

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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www.dot.ca.gov/hq/esc/oe

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Be energy efficient!*

August 19, 2013

11-SD-VAR-VAR
11-401404
Project ID 1100000531
ACHSNHP-X073(102)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY AT VARIOUS LOCATIONS.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, August 29, 2013.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid book*, *Information Handout*, and the Federal Minimum Wages with Modification Number 11 dated 08/16/2013.

Project plan sheets 4, 25, 38, 57, 105, 107, 121, 133, 134, 135, 136, 141, 142, 177, 178, 183, 184, 185, 186, 187, 188, 190, 191, 248, 249, 251, 253, and 255 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 71a, 162a, 162b, 162c, 174a, are added and attached for addition to the project plans.

In the *Notice to Bidders and Special Provisions*, in the "STANDARD PLANS LIST," the following Standard Plan is added as follows:

"H51."

In the Special Provisions, Section 12 is replaced as attached.

In the Special Provisions, Section 83 is replaced as attached.

In the *Information Handout*, in the "Geotechnical Design Report for Concrete Outer Separation Barrier at Location 24, dated January 9, 2012," "Table 1, Subsurface Soil Description," is added as attached.

In the *Information Handout*, in the "Geotechnical Design Report for Concrete Outer Separation Barrier at Location 25, dated February 25, 2012," "Table 1, Subsurface Soil Description," is added as attached.

Addendum No. 3
Page 2
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In the *Bid* book, in the "Bid Item List," Items 8, 10, 12, 13, 14, 23, 28, 31, 37, 40, 41, 82, 119, 121, 123, 124, 126, and 127 are replaced, -Items 135, 136, and 137 are added and Items 83 and 134 are deleted as attached.

To *Bid* book holders:

In the *Bid* book, pages 3, 4, 5, 7, 8, 9 and 10 of the "Bid Item List" are replaced as attached. The attached Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the *Bid* book.

Submit bids in the *Bid* book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-401404

If you are not a *Bid* book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



 LAURIE BERMAN
District Director

Attachments

12 TEMPORARY TRAFFIC CONTROL

Add to section 12-3.12C:

Start displaying the message on the portable changeable message sign 30 minutes before closing the lane.

Place the portable changeable message sign in advance of the 1st warning sign for each:

1. Stationary lane closure
2. Off-ramp closure
3. Connector closure
4. Shoulder closure
5. Speed reduction zone

Replace section 12-3.13 with:

12-3.13 IMPACT ATTENUATOR VEHICLE

12-3.13A General

12-3.13A(1) Summary

Section 12-3.13 includes specifications for protecting traffic and workers with an impact attenuator vehicle during moving lane closures and when placing and removing components of stationary lane closures, ramp closures, shoulder closures, or a combination.

Do not use an impact attenuator vehicle to place, remove, or place and remove components of a stationary traffic control system on locations where the useable shoulder width is less than 10 feet unless authorized.

Impact attenuator vehicles must comply with the following test levels under National Cooperative Highway Research Program 350:

1. Test level 3 if the preconstruction posted speed limit is 50 mph or more
2. Test levels 2 or 3 if the preconstruction posted speed limit is 45 mph or less

Comply with the attenuator manufacturer's instructions for:

1. Support truck
2. Trailer-mounted operation
3. Truck-mounted operation

Flashing arrow signs must comply with section 12-3.03. You may use a portable changeable message sign instead of a flashing arrow sign. If a portable changeable message sign is used as a flashing arrow sign, it must comply with section 6F.56 "Arrow Panels" of the *California MUTCD*.

12-3.13A(2) Definitions

impact attenuator vehicle: A support truck that is towing a deployed attenuator mounted to a trailer or a support truck with a deployed attenuator that is mounted to the support truck.

12-3.13A(3) Submittals

Upon request, submit a certificate of compliance for each attenuator used on the project.

12-3.13A(4) Quality Control and Assurance

Do not start impact attenuator vehicle activities until authorized.

Before starting impact attenuator vehicle activities, conduct a preinstallation meeting with the Engineer, subcontractors, and other parties involved with traffic control to discuss the operation of the impact attenuator vehicle during moving lane closures and when placing and removing components of stationary traffic control systems.

Schedule the location, time, and date for the preinstallation meeting with all participants. Furnish the facility for the preinstallation meeting within 5 miles of the job site or at another location if authorized.

12-3.13B Materials

Attenuators must be a brand on the Authorized Material List for highway safety features.

The combined weight of the support truck and the attenuator must be at least 19,800 pounds, except the weight of the support truck must not be less than 16,100 or greater than 26,400 pounds.

For the Trinity MPS-350 truck-mounted attenuator, the support truck must not have a fuel tank mounted underneath within 10'-6" of the rear of the support truck.

Each impact attenuator vehicle must have:

1. Legal brake lights, taillights, sidelights, and turn signals
2. Inverted "V" chevron pattern placed across the entire rear of the attenuator composed of alternating 4-inch wide nonreflective black stripes and 4-inch wide yellow retroreflective stripes sloping at 45 degrees
3. Type II flashing arrow sign
4. Flashing or rotating amber light
5. Operable 2-way communication system for maintaining contact with workers

12-3.13C Construction

Except where prohibited, use an impact attenuator vehicle:

1. To follow behind equipment and workers who are placing and removing components of a stationary lane closure, ramp closure, shoulder closure, or any combination. Operate the flashing arrow sign in the arrow or caution mode during this activity, whichever applies. Follow at a distance that prevents intrusion into the workspace from passing traffic.

After placing components of a stationary traffic control system you may place the impact attenuator vehicle in advance of the work area or at another authorized location to protect traffic and workers.

Secure objects, including equipment, tools, and ballast on impact attenuator vehicles to prevent loosening upon impact by an errant vehicle.

Do not use a damaged attenuator in the work. Replace any attenuator damaged from an impact during work activities at your expense.

12-3.13 Payment

Not Used

Add section 12-3:

12-3.18 ALTERNATIVE TEMPORARY CRASH CUSHION SYSTEM

12-3.18A General

12-3.18A(1) Summary

This section includes specifications for installing and maintaining alternative temporary crash cushion system as shown under the manufacturer's installation instructions and these special provisions.

The allowable alternatives for temporary crash cushion must consist of one of the following National Cooperative Highway Research Program (NCHRP) Report 350, Test Level 3 devices, or a Department-approved equal.

12-3.18C Submittals

Submit to the engineer a certificate of compliance and a copy of the manufacturer's installation instructions for the alternative temporary crash cushion.

12-3.18D Materials

An alternative temporary crash cushion must be one of the following:

1. TYPE ADIEM-350 - Gating, re-directive capability (beginning length of need at 15 feet from nose) manufactured by Trinity Highway Products, LLC, and must include the items detailed for crash cushion (Type ADIEM 350) shown on the manufacturer plans and installation instructions. You can obtain the crash cushion (Type ADIEM 350) from the supplier, C&W Construction Specialties, Inc., 2419 Palma Drive, Ventura, CA 93003, telephone (805) 642-0204.
2. TYPE ACZ -350 - Gating, non-redirective crash cushion manufactured by Energy Absorption, Inc., and must include items detailed for Type ACZ -350 shown on the manufacturer plans and installation instructions. The ACZ - 350 can be obtained from the distributor, National Trench Safety LLC, 1421 N. Baxter Street, Anaheim, CA 92806, telephone (714) 491-7393.
3. TYPE ABORB - 350 - Gating, non-redirective crash cushion manufactured by Barrier Systems Inc., and must include items detailed for the temporary crash cushion (Type Absorb 350) shown on the manufacturer plans and installation instructions. The Absorb 350 can be obtained from the distributor, Statewide Traffic Safety & Signs, 13755 Blaisdell Place, Poway, CA 92064, (858) 679-7292.
4. TYPE QUADGUARD CZ - Non-Gating, re-directive crash cushion manufactured by Energy Absorption, Inc., and must include items detailed for Quadguard CZ crash cushion shown on the manufacturer plans and installation instructions. The Quadguard CZ can be obtained from the distributor, National Trench Safety LLC, 1421 N. Baxter Street, Anaheim, CA 92806, telephone (714) 491-7393.
5. TYPE QUADGUARD II CZ - Non-Gating, re-directive crash cushion manufactured by Energy Absorption, Inc., and must include items detailed for Quadguard II crash cushion shown on the manufacturer plans and installation instructions. The Quadguard II can be obtained from the distributor, National Trench Safety LLC, 1421 N. Baxter Street, Anaheim, CA 92806, telephone (714) 491-7393.

12-3.18E Construction

The alternative temporary crash cushion must be installed in conformance with the manufacturer's installation instructions.

Concrete anchorage devices for attaching alternative temporary crash cushion to the base slab is limited to those provided by the manufacturer.

Concrete anchor slab when required must comply with section 51, except the strength is to be 4,000 psi at 28 days.

Roadway excavation if required must comply with section 19-2.

After installing the temporary crash cushion, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

12-3.18F Payment

Not used

Add to section 12-4.02A:

If work including installing, maintaining, and removing Type K temporary railing is to be performed within 6 feet of the adjacent traffic lane, close the adjacent traffic lane.

Except as listed above, closure of the adjacent traffic lane is not required for installing, maintaining, and removing traffic control devices.

For grinding and grooving operations, sawcutting concrete slabs, and installing loop detectors with an impact attenuator vehicle as a shadow vehicle, closure of the adjacent traffic lane is not required.

Designated holidays are as shown in the following table:

Designated Holidays	
Holiday	Date observed
New Year's Day	January 1st
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Christmas Day	December 25th

If a designated holiday falls on a Sunday, the following Monday is a designated holiday. If November 11th falls on a Saturday, the preceding Friday is a designated holiday.

Freeway closure charts are for replacing MBGR with concrete barrier, upgrading crash cushions, and other authorized work.

Personal vehicles of your employees must not be parked on the traveled way or shoulders, including sections closed to traffic.

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area as shown.

If a connector closure is required within the limits of a freeway lane closure, complete the work on the connector first. Then, complete the work on the freeway traveled way necessary to ensure safe passage of traffic between the connector and open freeway lanes. Complete the remaining work only after reopening the connector.

Add between the 3rd and 4th paragraphs of the RSS for section 12-4.03:

For the following operations, submit the contingency plan and discuss with the Engineer at least 5 business days before starting that operation:

1. Activity requiring a full roadway closure

Add to section 12-4.03:

For each 10-minute interval or fraction thereof past the time specified to reopen the closure, the Department deducts the amount for damages per interval shown below. Damages are limited to 5 percent of the total bid per occurrence. Damages are not assessed if the Engineer orders the closure to remain in place beyond the scheduled pickup time.

Type of facility	Route or segment	Period	Damages/interval (\$)
Mainline	Route 15 (SB) Location #23	1st half hour 2nd half hour 2nd hour and beyond	\$2,400 / 10 minutes \$3,600 / 10 minutes \$4,800 / 10 minutes
Mainline	Route 8 (WB) Location #11	1st half hour 2nd half hour 2nd hour and beyond	\$1,000 / 10 minutes \$1,000 / 10 minutes \$1,200 / 10 minutes
Connector	At Route 8 (WB) Location #15 (Route 805 NB and SB to Route 8 WB)	1st half hour 2nd half hour 2nd hour and beyond	\$1,000 / 10 minutes \$1,000 / 10 minutes \$1,000 / 10 minutes
Connector	At Route 15 (SB) Location #21 (Route 15 SB to Route 8 WB)	1st half hour 2nd half hour 2nd hour and beyond	\$1,100 / 10 minutes \$1,600 / 10 minutes \$2,200 / 10 minutes
Connector	At Route 15 (NB) Location #24 (Route 52 EB and WB to Route 15 NB)	1st half hour 2nd half hour 2nd hour and beyond	\$1,100 / 10 minutes \$1,700 / 10 minutes \$2,250 / 10 minutes
Connector	At Route 125 (NB) Location #34 (Route 125 NB to Route 52)	1st half hour 2nd half hour 2nd hour and beyond	\$1,600 / 10 minutes \$2,100 / 10 minutes \$3,200 / 10 minutes

Replace "Reserved" in section 12-4.04 with:

Lane Closure Restriction for Designated Holidays										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
	H									
x	xx	xx	xx							
	xx									
		H								
x	xx	xx	xx							
		xx								
	x	xx	H							
			xx	xx						
			xx							
	x	xx	xx	H						
				xx	xxx					
	x	xx	xx	xx						
					H					
				x	xx					
					xx					
				x						
						H				
						xx				
						xx				
							H			
						x	xx	xx	xx	xx
							xx			

Legend:

	Refer to lane requirement charts
x	The full width of the traveled way must be open for use by traffic after 1200.
xx	The full width of the traveled way must be open for use by traffic.
xxx	The full width of the traveled way must be open for use by traffic until 0500.
H	Designated holiday

Replace "Reserved" in section 12-4.05B with:

Chart no. B1 Freeway/Expressway Lane Requirements																											
County: SD					Route/Direction: 5/SB										PM: R14.74 - R14.20												
Closure limits: J St. OC to Beardsley Ave POC																											
From hour to hour																											
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	3	3	3	3	3																			3	3	3	
Fridays	3	3	3	3	3																						
Saturdays																											
Sundays																									3	3	3

Legend:

3 Provide at least 3 adjacent through freeway lanes open in direction of travel

Work allowed within the highway where shoulder or lane closure is not required

REMARKS:
This chart to be used for Loc # (2)

Chart no. B2 Freeway/Expressway Lane Requirements																												
County: SD					Route/Direction: 5/SB										PM: R17.53 – R16.59													
SD					5/SB										R19.33 – R18.28													
Closure limits: Pacific Highway Viaduct to First Ave. OC																												
0.30 Mi. north of Old Town Ave. OC to Washington St. 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	2	2	2	2																				2	2	2	
Fridays	2	2	2	2	2																							
Saturdays																												
Sundays																										2	2	2

Legend:

2 Provide at least 2 adjacent through freeway lanes open in direction of travel

Work allowed within the highway where shoulder or lane closure is not required

REMARKS:
This chart to be used for Loc # (3, 4)

Chart no. B3 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 5/NB										PM: R29.46 – R30.43											
Closure limits: Genesee Ave. OC to Sorrento Valley OH																										
From hour to hour																										
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays				3	3	3	3	3	3	3																
Sundays				3	3	3	3	3	3	3	3													3	3	3
Legend:																										
<input type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																										
REMARKS: This chart to be used in conjunction with chart # D3 This closure to be used for Loc # (5)																										

Chart no. B4 Freeway/Expressway Lane Requirements																											
County: SD					Route/Direction: 5/SB										PM: R33.63 – 32.91												
Closure limits: 0.50 Mi. south of Del Mar Heights OC to Carmel Valley Rd. 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	3	3	3	3	3																				3	3	3
Fridays	3	3	3	3	3																						
Saturdays																											
Sundays																									3	3	3
Legend:																											
<input type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																											
REMARKS: This closure to be used for Loc # (7)																											

Chart no. B5 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 5/SB										PM: R72.37 – R72.18											
Closure limits: 0.09 Mi. north of Cristianito Rd. OC to 0.10 Mi. south of Cristianito Rd. 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	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays				3	3	3	3	3	3	3	3															
Sundays				3	3	3	3	3	3	3	3													3	3	3
Legend:																										
<input type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																										
REMARKS:																										
This closure to be used for Loc # (8)																										

Chart no. B6 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 5/SB										PM: 54.49 – 54.04											
Closure limits: 0.10 Mi. north of Harbor Dr. UC to 0.35 Mi. south of Harbor Dr. 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	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays																										
Sundays																								3	3	3
Legend:																										
<input type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																										
REMARKS:																										
This closure to be used for Loc # (9)																										

Chart no. B7 Freeway/Expressway Lane Requirements																									
County: SD					Route/Direction: 8/WB										PM: 2.73 –1.81										
Closure limits: 0.5 Mi. west of Hotel Circle Dr. UC to 0.42 Mi. west of Hotel Circle Dr. 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	2	2	2	2																			2	2
Fridays	2	2	2	2	2																				
Saturdays				2	2	2	2																		
Sundays				2	2	2	2	2															2	2	2
Legend:																									
<input checked="" type="checkbox"/> 2 Provide at least 2 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																									
REMARKS:																									
This chart to be used in conjunction with chart # E6, E7 and H1																									
This closure to be used for Loc # (11)																									

Chart no. B8 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 8/EB										PM: 1.91–2.61											
Closure limits: 0.50 Mi. west of Jct. Rte. 163 to 0.20 Mi. east of Jct. Rte. 163																										
From hour to hour																										
	24	1	2	3	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																			2	2	2
Fridays	2	2	2	2	2																					
Saturdays																										
Sundays																							2	2	2	
Legend:																										
<input checked="" type="checkbox"/> 2 Provide at least 2 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																										
REMARKS:																										
This closure to be used for Loc # (12)																										

Chart no. B9 Freeway/Expressway Lane Requirements																										
County: SD							Route/Direction: 8/EB							PM: 3.60 – 4.00												
Closure Description: 0.30 Mi. west of Texas St. OC. to 0.10 Mi. east of Texas St. 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	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays				3	3	3	3	3	3																	
Sundays				3	3	3	3	3	3	3														3	3	3
Legend:																										
<input checked="" type="checkbox"/> 3 Provide at least three adjacent through freeway lanes open in direction of travel																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
This closure to be used for Loc # (14)																										

Chart no. B10 Freeway/Expressway Lane Requirements																										
County: SD							Route/Direction: 8/WB							PM: 3.95 – 3.90												
Closure limits: 0.50 Mi. east of Texas St. OC to Texas St. 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	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays																										
Sundays																								3	3	3
Legend:																										
<input checked="" type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel																										
<input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																										
REMARKS:																										
This closure to be used for Loc # (15)																										

Chart no. B11 Freeway/Expressway Lane Requirements																									
County: SD					Route/Direction: 8/EB										PM: 5.29 – 5.74										
Closure Description: 0.35 Mi. west of Jct. Rte. 15 to 0.10 Mi. east of Jct. Rte. 15																									
FROM HOUR TO HOUR																									
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	3	3	3	3	3																				3
Fridays	3	3	3	3	3																				
Saturdays																									
Sundays																									3
Legend:																									
<input type="checkbox"/> 3 Provide at least three adjacent through freeway lanes open in direction of travel																									
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
This closure to be used for Loc # (16) only																									

Chart no. B12 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 15/SB										PM: R10.93 – R10.58											
Closure Description: 0.35 Mi. north of Jct. Rte. 52 to Jct. Rte. 52																										
FROM HOUR TO HOUR																										
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays				3	3	3	3																			
Sundays				3	3	3	3	3																3	3	3
Legend:																										
<input type="checkbox"/> 3 Provide at least three adjacent through freeway lanes open in direction of travel																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
This closure is to be used for Loc # (23)																										

Chart no. B13 Freeway/Expressway Lane Requirements																												
County: SD					Route/Direction: 56/WB										PM: 8.54 – 8.04													
Closure limits: 0.50 Mi. east of Rancho Penasquitos Blvd. to Rancho Penasquitos Blvd.																												
From hour to hour		24	1	2	3	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	1	
Fridays		1	1	1	1	1																						
Saturdays																												
Sundays																										1	1	1

Legend:

1 Provide at least 1 through freeway lane open in direction of travel

Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

This closure to be used for Loc # (26)

Chart no. B14 Freeway/Expressway Lane Requirements																												
County: SD					Route/Direction: 94/EB										PM: 2.68 – 3.27													
Closure Description: 32nd St. UC to 0.10 Mi. east of Jct. Rte. 15																												
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays		3	3	3	3	3																				3	3	
Fridays		3	3	3	3	3																						
Saturdays					3	3	3	3	3																			
Sundays					3	3	3	3	3	3																3	3	3

Legend:

3 Provide at least three adjacent through freeway lanes open in direction of travel

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used in conjunction with chart # (D27)

This closure to be used for Loc # (31)

Chart no. B15 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 94/EB										PM: 4.63 – 5.24											
Closure limits: 47 th Ave. OC to 0.10 Mi. east of Euclid Ave. 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	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays							3	3	3	3	3	3	3	3												
Sundays							3	3	3	3	3	3	3	3										3	3	3
Legend:																										
<input type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																										
REMARKS:																										
This closure to be used for Loc # (32)																										

Chart no. B16 Freeway/Expressway Lane Requirements																											
County: SD					Route/Direction: 125/NB										PM: 18.16 – 18.66												
Closure limits: 0.50 Mi. south of Amaya Dr. OC to Amaya Dr. 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	3	3	3	3	3																				3	3	3
Fridays	3	3	3	3	3																						
Saturdays																											
Sundays																									3	3	3
Legend:																											
<input type="checkbox"/> 3 Provide at least 3 adjacent through freeway lanes open in direction of travel <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																											
REMARKS:																											
This closure to be used for loc # (33)																											

Chart no. B17 Freeway/Expressway Lane Requirements																									
County: SD							Route/Direction: 125/NB							PM: 21.32 – 21.92											
Closure limits: 0.60 Mi. south of Prospect Ave. UC to Prospect Ave. 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	2	2	2	2																		2	2	2
Fridays	2	2	2	2	2																				
Saturdays																									
Sundays																							2	2	2
Legend:																									
<input type="checkbox"/> 2 Provide at least 2 adjacent through freeway lanes open in direction of travel																									
<input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																									
REMARKS:																									
This chart to be used in Conjunction with chart # (D28)																									
This closure to be used for Loc # (34)																									

Chart no. B18 Freeway/Expressway Lane Requirements																									
County: SD							Route/Direction: 125/NB							PM: 20.89 – 21.92											
Closure limits: 0.50 Mi. north of Grossmont College Dr. to Prospect Ave. 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																		1	1	1
Fridays	1	1	1	1	1																				
Saturdays																									
Sundays																							1	1	1
Legend:																									
<input type="checkbox"/> 1 Provide at least 1 through freeway lane open in direction of travel																									
<input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																									
REMARKS:																									
This closure to be used for Loc # (34)																									

Chart no. B19 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 163/NB										PM: 0.53 – 0.66											
Closure limits: 11 th St. to 0.20 Mi. south of Jct. Rte. 5																										
From hour to hour																										
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	B	B	B	B	B																			B	B	B
Fridays	B	B	B	B	B																					
Saturdays				B	B	B	B	B																		
Sundays				B	B	B	B	B	B															B	B	B

Legend:

B Bus Line Closure Permitted

Work allowed within the highway where shoulder or lane closure is not required

REMARKS:
This chart to be used in conjunction with chart # (D29)
Contractor shall consult with SDMTS to coordinate the Bus Stop Closure
This closure to be used for Loc # (35)

Chart no. B20 Freeway/Expressway Lane Requirements																										
County: SD					Route/Direction: 163/SB										PM: 10.11 – 9.45											
Closure limits: 0.55 Mi. north of Jct. Rte. 52 to 0.10 Mi. south of Jct. Rte. 52																										
From hour to hour																										
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	3	3	3	3	3																			3	3	3
Fridays	3	3	3	3	3																					
Saturdays				3	3	3	3																			
Sundays				3	3	3	3	3	3															3	3	3

Legend:

3 Provide at least 3 adjacent through freeway lanes open in direction of travel

Work allowed within the highway where shoulder or lane closure is not required

REMARKS:
This chart to be used in conjunction with chart # D30
This closure to be used for Loc # (37)

Replace "Reserved" in section 12-4.05C with:

Chart no. C1(a)																									
Complete Freeway/Expressway Closure Hours																									
County: SD	Route/Direction: 163/NB												PM: 0.66 – 0.98												
Closure limits: JSO Jct. Rte. 5 to JNO Jct. Rte. 5																									
From hour to hour	24	1	2	3	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																				
Saturdays				C	C	C	C	C	C																
Sundays				C	C	C	C	C	C	C													C	C	C

Legend:

C Freeway or expressway may be closed completely

No complete freeway or expressway closure is allowed

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This closure to be used for Loc # (35, 36)

Detour NB 163 Full Closure at Jct. Rte. 5

Detour NB 163 Full Closure at Jct. Rte. 5 via northerly on Rte. 163 to NB 163 Conn. to NB 5, thence northerly on Rte. 5 to NB 5 Conn. to EB 8, thence easterly on Rte. 8 to EB 8 Conn. to NB 163.

NOTE: Place a PCMS (Portable Changeable Message Sign) on NB 163 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.

This chart to be used when there are NO games or events at Petco Park, major events at the Convention Center and/or major events in downtown San Diego.

Chart no. C1(b) Complete Freeway/Expressway Closure Hours																										
County: SD					Route/Direction: 163/NB										PM: 0.66 – 0.98											
Closure limits: JSO Jct. Rte. 5 to JNO Jct. Rte. 5																										
From hour to hour		24	1	2	3	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																				
Saturdays					C	C	C	C	C	C																
Sundays					C	C	C	C	C	C	C															C
Legend:																										
<input checked="" type="checkbox"/> C		Freeway or expressway may be closed completely																								
<input type="checkbox"/>		No complete freeway or expressway closure is allowed																								
REMARKS:																										
No other closure that conflicts with or shares any elements of the following detour will be permitted.																										
This closure to be used for Loc # (35, 36)																										
Detour NB 163 Full Closure at Jct. Rte. 5																										
Detour NB 163 Full Closure at Jct. Rte. 5 via northerly on Rte. 163 to NB 163 Conn. to NB 5, thence northerly on Rte. 5 to NB 5 Conn. to EB 8, thence easterly on Rte. 8 to EB 8 Conn. to NB 163.																										
NOTE: Place a PCMS (Portable Changeable Message Sign) on NB 163 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.																										
This chart to be used when there are games or events at Petco Park, major events at the Convention Center and/or major events in downtown San Diego.																										

Replace "Reserved" in section 12-4.05D with:

Chart no. D1 Complete Connector Closure Hours																										
County: SD	Route/Direction: 5/SB												PM: R12.688													
Closure Description: SB 5 Conn. to NB 15																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																					
Saturdays				C	C	C	C	C	C	C																
Sundays				C	C	C	C	C	C	C	C													C	C	C

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.
This chart to be used for Loc # (1)

Detour SB 5 Conn. to NB 15
Detour SB 5 Conn. to NB 15 traffic via southerly on Rte. 5 to SB 5 Off-ramp to Main St., thence southerly on Main St. to Division St., thence easterly on Division St. to Osborn St., thence northerly on Osborn St. to NB 5 On-ramp from Osborn St., thence northerly on Rte. 5 to NB 5 Conn. to NB 15.

NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. D2 Complete Connector Closure Hours																									
County: SD					Route/Direction: 5/SB										PM: R12.688										
Closure Description: SB 5 Conn. to NB 15																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays	C	C	C	C	C																				
Fridays																									
Saturdays																				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:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This chart will be used for (1) weekend only.
This chart to be used for Loc # (1)

Detour SB 5 Conn. to NB 15
Detour SB 5 Conn. to NB 15 traffic via southerly on Rte. 5 to SB 5 Off-ramp to Main St., thence southerly on Main St. to Division St., thence easterly on Division St. to Osborn St., thence northerly on Osborn St. to NB 5 On-ramp from Osborn St., thence northerly on Rte. 5 to NB 5 Conn. to NB 15.

NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

**Chart no. D3
Complete Connector Closure Hours**

County: SD Route/Direction: 5/NB PM: R30.412

Closure limits: NB 5 Conn. to NB 5 Local Bypass / EB 56

From hour to hour	24	1	2	3	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																						
Saturdays				C	C	C	C	C	C																		
Sundays				C	C	C	C	C	C	C															C	C	C

Legend:

C Freeway or expressway may be closed completely

No complete freeway or expressway closure is allowed

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This Chart to be used in conjunction with charts # B3

This closure to be used for Loc # (5)

Detour NB 5 Conn. to NB 5 Local Bypass/EB 56

Detour NB 5 Conn. to NB 5 Local Bypass/EB 56 traffic via northerly on Rte. 5 to NB 5 Off-ramp to Carmel Valley Rd., thence easterly on Carmel Valley Rd. to EB 56 On-ramp from El Camino Real/Carmel Valley Rd.

NOTE: Place a PCMS (Portable Changeable Message Sign) on NB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. D4 Complete Connector Closure Hours																												
County: SD							Route/Direction: 5/NB							PM: R32.767														
Closure limits: NB 5 Local Bypass Conn. to EB 56																												
From hour to hour		24	1	2	3	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																						
Saturdays					C	C	C	C	C																			
Sundays					C	C	C	C	C	C	C															C	C	C
Legend:																												
<input checked="" type="checkbox"/> C		Freeway or expressway may be closed completely																										
<input type="checkbox"/>		No complete freeway or expressway closure is allowed																										
REMARKS:																												
No other closure that conflicts with or shares any elements of the following detour will be permitted.																												
This Chart to be used in conjunction with chart # D5																												
This closure to be used for Loc # (6)																												
Detour NB 5 Local Bypass Conn. to EB 56																												
Detour NB 5 Local Bypass Conn. to EB 56 traffic via northerly on the Local Bypass to NB 5 Local Bypass Conn. to Rte 5, thence northerly on Rte. 5 to NB 5 Off-ramp to Del Mar Hts. Rd., thence easterly on Del Mar Hts. Rd. to El Camino Real, thence southerly on El Camino Real to EB 56 On-ramp from El Camino Real/Carmel Valley Rd.																												
NOTE: Place a PCMS (Portable Changeable Message Sign) on NB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																												

**Chart no. D5
Connector Lane Requirements**

County: SD	Route/Direction: 5/NB	PM: R33.022																									
Closure limits: NB 5 Local Bypass Conn. to NB 5																											
From hour to hour	24	1	2	3	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																						
Saturdays				1	1	1	1	1																			
Sundays				1	1	1	1	1	1	1															1	1	1

Legend:
 1 Provide at least 1 connector lane open in direction of travel
 No complete freeway or expressway closure is allowed

REMARKS:
 This Chart to be used in conjunction with chart # D4
 This closure to be used for Loc # (6)

Chart no. D6 Complete Connector Closure Hours																												
County: San Diego					Route/Direction: 5/SB										PM: R32.996													
					5/SB										PM. R33.131													
Closure Description: SB 5 Connector to SB 5 Local Bypass																												
SB 5 Connector to EB 56/Carmel Valley Rd.																												
From hour to hour		24	1	2	3	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	
Fridays		C	C	C	C	C																						
Saturdays					C	C	C	C	C																			
Sundays					C	C	C	C	C	C																C	C	C
Legend:																												
<input checked="" type="checkbox"/> C		Freeway or expressway may be closed completely																										
<input type="checkbox"/>		No complete freeway or expressway closure is allowed																										
REMARKS:																												
No other closure that conflicts with or shares any elements of the following detour will be permitted.																												
Both locations shall be closed at the same time.																												
This closure to be used for Loc # (7)																												
Detour SB 5 Conn. to Local Bypass																												
Detour SB 5 Conn. to Local Bypass traffic via southerly on Rte. 5 to Jct. Rte. 5/805 and continue southerly on either SB 5 or SB 805.																												
Detour SB 5 Connector to EB 56/ Carmel Valley Rd.																												
Detour SB 5 Conn. to EB 56/ Carmel Valley Rd. traffic via southerly on Rte. 5 to SB 5 Off-ramp to Genesee Ave., thence easterly on Genesee Ave. to NB 5 On-ramp from Genesee Ave., thence northerly on Rte. 5 to NB 5 Local Bypass, thence northerly on the NB 5 Local Bypass to NB 5 Local Bypass Conn. to EB 56.																												
NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																												

County: SD		Route/Direction: 5/SB										PM: R54.044																
Closure Description: SB 5 Conn. to WB 76																												
FROM HOUR TO HOUR		24	1	2	3	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
Fridays		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	C	C

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This closure to be used for Loc # (9)

Detour SB 5 Conn. to WB 76
 Detour SB 5 to WB 76 traffic via southerly on Rte. 5 to SB 5 Off-ramp to Mission Ave. thence easterly on Mission Ave. to NB 5 On-ramp from Mission Ave. thence northerly on Rte. 5 to NB 5 Conn. to WB 76.

NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. D8 Complete Connector Closure Hours																									
County: SD	Route/Direction: 805/NB												PM: 17.465												
	808/SB												17.856												
Closure limits: NB 805 Conn. to WB 8																									
SB 805 Conn. to WB 8																									
From hour to hour	24	1	2	3	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																				
Saturdays																									
Sundays																								C	C
Legend:																									
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work allowed within the highway where shoulder or lane closure is not required																									
REMARKS:																									
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted. This chart to be used in conjunction with chart # (B7) Both Connectors to be closed at the same time. This closure to be used for Loc # (15)</p> <p>Detour NB 805 Connector to WB 8</p> <p>Detour NB 805 Conn. to WB 8 traffic via northerly on Rte. 805 to NB 805 Conn. to EB 8, thence easterly on Rte. To EB 8 Conn. to NB 15, thence northerly on Rte. 15 to NB 15 Off-ramp to Friars Rd., thence westerly on Friars Rd. to SB 15 On-tamp from Friars Rd., thence southerly on Rte. 15 to SB 15 Conn. to WB 8.</p> <p>Detour SB 805 Connector to WB</p> <p>Detour SB 805 Conn. to WB 8 traffic via southerly on Rte. 805 to SB 805 Conn. to EB 8, thence easterly on Rte. To EB 8 Conn. to NB 15, thence northerly on Rte. 15 to NB 15 Off-ramp to Friars Rd., thence westerly on Friars Rd. to SB 15 On-tamp from Friars Rd., thence southerly on Rte. 15 to SB 15 Conn. to WB 8.</p> <p>Place PCMSs (Portable Changeable Message Signs) on NB-SB 805 at locations at the discretion of Construction Field Personnel - warning the public of the ramp closure / detour ahead.</p>																									

Chart no. D9 Complete Connector Closure Hours																										
County: SD	Route/Direction: 8/EB												PM: 5.607													
	8/EB												5.468													
Closure Description: EB 8 Conn. to NB 15/Fairmount Ave																										
EB 8 Conn. to SB 15																										
From hour to hour	24	1	2	3	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																					
Saturdays																										
Sundays																										C
Legend:																										
<input type="checkbox"/> C Freeway or expressway may be closed completely <input type="checkbox"/> No complete freeway or expressway closure is allowed																										
REMARKS:																										
No other closure that conflicts with or shares any elements of the following detour will be permitted.																										
This closure to be used for Loc # (16)																										
Detour EB 8 Conn. to NB 15																										
Detour EB 8 Conn. to NB 15/Fairmount Ave. traffic via easterly on Rte. 8 to EB 8 Off-ramp to College Ave., thence northerly on College Ave. to WB 8 On-ramp from College Ave., thence westerly on Rte. 8 to Rte. 8 Conn. to NB 15.																										
Detour EB 8 Conn. to SB 15																										
Detour EB 8 Conn. to SB 15 traffic via easterly on Rte. 8 to EB 8 Off-ramp to College Ave., thence northerly on College Ave. to WB 8 On-ramp from College Ave., thence westerly on Rte. 8 to Rte. 8 Conn. to SB 15.																										
NOTE: Place a PCMS (Portable Changeable Message Sign) on EB 8 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																										

Chart no. D10 Complete Connector Closure Hours																									
County: SD					Route/Direction: 8/EB										PM: 11.780										
Closure Description: EB 8 Conn. to NB/SB 125																									
FROM HOUR TO HOUR	24	1	2	3	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																				
Saturdays				C	C	C	C	C	C																
Sundays				C	C	C	C	C	C	C													C	C	C
Legend:																									
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted.</p> <p>This closure to be used for Loc # (18)</p> <p>Detour EB 8 Conn. to NB/SB 125 Detour EB 8 Conn. to NB/SB 125 traffic via easterly on Rte. 8 to EB 8 Off-ramp to Grossmont Center Dr./La Mesa Blvd., thence southerly on La Mesa Dr. to Grossmont Blvd., thence easterly on Grossmont Blvd. to NB/SB 125.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on EB 8 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.</p>																									

Chart no. D11 Complete Connector Closure Hours																										
County: SD							Route/Direction: 15/SB							PM: 2.371												
Closure Description: SB 15 Conn. to WB 94																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																					
Saturdays				C	C	C	C	C																		
Sundays				C	C	C	C	C	C															C	C	C
Legend:																										
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted.</p> <p>This closure to be used for Loc # (20)</p> <p>Detour SB 15 Conn. to WB 94 Detour SB 15 Conn. to WB 94 traffic via southerly on Rte. 15 to SB 15 Off-ramp to Market St., thence easterly on Market St. to NB 15 On-ramp from Market St., thence northerly on Rte. 15 to NB 15 Conn. to WB 94.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 15 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.</p>																										

Chart no. D13 Complete Connector Closure Hours																									
County: SD					Route/Direction: 15/SB										PM: 2.371										
Closure Description: SB 15 Conn. to WB 94																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays	C	C	C	C	C																				
Fridays																									
Saturdays																					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:																									
<input checked="" type="checkbox"/> Connector may be closed completely																									
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
No other closure that conflicts with or shares any elements of the following detour will be permitted. This Chart to be used a maximum of (2) weekends only This closure to be used with Loc # (20)																									
Primary Detour Detour SB 15 Conn. to WB 94 Detour SB 15 Conn. to WB 94 traffic via southerly on Rte. 15 to SB 15 Off-ramp to Market St., thence easterly on Market St. to NB 15 On-ramp from Market St., thence northerly on Rte. 15 to NB 15 Conn. to WB 94.																									
NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 15 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																									
Secondary Detour Detour SB 15 Conn. to WB 94 Detour SB 15 Conn. to WB 94 traffic via southerly on Rte. 15 to SB 15 Conn. to NB 5, thence northerly on Rte. 5 to NB 5 Off-ramp to J St./19th St., thence northerly on 19th St. to EB 94 on-ramp from J St./19 th St.																									
NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 15 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																									

Chart no. D14																										
Complete Connector Closure Hours																										
County: SD					Route/Direction: 15/SB										PM: R6.210											
Closure Description: SB 15 Conn. to WB 8																										
FROM HOUR TO HOUR		24	1	2	3	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																				
Saturdays					C	C	C	C																		
Sundays					C	C	C	C	C															C	C	C
Legend:																										
<input type="checkbox"/> C		Connector may be closed completely																								
<input type="checkbox"/>		Work permitted within project right of way where shoulder or lane closure is not required.																								
REMARKS:																										
No other closure that conflicts with or shares any elements of the following detour will be permitted.																										
This Chart to be used in Conjunction with chart # (E13).																										
This closure to be used for Loc # (21) Only																										
Detour SB 15 Conn. to WB 8																										
Detour SB 15 Conn. to WB 8 traffic via southerly on Rte. 15 to SB 15 Off-ramp to El Cajon Blvd., thence easterly on El Cajon Blvd. to NB 15 On-ramp from El Cajon Blvd., thence northerly on Rte. 15 to NB 15 Conn. to WB 8																										
NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 15 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																										

Chart no. D15 Complete Connector Closure Hours																										
County: SD	Route/Direction: 15/SB										PM: R6.533															
SD	15/SB										PM: R6.210															
Closure Description: SB 15 Conn. to EB/WB 8																										
SB 15 Conn. to WB 8																										
FROM HOUR TO HOUR	24	1	2	3	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																					
Saturdays																										
Sundays																										CC
Legend:																										
<input type="checkbox"/> C Connector may be closed completely																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
No other closure that conflicts with or shares any elements of the following detour will be permitted. This closure to be used for Loc # (22)																										
Detour SB 15 Conn. to EB/WB 8 Detour SB 15 Conn. to WB 8 traffic via southerly on Rte. 15 to SB 15 Off-ramp to El Cajon Blvd., thence easterly on El Cajon Blvd. to NB 15 On-ramp from El Cajon Blvd., thence northerly on Rte. 15 to NB 15 Conn. to Rte. 8																										
NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 15 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																										

Chart no. D16 Complete Connector Closure Hours																										
County: SD	Route/Direction: 52/WB												PM: 7.549													
	52/EB												7.081													
Closure limits: WB 52 Conn. to SB 15																										
EB 52 Conn. to SB 15																										
From hour to hour	24	1	2	3	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
Fridays	C	C	C	C	C																					
Saturdays																										
Sundays																								C	C	C

Legend:

C Connector may be closed completely

Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This closure is to be used for Loc # (23)

WB 52 Connector to SB 15

Detour WB 52 Conn. to SB 15 traffic via westerly on Rte. 52 to WB 52 Off-ramp to Kearny Villa Rd., thence southerly on Kearny Villa Rd. to Ruffin Rd., thence southerly on Ruffin to Clairemont Mesa Blvd., thence easterly on Clairemont Mesa Blvd. to SB 15 On-ramp from Clairemont Mesa Blvd.

Place a PCMS (Portable Changeable Message Sign) on WB 52 at a location at the discretion of Construction Field Personnel - warning the public of the ramp closure / detour ahead.

EB 52 Connector to SB 15

Detour EB 52 Conn. to SB 15 traffic via easterly on Rte. 52 to EB 52 Off-ramp Kearny Villa Rd./Ruffin Rd., thence southerly on Ruffin to Clairemont Mesa Blvd., thence easterly on Clairemont Mesa Blvd. to SB 15 On-ramp from Clairemont Mesa Blvd.

Place a PCMS (Portable Changeable Message Sign) on EB 52 at a location at the discretion of Construction Field Personnel - warning the public of the ramp closure / detour ahead.

Chart no. D17 Complete Connector Closure Hours																										
County: SD					Route/Direction: 52/EB										PM: 7.080											
Closure Description: EB 52 Conn. to NB 15																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																					
Saturdays																										
Sundays				C	C	C	C	C	C															C	C	C
Legend:																										
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted.</p> <p>This chart to be used in conjunction with chart # (D18).</p> <p>This closure to be used for Loc # (24)</p> <p>Detour EB 52 Conn. to NB 15 Detour EB 52 Conn. to NB 15 traffic via easterly on Rte. 52 to EB 52 Conn. to SB 15, thence southerly on Rte. 15 to SB 15 Off-ramp to Clairemont Mesa Blvd., thence easterly on Clairemont Mesa Blvd. to NB 15 On-ramp from Clairemont Mesa Blvd.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on EB 52 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.</p>																										

Chart no. D18 Complete Connector Closure Hours																											
County: SD					Route/Direction: 52/WB										PM: 7.548												
Closure Description: WB 52 Conn. to NB 15																											
FROM HOUR TO HOUR		24	1	2	3	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
Fridays		C	C	C	C	C																					
Saturdays																											
Sundays					C	C	C	C	C	C															C	C	C
Legend:																											
<input type="checkbox"/> C		Connector may be closed completely																									
<input type="checkbox"/>		Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																											
No other closure that conflicts with or shares any elements of the following detour will be permitted.																											
This chart to be used in conjunction with chart # (D17)																											
This closure to be used for Loc # (24)																											
Detour WB 52 Conn. to NB 15																											
Detour WB 52 Conn. to NB 15 traffic via westerly on Rte. 52 to WB 52 Off-ramp to Kearny Villa Rd., thence northerly on Kearny Villa Rd. to NB 163 On-ramp from Kearny Villa Rd. thence northerly on Rte. 163 to NB 15.																											
NOTE: Place a PCMS (Portable Changeable Message Sign) on WB 52 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.																											

Chart no. D19 Complete Connector Closure Hours																									
County: SD							Route/Direction: 52/EB							PM: 7.080											
Closure Description: EB 52 Conn. to NB 15																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays	C	C	C	C	C																				
Fridays																									
Saturdays																				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:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.
 This chart to be used a maximum of (2) weekends only
 This chart can't be used in conjunction with chart # D20)
 This closure to be used for Loc # (24)

Primary Detour
Detour EB 52 Conn. to NB 15
 Detour EB 52 Conn. to NB 15 traffic via easterly on Rte. 52 to EB 52 Conn. to SB 163, thence southerly on Rte. 163 to SB 163 Off-ramp to Clairemont Mesa Blvd., thence easterly on Clairemont Mesa Blvd. to NB 163 On-ramp from Clairemont Mesa Blvd., thence northerly on Rte. 163 to NB 15.

NOTE: Place a PCMS (Portable Changeable Message Sign) on EB 52 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Secondary Detour
Detour EB 52 Conn. to NB 15
 Detour EB 52 Conn. to NB 15 traffic via easterly on Rte. 52 to EB 52 Conn. to SB 15, thence southerly on Rte. 15 to SB 15 Off-ramp to Clairemont Mesa Blvd., thence easterly on Clairemont Mesa Blvd. to NB 15 On-ramp from Clairemont Mesa Blvd.

NOTE: Place a PCMS (Portable Changeable Message Sign) on EB 52 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. D20 Complete Connector Closure Hours																									
County: SD							Route/Direction: 52/WB							PM: 7.548											
Closure Description: WB 52 Conn. to NB 15																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays	C	C	C	C	C																				
Fridays																									
Saturdays																				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:																									
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted. This chart to be used a maximum of (2) weekends only This chart can't be used in conjunction with chart # (D19) This closure to be used for Loc # (24)</p> <p>Primary Detour Detour WB 52 Conn. to NB 15 Detour WB 52 Conn. to NB 15 traffic via westerly on Rte. 52 to WB 52 Conn. to SB 15, thence southerly on Rte. 15 to SB 15 Off-ramp to Clairemont Mesa Blvd., thence easterly on Clairemont Mesa Blvd. to NB 15 On-ramp from Clairemont Mesa Blvd.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on WB 52 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.</p> <p>Secondary Detour Detour WB 52 Conn. to NB 15 Detour WB 52 Conn. to NB 15 traffic via westerly on Rte. 52 to WB 52 Off-ramp to Kearny Villa Rd., thence northerly on Kearny Villa Rd. to NB 163 On-ramp from Kearny Villa Rd. thence northerly on Rte. 163 to NB 15.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on WB 52 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.</p>																									

Chart no. D21 Complete Connector Closure Hours																									
County: SD					Route/Direction: 5/SB										PM: 9.602										
Closure Description: SB 5 Conn. to EB 54																									
FROM HOUR TO HOUR	24	1	2	3	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																				CC
Fridays	C	C	C	C	C																				
Saturdays				C	C	C	C	C	C	C															
Sundays				C	C	C	C	C	C	C															CC
Legend:																									
<input type="checkbox"/> C Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted.</p> <p>This closure to be used for Loc # (25)</p> <p>Detour SB 5 Conn. to EB 54 Detour SB 5 Conn. to EB 54 traffic via southerly on Rte. 5 to SB 5 Off-ramp to E St., thence easterly on E St., to EB 54 On-ramp from E St.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.</p>																									

Chart no. D22 Complete Connector Closure Hours																									
County: SD					Route/Direction: 5/SB										PM: 9.602										
Closure Description: SB 5 Conn. to EB 54																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays	C	C	C	C	C																				
Fridays																									
Saturdays																							C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C												C	C	C	C

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted. This closure to be used maximum of (3) times only.

This closure to be used for Loc # (25)

Detour SB 5 Conn. to EB 54
 Detour SB 5 Conn. to EB 54 traffic via southerly on Rte. 5 to SB 5 Off-ramp to E St., thence easterly on E St., to EB 54 On-ramp from E St.

NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.

**Chart no. D23
Complete Connector Closure Hours**

County: SD	Route/Direction: 67/SB		PM: R0.167																										
Closure Limits: SB 67 Conn. to EB 8/Magnolia Ave.																													
FROM HOUR TO HOUR	24	1	2	3	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	
Fridays	C	C	C	C	C																								
Saturdays					C	C	C	C																					
Sundays					C	C	C	C	C																		C	C	C

Legend:

- C Ramp may be closed completely
- Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This chart to be used in conjunction with chart # (D24)

This closure to be used for Loc # (27)

Detour SB 67 Conn. to EB 8

Detour SB 67 Conn. to EB 8 traffic via southerly on Rte. 67 to SB 67 Conn. to WB 8, thence westerly on Rte. 8 to WB 8 Off-ramp W. Main St., thence southerly on W. Main St. to EB 8 On-ramp from W. Main St.

NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 67 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. D24 Connector Lane Requirements																											
County: SD					Route/Direction: 67/SB										PM: R0.402												
Closure Description: SB 67 Conn. to WB 8																											
FROM HOUR TO HOUR		24	1	2	3	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																			2	2	2
Fridays		2	2	2	2	2																					
Saturdays					2	2	2	2																			
Sundays					2	2	2	2	2																2	2	2

Legend:

Provide at least two adjacent connector lanes open in direction of travel

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used in conjunction with chart # (D23).

This closure to be used for Loc # (27)

Chart no. D25 Connector Lane Requirements																											
County: SD					Route/Direction: 75/NB										PM: R22.210												
Closure Description: NB 75 Conn. to NB 5																											
FROM HOUR TO HOUR		24	1	2	3	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																					
Saturdays																											
Sundays																											1

Legend:

Provide at least one connector lane open in direction of travel

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used in conjunction with chart # D26 only

This closure to be used for Loc # (29)

Chart no. D26 Complete Connector Closure Hours																									
County: SD							Route/Direction: 75/NB							PM: R22.094											
Closure Description: NB 75 Conn. to SB 5/National Ave.																									
FROM HOUR TO HOUR	24	1	2	3	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																				
Saturdays																									
Sundays																									C
Legend:																									
<input type="checkbox"/> Connector may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																									
REMARKS:																									
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted.</p> <p>This closure to be used for Loc # (30)</p> <p>Detour NB 75 Conn. to SB 5/National Ave. Detour NB 75 Conn. to SB 5/National Ave. traffic via northerly on Rte. 75 to NB 75 Conn. to NB 5 thence northerly on Rte. 5 to NB 5 Off-ramp to 19th St. /J St., thence northerly on 19th St. to J St., thence westerly on J St. to 17th St., thence southerly on 17th St. to SB 5 On-ramp from 17th St./J St.</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on NB 75 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.</p>																									

**Chart no. D27
Complete Connector Closure Hours**

County: SD	Route/Direction: 94/EB	PM: 3.127																							
Closure Description: EB 94 Conn. to NB 15																									
FROM HOUR TO HOUR	24	1	2	3	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																				
Saturdays				C	C	C	C	C																	
Sundays				C	C	C	C	C	C														C	C	C

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used in conjunction with chart # (B14).
 No other closure that conflicts with or shares any elements of the following detour will be permitted.
 This closure to be used for Loc # (31)

Detour EB 94 Conn. to NB 15
 Detour EB 94 Conn. to NB 15 traffic via easterly on Rte. 94 to EB 94 Conn. to SB 15, thence southerly on Rte. 15 to SB 15 Off-ramp to Market St., thence easterly on Market St. to NB 15 On-ramp from Market St.

NOTE: Place a PCMS (Portable Changeable Message Sign) on EB 94 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.

**Chart no. D28
Complete Connector Closure Hours**

County: SD Route/Direction:125/NB PM: 21.855

Closure Description: NB 125 Conn. to Rte. 52

FROM HOUR TO HOUR	24	1	2	3	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	
Fridays	C	C	C	C	C																						
Saturdays																											
Sundays																									C	C	C

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This closure to be used for Loc # (34)

Detour NB 125 Conn. to WB 52

Detour NB 125 Conn. to WB 52 traffic via northerly on Rte. 125 to NB 125 Off-ramp to Mission Gorge Rd., thence westerly on Mission Gorge Rd. to WB 52 On-ramp from Mission Gorge Rd.

Detour NB 125 Conn. to EB 52

Detour NB 125 Conn. to EB 52 traffic via northerly on Rte. 125 to NB 125 Off-ramp to Mission Gorge Rd., thence easterly on Mission Gorge Rd. to Fanita Dr., thence southerly on Fanita Dr. to EB 52 On-ramp from Fanita Dr.

NOTE: Place two PCMSs (Portable Changeable Message Signs) on NB 125 and on Mission Gorge Rd. at locations at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. D29																											
Complete Connector Closure Hours																											
County: SD					Route/Direction: 5/NB										PM: 0.661												
Closure Description: NB 163 Conn. to NB 5																											
FROM HOUR TO HOUR	24	1	2	3	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	
Fridays	C	C	C	C	C																						
Saturdays					C	C	C	C	C																		
Sundays					C	C	C	C	C	C															C	C	C
Legend:																											
<input type="checkbox"/> C Connector may be closed completely																											
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																											
REMARKS:																											
<p>No other closure that conflicts with or shares any elements of the following detour will be permitted.</p> <p>His closure to be used for Loc # (35, # 36)</p> <p>Detour NB 163 Conn. to NB 5 Detour NB 163 Conn. to NB 5 traffic via northerly on Rte. 163 to NB 163 Conn. to WB 8, thence westerly on Rte. 8 to WB 8 Conn. to NB 5</p> <p>NOTE: Place a PCMS (Portable Changeable Message Sign) on NB 163 at a location at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.</p>																											

**Chart no. D30
Complete Connector Closure Hours**

County: SD	Route/Direction: 163/SB	PM: 9.616																								
Closure Description: SB Conn. to WB 52																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																					
Saturdays				C	C	C	C																			
Sundays				C	C	C	C	C	C															C	C	C

Legend:

C Connector may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.

This chart to be used in conjunction with chart # B20

This closure to be used for Loc # (37)

Detour SB 163 Conn. to WB 52
 Detour SB 163 Connector to WB 52 traffic via southerly on Rte. 163 to SB 163 Off-ramp to EB Clairemont Mesa Blvd, thence easterly on Clairemont Mesa Blvd. to NB 163 On-ramp from Clairemont Mesa Blvd., thence northerly on Rte. 163 to NB 163 Connector to WB 52.

NOTE: Place a PCMS (Portable Changeable Message Signs) on SB 163 at locations at the discretion of the Construction Field Personnel – warning the public of the closure / detour ahead.

Replace "Reserved" in section 12-4.05E with:

Chart no. E1 Complete Ramp Closure Hours																										
County: SD	Route/Direction: 5/SB										PM: R14.595															
SD	5/SB										R14.341															
Closure Limits: SB On-ramp from 17 th St. and J St.																										
SB Off-ramp to Beardsley/Logan Ave.																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C					C	C	C	C	C	C	C										
Saturdays										C	C	C	C	C	C	C										
Sundays										C	C	C	C	C	C	C								C	C	C
Legend:																										
<input type="checkbox"/> Ramp may be closed completely <input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
This chart to be used for Loc # (2) NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.																										

**Chart no. E2
Complete Ramp Closure Hours**

County: SD	Route/Direction: 5/SB	PM: R14.341																									
Closure Limits: SB Off-ramp to Beardsley/Logan Ave.																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays	C	C	C	C	C																						
Fridays																									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:

Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

No other closure that conflicts with or shares any elements of the following detour will be permitted.
This chart to be used for Loc # (2)

Detour SB 5 Off-ramp to Beardsley/Logan Ave. Full Weekend Closure

Detour SB 5 Off-ramp to Beardsley/Logan Ave. Full Weekend closure traffic via southerly on Rte. 5 to SB 5 Off-ramp to National Ave. /27th St., thence westerly on National Ave. to Beardsley/Logan Ave.

NOTE: Place a PCMS (Portable Changeable Message Sign) on SB 5 at a location at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. E3 Complete Ramp Closure Hours																												
County: SD	Route/Direction: 5/SB										PM: R16.900																	
	5/SB										R18.362																	
Closure Limits: SB Off-ramp to Front & 2nd Ave.																												
SB Off-ramp to Kettner Blvd.																												
FROM HOUR TO HOUR	24	1	2	3	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	
Fridays	C	C	C	C	C																							
Saturdays																												
Sundays																										C	C	C
Legend:																												
<input checked="" type="checkbox"/> Ramp may be closed completely																												
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																												
REMARKS:																												
This closure to be used for Loc # (3, & 4)																												
NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.																												

**Chart no. E7
Complete Ramp Closure Hours**

County: SD	Route/Direction: 8/WB	PM: 1.906																								
SD	8/WB	2.311																								
SD	163/SB	3.811																								
Closure Limits: WB On-ramp from Hotel Circle																										
WB Off-ramp to Hotel Circle																										
SB Off-ramp to Hotel Circle																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays	C	C	C	C	C																					
Fridays																										
Saturdays																										
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:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used for a maximum of (2) times only

This closure to be used for Loc # (11)

Detour WB 8 Off-ramp to Hotel Circle

Detour WB 8 Off-ramp to Hotel Circle Full Closure traffic via westerly on Rte. 8 to WB 8 Off-ramp to Taylor Street/Hotel Circle.

Detour SB 163 Off-ramp to Hotel Circle

Detour SB 163 Off-ramp to Hotel Circle full Closure traffic via southerly on Rte. 163 to SB 163 Conn. to WB 8, thence westerly on Rte. 8 to WB 8 Off-ramp to Taylor Street/Hotel Circle.

Detour WB 8 On-ramp from Hotel Circle

Detour WB 8 On-ramp from Hotel Circle Full Closure traffic via westerly on Hotel Circle to WB 8 On-ramp from Taylor Street/Hotel Circle.

NOTE: Place PCMSs (Portable Changeable Message Sign) on WB 8, SB 163, Hotel Circle Rd. at locations at the discretion of Construction Field Personnel – warning the public of the closure / detour ahead.

Chart no. E8 Complete Ramp Closure Hours																												
County: SD					Route/Direction: 8/EB										PM: 2.527													
Closure Limits: EB Off-ramp to Mission Center Rd. /Auto Circle.																												
FROM HOUR TO HOUR	24	1	2	3	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	
Fridays	C	C	C	C	C																							
Saturdays					C	C	C	C	C	C	C	C																
Sundays					C	C	C	C	C	C	C	C														C	C	C

Legend:

Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This closure to be used for Loc # (12)

NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

Chart no. E9 Complete Ramp Closure Hours																													
County: SD					Route/Direction: 8/EB										PM: 3.089														
Closure Limits: EB On-ramp from Mission Center Rd./Auto Circle Rd.																													
FROM HOUR TO HOUR	24	1	2	3	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	
Fridays	C	C	C	C	C																								
Saturdays					C	C	C	C	C	C	C	C																	
Sundays					C	C	C	C	C	C	C	C															C	C	C

Legend:

Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This closure to be used for Loc # (13)

**Chart no. E10
Complete Ramp Closure Hours**

County: SD	Route/Direction: 8/EB	PM: 3.758																									
SD	8/EB	3.759																									
SD	8/EB	4.039																									
Closure Limits: EB Off-ramp to SB Texas St																											
EB Off-ramp to NB Texas St.																											
EB On-ramp from SB Texas St																											
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																						
Saturdays				C	C	C	C	C	C																		
Sundays				C	C	C	C	C	C	C															C	C	C

Legend:

Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This closure to be used for Loc # (14)

NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

Chart no. E11 Complete Ramp Closure Hours																										
County: SD	Route/Direction: 8/WB												PM: 3.749													
SD	8/WB												4.141													
Closure Limits: WB On-ramp from NB Texas St.																										
WB Off-ramp to SB Texas St.																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																					
Saturdays				C	C	C	C	C	C	C	C															
Sundays				C	C	C	C	C	C	C	C												C	C	C	
Legend:																										
<input type="checkbox"/> C Ramp may be closed completely																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
This closure to be used for Loc # (15)																										
NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.																										

**Chart no. E12
Complete Ramp Closure Hours**

County: SD	Route/Direction: 8/WB	PM: 5.726
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Closure Limits: WB 8 On-ramp from Fairmount Ave. / Mission Gorge Rd.

FROM HOUR TO HOUR	24	1	2	3	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																						
Saturdays				C	C	C	C																				
Sundays				C	C	C	C	C																	C	C	C

Legend:

Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This closure to be used for Loc # (17)

NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

**Chart no. E13
Complete Ramp Closure Hours**

County: SD	Route/Direction: 15/SB	PM: R6.211																									
Closure Limits: SB Off-ramp to Camino Del Rio South																											
FROM HOUR TO HOUR	24	1	2	3	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																						
Saturdays				C	C	C	C																				
Sundays				C	C	C	C	C																	C	C	C

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This Chart to be used in Conjunction with chart # (D14)

This closure to b used for Loc # (21) Only

NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

**Chart no. E14
Complete Ramp Closure Hours**

County: SD	Route/Direction: 15/SB	PM: R10.155																										
Closure limits: SB Off-ramp to Clairemont Mesa Blvd.																												
From hour to hour	24	1	2	3	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	
Fridays	C	C	C	C	C																							
Saturdays																												
Sundays																										C	C	C

Legend:
 C Ramp may be closed completely
 Work allowed within the highway where shoulder or lane closure is not required

REMARKS:

 This closure is to be used for Loc # (23)

 NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

**Chart no. E15
Complete Ramp Closure Hours**

County: SD	Route/Direction:56/WB		PM: 8.602																									
Closure Limits: WB Off-ramp to Rancho Penasquitos Blvd.																												
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																							
Saturdays				C	C	C	C	C	C																			
Sundays				C	C	C	C	C	C	C																C	C	C

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This closure to be used for Loc # (26)

NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

**Chart no. E16
Complete Ramp Closure Hours**

County: SD	Route/Direction: 94/EB	PM: 5.048
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Closure Limits: EB Off-ramp to NB Euclid Ave.

FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C																						
Saturdays							C	C	C	C	C	C	C	C													
Sundays							C	C	C	C	C	C	C	C											C	C	C

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This closure to be used for Loc # (32)

NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.

Chart no. E17 Complete Ramp Closure Hours																										
County: SD	Route/Direction: 125/NB										PM: 18.617															
Closure Limits: NB 125 Off-ramp to Amaya Dr./Fletcher Pkwy																										
FROM HOUR TO HOUR	24	1	2	3	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
Fridays	C	C	C	C	C						C	C	C	C	C	C										
Saturdays										C	C	C	C	C	C	C	C									
Sundays										C	C	C	C	C	C	C	C						C	C	C	C
Legend:																										
<input type="checkbox"/> C Ramp may be closed completely																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS:																										
This chart to be used in conjunction with chart # (B16)																										
This closure to be used for Loc # (33)																										
NOTE: When an Off-ramp is closed completely, place a PCMS (Portable Changeable Message Sign) in the direction of travel allowing the traffic the option to use the preceding Off-ramp and warning them of the ramp closure ahead.																										

**Chart no. E18(a)
Complete Ramp Closure Hours**

County: SD	Route/Direction: 163/NB	PM: 0.659																									
Closure Limits: NB On-ramp from "A" St.																											
FROM HOUR TO HOUR	24	1	2	3	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																						
Saturdays				C	C	C	C	C	C																		
Sundays				C	C	C	C	C	C	C															C	C	C

Legend:

- C Ramp may be closed completely
- Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used in conjunction with chart # C1(a)

This closure to be used for Loc # (36)

This chart to be used when there are NO games or events at Petco Park, major events at the Convention Center and/or major events in downtown San Diego.

**Chart no. E18(b)
Complete Ramp Closure Hours**

County: SD	Route/Direction: 163/NB	PM: 0.659																								
Closure Limits: NB On-ramp from "A" St.																										
FROM HOUR TO HOUR	24	1	2	3	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																					
Saturdays				C	C	C	C	C	C																	
Sundays				C	C	C	C	C	C	C																C

Legend:

- C Ramp may be closed completely
- Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

This chart to be used in conjunction with chart # C1(b)
 This closure to be used for Loc # (36)
 This chart to be used when there are games or events at Petco Park, major events at the Convention Center and/or major events in downtown San Diego.

Replace "Reserved" in section 12-4.05F with:

Chart no. F1 Conventional Highway Lane Requirements																									
County: SD	Route/Direction: 75/SB										PM: 16.23 – 15.73														
Closure Description: 0.50 Mi. north of Leyte Rd to Leyte Rd.																									
FROM HOUR TO HOUR	24	1	2	3	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	1	1	1								1	1	1	1
Fridays	1	1	1	1	1					1	1	1	1	1											
Saturdays										1	1	1	1	1											
Sundays										1	1	1	1	1	1	1						1	1	1	1

Legend:

1 Provide at least 1 through traffic lane open in direction of travel

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

Left turn pocket shall be closed

This closure to be used for Loc # (28)

Replace "Reserved" in section 12-4.05H with:

Chart no. H1 Road Lane Requirements																											
County: SD	Route/Direction: 8/WB												PM:														
Closure Description: EB Hotel Circle North @ Rte. 8																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	R	R	R	R	R																				R	R	R
Fridays	R	R	R	R	R																						
Saturdays				R	R	R	R	R	R																		
Sundays				R	R	R	R	R	R																R	R	R

Legend:

R Provide at least one through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:
This chart shall be used in conjunction with chart B7, and E6, E7

This closure to be used for Loc # (11)

NOTE: When Reverse Traffic Control is used:

1. Close one traffic lane and stop public traffic for periods not to exceed ten minutes.
2. Maximum length of one-way control shall be 0.25 mi.

Replace section 12-5 with:

12-5 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE

12-5.01 GENERAL

Section 12-5 includes specifications for closing traffic lanes, ramps, or a combination, with stationary lane closures on multilane highways. The traffic control system for a lane closure or a ramp closure must comply with the details shown.

Traffic control system includes signs.

12-5.02 MATERIALS

Not Used

12-5.03 CONSTRUCTION

Each vehicle used to place, maintain, and remove components of a traffic control system on a multilane highway must be equipped with a Type II flashing arrow sign that must be in operation whenever the vehicle is being used for placing, maintaining, or removing the components. Vehicles equipped with a Type II flashing arrow sign not involved in placing, maintaining, or removing the components if operated within a stationary-type lane closure must display only the caution display mode. The sign must be controllable by the operator of the vehicle while the vehicle is in motion. If a flashing arrow sign is required for a lane closure, the flashing arrow sign must be operational before the lane closure is in place.

Whenever components of the traffic control system are displaced or cease to operate or function as specified from any cause, immediately repair the components to the original condition or replace the components and restore the components to the original location.

For a stationary lane closure, ramp closure, or a combination, made only for the work period, remove the components of the traffic control system from the traveled way and shoulder, except for portable delineators placed along open trenches or excavation adjacent to the traveled way at the end of each work period. You may store the components at selected central locations designated by the Engineer within the limits of the highway.

12-5.04 PAYMENT

Traffic control system for lane closure is paid for as traffic control system.

The requirements in section 4-1.05 for payment adjustment do not apply to traffic control system. Adjustments in compensation for traffic control system will be made for an increase or decrease in traffic control work if ordered and will be made on the basis of the cost of the necessary increased or decreased traffic control. The adjustment will be made on a force account basis for increased work and estimated on the same basis in the case of decreased work.

A traffic control system required by change order work is paid for as a part of the change order work.

Replace section 12-8 with:

12-8 TEMPORARY PAVEMENT DELINEATION

12-8.01 GENERAL

Section 12-8 includes specifications for placing, applying, maintaining, and removing temporary pavement delineation.

Temporary signing for no-passing zones must comply with section 12-3.06.

Temporary painted traffic stripes and painted pavement markings used for temporary delineation must comply with section 84-3.

12-8.02 MATERIALS

12-8.02A General

Not Used

12-8.02B Temporary Lane Line and Centerline Delineation

Temporary pavement markers must be the same color as the lane line or centerline markers being replaced. Temporary pavement markers must be temporary pavement markers on the Authorized Material List for short-term day/night use, 14 days or less, or long-term day/night use, 180 days or less. Place temporary pavement markers under the manufacturer's instructions.

12-8.02C Temporary Edge Line Delineation

On multilane roadways, freeways, and expressways open to traffic where edge lines are obliterated and temporary pavement delineation to replace those edge lines is not shown, provide temporary pavement delineation for:

1. Right edge lines consisting of (1) paint or a solid 4-inch wide traffic stripe tape of the same color as the stripe being replaced, (2) traffic cones, or (3) portable delineators or channelizers placed longitudinally at intervals not exceeding 100 feet
2. Left edge lines consisting of (1) paint or a solid 4-inch wide traffic stripe tape of the same color as the stripe being replaced, (2) traffic cones, (3) portable delineators or channelizers placed longitudinally at intervals not exceeding 100 feet, or (4) temporary pavement markers placed longitudinally at intervals not exceeding 6 feet

12-8.02D Temporary Traffic Stripe Tape

Not Used

12-8.02E Temporary Traffic Stripe Paint

Not Used

12-8.02F Temporary Pavement Marking Tape

Not used

12-8.02G Temporary Pavement Marking Paint

You may use one of the types of temporary removable pavement marking tape or permanent pavement marking tape on the Authorized Material List instead of temporary pavement marking paint.

12- 8.02H Temporary Pavement Markers

Temporary pavement markers must be one of the temporary pavement markers on the Authorized Material List for long term day/night use, 180 days or less.

12-8.03 CONSTRUCTION

12-8.03A General

Wherever work activities obliterate pavement delineation, place temporary or permanent pavement delineation before opening the traveled way to traffic. Place lane line and centerline pavement delineation for traveled ways open to traffic. On multilane roadways, freeways and expressways, place edge line delineation for traveled ways open to traffic.

Establish the alignment for the temporary pavement delineation including required lines or markers. Surfaces to receive an application of paint or removable traffic tape must be dry and free of dirt and loose material. Do not apply temporary pavement delineation over existing pavement delineation or other temporary pavement delineation. Maintain temporary pavement delineation until it is superseded or you replace it with a new pattern of temporary pavement delineation or permanent pavement delineation.

When the Engineer determines the temporary pavement delineation is no longer required for the direction of traffic, remove the temporary pavement markers, underlying adhesive, and removable traffic tape from the final layer of surfacing and from the existing pavement to remain in place. Remove temporary pavement delineation that conflicts with any subsequent or new traffic pattern for the area.

12-8.03B Temporary Lane line and Centerline Delineation

Whenever lane lines or centerlines are obliterated and temporary pavement delineation to replace the lines is not shown, the minimum lane line and centerline delineation must consist of temporary pavement markers placed longitudinally at intervals not exceeding 24 feet. For temporary pavement markers on the Authorized Material List for long-term day/night use, 180 days or less, cement the markers to the surfacing with the adhesive recommended by the manufacturer except do not use epoxy adhesive to place the pavement markers in areas where removal of the markers will be required.

For temporary lane line or centerline delineation consisting entirely of temporary pavement markers on the Authorized Material List for short-term day/night use, 14 days or less, place the markers longitudinally at intervals not exceeding 24 feet. Do not use the markers for more than 14 days on lanes opened to traffic. Place the permanent pavement delineation before the end of the 14 days. If the permanent pavement delineation is not placed within the 14 days, replace the temporary pavement markers with additional temporary pavement delineation equivalent to the pattern specified or shown for the permanent pavement delineation for the area. The Department does not pay for the additional temporary pavement delineation.

12-8.03C Temporary Edge Line Delineation

You may apply temporary painted traffic stripe where removal of a 4-inch wide traffic stripe is not required.

The Engineer determines the lateral offset for traffic cones, portable delineators, and channelizers used for temporary edge line delineation. If traffic cones or portable delineators are used for temporary pavement delineation for edge lines, maintain the cones or delineators during hours of the day when the cones or delineators are being used for temporary edge line delineation.

Channelizers used for temporary edge line delineation must be an orange surface-mounted type. Cement channelizer bases to the pavement under section 85 for cementing pavement markers to pavement except do not use epoxy adhesive to place channelizers on the top layer of the pavement. Channelizers must be one of the 36-inch, surface-mounted types on the Authorized Material List.

Remove the temporary edge line delineation when the Engineer determines it is no longer required for the direction of traffic.

12-8.03D Temporary Traffic Stripe Tape

Apply temporary traffic stripe tape under the manufacturer's instructions. Slowly roll the tape with a rubber-tired vehicle or roller to ensure complete contact with the pavement surface. Apply the tape straight on a tangent alignment and on a true arc on a curved alignment. Do not apply the tape when the air or pavement temperature is less than 50 degrees F unless the installation procedures are authorized beforehand.

The temporary traffic stripe tape must be complete in place at the location shown before opening the traveled way to traffic.

12-8.03E Temporary Traffic Stripe Paint

Apply 1 or 2 coats of temporary traffic stripe paint for new or existing pavement.

The painted temporary traffic stripe must be complete in place at the location shown before opening the traveled way to traffic. Removal of painted temporary traffic stripe is not required.

12-8.03F Temporary Pavement Marking Tape

Apply temporary pavement marking tape at the locations shown. The tape must be complete in place at the location shown before opening the traveled way to traffic.

12-8.03G Temporary Pavement Marking Paint

Apply and maintain temporary pavement markings consisting of painted pavement markings at the locations shown. The painted temporary pavement marking must be complete in place at the location shown before opening the traveled way to traffic. Removal of painted temporary pavement marking is not required.

Apply 1 or 2 coats of temporary pavement marking paint for new or existing pavement.

12-8.03H Temporary Pavement Markers

Place temporary pavement markers under the manufacturer's instructions. Cement the markers to the surfacing with the manufacturer's recommended adhesive, except do not use epoxy adhesive in areas where removal of the pavement markers is required.

You may use retroreflective pavement markers specified in section 85 instead of temporary pavement markers for long term day/night use, 180 days or less, except to simulate patterns of broken traffic stripe. Retroreflective pavement markers used for temporary pavement markers must comply with section 85, except the waiting period before placing pavement markers on new HMA surfacing as specified in section 85-1.03 does not apply. Do not use epoxy adhesive to place pavement markers in areas where removal of the pavement markers is required.

Temporary pavement markers must be complete in place before opening the traveled way to traffic.

12-8.04 PAYMENT

Not Used

83 RAILINGS AND BARRIERS

Replace section 83-1.02C(2) with:

83-1.02C(2) Alternative In-Line Terminal System

Alternative flared terminal system must be furnished and installed as shown on the manufacturer plans and installation instructions and in conformance with the provisions in the Standard Specifications and these special provisions.

The allowable alternatives for an in-line terminal system must consist of one of the following or a Department-authorized equal.

1. TYPE SKT TERMINAL SYSTEM - Type SKT terminal system must be a SKT 350 sequential kinking terminal manufactured by Road Systems, Inc., located in Big Spring, Texas, and must include items detailed for Type SKT terminal system shown on the manufacturer plans. The SKT 350 sequential kinking terminal can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Highway Products, 4100 13th Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
2. TYPE ET TERMINAL SYSTEM - Type ET terminal system must be an ET-2000 PLUS (4-tube system) extruder terminal as manufactured by Trinity Highway Products, LLC, and must include items detailed for Type ET terminal system shown on the manufacturer plans. The ET-2000 PLUS (4-tube system) extruder terminal can be obtained from the manufacturer, Trinity Highway Products, LLC, P.O. Box 99, Centerville, UT 84012, telephone (800) 772-7976.
3. TYPE X-TENSION TERMINAL SYSTEM - Type X-tension terminal system must be a Flared Energy Absorbing Non-Gating Terminal manufactured by Barrier Systems Inc, located in 3333 Vaca Valley Parkway, Suite 800, Vacaville, California 95688, telephone (888) 800-3691 and must include items detailed for type X-Tension terminal system shown on the manufacturer plans. The Type X-Tension Terminal System can be obtained from the distributor, Statewide Safety & Signs, 13755 Blaisdell Place, Poway, CA 92064, telephone (800) 559-7080.

Submit a certificate of compliance for terminal systems.

The contractor must provide the Engineer with a copy of the manufacturer installation manual.

Terminal systems must be installed under the manufacturer's installation instructions and these specifications. Each terminal system installed must be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5.

For Type ET terminal system, the soil tubes with soil plates attached must be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the soil tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. The wood terminal posts must be inserted into the soil tubes by hand and must not be driven. Before the wood terminal posts are inserted, the inside surfaces of the soil tubes to receive the wood posts must be coated with a grease that will not melt or run at a temperature of 149 degrees F or less. The edges of the wood terminal posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

For Type SKT terminal system, the soil tubes must be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. Wood posts must be inserted into the steel foundation tubes by hand. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts must be coated with a grease that will not melt or run at a temperature of 149 degrees F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

After installing the terminal system, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

For Type X-tension terminal system, the steel post and soil anchor must be, at the option of the Contractor, driven with or without pilot holes, or placed in drilled holes. Space around the steel post and soil anchors must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches and each layer must be moistened and thoroughly compacted. Wood terminal posts must be inserted by hand and backfilled in the same manner as the steel post and soil anchor. Wood terminal posts must not be driven.

Replace section 83-1.02C(3) with:

83-1.02C(3) Alternative Flared Terminal System

Alternative flared terminal system must be furnished and installed as shown on the manufacturer plans and installation instructions and in conformance with the provisions in the Standard Specifications and these special provisions.

The allowable alternatives for a flared terminal system must consist of one of the following or a Department-authorized equal.

1. TYPE FLEAT TERMINAL SYSTEM - Type FLEAT terminal system must be a Flared Energy Absorbing Terminal 350 manufactured by Road Systems, Inc., located in Big Spring, Texas, and must include items detailed for Type FLEAT terminal system shown on the manufacturer plans. The Flared Energy Absorbing Terminal 350 can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Industries, Inc., 4100 13th Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
2. TYPE SRT TERMINAL SYSTEM - Type SRT terminal system must be an SRT-350 Slotted Rail Terminal (8-post system) as manufactured by Trinity Highway Products, LLC, and must include items detailed for Type SRT terminal system shown on the manufacturer plans. The SRT-350 Slotted Rail Terminal (8-post system) can be obtained from the manufacturer, Trinity Highway Products, LLC, P.O. Box 99, Centerville, UT 84012, telephone (800) 772-7976.
3. TYPE X-TENSION TERMINAL SYSTEM - Type X-tension terminal system must be a Flared Energy Absorbing Non-Gating Terminal manufactured by Barrier Systems Inc, located in 3333 Vaca Valley Parkway, Suite 800, Vacaville, California 95688, telephone (888) 800-3691 and must include items detailed for type X-Tension terminal system shown on the manufacturer plans. The Type X-Tension Terminal System can be obtained from the distributor, Statewide Safety & Signs, 13755 Blaisdell Place, Poway, CA 92064, telephone (800) 559-7080.

Submit a certificate of compliance for terminal systems.

The contractor must provide the Engineer with a copy of the manufacturer installation manual.

Terminal systems must be installed under the manufacturer's installation instructions and these specifications. Each terminal system installed must be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5.

For Type SRT terminal system, the steel foundation tubes with soil plates attached must be, at the Contractor's option, either driven, with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. The wood terminal posts must be inserted into the steel foundation tubes by hand and must not be driven. Before the wood terminal posts are inserted, the inside surfaces of the steel foundation tubes to receive the wood posts must be coated with a grease that will not melt or run at a temperature of 149 degrees F or less. The edges of the wood terminal posts may be slightly rounded to facilitate insertion of the post into the steel foundation tubes.

For Type FLEAT terminal system, the soil tubes must be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the soil tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. Wood posts must be inserted into the soil tubes by hand. Before the wood terminal posts are inserted, the inside surfaces of the soil tubes to receive the wood posts must be coated with a grease that will not melt or run at a temperature of 149 degrees F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the soil tubes.

After installing the terminal system, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

For Type X-tension terminal system, the steel post and soil anchor must be, at the option of the Contractor, driven with or without pilot holes, or placed in drilled holes. Space around the steel post and soil anchors must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches and each layer must be moistened and thoroughly compacted. Wood terminal posts must be inserted by hand and backfilled in the same manner as the steel post and soil anchor. Wood terminal posts must not be driven.

Add to section 83-2.02D(1):

Bar reinforcing steel for use in concrete barriers must be epoxy coated under section 52-2.03.

Replace the 2nd paragraph of section 83-2.02D(2) with:

Concrete for concrete barriers other than Type 50 and 60 series must contain not less than 630 pounds of cementitious material per cubic yard and must be air entrained. The air content at the time of mixing and before placing must be 3.0 ± 1.0 percent unless a higher air content is specified.

Replace section 83-2.02E(2) with:

83-2.02E(2) Alternative Crash Cushion

Alternative Crash Cushion must be furnished and installed as shown on the manufacturer's plans, installation instructions and in conformance with the provisions in the Standard Specifications and these special provisions.

Alternative Crash Cushion must consist of one of the following National Cooperative Highway Research Program (NCHRP) Report 350 Test Level 3 devices.

Section 6-3.02 does not apply.

Type REACT 9CBB Crash Cushion

1. Type REACT 9CBB ("Type 1") is a non-gating, redirective impact attenuator crash cushion manufactured by Energy Absorption Systems, Inc. 35 East Wacker Drive, Suite 1100, Chicago, IL 60601-2076, telephone (312) 467-6750, fax (312) 467-1356. The REACT 350 crash cushion must include items detailed for the REACT 9CBB Crash Cushion as shown on the manufacturer plans and installation instructions (manufacturer's product description for the crash cushion is REACT 350-36" Side Mounted Anchor System) The crash cushion may be obtained from the distributor, National Trench Safety LLC, 1421 N. Baxter Street, Anaheim, CA 92806, telephone (714) 491-7393.

Type COMPRESSOR Crash Cushion (

2. The Compressor attenuator ("Type 2") must be manufactured by Traffix Devices, Inc., 160 Avenida La Plata, San Clemente, CA 92673 telephone (949) 361-5663, FAX (949) 361-9205. The Compressor Crash Cushion system must include all items detailed on the manufacturer's plans and installation instructions. Compressor crash cushion may be obtained from the distributor, Main Street Materials, 27128A Paseo Espada, Suite #1524, San Juan Capistrano, CA 92675, telephone (888) 787-3387.

Submit a certificate of compliance for alternative crash cushion.

The contractor must provide the Engineer with a copy of the manufacturer's installation manual.

Install the crash cushion under the manufacturer's installation instructions. The soil tubes with soil plates attached must be either driven with or without pilot holes, or placed in drilled holes. Space around the soil tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. Wood posts must be inserted into the soil tubes by hand. Before the wood posts are inserted, the inside surfaces of the soil tubes to receive the wood posts must be coated with a grease that will not melt or run at a temperature of 149 degrees F or less. The edges of the wood posts may be slightly rounded to facilitate insertion of the post into the soil tubes.

Concrete anchorage devices used for attaching the crash cushion to the foundation slab must be limited to those provided by the manufacturer.

Concrete anchor slab when required must comply with sections 51 and 52, except the compressive strength must be 4,000 psi at 28 days.

Roadway excavation if required must comply with section 19.

After installing the alternative crash cushion, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

Replace section 83-2.02E(3) with:

83-2.02E(3) Type SMART CRASH CUSHION (SCI 70GM)

Type SMART Crash Cushion crash cushion must be installed where shown on the plans and in conformance with the provisions in the standard specifications and these special provisions.

Crash Cushion must be a SMART (SCI 70GM) as manufactured by SCI Products Inc., and must include the items shown on the manufacturer plans.

Type SMART Crash Cushion (SCI 70GM) is approved by the National Cooperative Highway Research Program (NCHRP) Report 350 Test Level 2 (TL-2.)

Section 6-3.02 does not apply.

The successful bidder can obtain the crash cushion from Work Area Protection Corporation, P.O. Box 4087, 2500 Production Drive, St. Charles, IL 60174-9081, telephone (800) 327-4417, FAX (630) 377-9270, or from the manufacturer's distribution agent, D&M Traffic Services, 845 Reed Street, Santa Clara, CA 95050, telephone (408) 436-1127, FAX (408) 436-1675.

The price quoted by the manufacturer for the crash cushion SCI 70GM, (TL-2), FOB Santa Clara, California is \$15,700, not including sales tax.

The price quoted for SCI 70GM crash cushion includes the concrete anchorage devices, but does not include the concrete foundation slab, additional transition panels or transitions assemblies that may be required.

The above price will be firm for orders placed on or before 11/09/2013, provided delivery is accepted within 90 days after the order is placed.

Submit a copy of the manufacturer's plan and parts list as an informational submittal.

Submit a certificate of compliance for Type SCI 70GM crash cushion.

The contractor must provide the Engineer with a copy of the manufacturer installation manual.

Install the crash cushion under the manufacturer's installation instructions.

Stripe the full width of the face plate with diagonal stripes conforming to the Type R marker.

Concrete anchorage devices used for attaching the crash cushion to the foundation slab must be limited to those provided by the manufacturer.

Concrete anchor slab when required must comply with sections 51 and 52, except the compressive strength must be 4,000 psi at 28 days.

Roadway excavation if required must comply with section 19.

After installing the Type SMART (SCI 70GM) crash cushion, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

Replace section 83-2.02E(4) with:

83-2.02E(4) Type SMART CRASH CUSHION (SCI 100GM)

Type SMART Crash Cushion crash cushion must be installed where shown on the plans and in conformance with the provisions in the standard specifications and these special provisions.

Crash Cushion must be a SMART (SCI 100GM) as manufactured by SCI Products Inc., and must include the items shown on the manufacturer plans.

Type SMART Crash Cushion (SCI 100GM) is approved by the National Cooperative Highway Research Program (NCHRP) Report 350 Test Level 3 (TL-3.)

Section 6-3.02 does not apply.

The successful bidder can obtain the crash cushion from Work Area Protection Corporation, P.O. Box 4087, 2500 Production Drive, St. Charles, IL 60174-9081, telephone (800) 327-4417, FAX (630) 377-9270, or from the manufacturer's distribution agent, D&M Traffic Services, 845 Reed Street, Santa Clara, CA 95050, telephone (408) 436-1127, FAX (408) 436-1675.

The price quoted by the manufacturer for the crash cushion SCI 100GM, (TL-3), FOB Santa Clara, California is \$20,360, not including sales tax.

The price quoted for SCI 100GM crash cushion includes the concrete anchorage devices, but does not include the concrete foundation slab, additional transition panels or transitions assemblies that may be required.

The above price will be firm for orders placed on or before 11/09/2013, provided delivery is accepted within 90 days after the order is placed.

Submit a copy of the manufacturer's plan and parts list as an informational submittal.

Submit a certificate of compliance for Type SCI 100GM crash cushion.

The contractor must provide the Engineer with a copy of the manufacturer's installation manual.

Install the crash cushion under the manufacturer's installation instructions.

Stripe the full width of the face plate with diagonal stripes conforming to the Type R marker.

Concrete anchorage devices used for attaching the crash cushion to the foundation slab must be limited to those provided by the manufacturer.

Concrete anchor slab when required must comply with sections 51 and 52, except the compressive strength must be 4,000 psi at 28 days.

Roadway excavation if required must comply with section 19.

After installing the Type SMART (SCI 100GM) crash cushion, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

Replace section 83-2.02E(5) with:

83-2.02E(5) Type QUADGUARD Elite Crash Cushion

Type QUADGUARD Elite Crash Cushion crash cushion must be installed where shown on the plans and in conformance with the provisions in the standard specifications and these special provisions.

Crash Cushion must be a size QS6908E as manufactured by Energy Absorption Systems, Inc., and must include the items detailed on the manufacturer plans and installation instructions.

The Crash Cushion is approved by the National Cooperative Highway Research Program (NCHRP) Report 350 Test Level 3 (TL-3.)

Section 6-3.02 does not apply.

The successful bidder can obtain the crash cushion from Energy Absorption Systems Inc, 70 West Madison Street Suite 2350, Chicago, IL 60602, telephone (312) 467-6750. Quadguard Elite crash cushion may be obtained from the distributor, National Trench Safety LLC, 1421 N. Baxter Street, Anaheim, CA 92806, telephone (714) 491-7393.

The price quoted by the manufacturer for the crash cushion Quadguard Elite, (TL-3), FOB Anaheim, CA is \$24,900, not including sales tax.

The price quoted for QUADGUARD Elite crash cushion includes the concrete anchorage devices, but does not include the concrete foundation slab, additional transition panels or transitions assemblies that may be required.

The above price will be firm for orders placed on or before 12/31/2013, provided delivery is accepted within 90 days after the order is placed.

Submit a copy of the manufacturer's plan and parts list as an informational submittal.

Submit a certificate of compliance for Type Quadguard Elite (QS6908E) crash cushion.

The contractor must provide the Engineer with a copy of the manufacturer's installation manual.

Install the crash cushion under the manufacturer's installation instructions.

Concrete anchorage devices used for attaching the crash cushion to the foundation slab must be limited to those provided by the manufacturer.

Concrete anchor slab when required must comply with sections 51 and 52, except the compressive strength must be 4,000 psi at 28 days.

Roadway excavation if required must comply with section 19.

After installing the Type Quadguard Elite crash cushion, dispose of surplus excavated material in a uniform manner along the adjacent roadway where designated by the Engineer.

Location 24 - Table 1, Subsurface Soil Description

BORING NO.	LOCATION STATION	SUBSURFACE SOIL DESCRIPTION
HA-11-001	424+50 "R-6" Line	0-3.5': Poorly-graded SAND with GRAVEL (SP): estimated medium dense; brown; moist; medium SAND; coarse to fine GRAVEL (FILL).
HA-11-002	430+70 "R-6" Line	0-5.0': Poorly-graded SAND with GRAVEL (SP): estimated medium dense; brown; moist; coarse to medium SAND; coarse to fine GRAVEL (FILL).
HA-11-003	418+45 "CEB" Line	0-4.0': Poorly-graded SAND with GRAVEL (SP): estimated medium dense; brown; moist; medium SAND; coarse to fine GRAVEL (FILL).

Location 25 -Table 1, Subsurface Soil Description

BORING NO.	LOCATION STATION	SUBSURFACE SOIL DESCRIPTION
HA-11-001	59+20 "54E1" Line	0-7.0': Poorly-graded SAND (SP): estimated medium dense; brown; moist; medium SAND; trace fine GRAVEL; (FILL).
HA-11-002	60+80 "54E1" Line	0-7.0': Poorly-graded SAND (SP): estimated medium dense; brown; moist; medium SAND; trace fine GRAVEL; (FILL).
HA-11-003	63+00 "54E1" Line	0-7.0': Poorly-graded SAND (SP): estimated medium dense; brown; moist; medium SAND; trace fine GRAVEL; (FILL).
HA-11-004	65+98 "54E1" Line	0-7.0': Poorly-graded SAND (SP): estimated medium dense; brown; moist; medium SAND; trace fine GRAVEL; (FILL).

BID ITEM LIST
11-401404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
2	080050	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
3	090105	TIME-RELATED OVERHEAD (LS)	LS	LUMP SUM	LUMP SUM	
4	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
5	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
6	120116	TYPE II BARRICADE	EA	20		
7	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	440		
8	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	47,100		
9	120199	TRAFFIC PLASTIC DRUM	EA	260		
10	120300	TEMPORARY PAVEMENT MARKER	EA	1,640		
11	128651	PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	10		
12	129000	TEMPORARY RAILING (TYPE K)	LF	26,900		
13	129100	TEMPORARY CRASH CUSHION MODULE	EA	710		
14	025800	TEMPORARY ALTERNATIVE CRASH CUSHION	EA	3		
15	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
16	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
17	130530	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	240		
18	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	21		
19	130640	TEMPORARY FIBER ROLL	LF	9,480		
20	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	1		

BID ITEM LIST
11-401404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
22	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
23	141101	REMOVE YELLOW PAINTED TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	23,100		
24	141120	TREATED WOOD WASTE	LB	192,000		
25	150607	REMOVE FENCE (TYPE WM)	LF	180		
26	150662	REMOVE METAL BEAM GUARD RAILING	LF	9,660		
27	150685	REMOVE IRRIGATION FACILITY	LS	LUMP SUM	LUMP SUM	
28	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	60,800		
29	150712	REMOVE PAINTED PAVEMENT MARKING	SQFT	1,010		
30	150771	REMOVE ASPHALT CONCRETE DIKE	LF	130		
31	150772	REMOVE CURB	LF	330		
32	152322	RESET ROADSIDE SIGN (WOOD POST)	EA	4		
33	152324	RESET ROADSIDE SIGN (METAL POST)	EA	1		
34	152392	RELOCATE ROADSIDE SIGN (WOOD POST)	EA	5		
35	153121	REMOVE CONCRETE (CY)	CY	10		
36	153142	REMOVE CONCRETE ISLAND (PORTIONS) (CY)	CY	130		
37	153229	REMOVE CONCRETE BARRIER (TYPE K)	LF	80		
38	156585	REMOVE CRASH CUSHION	EA	24		
39	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
40	190101	ROADWAY EXCAVATION	CY	2,080		

**BID ITEM LIST
11-401404**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	190105	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	CY	1,070		
42 (F)	192001	STRUCTURE EXCAVATION	CY	572		
43 (F)	193001	STRUCTURE BACKFILL	CY	305		
44	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
45	202004	IRON SULFATE (LB)	LB	530		
46	202011	MULCH	CY	130		
47	202036	SLOW RELEASE OR CONTROLLED RELEASE FERTILIZER	LB	420		
48	204006	PLANT (GROUP F)	EA	49,900		
49 (F)	204008	PLANT (GROUP H)	EA	16,136		
50	204096	MAINTAIN EXISTING PLANTED AREAS	LS	LUMP SUM	LUMP SUM	
51	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
52	206400	CHECK AND TEST EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
53	206401	MAINTAIN EXISTING IRRIGATION FACILITIES	LS	LUMP SUM	LUMP SUM	
54	206560	CONTROL AND NEUTRAL CONDUCTORS	LS	LUMP SUM	LUMP SUM	
55	206602	1" ELECTRIC REMOTE CONTROL VALVE	EA	11		
56	206604	1 1/2" ELECTRIC REMOTE CONTROL VALVE	EA	6		
57	208465	SPRINKLER (TYPE A-5)	EA	61		
58	208466	SPRINKLER (TYPE A-6)	EA	14		
59	208467	SPRINKLER (TYPE A-7)	EA	13		
60	208471	SPRINKLER (TYPE B-1)	EA	98		

BID ITEM LIST
11-401404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	28		
82	490601	16" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	7,406		
83	BLANK					
84 (F)	044330	STRUCTURAL CONCRETE (PILE CAP)	CY	267		
85 (F)	510072	STRUCTURAL CONCRETE, BARRIER SLAB	CY	765		
86 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	4.7		
87 (F)	044331	ARCHITECTURAL SURFACE (HEAVY SANDBLAST)	SQFT	13,800		
88 (F)	520101	BAR REINFORCING STEEL	LB	39,818		
89	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	16		
90	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	20		
91	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	3		
92	568015	INSTALL SIGN (MAST-ARM HANGER METHOD)	EA	2		
93	597600	PREPARE AND PAINT CONCRETE	SQFT	13,800		
94	025802	GEOTEXTILE REINFORCEMENT FABRIC	SQYD	410		
95	690104	8" CORRUGATED STEEL PIPE DOWNDRAIN	LF	11		
96	703233	GRATED LINE DRAIN	LF	20		
97	721430	CONCRETE (CHANNEL LINING)	CY	4		
98	730020	MINOR CONCRETE (CURB) (CY)	CY	2.7		
99 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	658		
100	800051	FENCE (TYPE WM, METAL POST)	LF	60		

BID ITEM LIST
11-401404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	839541	TRANSITION RAILING (TYPE WB)	EA	2		
102	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	1		
103	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	1		
104	025803	ALTERNATIVE CRASH CUSHION	EA	23		
105	025804	CRASH CUSHION (TYPE SMART)	EA	2		
106	025805	CRASH CUSHION (TYPE SMART-TL2)	EA	1		
107	025806	CRASH CUSHION (QUADGUARD ELITE)	EA	4		
108	839701	CONCRETE BARRIER (TYPE 60)	LF	7,130		
109	839710	CONCRETE BARRIER (TYPE 60S)	LF	69		
110 (F)	044332	CONCRETE BARRIER (TYPE 80 MODIFIED)	LF	1,238		
111	839727	CONCRETE BARRIER (TYPE 736 MODIFIED)	LF	1,034		
112	025807	CONCRETE BARRIER (TYPE 60 MODIFIED)	LF	520		
113	025808	CONCRETE BARRIER (TYPE 60C MODIFIED)	LF	16		
114	025809	CONCRETE BARRIER (TYPE 60F MODIFIED)	LF	170		
115	025810	CONCRETE BARRIER (TYPE 60G MODIFIED)	LF	140		
116	025811	CONCRETE BARRIER (TYPE 60GE MODIFIED)	LF	170		
117 (F)	025812	CONCRETE BARRIER (TYPE 736SV MODIFIED)	LF	2,450		
118	025813	CONCRETE BARRIER (TRANSITION)	LF	440		
119	840516	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	1,920		
120	840655	PAINT TRAFFIC STRIPE (1-COAT)	LF	5,470		

BID ITEM LIST

11-401404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	846001	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	24,400		
122	846004	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 17-7)	LF	3,220		
123	846005	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 36-12)	LF	3,270		
124	846009	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	5,590		
125	846010	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 12-3)	LF	1,430		
126	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	570		
127	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	960		
128	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
129	860615	MODIFY FLASHING BEACON	LS	LUMP SUM	LUMP SUM	
130	860889	MODIFY TRAFFIC MONITORING STATION	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST
11-401404

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
131	861088	MODIFY RAMP METERING SYSTEM	LS	LUMP SUM	LUMP SUM	
132	861501	MODIFY SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
133	861503	MODIFY LIGHTING	LS	LUMP SUM	LUMP SUM	
134	BLANK					
135	153221	REMOVE CONCRETE BARRIER	LF	300		
136	404093	SEAL ISOLATION JOINT	LF	1034		
137	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID FOR BID ITEMS: \$ _____

TOTAL BID

FOR TIME: _____ X \$10,400.00 = \$ _____
WORKING DAYS BID (Not to exceed 225 Days) COST PER DAY

TOTAL BID FOR COMPARISON (COST PLUS TIME): \$ _____