Inspector **TOM SHAMSABADI at 949-440-4493** between 7 AM and 9 AM a minimum of 5 working days prior to the start of work. Failure to comply with this requirement will result in suspension of this permit.

The following attachments are also included as part of this permit
(Check applicable):

☒ Yes ☐ No General Provisions
☐ Yes ☒ No Utility Maintenance Provisions
☒ Yes ☐ No Special Provisions
☐ Yes ☒ No A Cal-OSHA permit required prior to beginning work;

#

In addition to fee, the permittee will be billed
actual costs for:

☐ Yes ☒ No Review
☐ Yes ☒ No Inspection
☒ Yes ☐ No Field Work

(If any Caltrans effort expended)

☐ Yes ☐ No The information in the environmental documentation has been reviewed and is considered prior to approval of this permit.

This permit is void unless the work is complete before **SEE LEASE/ FRANCHISE AGREEMENT**

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work shall be commenced until all other necessary permits and environmental clearances have been obtained.

PERMITTEE

FILE 07-0097

T. Shamsabadi, Permits

APPROVED:

Cindy Quon, District Director

BY:

Mory Mohtashami, District Permit Engineer

MTCE. (2)
Prepared by SHR

FM 91 1436

Permittee shall arrange a pre-maintenance meeting with his contractor(s) and the State Permit Inspector to clarify traffic control requirements and safety constraints relating to Permittee's performance of maintenance work adjacent to moving traffic. All Permittee's Contractors and Subcontractors shall furnish the State with a signed application requesting a separate Caltrans Encroachment Permit called Double Permit (DP), authorizing the Contractor(s) to perform the work within the State right of way on Permittee's behalf. The amount of the required deposit will be determined at the time of application.

Prior to issuance of the DP, Permittee's Contractors and Subcontractors shall submit a Policy of General Liability Insurance, including coverage for Bodily Injury Liability and Property Damage Liability. Such policy shall contain an additional insured endorsement naming the State, its officers and employees as additional-insured. Coverage shall be evidenced by a Certificate of Insurance in a form satisfactory to Caltrans.

The authorized work under this Encroachment Permit provides rights to Orange County Transportation Authority (OCTA) for subsurface, surface and airspace facilities, and ongoing operations and maintenance thereof for appurtenances of the State Route 91 Median Improvements. Said facilities include:

1. Electric power, electrical signal and fiber optic cable installed in a subsurface network of conduit with associated vaults and pullboxes and surface-installed pedestals, panels, junction boxes, service cabinets and transformers. This network is located generally along:
 - a) The north shoulder of State Route 91 from Station 496+00 (west of Tustin Avenue) to Station 79+00 (east of the 91/55 Interchange).
 - b) The south shoulder of State Route 55 from the 91/55 Interchange to the Riverside County Line.
 - c) The west shoulder of State Route 55 from Station 900+00 (north of Lincoln Avenue) to the 91/55 Interchange.
2. Electric Power Services and connecting cable, conduit and pullboxes between the service locations and the network described in item 1 above. These services are located at the following addresses.
 - a) 2824 N. Santiago Boulevard
 - b) 1810 E. Heim Avenue
 - c) 932 N. Tustin Avenue
 - d) 116 N. Gypsum Canyon Road
 - e) 171 Coal Canyon Road
 - f) 5176 Green River Road
 - g) 4392 Prado Road
 - h) 4001 E. Riverdale Avenue
 - i) 106 N. Lakeview Avenue
 - j) 290 N. Imperial Highway
 - k) 7793 E. Santa Ana Canyon Road
 - l) 176 N. Riverview Drive
 - m) 3222 E. Frontera Street
3. Six variable message signs installed in the median, with associated electric power, telephone cabling and conduits. These signs are located as follows:
 - a) State Route 91 Station 461+00 east of Kraemer Boulevard/Glassell Street
 - b) State Route 91 Station 504+90 east of Tustin Avenue
 - c) State Route 91 Station 567+80 near the Riverside County Line
 - d) State Route 91 Station 67+00 east of Prado Road
 - e) State Route 55 Station 866+00 North of Heim Avenue
 - f) State Route 55 Station 906+00 north of Lincoln Avenue
4. Electric toll collection system devices, including supporting structures and associated electric power, telephone and fiber optic cabling and conduits. These are generally located at:
 - a) The entrance to the toll lane on northbound State Route 55 near Station 58+00 (at the 91/55 Interchange).
 - b) The entrance to the toll lanes on eastbound State Route 91 near Station 530+00 (east of the 91/55 Interchange).
 - c) The entrance to the toll lanes on westbound State Route 91 near Station 531+65 (east of Coal Canyon Road).
 - d) The Toll Zone located east of Weir Canyon Road, including overhead sign structures that span the eastbound and westbound of State Route 91 roadways at Station 351+60 and Station 366+65, respectively.

5. Approximately 50 closed-circuit television cameras and associated poles, electric power, fiber optics, telephone cabling and conduits along State Route 91 and State Route 55. These cameras are located generally within the limits of the network described in Item 1 above.
6. Approximately 40 traffic-monitoring stations, including inductive loops in the toll lanes, mixed flow lanes and associated controllers, cabinets, electric power and fiber optic cabling and conduits along State Route 91 and State Route 55. These traffic-monitoring stations are located generally within the limits of the network described in item 1 above.
7. Overhead and roadside signs as shown in the Construction Documents for the State Route 91 Median Improvements. These signs are generally located along State Route 55 from Katella Avenue to the 91/55 Interchange, and along State Route 91 from the 91/57 Interchange to the 91/71 Interchange.

As-Built plans shall be prepared for all authorized work under this permit and when such plans are finalized and approved by Caltrans they shall be incorporated by reference at that time without further action of parties and become part of this permit. This permit shall expire at the same time that the Lease Agreement expires. Currently, the expiration date of the Lease Agreement is December 21, 2030.

In addition to the attached General Provisions (TR-0045), the following Special Provisions are applicable:

- Permittee shall contact the LOCAL LAW ENFORCEMENT JURISDICTION at least 48 hours prior to implementing traffic control measures.
- Whenever the work area is more than 1.83 m away from the adjacent traffic lane but within a designated shoulder or parking lane, a shoulder closure or parking lane closure acceptable to Caltrans shall be utilized.
- Personal vehicles of the Contractor's employees shall not be parked on paved shoulders or traveled way within the limits of this work.
- Traffic control shall be under Caltrans Inspector's directions.
- All components of the traffic control system shall be removed from the traveled way and paved shoulders at the end of each work period.
- Orange vests and hard hats shall be worn at all times while working within State right-of-way.
- The full width of traveled way shall be open for use by public traffic on Saturdays, Sundays and designated legal holidays, after 3:00 PM on Fridays and on the day preceding designated legal holidays, and when construction operations are not actively in progress.
- Unless otherwise approved by the State Permit Inspector no work that interferes with public traffic shall be performed on weekdays between 6:00 AM and 9:00 AM, and between 3:00 PM and 6:30 PM.
- Safe access through the work area shall be provided for bicyclists and pedestrians at all times, when required by the State Permit Inspector.
- All backfill shall meet Caltrans Standards.
- All steel plates shall be recessed, spiked and welded.
- All striping shall be replaced in thermoplastic.
- All excavations shall be either backfilled by the end of each working day, or otherwise secured to protect the public.
- In case of any discrepancy between the Lease/Franchise Agreement and these Permit Special Provisions, lease/Franchise Agreement Provisions shall prevail.
- Unless otherwise approved by these Permit Special Provisions or by the State Permit Inspector, no freeway lane, ramp or shoulder closure is permitted.
- Immediately following completion of the work permitted herein, Permittee shall fax to **949-724-2265** the **Work Completion Notice/Customer Service Questionnaire** to facilitate final permit processing.

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT
 TR-0120 (REV. 6/2012)

In compliance with:

☒ Your application of August 10, 2016
☐ Utility Notice No. _____ of _____
☒ Agreement No. 12-697 of June 30, 2015
☐ R/W Contract No. _____ of _____

Permit No. <u>12-16-N-OP-0634</u>	
Dist/Co/Rte/PM <u>12-ORA-405 PM 9.8-PM 24.2</u>	
Date <u>12/29/2016</u>	
Fee Paid <u>\$ EA 0H1001</u>	Deposit <u>\$ EA 0H1001</u>
Performance Bond Amount (1) <u>\$ 0.00</u>	Payment Bond Amount (2) <u>\$ 0.00</u>
Bond Company	
Bond Number (1)	Bond Number (2)

TO: ORANGE COUNTY TRANSPORTATION AUTHORITY
 P.O. BOX 14184
 ORANGE, CA 92863-1584
 Attn: Jeff Mills, Program Manager 714-560-5925

, PERMITTEE

and subject to the following, PERMISSION IS HEREBY GRANTED to:

Enter onto State Right of Way on I-405 from SR-73 to I-605 to monitor and construct all work consisting of construction of express lanes, general purpose lanes and related improvements, oversight the Design Build contractor's work (design and construction) necessary to complete the project as described in the Design-Build (D-B) contract (OCTA Request for Proposal RFP-5-3843), executed Cooperative Agreement (District Agreement No. 12-697 effective June 30, 2015), OCTA Agreement No. C-4-1847 and any future amendments.

All performed work shall be in accordance with current Caltrans Standard Specifications and Standard Plans, Section 500 (Specific Permits) of the Encroachment Permits Manual, California MUTCD latest edition, and the attached Provisions. Permittee shall contact Kausi Amuth, Caltrans Sr. Construction Engineer at (949) 279-8688, and Caltrans Structure Construction Representative John Zehnder at 714-803-2588 a minimum of 10 working days prior to the date of the pre-construction meeting. Failure to comply with this requirement will result in suspension of this permit.

THIS PERMIT IS NOT A PROPERTY RIGHT AND DOES NOT TRANSFER WITH THE PROPERTY TO A NEW OWNER.

The following attachments are also included as part of this permit (Check applicable):

☒ Yes ☐ No General Provisions
☐ Yes ☒ No Utility Maintenance Provisions
☒ Yes ☐ No Storm Water Special Provisions
☒ Yes ☐ No Special Provisions
☐ Yes ☒ No A Cal-OSHA permit, if required: Permit No. _____
☐ Yes ☒ No As-Built Plans Submittal Route Slip for Locally Advertised Projects
☐ Yes ☒ No Storm Water Pollution Prevention Plan / Water Pollution Control Plan

In addition to fee, the permittee will be billed actual costs for:

☐ Yes ☒ No Review
☐ Yes ☒ No Inspection
☒ Yes ☐ No Field Work

(if any Caltrans effort expended)

☒ Yes ☐ No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.

This permit is void unless the work is completed before June 30, 2023

This permit is to be strictly construed and no other work other than specifically mentioned is hereby authorized.

No project work shall be commenced until all the other necessary permits and the environmental clearances have been obtained.

PERMIT ENGINEER: Raj Gohil
 COPIES TO:
 Maintenance
 Andrew Chuah, Project Management
 Nooshin Yoosefi, Project Management
 Kausi Amuth, Construction
 John Zehnder, Structure Construction
 File: 16-0634

APPROVED:

BY:

Ryan Chamberlain, District Director

Tom Shalod, P.E.
 MAHESH R. BHATT, P.E., District Permit Engineer

FM 91 1436 (D12 Permit App.)

1. **AUTHORITY:** The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.
2. **REVOCATION:** Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.
3. **DENIAL FOR NONPAYMENT OF FEES:** Failure to pay permit fees when due can result in rejection of future applications and denial of permits.
4. **ASSIGNMENT:** No party other than the permittee or permittee's authorized agent is allowed to work under this permit.
5. **ACCEPTANCE OF PROVISIONS:** Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.
6. **BEGINNING OF WORK:** When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.
7. **STANDARDS OF CONSTRUCTION:** All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer," these are amended to be read as "Permittee and Department representative."
8. **PLAN CHANGES:** Changes to plans, specifications, and permit provisions are not allowed without prior approval from the State representative.
9. **INSPECTION AND APPROVAL:** All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
10. **PERMIT AT WORKSITE:** Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.
11. **CONFLICTING ENCROACHMENTS:** Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).
12. **PERMITS FROM OTHER AGENCIES:** This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.
13. **PEDESTRIAN AND BICYCLIST SAFETY:** A safe minimum passageway of 4' shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street. Attention is directed to Section 7-1.09 Public Safety of the Department Standard Specifications.
14. **PUBLIC TRAFFIC CONTROL:** As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. While providing traffic control, the needs and control of all road users [motorists, bicyclists and pedestrians, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA)] shall be an essential part of the work activity.

Day and night time lane closures shall comply with the California Manual on Uniform Traffic Control Devices (Part 6, Temporary Traffic Control), Standard Plans, and Standard Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.
15. **MINIMUM INTERFERENCE WITH TRAFFIC:** Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the California Manual on Uniform Traffic Control Devices (Chapter 6E, Flagger Control).
16. **STORAGE OF EQUIPMENT AND MATERIALS:** The storage of equipment or materials is not allowed within State highway right-of-way, unless specified within the Special Provisions of this specific encroachment permit. If Encroachment Permit Special Provisions allow for the storage of equipment or materials within the State right of way, the equipment and material storage shall comply with Standard Specifications, Standard Plans, Special Provisions, and the Highway Design Manual. The clear recovery zone widths must be followed and are the minimum desirable for the type of facility indicated below: freeways and expressways - 30', conventional highways (no curbs) - 20', conventional highways (with curbs) - 15'. If a fixed object cannot be eliminated, moved outside the clear recovery zone, or modified to be made yielding, it should be shielded by a guardrail or a crash cushion.
17. **CARE OF DRAINAGE:** Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.
18. **RESTORATION AND REPAIRS IN RIGHT OF WAY:** Permittee is responsible for restoration and repair of State highway right of way resulting from permitted work (State Streets and Highways Code, Sections 670 et. seq.).

19. **RIGHT OF WAY CLEAN UP:** Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.

20. **COST OF WORK:** Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.

21. **ACTUAL COST BILLING:** When specified in the permit, the Department will bill the permittee actual costs at the currently set hourly rate for encroachment permits.

22. **AS-BUILT PLANS:** When required, permittee shall submit one (1) set of folded as-built plans within thirty (30) days after completion and approval of work in compliance with requirements listed as follows:

1. Upon completion of the work provided herein, the permittee shall send one vellum or paper set of As-Built plans, to the State representative. Mylar or paper sepia plans are not acceptable.
2. All changes in the work will be shown on the plans, as issued with the permit, including changes approved by Encroachment Permit Rider.
3. The plans are to be stamped or otherwise noted AS-BUILT by the permittee's representative who was responsible for overseeing the work. Any original plan that was approved with a State stamp, or Caltrans representative signature, shall be used for producing the As-Built plans.
4. If As-Built plans include signing or striping, the dates of signing or striping removal, relocation, or installation shall be shown on the plans when required as a condition of the permit. When the construction plans show signing and striping for staged construction on separate sheets, the sheet for each stage shall show the removal, relocation or installation dates of the appropriate staged striping and signing.
5. As-Built plans shall contain the Permit Number, County, Route, and Post Mile on each sheet.
6. Disclaimer statement of any kind that differ from the obligations and protections provided by Sections 6735 through 6735.6 of the California Business and Professions Code, shall not be included on the As-Built plans. Such statements constitute non-compliance with Encroachment Permit requirements, and may result in the Department of Transportation retaining Performance Bonds or deposits until proper plans are submitted. Failure to comply may also result in denial of future permits, or a provision requiring a public agency to supply additional bonding.

23. **PERMITS FOR RECORD PURPOSES ONLY:** When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.

24. **BONDING:** The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures, Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that

project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend, indemnify, and hold harmless the State, its officers and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.

25. **FUTURE MOVING OF INSTALLATIONS:** Permittee understands and agrees to relocate a permitted installation upon notice by the Department. Unless under prior property right or agreement, the permittee shall comply with said notice at his sole expense.

26. **ARCHAEOLOGICAL/HISTORICAL:** If any archaeological or historical resources are revealed in the work vicinity, the permittee shall immediately stop work, notify the Department's representative, retain a qualified archaeologist who shall evaluate the site, and make recommendations to the Department representative regarding the continuance of work.

27. **PREVAILING WAGES:** Work performed by or under a permit may require permittee's contractors and subcontractors to pay appropriate prevailing wages as set by the Department of Industrial Relations. Inquiries or requests for interpretations relative to enforcement of prevailing wage requirements are directed to State of California Department of Industrial Relations, 525 Golden Gate Avenue, San Francisco, California 94102.

28. **RESPONSIBILITY FOR DAMAGE:** The State of California and all officers and employees thereof, including but not limited to the Director of Transportation and the Deputy Director, shall not be answerable or accountable in any manner for injury to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property from any cause. The permittee shall be responsible for any liability imposed by law and for injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee, or for damage to property arising out of work, or other activity permitted and done by the permittee under a permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit.

The permittee shall indemnify and save harmless the State of California, all officers, employees, and State's contractors, thereof, including but not limited to the Director of Transportation and the Deputy Director, from all claims, suits or actions of every name, kind and description brought for or on account of injuries to or death of any person, including but not limited to the permittee, persons employed by the permittee, persons acting in behalf of the permittee and the public, or damage to property resulting from the performance of work or other activity under the permit, or arising out of the failure on the permittee's part to perform his obligations under any permit in respect to maintenance or any other obligations, or resulting from defects or obstructions, or from any cause whatsoever during the progress of the work, or other activity or at any subsequent time, work or other activity is being performed under the obligations provided by and contemplated by the permit, except as otherwise provided by statute.

The duty of the permittee to indemnify and save harmless includes the duties to defend as set forth in Section 2778 of the Civil Code. The permittee waives any and all rights to any type of expressed or implied indemnity against the State, its officers, employees, and State contractors. It is the intent of the parties that the permittee will indemnify and hold harmless the State, its officers, employees, and State's contractors, from any and all claims, suits or actions as set forth above regardless of the existence or degree of fault or negligence, whether active or passive, primary or secondary, on the part of the State, the permittee, persons employed by the permittee, or acting on behalf of the permittee.

For the purpose of this section, "State's contractors" shall include contractors and their subcontractors under contract to the State of California performing work within the limits of this permit.

29. **NO PRECEDENT ESTABLISHED:** This permit is issued with the understanding that it does not establish a precedent.

30. **FEDERAL CIVIL RIGHTS REQUIREMENTS FOR PUBLIC ACCOMMODATION:**

A. The permittee, for himself, his personal representative, successors in interest, and assigns as part of the consideration hereof, does hereby covenant and agree that:

1. No person on the grounds of race, color, or national origin shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
2. That in connection with the construction of any improvements on said lands and the furnishings of services thereon, no discrimination shall be practiced in the selection and retention of first-tier subcontractors in the selection of second-tier subcontractors.
3. That such discrimination shall not be practiced against the public in their access to and use of the facilities and services provided for public accommodations (such as eating, sleeping, rest, recreation), and operation on, over, or under the space of the right of way.
4. That the permittee shall use the premises in compliance with all other requirements imposed pursuant to Title 15, Code of Federal Regulations, Commerce and Foreign Trade, Subtitle A. Office of the Secretary of Commerce, Part 8 (15 C.F.R. Part 8) and as said Regulations may be amended.
5. That in the event of breach of any of the above nondiscrimination covenants, the State shall have the right to terminate the permit and to re-enter and repossess said land and the land and the facilities thereon, and hold the same as if said permit had never been made or issued.

31. **MAINTENANCE OF HIGHWAYS:** The permittee agrees, by acceptance of a permit, to properly maintain any encroachment. This assurance requires the permittee to provide inspection and repair any damage, at permittee's expense, to State facilities resulting from the encroachment.

32. **SPECIAL EVENTS:** In accordance with subdivision (a) of Streets and Highways Code Section 682.5, the Department of Transportation shall not be responsible for the conduct or operation of the permitted activity, and the applicant agrees to defend, indemnify, and hold harmless the State and the city or county against any and all claims arising out of any activity for which the permit is issued.

The permittee understands and agrees to comply with the obligations of Titles II and III of the Americans with Disabilities Act of 1990 in the conduct of the event, and further agrees to indemnify and save harmless the State of California, all officers and employees thereof, including but not limited to the Director of Transportation, from any claims or liability arising out of or by virtue of said Act.

33. **PRIVATE USE OF RIGHT OF WAY:** Highway right of way shall not be used for private purposes without compensation to the State.

The gifting of public property use and therefore public funds is prohibited under the California Constitution, Article 16.

34. **FIELD WORK REIMBURSEMENT:** Permittee shall reimburse State for field work performed on permittee's behalf to correct or remedy hazards or damaged facilities, or clear debris not attended to by the permittee.

35. **NOTIFICATION OF DEPARTMENT AND TMC:** The permittee shall notify the Department's representative and the Transportation Management Center (TMC) at least 7 days before initiating a lane closure or conducting an activity that may cause a traffic impact. A confirmation notification should occur 3 days before closure or other potential traffic impacts. In emergency situations when the corrective work or the emergency itself may affect traffic, TMC and the Department's representative shall be notified as soon as possible.

36. **SUSPENSION OF TRAFFIC CONTROL OPERATION:** The permittee, upon notification by the Department's representative, shall immediately suspend all lane closure operations and any operation that impedes the flow of traffic. All costs associated with this suspension shall be borne by the permittee.

37. **UNDERGROUND SERVICE ALERT (USA) NOTIFICATION:** Any excavation requires compliance with the provisions of Government Code Section 4216 et. seq., including, but not limited to notice to a regional notification center, such as Underground Service Alert (USA). The permittee shall provide notification at least 48 hours before performing any excavation work within the right of way.

STORM WATER SPECIAL PROVISIONS for MINIMAL or NO IMPACT

TR-0400 (Rev 09/2012)

1. GENERAL: The purpose of these Special Provisions is to provide the Permittee with specifications for water pollution control to minimize, prevent, or control the discharge of material into the air, surface waters, groundwater, and storm sewers owned by the State or local agencies. These provisions are not intended to take the place of the Caltrans Water Pollution Control Program (WPCP) for projects where soil disturbance from work activities less than one acre, or work activities of one acre or more subject to the preparation of the Caltrans Storm Water Pollution Prevention Plan (SWPPP) that would require a waste discharge identification number or coverage under the California Construction General Permit (*Order No. 2009-0009-DWQ, NPDES No CAS000002*). The Permittee shall comply with the following Special Provisions and the direction of the State Representative.

2. NPDES REQUIREMENTS: The Permittee shall be responsible for full compliance with the Caltrans Storm Water Program and the Caltrans National Pollutant Discharge Elimination System (NPDES) Permit requirements. It is the Permittee's responsibility to install, inspect, and repair or maintain facilities and devices used for water pollution control practices before performing daily work activities. Installation and maintenance responsibilities on the job site include: 1) soil stabilization materials in work areas that are inactive or prior to storm events, 2) water pollution control devices to control sediment and erosion, 3) implementation of spill and leak prevention procedures for chemical and hazardous substances stored on the job site, 4) material storage, 5) stockpile management, 6) waste management, 7) non-stormwater management, 8) water conservation, and 9) illicit connection, illegal discharge detection and reporting. The Permittee shall report to the state representative when discharges enter into receiving waters, adjacent property, drainage systems or when discharges could be a cause or a threat for water pollution. The Permittee shall also control illicit discharges or illegal dumping prior to start of daily work schedule. Copies of written notices or orders from the Regional Water Quality Control Board or other regulatory agency shall be provided to the State representative within 48 hours of reported activity. For additional information on storm water compliance, visit the State Water Resources Control Boards storm water Website at http://www.waterboards.ca.gov/water_issues/programs/stormwater

3. RESPONSIBILITY FOR DEBRIS REMOVAL: The Permittee shall be responsible for preventing sediment, trash, debris, and other construction waste from entering the street, the storm drains, local creeks, or any other bodies of water.

4. SPOILS AND RESIDUE: The Permittee shall vacuum any saw-cut concrete waste material, debris, residue, etc. No spoils, debris, residue, etc. shall be washed into a drainage system.

5. SWEEPING: Sweep paved roads at construction entrance and exit locations and surrounding paved areas daily within the job site during: 1) clearing and grubbing, 2) earthwork, 3) trenching, 4) soil disturbance, 5) pavement grinding and/or cutting, and 6) after observing tracking of material onto or off the State property. Keep dust to a minimum during sweeping activities. Use vacuum whenever dust generation is excessive or sediment pickup is ineffective. Roadways or work areas shall not be washed down with water. Street sweeping operations must conform to Section 13 Water Pollution Control of the State of California standard specifications for construction (most current version) <http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2010-SSPs/>.

6. VEHICLES AND EQUIPMENT: Permittee shall prevent all vehicles, equipment, etc. from leakage or mud tracking onto

roadways. If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.

7. MAINTENANCE AND FUELING OF VEHICLES AND EQUIPMENT: Maintenance and fueling of equipment shall not result in any pollution at the job site. The Permittee shall immediately clean up spills/leaks, and properly dispose of contaminated soil and materials.

8. CLEANING VEHICLES AND EQUIPMENT: Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. The Permittee shall clean all equipment within a bermed area or over a drip pan large enough to prevent run-off. No soaps, solvents, degreasers, etc shall be used in State right of way. Any water from this operation shall be collected and disposed of at an appropriate site. Containment berms or dikes shall be used for fueling, washing, maintaining and washing vehicles or equipment in outside areas. Containment must be performed at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain. Keep adequate quantities of absorbent spill-cleanup material and spill kits in the fueling or maintenance area and on fueling trucks.

9. DIESEL FUELS: The use of diesel fuel from petroleum or other fossil fuel as a form-oil or solvent is not allowed.

10. WEATHER CONDITIONS AT WORKSITE: Any activity that would generate fine particles or dust that could be transported off site by stormwater shall be performed during dry weather.

11. HOT MIX ASPHALT: Runoff from washing hot mix asphalt shall not enter into any drainage conveyances.

12. PROTECTION OF DRAINAGE FACILITIES: The Permittee shall protect/cover gutters, ditches, drainage courses, and inlets with gravel bags, fiber rolls, State approved fabric filters, etc., to the satisfaction of the State representative during grading, paving, saw-cutting, etc. and materials must conform to Section 13-6.02 Materials for Water Pollution Control of the State of California standard specifications for construction (most current version). No such protection measures shall cause an obstruction to the traveling public. The Permittee shall implement spill and leak prevention procedures for chemicals and hazardous substances stored on the job site in accordance to section 13-4.03B(1-3) Spill Prevention and Control, Water Pollution Control, of the State of California standard specifications for construction (2010 version).

13. PAINT: Rinsing of painting equipment and materials is not permitted in state right-of-way. When thoroughly dry, dispose of the following as solid waste: dry latex paint, paint cans, used brushes, rags, gloves, absorbent materials, and drop cloths. Oil based paint sludge and unusable thinner shall be disposed of at an approved hazardous waste site.

14. CONSTRUCTION MATERIALS: Stockpile of all construction materials, including, but not limited to; pressure treated wood, asphalt concrete, cold mix asphalt concrete, concrete, grout, cement containing premixes, and mortar, shall conform to section 13-4.03C Material Management (Storage & Stockpiles), Water Pollution Control, of the State of California standard specifications for construction (2010 version).

15. CONCRETE EQUIPMENT: Concrete equipment shall be washed in a designated washing area in a way that does not contaminate soil, receiving waters, or storm drain systems.

STORM WATER SPECIAL PROVISIONS for MINIMAL or NO IMPACT

TR-0400 (Rev 09/2012)

16. EXISTING VEGETATION: Established existing vegetation is the best form of erosion control. Minimize disturbance to existing vegetation. Damaged or removed vegetation shall be replaced as directed by the State Representative.

17. SOIL DISTURBANCE: Soil disturbing activities shall be avoided during the wet weather season. If construction activities during wet weather are allowed in your permit, all necessary erosion control and soil stabilization measures shall be implemented in advance of soil disturbing activity.

18. SLOPE STABILIZATION AND SEDIMENT CONTROL: Consider a certified expert in Erosion and Sediment control in cases where slopes are disturbed during construction. The Permittee is directed to comply with Section 13.5 Temporary Soil Stabilization and Section 21 Erosion Control of the State of California (2010 version) standard specifications for construction during application of temporary soil stabilization measures to the soil surface. Fiber rolls or silt fences may be required down slope until permanent soil stabilization is established. Remove the accumulated sediment whenever the sediment accumulates to 1/3 of the linear sediment barrier height.

19. STOCKPILES: Stockpiles containing aggregate and/or soil shall be stored at least 100 feet from concentrated flows of storm water, drainage courses, and storm drain inlets if within a flood plain, otherwise at least 50 feet if outside the floodplain, and shall be covered and protected with a temporary perimeter sediment barrier. Cold mix stockpiles shall be stored on an impermeable surface and covered with 9mil plastic to prevent contact with water.

20. DISCOVERY OF CONTAMINATION: The State Representative shall be notified in case any unusual discoloration, odor, or texture of ground water, is found in excavated material or if abandoned, underground tanks, pipes, or buried debris are encountered.

21. SANITARY AND SEPTIC WASTE: Do not bury or discharge wastewater from a sanitary or septic system within the highway. Properly connected sewer facilities are free from leaks. With State Representative approval place portable sanitary facility at least 50 feet away from storm drains, receiving waters, and flow lines. Permittee must comply with local health agency provisions when using an on-site disposal system.

22. LIQUID WASTE: Prevent job site liquid waste from entering storm drain systems and receiving waters. Drilling slurries, grease or oil-free waste water or rinse water, dredging, wash water or rinse water running off a surface or other nonstorm water liquids not covered under separate waste water permits shall be held in structurally sound, leak-proof containers, such as portable bins or portable tanks. Store containers at least 50 feet away from moving vehicles and equipment. Liquid waste may require testing to determine hazardous material content prior to disposal.

23. WATER CONTROL AND CONSERVATION: Manage water use in a way that will prevent erosion and the discharge of pollutants into storm drain systems and receiving waters. Direct runoff water, including water from water line repair from the job site to areas where it can infiltrate into the ground. Direct water from off-site sources around the job site or from contact with jobsite water.

24. PILE DRIVING: Keep spill kits and cleanup materials at pile driving locations. Park pile driving equipment over drip pans,

absorbent pads, or plastic sheeting with absorbent material, and away from storm water run-on when not in use.

25. DEWATERING: Dewatering consists of discharging accumulated storm water, groundwater, or surface water from excavations or temporary containment facilities. All dewatering operations shall comply with the latest Caltrans guidelines. Contact State representative for approval of dewatering discharge by infiltration or evaporation, otherwise, any effluent discharged into a permitted storm water system requires approval from the Regional Water Quality Control Board. Prior to the start of dewatering, the Permittee shall provide the State Representative with a dewatering and discharge work plan that complies with section 13-4.01B Submittals, Water Pollution Control, of the State of California standard specifications for construction (2010 version). A copy of the Waste Discharge Permit and a copy of a valid WDID number issued by the Regional Board shall be provided to the State representative.

In addition to the attached General Provisions (TR-0045), the following Special Provisions are applicable:

- 1) Notwithstanding General Provision #4, Permittee's contractor is required to apply for and obtain a separate fee-exempt Caltrans Encroachment Permit called Double Permit (DP) authorizing the Contractor to perform the work within the State right of way on Permittee's behalf. The DP's for the Design Build (DB) project are subject to separate reviews and approvals.
- 2) Permittee's DB Contractor shall submit with the DP application the following three items:
 - a) Proof that Contractor has performance and payment bonds executed in favor of Orange County Transportation Authority to adequately cover the construction cost of the project and which shall be kept in full force and effect until the permitted work is completed.
 - b) A policy of General Liability Insurance, including coverage of Bodily Injury Liability and Property Damage Liability in accordance with Section 7-1.06D of the State Standard Specifications. Such policy shall contain an additional-insured endorsement naming the State, its Officers, and employees as additional-insured. Coverage shall be evidenced by a Certificate of Insurance (in a form satisfactory to Caltrans). Coverage shall remain in effect through the duration of the permit.
 - c) If the work within the State Right of Way requires the implementation of temporary traffic control, Caltrans Standard Plans may be used without the requirement to submit Traffic Control Plans subject to the concurrence of Caltrans Traffic Operations and or Roadway Construction Manager.
- 3) Permittee's DB Contractor may start the preliminary site investigation work upon the approval of the Double Permit and the concurrence of "Notice to Proceed 1" by Caltrans. Preliminary site investigation work shall include but is not limited to the following work activities:
 - Mobilization of Design-Builder's personnel
 - Structural Design
 - Roadway Design
 - Coordination with UPRR
 - Utility relocation coordination and design
 - Utility potholing
 - Environmental permitting support and coordination
 - Partnering plan and initial partnering session
 - Establishment of dispute resolution process
 - Design survey
 - Geotechnical investigation and engineering
 - Sign inventory
 - Community outreach
 - Aerial mapping
 - Participation in meeting and presentations with the Authority and providing technical support and presentation materials
- 4) No construction activities in conjunction with "Notice to Proceed 2" shall be performed until the "Release for Construction Plans, a Storm Water Pollution Prevention Plan (SWPPP), and the Traffic Management Plan (TMP) are submitted to and approved by Caltrans. In addition, a Notice of Intent (NOI) must be submitted to the State Water Resources Control Board (SWRCB) at least 30 days prior to the start of construction. The NOI, the Waste Discharge Identifications number, and a Sampling Analysis Plan must be included in the SWPPP.

- 5) Permittee's DB Contractor shall contact Caltrans Roadway Construction Manager a minimum of two working days prior to the implementation of any lane closures
- 6) A separate permit is required for Utility Relocation within the State Right of Way. Permittee's Utility Contractor shall submit the permit application package for Utility Relocation to Caltrans I-405 Office of Corridor Management to initiate the Encroachment Permit Review process.
- 7) Whenever the work area is more than 6 ft. away from the adjacent traffic lane but within a designated shoulder or parking lane, a shoulder closure or parking lane closure acceptable to Caltrans shall be utilized.
- 8) All components of the traffic control system shall be removed from the traveled way and paved shoulders at the end of the each work period unless approved by Caltrans Roadway Construction Manager.
- 9) Safety vests, hard hats and personal protective equipment as required by Cal OSHA shall be worn at all times while working within State right-of-way.
- 10) Access through the work area shall be provided for bicyclists and pedestrians at all times, when required by the Caltrans Roadway Construction Manager.
- 11) The following three Provisions apply to preliminary site investigation work that is going to be performed prior to the start of "Notice to Proceed 1":
 - a) The full width of traveled way shall be open for use by public traffic on Saturdays, Sundays and designated legal holidays, after 3:00 PM on Fridays and on the day preceding designated legal holidays, and when construction operations are not actively in progress.
 - b) Unless otherwise approved by the Caltrans, no work that interferes with public traffic shall be performed on weekdays between 6:00 AM and 9:00 AM, and between 3:00 PM and 6:30 PM.
 - c) Permittee shall not perform any preliminary design and construction investigation without prior approval from Caltrans. Submittal and approval of temporary traffic control plans may be required per Caltrans Roadway Construction Manager's discretion.
- 12) It is the responsibility of the Permittee, Permittee's agents, or Permittee's Contractors to comply with all provisions of this permit and instructions from the Caltrans Roadway Construction Manager.
- 13) **Permittee shall remain solely responsible for compliance with all requirements of this permit.**
- 14) Prior to performing any work pursuant to this permit, the Permittee shall obtain all necessary permits and authorizations required of other governmental agencies and by law. The Permittee shall make the necessary arrangements with the appropriate agencies to monitor and test performed work to ensure accordance with requirements of those agencies.
- 15) Caltrans Roadway Construction Manager must ascertain and agree to all work details and all aspects of traffic control or no work shall begin on this permit.
- 16) The permitted work shall comply with Caltrans "Deputy Directive 64 : Complete Streets - Integrating the Transportation System".

- 17) ADA compliance requirements for pedestrian facilities shall be met in accordance with Caltrans "Design Information Bulletin 82: Pedestrian Accessibility Guidelines for Highway Projects" available at: <http://www.dot.ca.gov/hq/oppd/dib/dibprg.htm>

Compliance with DIB 82 is documented with the "Certification of Compliance with the Americans with Disabilities Act" (form TR-0405) available at:
<http://www.dot.ca.gov/hq/traffops/developserv/permits/applications/index.html>

Separate TR-0405 forms are required for the Design and Post Construction Certifications. The Design Certification must be submitted by Permittee's DB Contractor prior to the issuance of the Double Permit for the work affecting pedestrian facilities.

The Post Construction Certification must be submitted to Caltrans Roadway Construction Manager after construction is completed. The signature and stamp of a California Licensed Professional Engineer, Licensed Architect or Licensed Landscape Architect are required on the TR-0405 forms. A stamp is not required when the certification is done by (1) an authorized utility company representative or (2) an authorized (at the discretion of the District Permit Engineer) Caltrans representative with direct knowledge of the entire project's pedestrian facilities.

The District's Office of Corridor Management must retain both forms (Design and Post Construction) in the project file.

18) TRAFFIC STRIPING, MARKINGS, AND SIGNS (MCS) SPECIAL PROVISIONS

1. Traffic striping, pavement markings and signs shall be furnished and placed by the Permittee' DB Contractor and the cost shall be borne by the Permittee. Where new asphalt concrete has been placed, painted striping and pavement markings shall be installed within 24-hours. Where shown on the plans, after thirty (30) days curing time, thermoplastic materials shall be applied in compliance with Section 84 of the Standard Specifications.
 2. Roadside signs shall be placed at locations shown on the permit plans and shall be installed in compliance with the latest edition of Caltrans Standard Plans.
 3. Permittee' DB Contractor shall furnish to State's representative a completed Form CEM-3101 "Notice of Materials to be Used," and approval of the material used shall be obtained prior to its installation.
- 19) Your attention is directed to Standard Specification, Section 5-1.36 Property and Facility Preservation, and Business and Professions Code, Section 8771. Permittee's DB Contractor shall physically inspect the work site and locate survey monuments before work commencement. Monuments that might be disturbed shall be referenced or reset in accordance with Business and Professions Code." "If feasible, monuments should not be set within the traveled way. All monuments that must be set or perpetuated in paved surfaces, shall be constructed in accordance with Caltrans Standard Specification Section 81 'monuments' and Standard Plan A74, Type D, or equal with prior approval of the Caltrans Surveys Engineer."

"Copies of Corner Records filed or Record of Surveys recorded in compliance with the Business and Professions Code shall be forwarded to the District Surveys Engineer."

- 20) The Permittee's DB Contractor shall provide the stage construction traffic handling plans, work schedule and a list of all sub-contractors to the Caltrans Representative at the time of the pre-construction meeting or prior to start construction.
- 21) All traffic control, signing and striping shall comply with California MUTCD. It is available at: <http://www.dot.ca.gov/trafficops/engineering/>
- 22) Permittee's DB Contractor shall comply with Caltrans Standard Specifications and Standard Plans, Revised Standard Plans and the project special provisions. The latest Revised Standard Plans are available at: <http://www.dot.ca.gov/des/oe/construction-contract-standards.html>
- 23) The Permittee's DB Contractor's work shall be subordinated to any operations which the Caltrans may conduct and shall not delay, nor interfere with the Caltrans Forces or Caltrans Contractors.
- 24) No lane may be closed or obstructed at any time unless specifically allowed per the encroachment permit, shown in approved traffic control plans, and/or as directed by the Caltrans Representative.
- 25) Except for installing, maintaining and removing traffic control devices, any work encroaching within 3 feet of the edge of a travel lane for areas with a posted speed limit below 45mph, or 6 feet of the edge of a travel lane, for areas with a speed limit posted at 45mph or higher, shall require closing of that travel lane. Any work encroaching within 6 feet of the edge of the shoulder, shall require closing of that shoulder. The Permittee's DB Contractor shall notify the Caltrans Representative, and obtain approval of, all traffic control, lane closures or detours, at least seven (7) WORKING DAYS prior to setting up of any traffic control.
- 26) Should any deviation from these procedures or conditions be observed, all work shall be suspended until satisfactory steps have been taken to ensure compliance.
- 27) If time extension is necessary, a request for time extension and the accompanying attachments must be made a minimum of two (2) weeks prior to completion date stated on the face of the permit.
- 28) No vehicle or equipment shall be stored overnight within the right of way; it shall be removed immediately at the completion of the day's work unless approved by Caltrans Roadway Construction Manager. Refueling of vehicle or equipment within the right of way is strictly prohibited.
- 29) Required traffic control devices shall be installed around fixed objects to warn the motoring public for safety. Personal vehicles of the contractor shall not be parked within freeway right of way.
- 30) Except as specifically provided herein, all requirements of the Vehicle Code and other applicable laws must be complied with in all particulars.
- 31) When traffic cones or delineators are used to delineate a temporary edge of traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane. The Permittee's DB Contractor shall not reduce the width of the existing lane to less than 12 feet without written approval from the Caltrans Representative.
- 32) Excavations made within the limits of the right of way shall be backfilled and resurfaced to original condition before leaving the work area unless otherwise authorized by the Caltrans Representative.

- 33) The Permittee shall be responsible for arranging the services of a qualified traffic control contractor to provide any needed traffic control.
- 34) The Permittee shall arrange a meeting between his field representative, traffic control contractor, Department's Representative and CHP at least two (2) weeks prior to start of any work covered under this permit to arrange date and time of starting work and determine appropriate methods of handling traffic. At least 3 working days' notice shall be given to the Caltrans representative and the CHP, prior to the meeting to allow time to arrange for attendance.
- 35) A copy of this permit, complete with all attachments, shall be kept by Permittee or Permittee's DB Contractor working under this permit and must be shown to the Caltrans Representatives, or Law Enforcement Officer, on demand.
- 36) The Permittee shall be responsible for notifying the appropriate utility companies or underground service alert prior to any excavation work.
- 37) When the work area encroaches upon a sidewalk, walkway, or crosswalk area, special consideration must be given to pedestrian safety. Protective barricades, fencing, handrails and bridges, together with warning and guidance devices and signs must be utilized so that the passageway for pedestrians, especially blind and other physically handicapped, is safe and well defined and shown on the approved permit plan.
- 38) Pedestrian walkways and canopies within State Right of Way shall comply with the requirements of the applicable local agency or of the latest edition of the Uniform Building Code whichever contains the higher standards.
- 39) A monolithic pour of sidewalk and curb and gutter shall not be permitted.
- 40) If existing public or private utilities conflict with the construction project, Permittee will make necessary arrangements with the owners of such utilities for their protection, relocation, or removal. Permittee shall inspect the protection, relocation, or removal of such facilities. Total costs of such protection, relocation, or removal which State or Permittee must legally pay, will be borne by Permittee. If any protection, relocation, or removal of utilities is required, including determination of liability for cost, such work shall be performed in accordance with State policy and procedure. Permittee shall require any utility company performing relocation work in the State's right-of-way to obtain a State Encroachment Permit before the performance of said relocation work. Any relocated utilities shall be correctly located and identified on the as-built plans".
- 41) The Permittee shall notify the California Highway Patrol Area Commander at least 72 hours prior to implementing traffic control.
- 42) Traffic signal system shutdowns shall be limited to periods as shown in the approved Traffic Management Plan.
- 43) All salvaged electrical equipment shall remain the property of the State of California and shall be delivered to the Caltrans Batavia Maintenance Yard in Orange, CA.
- 44) A temporary 6' high access control fence shall be provided before removing the existing fence. Existing fence fabric shall be salvaged and delivered to the nearest State facility as directed by the Caltrans representative at no cost to the State. The remaining access control fence shall be tied to the wall.
- 45) Fence posts are to be removed completely and the holes backfilled with compacted earthen material.

PAGE 6: ATTACHED TO AND MADE PART OF PERMIT NO. 12-16-N-OP-0634

- 46) Access to the worksite from the freeway is prohibited unless authorized by Caltrans Roadway Construction Manager.
- 47) Any material stored at the worksite within 30' of the traveled way when work is not in progress shall be protected by Type K barrier railing placed at a 20: 1 taper or as otherwise directed by the Caltrans representative.

PAGE 8: ATTACHED TO AND MADE PART OF PERMIT NO. 12-16-N-OP-0634

- 48) If shoring failures could damage State facilities or if the excavation is 5-ft or deeper, Permittee's DB Contractor must submit shoring plans and calculations to Caltrans Roadway Construction Manager for approval.

The Caltrans "Trenching and Shoring Manual" is available at the following website:
<http://www.dot.ca.gov/hq/esc/construction/manuals/>

The Permittee's DB Contractor may elect to use the Construction Safety Order Details, it is not required that a

Professional Engineer prepare the plan. However, a plan is still required. This plan can be a letter to the Caltrans Representative containing the information outlined in Section 2.0 "Shoring Plan Submittal" in Chapter 2 of the Caltrans Trenching and Shoring Manual (Second paragraph Section 1.6 page 1-9 Caltrans Trenching and Shoring Manual).

Shoring that does not meet the California Department of Safety and Health, Title 8 of the California Administration Code (Construction Safety Orders) must be designed by a California Registered Civil or Structural Engineer of the Permittee's DB Contractor, and they shall sign the shoring plan.

- 49) Any Type K barrier placed within 10' of the traveled way shall have one appropriate reflective marker affixed to the top of each section. A Type "P" object marker shall be installed in front of the approach end section. The end section shall also be protected by a temporary crash cushion array.

EMERGENCY VEHICLE PREEMPTION SYSTEM

The Permittee's DB Contractor will install the Emergency Vehicle Preemption System.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT STEEL PLATE BRIDGING UTILITY PROVISIONS
TR -0157 (Rev. 07/2009)

See attached for TR-0157 Provisions.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
**ENCROACHMENT PERMIT - UNCASED HIGH PRESSURE NATURAL GAS PIPELINE
SPECIAL PROVISIONS**

See attached for TR-0158 Provisions.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT OVERHEAD UTILITY PROVISIONS
TR - 0162 (Rev. 12/2007)

See attached for TR-0162 Provisions.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT UNDERGROUND UTILITY PROVISIONS
TR - 0163 (Rev. 03/2013)

See attached for TR-0163 Provisions.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION Page 1 of 2
STORM WATER SPECIAL PROVISIONS for MINIMAL or NO IMPACT
TR-0400 (Rev 09/2012)
See attached for TR-0400 Provisions.

VIBRIO GENERATING EQUIPMENT (GV) SPECIAL PROVISIONS

1. Equipment shall not be operated on any pavement or other paved surface.
2. Equipment shall not be operated within access-controlled rights of way.
3. Equipment shall be placed and operated as close to the right of way line as possible.
4. Equipment shall be operated so that no damage will occur to trees, plants, wells, culverts, headwalls, structures or other improvements.
5. This permit does not authorize the shear wave method.
6. Equipment shall not be parked on or operated on the traveled way except for normal legal travel.

7. Personnel working within the State right of way shall wear Personal Safety Equipment including hardhat and safety vest per Cal-OHSA requirement.
8. All mud, dirt or gravel tracked onto the highway pavement shall be immediately and completely removed.
9. Dirt areas within the State right of way disturbed by Geophysical testing operations shall be graded back to its original shape and grade.

TREE TRIMMING, REMOVAL, AND CHEMICAL APPLICATION (LT) SPECIAL PROVISIONS

I. GENERAL

1. Any traffic control that requires lane closure shall be in compliance with the appropriate traffic control plan. Where required by the plan, the use of a flashing arrow board is MANDATORY.
2. All debris shall be removed from the right of way and the area left in a safe and presentable condition at the end of each work day.
3. Climbing Spurs shall not be used except when removing trees or when working in the tops of Eucalyptus, Palms and Conifers.
4. Head back trim consists of reducing the height and/or spread of a tree by not more than one third. Head back trim is performed by a method called "drop crotch" pruning, which permits the preservation of a natural appearing foliage margin. Drop crotch pruning consists of removing perimeter branches at their junction with shorter branches. The shorter branches are retained intact to form a new foliage margin at the specified height and/or spread.

II. TREE TRIMMING

Tree trimming shall be performed by or under the detailed supervision of Permittee's DB Contractor's qualified tree trimmer and the work must conform to the following:

1. In general, only light trimming of annual growth 2" or less in diameter will be permitted. The basic structure of the tree must be preserved. All large cuts shall be painted.
2. All trees shall be left in a symmetrical shape that is characteristic to their species.
3. This Permit alone does not grant permission to trim trees which are wholly or partly on private property. Permission must also be secured from the local property owner before trimming these trees.
4. Permittee's DB Contractor shall trim excessive growth on the sides or top of the tree in all instances where it is obvious that previous pruning practices (topping and/or side trimming) are the cause of the excessive growth over State or adjacent private property. The finished tree shall be balanced and symmetrical.

5. Crown reduction shall be accomplished by use of selective trimming, not directive. Cuts, whenever possible, shall be made at strong laterals. Stubbing and/or shear pruning will not be permitted.
6. Limbs larger than 2" in diameter may be removed for restructuring of the crown framework or to remove undesirable growth. Entire limbs may be cut off at the trunk. Care must be taken to avoid large holes in the canopy or to avoid creating unbalanced trees.
7. Pruning should be done only to maintain minimum required clearances for a two year (2) maximum period.
8. Trimming which would have the effect of forcing an unbalanced side growth or hazardous overhang on the highway will not be permitted. Under these conditions, proper thinning and heading in will be required before top or center trimming is permitted. The terminal bud of the leader shall not be removed.
9. Restructuring growth shall be cut for removal of crows' nests or brooms. Locate these cuts at strong laterals on older wood. Thinning by selective trimming or drop crotching for a more open canopy is desirable. The terminal bud shall not be removed.
10. All Elm trees shall be pruned and debris removed according to Department of Forestry Regulations.
11. All Pines shall be pruned and debris removed according to recommendations of Department of Forestry to prevent spread of pitch canker.
12. Final pruning cuts shall be made without leaving a stub. They shall be made in a manner to favor the earliest possible covering of the wound by callus growth. This requires that the wound be as small as practicable; the cut be reasonably flush and within the shoulder ring area; and that the cambial tissues at the edge of the cut be alive and healthy. Extremely flush cuts that produce large wounds and weaken the tree at the cut shall not be made.

MANDATORY INSPECTIONS REQUIRED

IRRIGATION:

- a) Trenching and placing of supply lines.
- b) Pressure testing of supply lines.
- c) Backfill and compaction.
- d) Sprinklers and sprinkler coverage.
- e) Functional test.

PLANTING:

- a) Inspection Certificates (Nursery Stock Certificates) required by law shall accompany each shipment of plants. All plant materials and nursery invoices shall be inspected prior to planting.
- b) Designate plant locations.
- c) Preparation of planting areas and plant holes.
- d) Upon completion of planting.
- e) Additional inspections as determined by the Caltrans' Representative may be required.

If a registered Civil Engineer is chosen, in lieu of a registered Landscape Architect to perform the function of a Resident Engineer, Permittee shall furnish, at Permittee's expense, and subject to the approval of Caltrans Representative, a landscape architect to perform the function of assistant "Resident Engineer" who is responsible for both daily on-site inspections and final decisions including but not limited to: the highway planting and irrigation system portions of the work. Final decisions shall continue to be subject to the satisfaction and approval of the Caltrans Representative.

SOURCE OF MATERIALS:

All work shall comply with the Department's current issue of STANDARD SPECIFICATIONS. Section 20-2.13 "Materials" of the Standard Specifications states that the Permittee's DB Contractor shall furnish a certificate of compliance for irrigation equipment, soil amendment, and mulch. This certificate shall be supplied to the Caltrans Representative prior to use of any such material.

As-Built Plans and Other Completion Records

AS-BUILT" PLANS ARE REQUIRED UPON COMPLETION OF ALL WORK. PLEASE REFER TO THE GENERAL PROVISION TR-0045, ITEM 22 FOR THE "AS-BUILT" REQUIREMENTS. NO FINAL INSPECTION WILL BE PERFORMED UNTIL THE DEPARTMENT IS IN RECEIPT OF "AS-BUILT" PLANS

The Encroachment Permit General Provisions require submittal of as-built plans (updated original project plan sheets showing changes made during construction) by the Permittee when specified in the permit. Utility permittees are required by the California Public Utilities Commission (C.P.U.C) to keep and maintain their own records.

Upon completion of permit work, the Permittee also furnishes to Caltrans details of the locations of hidden encroachments so that information may be retained for Caltrans' future reference.

If the permit includes any capital improvement work (whether a Capital Outlay Program or a Permit Program) involving structure related facilities, then submittals of structure as-builts and other structure completion records are required as detailed in Structure Work Special Provision (see below).

Additionally, utility or private entity permittees, working on these projects, shall submit accurate, reproducible as-built plans and any other required completion records to Caltrans for approval before bonds are released. Local agency permittees failing to provide complete, accurate, and reproducible, signed and approved completion records to Caltrans for permit work shall be cause for the State to require performance bonds on future permits. Future permitted work is subject to a bond requirement until the completion records of said previously permitted work is submitted satisfactorily (California Streets and Highways Code, Section 678).

As-built plans should conform to requirements stated in Caltrans' "Plans Preparation Manual", "Construction Manual", and "Structures OSFP Information and Procedures Guide". As-built plans must be stamped, signed, and dated as follows:

As-Built plans for Roadway
Geometric and Above Ground Features

State's Representative

Date

STRUCTURE WORK

Use these special provisions when Permit includes any capital improvement work (Capital Outlay Program or Permit Program) involving structure related facilities such as: modification to existing bridges, new bridges, all tunnels, underground structures, single and multi-cell culverts wider than 20' measured in the direction of traffic, storage boxes, non-standard retaining walls, non-standard sound walls (including sound walls on retaining wall), earth retaining systems, bridge-mounted sign structures, overhead sign structures, pump plants, slope paving under bridges (including any paving or channel lining around bridge columns), seal slabs/boat sections, transit stations, and toll plazas.

1) BEGINNING OF WORK:

The Permittee's DB Contractor shall notify the Department's Representative, JOHN ZEHNDER at 714-803-2588 Two (2) weeks before the intent to start permitted work to ensure coordination with the Division of Structure Construction.

2) CONTRACT DOCUMENTS:

In addition to the number of as-advertised contract document sets required by Caltrans Representative for Caltrans' use, the Permittee's DB Contractor shall include a minimum of eleven (11) additional sets of contract documents (plans, special provisions and addenda) for use by the Caltrans Engineering Service Center. Upon approval of the permit application, the District Permit Office shall distribute the eleven additional sets of contract documents to:

State of California
Department of Transportation
Engineering Service Center
Office of Special Funded Projects, MS 9-2/7G
1801 30th Street
Sacramento, CA 95816

Depending on the work contemplated in the project, more copies may be required as determined by the Caltrans' Representative and the Structures OSFP Liaison Engineer.

3) AS-BUILT & OTHER COMPLETION RECORDS

Within sixty (60) days following completion and acceptance of the project construction contract, Permittee shall furnish acceptable completion records, which are applicable to the project, to the State representatives shown in the following table. Completion records shall be submitted in accordance with the "Submittal Instructions and Forms" shown in the following table. When requested by the Permittee, the State representative shall furnish the instructions and forms shown in the following table. This information is also available from the Caltrans internet website.

Completion records or accompanying correspondence shall not include disclaimer statements of any kind. Such statements shall constitute non-compliance with these provisions.

For Locally Advertised projects, the As-Built Plan Package shall include the "Structures As-Built Plan Submittal Route Slip."

Pre-Construction Meeting:

I, _____ acting as an authorized agent for the Permittee, do hereby agree to personally accomplish or have another designated person arrange for all involved company representatives to attend a pre-construction meeting with the authorized Department's Representative at _____, as specified on this permit. Such meeting must be held two (5) days or more prior to the planned start of the work on this project. The Authorized Caltrans Representative shall have complete authority to determine whether the permit conditions, either implied or written, have been complied with. The Department's Representative may then allow the permit work to proceed as appropriate. The Pre-construction Meeting Record below must be signed by both the Department's Representative and the Permittee before the permit work may start.

I have read and understand the attached General Provisions TR-0045 and other attached provisions of this permit. This agreement or a copy thereof, must be mailed back to the Department's District 12 Encroachment Permit Office at 1750 East 4th Street, Santa Ana, CA 92704 within three (3) working days prior to the pre-construction meeting. Failure to return this form could delay the release of your bonds. A copy of this document shall be at the job site at all times when work is in progress and failure to do so may result in the suspension of work, as directed by the Caltrans Representative.

It is the permittee's responsibility to insure that the Caltrans Representative is notified of work completion and that the attached Completion Notice is mailed to the Caltrans' Permit office.

Signature

Date

Print or Type Name

Position or Title

METS REQUIREMENTS:

For permits which have overhead sign and/or pole structures, Permittee' DB Contractor shall furnish a completed form DC-CEM-3101 "Notice of Materials to be Used" to the Materials Engineering and Testing Services (METS) Materials Administrator for all signal poles, sign poles, light poles, mast arms, BBS, LED's, overhead sign, and other items as specified by the State Representative along with three copies of approved plans for overhead sign and/or pole structures, specifications, special provisions and the permit that reference the permit number. Materials identified on a TL-608 "Notice of Materials to be Furnished" may require a minimum of six weeks for source inspection, testing, and approval. Materials identified on a TL-608 which are not inspected and approved by the State at the manufacturer's/fabricator's plant will be rejected for use on the State highway system. The METS Materials Administrator can be reached via fax at 916-227-7084, via e-mail at materials_administrator-METS@dot.ca.gov or the following mailing address:

State of California
Department of Transportation
Division of Engineering Services
Materials Engineering and Testing Services
Materials Administrator, MS#5
5900 Folsom Blvd., Room 517
Sacramento, CA 95819-4612

Permittee's DB Contractors or subcontractors performing welding operations for overhead sign and pole structures shall have successfully completed the Department's "Manufacturing Qualification Audit for Overhead Sign and Pole Structures," and during welding operations must be listed as having a current audit. A current list of completed audits is available at:
<http://www.dot.ca.gov/hq/esc/Translab/OSM/SMBAudits.htm>

Field welding for Overhead Sign and Pole Structures is only acceptable for splicing of Pole Structures and must be approved by METS. A welding quality control plan and galvanizing repair procedure must be approved by METS prior to start of splicing.

Copies of the audit form, and procedures for requesting and completing the audit, are available at the Transportation Laboratory or at: <http://www.dot.ca.gov/hq/esc/Translab/OSM/smbresources.htm>

8-3. WELDING

http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2006-SSPs/Sec_08_Mtls/08-3_Welding/S8-W04_E_B09-01-06.doc

WELDING FOR OVERHEAD SIGN AND POLE STRUCTURES

http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2006-SSPs/Sec_08_Mtls/08-3_Welding/S8-W05_E_B09-01-06.doc

NONDESTRUCTIVE TEST FOR OVERHEAD SIGN STRUCTURE:

http://www.dot.ca.gov/hq/esc/oe/specifications/SSPs/2006-SSPs/Sec_10/49-59/56-010_E_B09-21-07.doc

- Immediately following completion of the work permitted herein, Permittee's DB Contractor shall fax to (TBD) the **Work Completion Notice and Customer Service Questionnaire** to facilitate final permit processing.