

Appendix J – Transportation Management Plan

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12 – ORA – 005 - PM 17.9/19.3 (ALT 2)
EA: 0M980K - Project Number: 1213000084 – PPNO 2708
Program Code: 20.10.400.000

El Toro Road Interchange

**On Interstate 5 (I-5) from PM 17.9 (Los Alisos Boulevard Overcrossing) to PM
19.3 (Ridge Route Drive)**

Transportation Management Plan Data Sheet

(TMP / ALT 2)

TMP ESTIMATE

TRANSPORTATION MANAGEMENT PLAN DATA SHEET
(Preliminary TMP Elements and Costs)

CO / RTE / PM 12-ORA-5 PM 17.9/19.3 EA 1213000084 Alternative No. 2

Project Limit:

On Route 5, Between Los Alisos Boulevard Overcrossing (PM 17.9) and Ridge Route Drive (PM 19.3)

Project Description: _____

1) Public Information

<input checked="" type="checkbox"/> a. Brochures and Mailers	\$ 100,000
<input checked="" type="checkbox"/> b. Press Release	\$ Included
<input checked="" type="checkbox"/> c. Paid Advertising	\$ 200,000
<input checked="" type="checkbox"/> d. Public Information Center/Kiosk	\$ 100,000
<input checked="" type="checkbox"/> e. Public Meeting/Speakers Bureau	\$ 50,000
<input checked="" type="checkbox"/> f. Telephone Hotline	\$ 10,000
<input checked="" type="checkbox"/> g. Internet	\$ 10,000
<input checked="" type="checkbox"/> h. Others <u>Social Media Apps</u>	\$ 200,000

2) Motorists Information Strategies

<input checked="" type="checkbox"/> a. Changeable Message Signs (Fixed)	\$ 20,000
<input checked="" type="checkbox"/> b. Changeable Message Signs (Portable)	\$ 350,000
<input checked="" type="checkbox"/> c. Ground Mounted Signs	\$ 150,000
<input checked="" type="checkbox"/> d. Highway Advisory Radio	\$ 20,000
<input type="checkbox"/> e. Caltrans Highway Information Network (CHIN)	\$
<input checked="" type="checkbox"/> f. Others <u>TBD</u>	\$ 50,000

3) Incident Management

<input checked="" type="checkbox"/> a. Construction Zone Enhanced Enforcement Program (COZEEP)	\$ 2,000,000
<input checked="" type="checkbox"/> b. Freeway Service Patrol	\$ 500,000
<input checked="" type="checkbox"/> c. Traffic Management Team	\$ 350,000
<input checked="" type="checkbox"/> d. Helicopter Surveillance	\$ Included
<input checked="" type="checkbox"/> e. Traffic Surveillance Stations (Portable CCTV and traffic monitoring stations)	\$ 50,000

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EA: 0M980K - Project Number: 1213000084 – PPNO 2708
Program Code: 20.10.400.000

<input checked="" type="checkbox"/>	f. Others <u>Call Boxes 6</u>	<u>\$ 20,000</u>
<input checked="" type="checkbox"/>	g. Others <u>Project Needs</u>	<u>\$ 50,000</u>
<input checked="" type="checkbox"/>	h. Others <u>DTM</u>	<u>\$ 100,000</u>
 4) Construction Strategies		
<input checked="" type="checkbox"/>	a. Traffic Control Lane Closure	<u>\$ 1,000,000</u>
<input type="checkbox"/>	b. Reversible Lanes	<u>\$</u>
<input checked="" type="checkbox"/>	c. Total Facility Closure	<u>\$ 500,000</u>
<input type="checkbox"/>	d. Contra Flow	<u>\$</u>
<input checked="" type="checkbox"/>	e. Truck Traffic Restrictions	<u>\$ 25,000</u>
<input checked="" type="checkbox"/>	f. Reduced Speed Zone	<u>\$ 40,000</u>
<input checked="" type="checkbox"/>	g. Connector and Ramp Closures	<u>\$ 100,000</u>
<input type="checkbox"/>	h. Incentive and Disincentive	<u>\$</u>
<input checked="" type="checkbox"/>	i. Moveable Barrier	<u>\$ 50,000</u>
<input type="checkbox"/>	j. Others _____	<u>\$</u>
 5) Demand Management		
<input checked="" type="checkbox"/>	a. HOV Lanes/Ramps (New or Convert)	<u>\$ 10,000</u>
<input checked="" type="checkbox"/>	b. Park and Ride Lots	<u>\$ 40,000</u>
<input checked="" type="checkbox"/>	c. Rideshare Incentives	<u>\$ 50,000</u>
<input type="checkbox"/>	d. Variable Work Hours	<u>\$</u>
<input type="checkbox"/>	e. Telecommute	<u>\$</u>
<input checked="" type="checkbox"/>	f. Ramp Metering (Temporary Installation)	<u>\$ 80,000</u>
<input checked="" type="checkbox"/>	g. Ramp Metering (Modify Existing)	<u>\$ 60,000</u>
<input checked="" type="checkbox"/>	h. Others <u>Change timing on demand</u>	<u>\$ 50,000</u>
 6) Alternative Route Strategies		
<input type="checkbox"/>	a. Add Capacity to Freeway Connector	<u>\$</u>
<input checked="" type="checkbox"/>	b. Street Improvement (traffic signal timing modification and striping modification)	<u>\$ 100,000</u>
<input checked="" type="checkbox"/>	c. Traffic Control Officers	<u>\$ 80,000</u>
<input checked="" type="checkbox"/>	d. Parking Restrictions	<u>\$ 10,000</u>
<input checked="" type="checkbox"/>	e. Others <u>Detours</u>	<u>\$ 1,200,000</u>
 7) Other Strategies		
<input checked="" type="checkbox"/>	a. Application of New Technology	<u>\$ 10,000</u>
<input checked="" type="checkbox"/>	b. Others <u>TBD</u>	<u>\$ 10,000</u>

TOTAL ESTIMATED COST OF TMP ELEMENTS = \$ 7,745,000

12 – ORA – 005 - PM 17.9/19.3 (ALT 2)
EA: 0M980K - Project Number: 1213000084 – PPNO 2708
Program Code: 20.10.400.000

Project Notes:

Assumptions/Comments:

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1. Entire project will take approximately 3 years to construct at an approximate cost of \$95M.

 2. Current dollar values used. Inflation was not factored into the estimate.

 3. Traffic Control System is estimated at \$ 3,300,000 and includes the cost of traffic handling for all mainline lane closures, ramp lane closures and shoulder closures.

 4. Portable CMS specified for this project by this estimate are designated for congestion relief as outlined by Deputy Directive, DD-60-R-2. Portable CMS required for other purposes should be included under other specifications.

 5. The COZEEP specified for this project by this estimate is designated for congestion relief as outlined by Deputy Directive, DD-60-R-2. The COZEEP required for other purposes should be included under other specifications.

Note 1: As outlined in Deputy Directive 60-R-2, this TMP is a living document, subject to change as required by changing circumstances. If there is material change to the project scope which will affect the function or adequacy of the TMP, then changes to the TMP must be addressed. If traffic conditions at the project site demonstrate that TMP elements need to be adjusted to adequately address congestion, then the TMP shall be altered accordingly.

Note 2: Hospitals with emergency services and fire stations that may require access through work zones at all hours should be accommodated. Schools, major venues, shopping malls, and other heavily utilized areas should also be notified of construction activities that may impact their services. These services and businesses should be notified and coordinated with the use of the Public Information strategies.

12 – ORA – 005 - PM 17.9/19.3 (ALT 4)
EA: 0M980K - Project Number: 1213000084 – PPNO 2708
Program Code: 20.10.400.000

El Toro Road Interchange

**On Interstate 5 (I-5) from PM 17.9 (Los Alisos Boulevard Overcrossing) to PM
19.3 (Ridge Route Drive)**

Transportation Management Plan Data Sheet

(TMP / ALT 4)

TMP ESTIMATE

**TRANSPORTATION MANAGEMENT PLAN DATA SHEET
 (Preliminary TMP Elements and Costs)**

CO / RTE / PM 12-ORA-5 PM 17.9/19.3 EA 1213000084 Alternative No. 4

Project Limit:

On Route 5, Between Los Alisos Boulevard Overcrossing (PM 17.9) and Ridge Route Drive (PM 19.3)

Project Description: _____

1) Public Information

<input checked="" type="checkbox"/>	a. Brochures and Mailers	\$ 100,000
<input checked="" type="checkbox"/>	b. Press Release	\$ Included
<input checked="" type="checkbox"/>	c. Paid Advertising	\$ 200,000
<input checked="" type="checkbox"/>	d. Public Information Center/Kiosk	\$ 100,000
<input checked="" type="checkbox"/>	e. Public Meeting/Speakers Bureau	\$ 50,000
<input checked="" type="checkbox"/>	f. Telephone Hotline	\$ 10,000
<input checked="" type="checkbox"/>	g. Internet	\$ 10,000
<input checked="" type="checkbox"/>	h. Others <u>Social Media Apps</u>	\$ 200,000

2) Motorists Information Strategies

<input checked="" type="checkbox"/>	a. Changeable Message Signs (Fixed)	\$ 20,000
<input checked="" type="checkbox"/>	b. Changeable Message Signs (Portable)	\$ 300,000
<input checked="" type="checkbox"/>	c. Ground Mounted Signs	\$ 120,000
<input checked="" type="checkbox"/>	d. Highway Advisory Radio	\$ 20,000
<input type="checkbox"/>	e. Caltrans Highway Information Network (CHIN)	\$
<input checked="" type="checkbox"/>	f. Others <u>TBD</u>	\$ 50,000

3) Incident Management

<input checked="" type="checkbox"/>	a. Construction Zone Enhanced Enforcement Program (COZEEP)	\$ 1,700,000
<input checked="" type="checkbox"/>	b. Freeway Service Patrol	\$ 400,000
<input checked="" type="checkbox"/>	c. Traffic Management Team	\$ 350,000
<input checked="" type="checkbox"/>	d. Helicopter Surveillance	\$ Included
<input checked="" type="checkbox"/>	e. Traffic Surveillance Stations (Portable CCTV and traffic monitoring stations)	\$ 50,000

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Program Code: 20.10.400.000

<input checked="" type="checkbox"/>	f. Others <u>Call Boxes 6</u>	<u>\$ 20,000</u>
<input checked="" type="checkbox"/>	g. Others <u>Project Needs</u>	<u>\$ 50,000</u>
<input checked="" type="checkbox"/>	h. Others <u>DTM</u>	<u>\$ 100,000</u>
 4) Construction Strategies		
<input checked="" type="checkbox"/>	a. Traffic Control Lane Closure	<u>\$ 1,000,000</u>
<input type="checkbox"/>	b. Reversible Lanes	<u>\$</u>
<input checked="" type="checkbox"/>	c. Total Facility Closure	<u>\$ 500,000</u>
<input type="checkbox"/>	d. Contra Flow	<u>\$</u>
<input checked="" type="checkbox"/>	e. Truck Traffic Restrictions	<u>\$ 25,000</u>
<input checked="" type="checkbox"/>	f. Reduced Speed Zone	<u>\$ 40,000</u>
<input checked="" type="checkbox"/>	g. Connector and Ramp Closures	<u>\$ 100,000</u>
<input type="checkbox"/>	h. Incentive and Disincentive	<u>\$</u>
<input checked="" type="checkbox"/>	i. Moveable Barrier	<u>\$ 50,000</u>
<input type="checkbox"/>	j. Others _____	<u>\$</u>
 5) Demand Management		
<input checked="" type="checkbox"/>	a. HOV Lanes/Ramps (New or Convert)	<u>\$ 10,000</u>
<input checked="" type="checkbox"/>	b. Park and Ride Lots	<u>\$ 40,000</u>
<input checked="" type="checkbox"/>	c. Rideshare Incentives	<u>\$ 50,000</u>
<input type="checkbox"/>	d. Variable Work Hours	<u>\$</u>
<input type="checkbox"/>	e. Telecommute	<u>\$</u>
<input checked="" type="checkbox"/>	f. Ramp Metering (Temporary Installation)	<u>\$ 80,000</u>
<input checked="" type="checkbox"/>	g. Ramp Metering (Modify Existing)	<u>\$ 60,000</u>
<input checked="" type="checkbox"/>	h. Others <u>Change timing on demand</u>	<u>\$ 50,000</u>
 6) Alternative Route Strategies		
<input type="checkbox"/>	a. Add Capacity to Freeway Connector	<u>\$</u>
<input checked="" type="checkbox"/>	b. Street Improvement (traffic signal timing modification and striping modification)	<u>\$ 100,000</u>
<input checked="" type="checkbox"/>	c. Traffic Control Officers	<u>\$ 80,000</u>
<input checked="" type="checkbox"/>	d. Parking Restrictions	<u>\$ 10,000</u>
<input checked="" type="checkbox"/>	e. Others <u>Detours</u>	<u>\$ 1,500,000</u>
 7) Other Strategies		
<input checked="" type="checkbox"/>	a. Application of New Technology	<u>\$ 10,000</u>
<input checked="" type="checkbox"/>	b. Others <u>TBD</u>	<u>\$ 10,000</u>

TOTAL ESTIMATED COST OF TMP ELEMENTS = \$ 7,565,000

12 – ORA – 005 - PM 17.9/19.3 (ALT 4)
EA: 0M980K - Project Number: 1213000084 – PPNO 2708
Program Code: 20.10.400.000

Project Notes:

Assumptions/Comments:

-
1. Entire project will take approximately 2.5 Years to construct at an approximate cost of \$70M.

 2. Current dollar values used. Inflation was not factored into the estimate.

 3. Traffic Control System is estimated at \$ 3,520,000 and includes the cost of traffic handling for all mainline lane closures, ramp lane closures and shoulder closures.

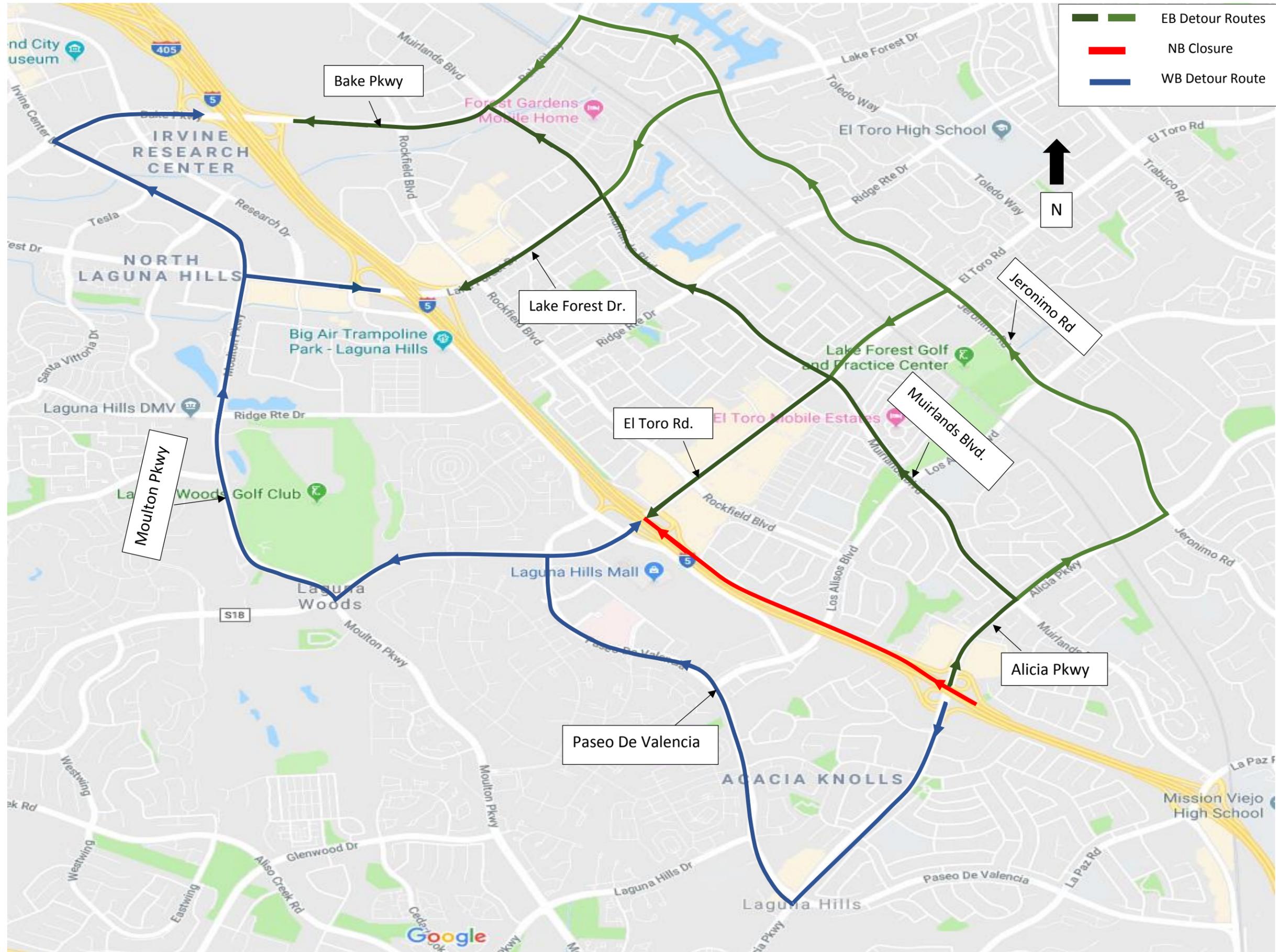
 4. Portable CMS specified for this project by this estimate are designated for congestion relief as outlined by Deputy Directive, DD-60-R-2. Portable CMS required for other purposes should be included under other specifications.

 5. The COZEEP specified for this project by this estimate is designated for congestion relief as outlined by Deputy Directive, DD-60-R-2. The COZEEP required for other purposes should be included under other specifications.

Note 1: As outlined in Deputy Directive 60-R-2, this TMP is a living document, subject to change as required by changing circumstances. If there is material change to the project scope which will affect the function or adequacy of the TMP, then changes to the TMP must be addressed. If traffic conditions at the project site demonstrate that TMP elements need to be adjusted to adequately address congestion, then the TMP shall be altered accordingly.

Note 2: Hospitals with emergency services and fire stations that may require access through work zones at all hours should be accommodated. Schools, major venues, shopping malls, and other heavily utilized areas should also be notified of construction activities that may impact their services. These services and businesses should be notified and coordinated with through the use of the Public Information strategies.

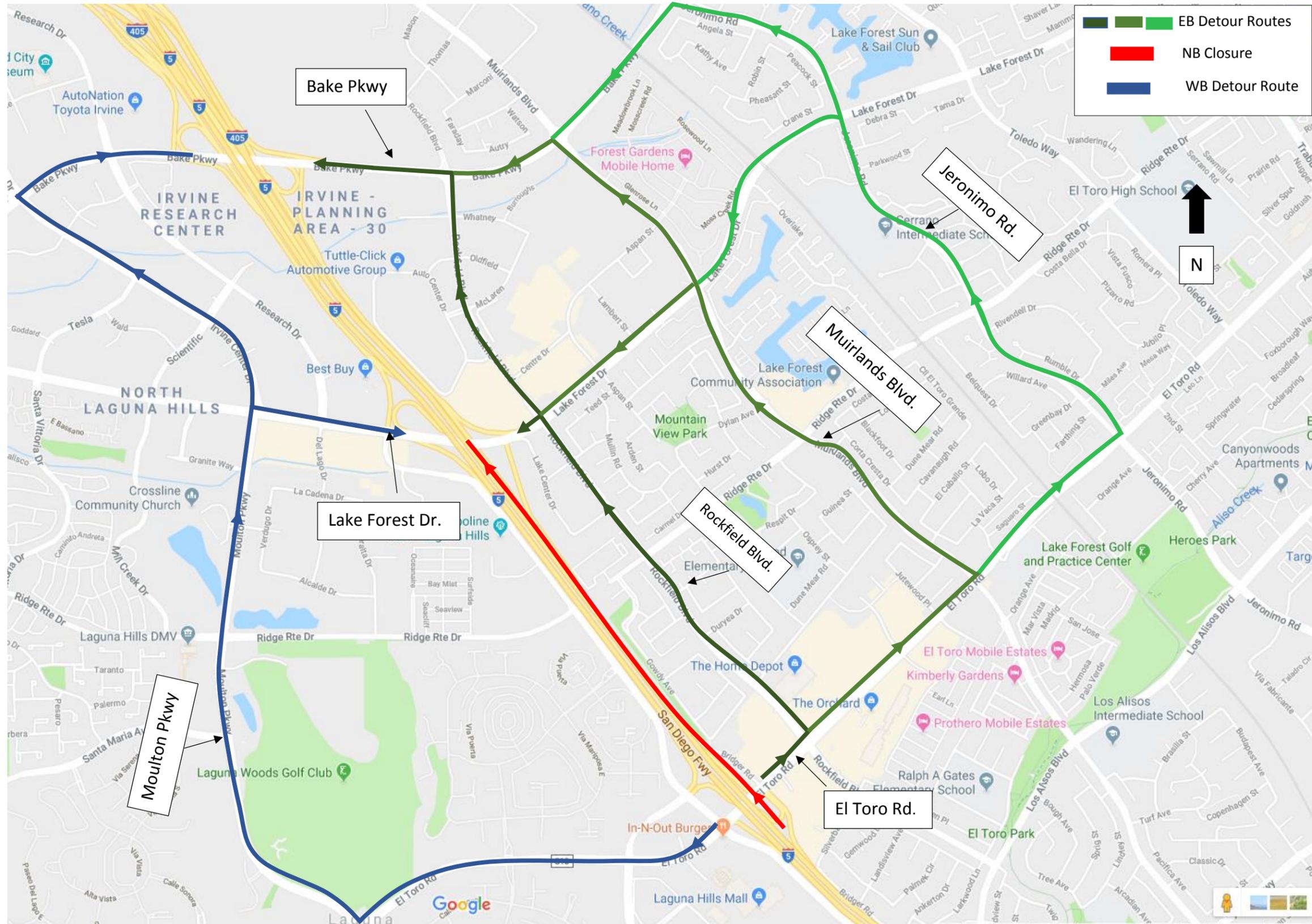
Proposed Detour Route



NB-EL Toro

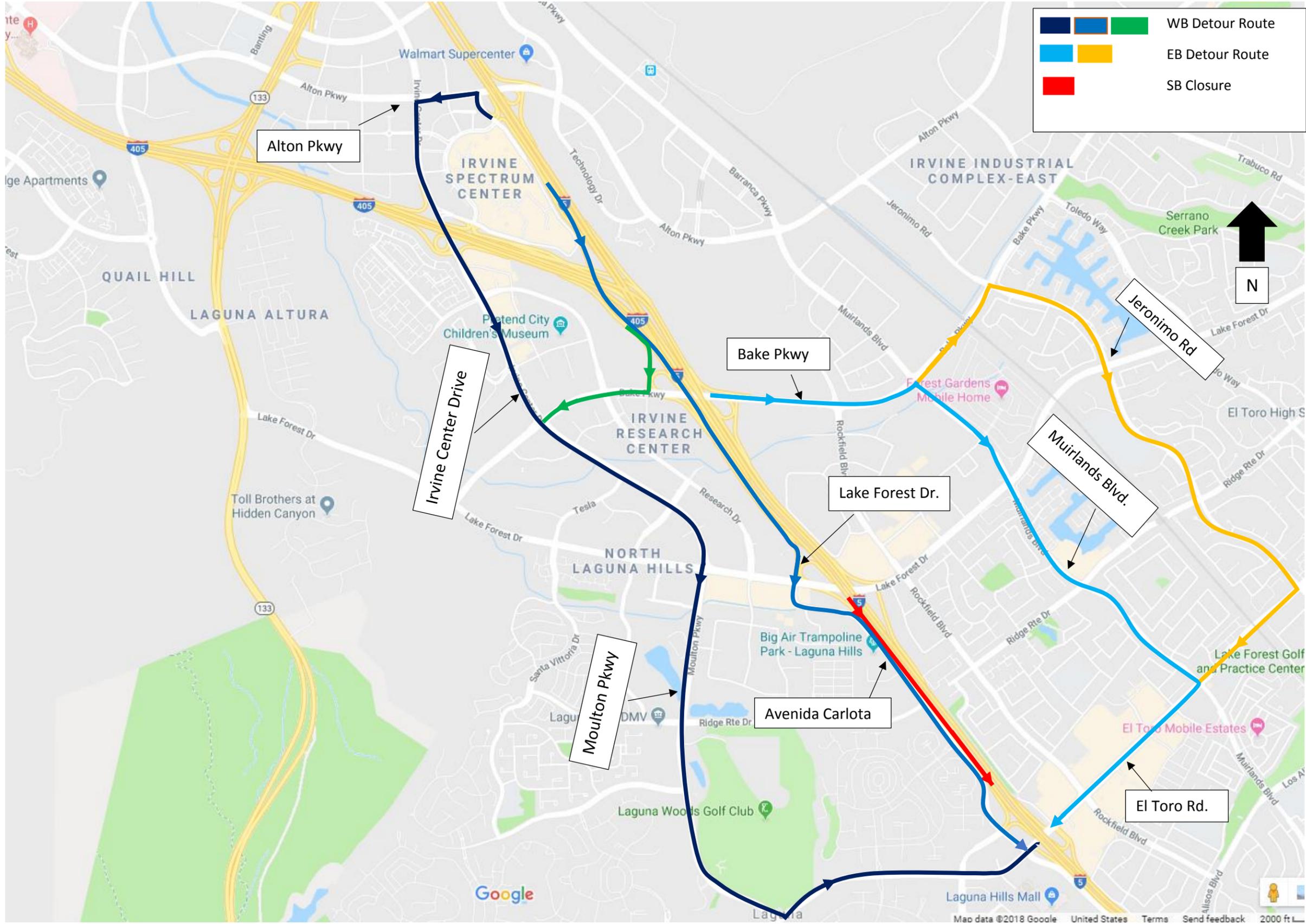
Mainline Segment Closure: NB I-5 El Toro Rd. on-ramp to Lake Forest Dr. off-ramp

Proposed Detour Route



Proposed Detour Route

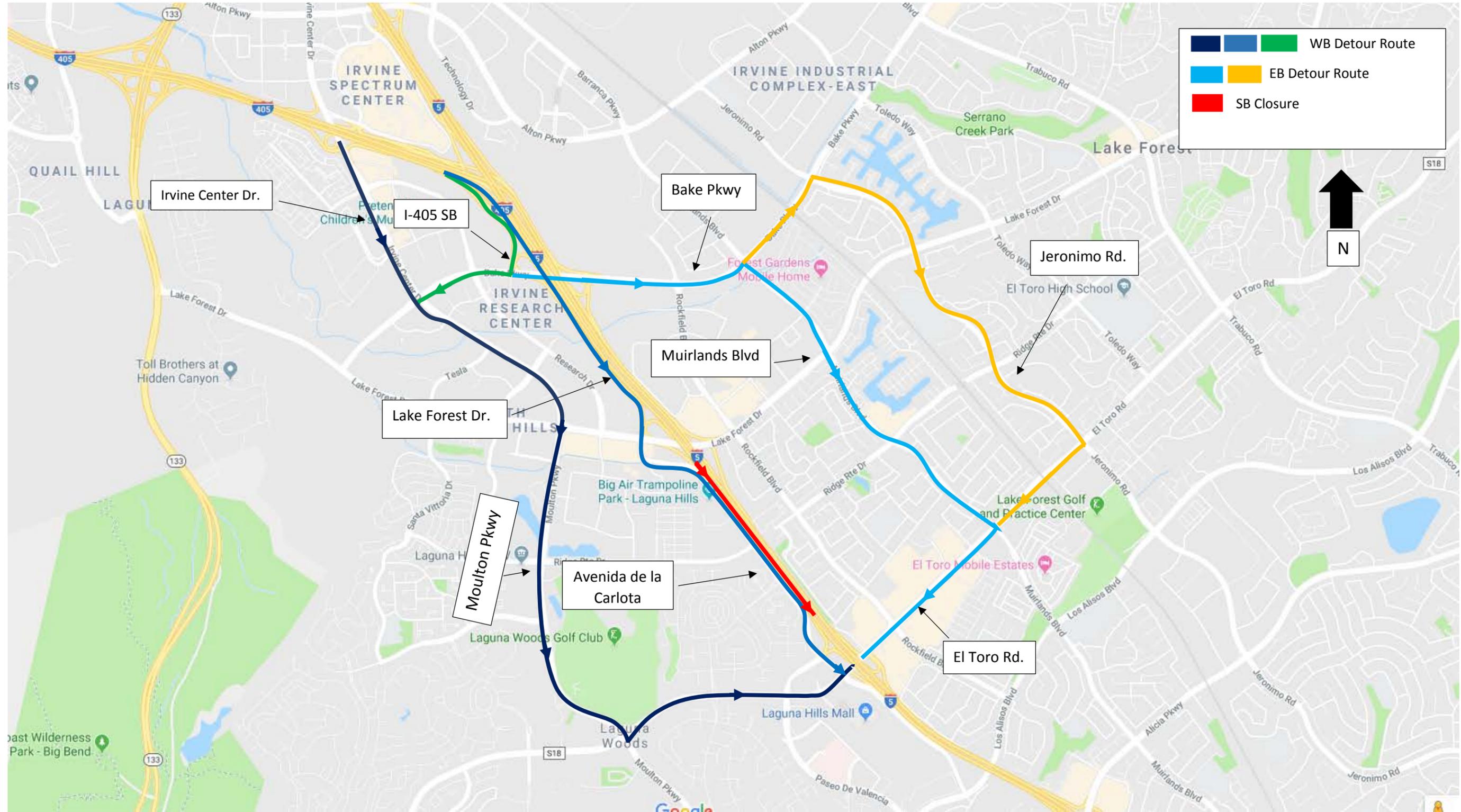
			WB Detour Route
			EB Detour Route
			SB Closure



SB-Lake Forest 2

Mainline Segment Closure: SB I-5 Lake Forest Drive on-ramp to El Toro Road off-ramp

Proposed Detour Route



SB EL Toro

Mainline Segment Closure: SB I-5 El Toro on-ramp to Alicia Parkway off-ramp

Proposed Detour Route

