

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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Be energy efficient!*

December 20, 2013

04-Son-12-9.6

04-1A2904

Project ID 0400000482

STP-P012(113)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SONOMA COUNTY NEAR THE CITY OF SEBASTOPOL AT LAGUNA DE SANTA ROSA BRIDGE.

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 Wednesday, January 8, 2014.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid* book, and the Federal Minimum Wages with Modification Number 21 dated 12/20/2013.

Project plan sheets 2, 3, 4, 5, 6, 7, 9, 14, 17, 26, 28, 32, 33, 34, 39, 41, 42, 43, 45, 50, 52, 53, 54, 55, 56, 57, 58, 60, 61, 67, 68, 80, 81, 82, 83, 85, 86, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 104, 105 and 112 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 55A, 58A, 73A, 73B and 115A are added and attached for addition to the project plans.

In the *Notice to Bidders and Special Provisions*, in the "STANDARD PLANS LIST," the T13 Standard Plan is deleted.

In the *Notice to Bidders and Special Provisions*, in the "STANDARD PLANS LIST," the following Revised Standard Plans are added as attached.

"RSP H9 and RSP T13."

In the *Notice to Bidders*, the tenth paragraph is replaced as follows:

"Bids must be on a unit cost basis."

In the *Notice to Bidders*, the eleventh paragraph is replaced as follows:

"Complete the work within 350 working days."

In the *Notice to Bidders*, the twelfth paragraph is deleted.

In the Special Provisions, "Section 5-1.36D," "Nonhighway Facilities," the following table is added as follows:

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**Add to section 5-1.36D:**

The utility owner will relocate a utility shown in the following table before the corresponding date shown:

**Utility Relocation and Date of the Relocation**

Utility	Location	Date
PG&E gas line	station A 14+00 to station 22+00	08/05/14
PG&E electric	station A 11+00 to station 30+00	07/29/14
Comcast	station A 11+00 to station 30+00	09/29/14
AT&T	station A 11+00 to station 30+00	09/29/14

In the Special Provisions, "Section 6, CONTROL OF MATERIALS," first paragraph of section 6-2.03 is deleted.

In the Special Provisions, "Section 8, PROSECUTION AND PROGRESS," "Add to section 8-1.10A" paragraph is deleted.

In the Special Provisions, "Section 12, TEMPORARY TRAFFIC CONTROL," "Add to section 12-4.02A:" is replaced as attached.

In the Special Provisions, "Section 12 TEMPORARY TRAFFIC CONTROL," "Add to section 12-4.03:" is replaced as follows:

**Add to section 12-4.03:**

If a closure is not reopened to public traffic by the specified time, work shall be suspended in conformance with the provisions in Section 8-1.06, "Suspension," of the Standard Specifications. Further closures are not allowed until the Engineer has accepted a work plan, submitted by you, that will ensure that future closures will be reopened to public traffic at the specified time. The Engineer will have 2 business days to accept or reject your proposed work plan. You will not be entitled to be compensated for the suspension of work resulting from the late reopening of closures.

For each 10-minute interval or fraction thereof past the time specified to reopen the closure, the Department will deduct the amount per interval shown below from moneys due or that may become due the Contractor under the Contract. Damages are limited to 5 percent of the project cost per occurrence. Damages will not be assessed if the Engineer orders that the closure remain in place beyond the scheduled pickup time.

Type of facility	Route or segment	Period	Damages/interval (\$)
Mainline	12 Full Closure (LCC#2)	1st half hour	\$1,100 / 10 minutes
		2nd half hour	\$1,600 / 10 minutes
		2nd hour and beyond	\$2,100 / 10 minutes
Mainline	12 One-Way Traffic Control(LCC#1)	1st half hour	\$1,000 / 10 minutes
		2nd half hour	\$1,000 / 10 minutes
		2nd hour and beyond	\$1,000 / 10 minutes

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In the Special Provisions, "Section 12, TEMPORARY TRAFFIC CONTROL," "Section 12-4.04" is replaced as attached.

In the Special Provisions, "Section 12, TEMPORARY TRAFFIC CONTROL," "Section 12-4.05F" is replaced as attached.

In the Special Provisions, "Section 12, TEMPORARY TRAFFIC CONTROL," "Section 12-4.05G" is replaced as attached.

In the Special Provisions, "Section 12, TEMPORARY TRAFFIC CONTROL," "Section 12-5.04 PAYMENT" is replaced as follows:

**12-5.04 PAYMENT**

Traffic control system for lane closure is paid for as traffic control system. Flagging costs are paid for as specified in section 12-1.03.

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.

In the Special Provisions, Section 14-6.02, "SPECIES PROTECTION," is replaced as attached.

In the Special Provisions, Section 14-6.03 is deleted.

In the Special Provisions, Section 14-11.03, "MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALY DEPOSITED LEAD," is replaced as attached.

In the Special Provisions, Section 14-11.09, "TREATED WOOD WASTE," is replaced as attached.

In the Special Provisions, Section 15-2.02C(2), "Remove Traffic Stripes and Pavement Markings Containing Lead," is replaced as follows:

**Replace section 15-2.02C(2) with:**

**15-2.02C(2) Remove Traffic Stripes and Pavement Markings Containing Lead**

Residue from removing traffic stripes and pavement markings contains lead from the paint or thermoplastic. The average lead concentrations are less than 1,000 mg/kg total lead and 5 mg/L soluble lead. This residue:

1. Is a nonhazardous waste
2. Does not contain heavy metals in concentrations that exceed thresholds established by the Health and Safety Code and 22 CA Code of Regs
3. Is not regulated under the Federal Resource Conservation and Recovery Act (RCRA), 42 USC § 6901 et seq.

Submit a lead compliance plan under section 7-1.02K(6)(j)(ii).

Payment for a lead compliance plan is not included in the payment for existing facilities work.

Payment for handling, removal, and disposal of pavement residue that is a nonhazardous waste is included in the payment for the type of removal work involved.

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In the Special Provisions, replace "Add to Section 15-4.01C(1)" as follows:

Remove the following bridges

Bridge no.	Description of work
20-0035	Whole bridge including abandoned utilities on the bridge
20-0035	Entire piling shown to be in conflict with new foundation work.

In the Special Provisions, Section 19, "EARTHWORK," "Replace the 7th paragraph of section 19-3.03C with:" paragraph is deleted.

In the Special Provisions, Section 19-3.03B(4), the 7th paragraph is replaced as follows:

Remove cofferdams with all sheeting and bracing to at least 2 feet below the streambed after completing substructure construction, except cofferdams at the bents must be removed in their entirety. Do not disturb or mar the finished concrete or masonry.

In the Special Provisions, Section 19, "EARTHWORK," Replace "Add to section 19-3.04" paragraph as follows:

Structure excavation for footings at locations not shown as structure excavation (Type D) or (Type A) and where ground or surface water is encountered is paid for as structure excavation (retaining wall).

In the Special Provisions, Section 20-1.01B, "Definitions," is added as follows:

**"Add to section 20-1.01B:**

**noxious weeds:** Any species of plant that is, or is liable to be, troublesome, aggressive, intrusive, detrimental, or destructive to agriculture, silviculture, or important native species, and difficult to control or eradicate, as designated by the county and by section 5004 of the California Department of Food and Agriculture Code.

Supporting information for field identification purposes including photographic gallery of noxious weeds can be found at the California Department of Food and Agriculture - "Encyclopedia" web site:

[http://www.cdfa.ca.gov/plant/ipc/encycloweedia/encycloweedia\\_hp.htm](http://www.cdfa.ca.gov/plant/ipc/encycloweedia/encycloweedia_hp.htm)."

In the Special Provisions, Section 20-4.02D, "Payment," is added as follows:

**"Replace section 20-4.02D with:**

Supply line on structures is paid for as supply line (bridge)."

In the Special Provisions, Section 20-7.01B(1), "Vendor Statement," the second paragraph is replaced as follows:

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**"Replace the 2nd paragraph in section 20-7.01(B)1:**

At least 60 days before planting the plants, submit a statement from the vendor that the order for the plants required for this Contract, including inspection plants, has been received and accepted by the vendor. The statement from the vendor must include the names, sizes, and quantities of plants ordered, including:

1. Collection zone location or origin (with GPS coordinate data)
2. Record of each collection event (date and time)
3. The anticipated delivery date"

In the Special Provisions, Section 20-7.02A, "General," the following paragraphs are added after the second paragraph.

**"Add to section 20-7.02A:**

Plants must be grown and propagated from seeds or cuttings collected from within the area defined as the "Laguna de Santa Rosa Watershed" (see area map found at the "Laguna de Santa Rosa Foundation" web site: [http://www.lagunadesantarosa.org/about\\_maps.htm](http://www.lagunadesantarosa.org/about_maps.htm))

Seeds and cuttings of each plant species, used for plant propagation, must be collected from a minimum of 10 different plants within the collection zone. Do not collect seeds and cuttings from any single plant.

Do not collect more than 5 percent of the seed of any one plant species within the collection zone.

Collect seeds for propagation at least three times throughout the seed ripening period; early mid and late ripening periods and combine into one propagule collection batch to obtain a random genetic mix.

If fewer than 10 different plants are available within the collection zone, or if collecting seed and cutting will be greater than 5 percent of any one plant species within the collection zone; you may request to use plant material originating outside the designated collection zone. Obtain written authorization by the Engineer before procuring plants originating outside the collection zone."

In the Special Provisions, Section 20-7.02D(3), "Foliage Protector," the following paragraphs are added after the fifth paragraph.

**"Add to section 20-7.02D(3):**

Filter fabric must be Class A.

Staples for filter fabric must comply with section 21-1.02R."

In the Special Provisions, Section 20, "**Add between the 3rd and 4th paragraphs of section 20-7.03B(1),**" is replaced as follows:

"Dispose of removed existing plants or reduce to chips and spread within the job site. Spread chipped materials at locations determined by the Engineer. Chipped material must not be substituted for mulch, nor must the chipped material be placed within areas to receive mulch.

Chipped material must not contain poison oak."

In the Special Provisions, Section 20-7.03B(2), "Initial Roadside Clearing," is added as follows:

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**"Add to section 20-7.03B(2):**

Weeds must be killed within 2 feet of the edges of paved shoulders, dikes, curbs, and sidewalks.

Weeds must be killed and removed under guard rails, from within areas where asphalt concrete surfacing, concrete surfacing, rock blankets, gravel mulch or decomposed granite areas are to be placed, and from within unpaved gore areas between the edge of pavement and planting areas as shown.

Weeds outside of mulched areas, plant basins, and ground cover must be controlled by mowing. Limits of mowing must extend from the weeds to be killed areas out to the edges of pavement, dikes, curbs, sidewalks, walls, and fences.

Kill and remove existing ground cover within an area 4 foot in diameter centered at each plant location within existing ground cover areas.

Kill weeds within an area 3 feet in diameter centered at each plant location where the plants are planted more than 5 feet apart. At locations where plants are to be planted less than 5 feet apart, kill weeds within the entire area.

Kill noxious weeds within the highway, including median areas, new and existing pavement, curbs, sidewalks, and other surfaced areas with pesticides or by hand pulling.

If pesticides are used, apply pesticides directly onto noxious weeds to prevent overspray.

Noxious weed species includes:

Botanical Name	Common Name
<i>Cardus pycnocephalus</i>	Italian thistle
<i>Centaurea solstitialis</i>	Yellow star thistle
<i>Cirsium vulgare</i>	Bull thistle
<i>Convolvulus arvensis</i>	Field bindweed
<i>Cynara cardunculus</i>	Artichoke thistle
<i>Cytisus scoparius</i>	Scotch broom
<i>Lepidium latifolium</i>	Perennial pepperweed

Before removing and disposing noxious weeds, cover seed pods or seed heads with clear plastic bags, and secure tightly to prevent seed dispersal. Ensure that plastic bags remain intact through disposal."

In the Special Provisions, Section 20-7.03I(7), "Foliage Protector," the following paragraph is added after the 2nd paragraph.

"Install filter fabric over plant basin, creating sufficient opening for the plant, and secure with staples as shown."

In the Special Provisions, Section 21-1.01B, "Submittals," the 3rd paragraph is replaced as follows:

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**"Replace the 3rd paragraph in section 21-1.01B:**

At least 60 days before seed application, submit proof that the order for seed required for the Contract has been placed and accepted by the seed vendor. Include the seed's botanical names, quantity ordered, and the anticipated date of delivery.

1. Collection zone location or origin (with GPS coordinate data
2. Record of each collection event (date and time)"

In the Special Provisions, Section 21-1.02G, "Seed," the following paragraph is added after the 2nd paragraph.

**"Add to section 21-1.02G:**

Seed must comply with collection origin requirements in section 20-7.02A."

In the Special Provisions, Section 39-1.21, "REPLACE ASPHALT CONCRETE SURFACING," is replaced as attached.

In the Special Provisions, Section 51, "CONCRETE STRUCTURES," "Replace the 1st paragraph in section 51-1.03F(5)(b)(i) with" paragraph is deleted.

In the Special Provisions, "Section 40-2 JOINTED PLAIN CONCRETE PAVEMENT, is replaced as attached.

In the Special Provisions, Section 83-2.02D(1), the 7th paragraph is added as follows:

**"Replace the 7th paragraph in section 83-2.02D(1):**

"If a concrete barrier is to be constructed on an existing structure or a new structure, bond the dowel in drilled holes in the concrete as shown. Drilling of the holes and bonding of the dowels must comply with Section 51."

In the Special Provisions, Section 83-2.02D(1), the 15th paragraph is added as follows:

**"Replace the 15th paragraph in section 83-2.02D(1):**

"The tubular hand railing and tubular lower railing for type 80SW concrete barriers must comply with the specifications for tubular hand railings in section 83-1.02G(2)."

In the Special Provisions, "Section 84, TRAFFIC STRIPES AND PAVEMENT MARKINGS," is replaced as attached.

In the Special Provisions, "Section 86, ELECTRICAL SYSTEMS," is replaced as attached.

In the *Bid* book, in the "Bid Item List," Items 45, 46, 47, 54, 56, 57, 61, 62, 63, 64, 65, 68, 78, 81, 82, 83, 84, 85, 97, 98, 104, 109, 113, 114, 124, and 130 are replaced, Items 149, 150, 151, 152, 153, 154, 155, 156 and 157 are added, and Items 3, 53, 73, 131, 146 and 148 are deleted as attached.

To *Bid* book holders:

In the *Bid* book, pages 3, 5, 6, 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*.

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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.

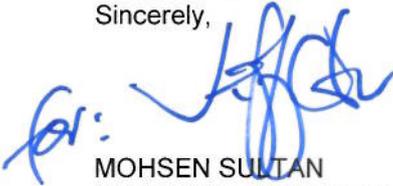
Inform subcontractors and suppliers as necessary.

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/04/04-1A2904](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-1A2904)**

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,



MOHSEN SULTAN  
Chief, Office of Plans, Specifications & Estimates  
Office Engineer  
Division of Engineering Services

Attachments

**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:

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.

Special days are: Third Monday in January (MLK Jr. Day)

Under a 1-way reversing traffic control operation, traffic may be stopped in 1 direction for periods not to exceed 5 minutes. After each stoppage, all accumulated traffic for that direction must pass through the work zone before another stoppage is made.

The maximum length of a single stationary lane closure is 0.3 miles.

Not more than 1 stationary lane closures will be allowed in each direction of travel at one time. Concurrent stationary closures must be spaced no closer than 2 miles apart.

Freeway closure charts are for the erection and removal of falsework, placement and removal of overhead sign structures, and other authorized work.

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

If work vehicles or equipment are parked within 6 feet of a traffic lane, close the shoulder area with fluorescent orange traffic cones or portable delineators. Place the cones or delineators on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. Use at least 9 cones or delineators for the taper. Use a W20-1, "Road Work Ahead," W21-5b, "Right/Left Shoulder Closed Ahead," or C24(CA), "Shoulder Work Ahead," sign mounted on a crashworthy, portable sign support with flags. The sign must be placed as ordered by the Engineer and at least 48 by 48 inches in size. If a cone or delineator is displaced or overturned, immediately restore the device to its original position or location.

Precast concrete members must not be cast within the right-of-way of Route 12.

Erect precast girders over Route 12 one span at a time. During girder erection, traffic in the lanes over which girders are being placed must be detoured or stopped as specified in section 12-4.02A.

Have the necessary materials and equipment on site to erect girders or erect or remove falsework in any 1 span or over any 1 opening before detouring or stopping traffic.

Replace "Reserved" in section 12-4.04 with:

Lane Closure Restriction for Designated Holidays and Special Days										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	<b>H</b> xx	xx	xx							
	<b>SD</b> xx									
x	xx	<b>H</b> xx	xx							
		<b>SD</b> xx								
	x	xx	<b>H</b> xx	xx						
			<b>SD</b> xx							
	x	xx	xx	<b>H</b> xx	xxx					
	x	xx	xx	<b>SD</b> xx	xxx					
				x	<b>H</b> xx					
				x	<b>SD</b> xx					
					x	<b>H</b> xx				
						<b>SD</b> xx				
						x	<b>H</b> xx	xx	xx	xx
							<b>SD</b> xx			
Legend:										
	Refer to lane requirement charts									
x	The full width of the traveled way must be open for use by traffic after 6AM.									
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 10PM.									
<b>H</b>	Designated holiday									
<b>SD</b>	Special day									

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

<b>Chart no. 1 Conventional Highway Lane Requirements</b>																														
County: Sonoma					Route/Direction: 12/EB/WB										PM: 9.63															
Closure limits: At Laguna de Santa Rosa Bridge (no. 20-0035)																														
From hour to hour																														
	24	1	2	3	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	R	R		
Fridays	R	R	R	R	R	R																					R	R	R	
Saturdays	R	R	R	R	R	R	R																				R	R	R	R
Sundays	R	R	R	R	R	R	R	R																			R	R	R	R
Legend:																														
<table border="0"> <tr> <td style="border: 1px solid black; width: 20px; height: 15px; text-align: center;">R</td> <td>Provide at least 1 through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 15px;"></td> <td>Work allowed within the highway where shoulder or lane closure is not required</td> </tr> </table>																									R	Provide at least 1 through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)		Work allowed within the highway where shoulder or lane closure is not required		
R	Provide at least 1 through traffic lane, not less than 10 feet in width, for use by both directions of travel (Reversing Control)																													
	Work allowed within the highway where shoulder or lane closure is not required																													
REMARKS:																														
<ol style="list-style-type: none"> <li>1. Public traffic may be stopped in one direction for periods not to exceed 5 minutes.</li> <li>2. The maximum length of a single stationary lane closure shall be 0.3 miles.</li> </ol>																														

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

Chart no. 2 Complete Conventional Highway Closure Hours																											
County: Sonoma					Route/Direction: 12/EB/WB										PM: 9.63												
Closure limits: At Laguna de Santa Rosa Bridge (No. 20-0035)																											
From hour to hour		24	1	2	3	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	C																			C	C
Saturdays		C	C	C	C	C	C	C																		C	C
Sundays		C	C	C	C	C	C																			C	C
Legend:																											
<input type="checkbox"/> C		Conventional highway may be closed completely																									
<input type="checkbox"/>		No complete conventional highway closure is allowed																									
REMARKS:																											
1. Detour Traffic as per Detour Plan on Sheet CS-3.																											
2. This Chart shall be used only for Bridge Removal, Closure Pour Placement, Precast Girder Placement and Deck Placement, for a maximum duration of 20 total days.																											

Replace section 14-6.02 with:

**14-6.02 SPECIES PROTECTION**

**14-6.02A General**

Section 14-6.02 includes specifications for protecting regulated species or their habitat.

This project is within or near habitat for regulated species shown in the following table:

Species Name
Sebastopol meadowfoam
Burke's goldfields
Sonoma sunshine
Central California Coast steelhead
Central California Coast Coho salmon
Western Pond Turtle
Bats

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 15 to August 31

**14-6.02B Material**

Not Used

**14-6.02C Construction**

**14-6.02C(1) General**

Not Used.

**14-6.02C(2) Protective Radius**

Upon discovery of a regulated species, stop construction activities within a radius of the discovery as defined in the table below. Immediately notify the Engineer. Do not resume activities until receiving notification from the Engineer.

Regulated species name	Protective radius
Raptor and owl species	300 feet
All other bird species	50 feet

**14-6.02C(3) Protocols**

From September 1 to February 14, remove all nests or roosts and prevent birds or bats from nesting or roosting.

Submit 2 copies of a Bird Nesting/Bat Roosting Removal and Prevention Plan for review 15 days after contract approval. If revisions are required, revise and resubmit the plan within 10 days of receipt of the Engineer's comments. The plan must describe the:

1. Requirements of plan implementation
2. Locations of work
3. Nesting removal, prevention, inspection and maintenance methods
4. Equipment and materials to be used
5. Schedule for removing nests and installing exclusion devices

Submit a copy of the inspection records of the Bird Nesting/Bat Roosting Removal and Prevention Plan for the previous week no later than the following Tuesday.

After the nests are removed, prevent birds from nesting by installing heavy delta knotless netting, ½-inch square mesh, or alternative exclusion devices.

Every other day, inspect exclusion devices and check for any signs of nesting. Maintain, repair and replace the devices to correct any problem discovered within 24 hours. Remove unoccupied new or partially built nests. Keep a written inspection record of time, date, condition, and any action taken.

Remove all exclusion devices when no longer needed. Exclusion device removal must comply with section 5-1.20B(4).

#### **14-6.02C(4) Biological Resource Information**

Implement the following biological resource information requirements.

1. The Department appointed biological monitor must present a Biological Resource Information Program that all construction personnel must receive.
2. Workers must receive Biological Resource Information training before performing on-site work. Workers include laborers, tradesmen, material suppliers, equipment maintenance personnel, supervisors, foremen, office personnel, food vendors, and other personnel who stay on the project longer than 30 minutes.
3. Provide the Engineer with an attendance list including the printed and signed name of each attendee of the Biological Resource Information Program. Provide the Engineer with the attendance list within 2 working days following each environmental education session. Submit a separate attendance list for each subsequent session for new workers.

#### **14-6.02C(5) Protection Measures**

Within species protection area 1, implement the following protection measures:

1. From June 15 to October 15, ground disturbing work is allowed.
2. From October 16 to June 14, ground disturbing work is not allowed, except for maintenance.
3. Notify the Engineer 12 working days before you start job site activities. The Department performs a pre-construction biological survey. The Department does not authorize the work to begin until the survey has been completed.
4. You must work within the limits of the project, as shown, including vehicle parking, staging, laydown areas, and access roads.
5. You must immediately report to the Engineer any information about take or suspected take of listed wildlife species not authorized in the biological opinion.
6. You must immediately report to the Engineer any observations of listed or sensitive plant and animal species.
7. Temporary fill materials, including temporary water diversion, temporary access road, and temporary access pad, must be completely removed before October 15 of each year, unless authorized by the Department and permitting agencies. These fill areas must be returned to pre-construction ground contours.
8. The temporary sheet piling between the existing and new facilities must remain in place from October 16 to June 14 to protect the existing facilities from scour and erosion.
9. Do not use motorized equipment within the active channel of the Laguna de Santa Rosa Creek.
10. From June 15 to August 15, you may perform clearing and grubbing work, including stump removal.
11. From September 1 to February 15, obtain authorization before performing clearing and grubbing work. During this period, clearing and grubbing work must be above ground. Do not disturb the ground.
12. Tree removal must be performed as follows:
  - 12.1 You must perform tree removal in two phases over two consecutive days.
  - 12.2 For phase 1, in the afternoon of the first day, limbs and branches must be removed using chainsaws or other hand tools only. Limbs with cavities, crevices, or deep bark fissures must be avoided and only branches or limbs without those features are removed.
  - 12.3 For phase 2, on the second day, the entire tree must be removed.
13. From February 1 to October 15, the Department performs biological surveys. If any bird nests or bat roosts are found, the clearing and grubbing work must be performed as follows:
  - 13.1. You must perform tree removal in three phases.
  - 13.2 The first and second phase must be over two consecutive days.
  - 13.3 For phase 1, in the afternoon of the first day, limbs and branches must be removed using chainsaws or other hand tools only. Limbs with cavities, crevices, or deep bark fissures must be avoided and only branches or limbs without those features are removed.

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- 13.4 For phase 2, on the second day, remove the portion of the tree above the ground.
- 13.5 For phase 3, from June 15 to August 15, remove the tree stump and roots.
14. Notify the Engineer 10 days before dewatering.
15. Install the ESA fence not more than 5 feet beyond the cut/fill line in consultation with the Resident Engineer and Caltrans Biologist.
16. To the extent practicable, you must leave the root masses of removed trees and shrubs in place. You must not disturb or remove vegetation beyond the minimum necessary to complete operations.
17. Do not remove oak trees. You must fence oak trees, within the project site that can be avoided, along their drip line.
18. You must, upon encountering non-listed or non-regulated species during the work, allow the wildlife to leave the area unharmed and on their own volition.
19. If the gradient of the streambed is altered during project operations, you must return its contours as close as possible to pre-project conditions. Pre-project condition must be defined (e.g. by engineered plans, LIDAR, geomorphological crosssections) and dated before commencement of the project.
20. No clearing and grubbing must occur beyond the cut/fill line unless authorized by the Caltrans approved biologist.

**14-6.02D Payment**

Not Used

Replace section 14-11.03 with:

**14-11.03 MATERIAL CONTAINING HAZARDOUS WASTE CONCENTRATIONS OF AERIALY DEPOSITED LEAD**

**14-11.03A General**

**14-11.03A(1) Summary**

Section 14-11.03 includes specifications for hazardous waste management while excavating, stockpiling, transporting, placing, and disposing of material containing hazardous waste concentrations of aerially deposited lead (ADL).

ADL is present within the project limits.

The Department has received from the DTSC a variance regarding the use of material containing ADL. The variance applies if Type Y-1 or Y-2 material are shown.

**14-11.03A(2) Definitions**

**Type Y-1:** Material that contains ADL in average concentrations (using the 90 percent Upper Confidence Limit) of 1.5 mg/L or less extractable lead (based on a modified waste extraction test using deionized water as the extractant) and 1,411 mg/kg or less total lead. This material is a California hazardous waste that may be reused as permitted under the variance of the DTSC provided that the lead contaminated soil is placed a minimum of 5 feet above the maximum historic water table elevation and covered with at least 1 foot of non-hazardous soil.

**Type Y-2:** Material that contains ADL in average concentrations (using the 90 percent Upper Confidence Limit) that exceed either 1.5 mg/L extractable lead (based on a modified waste extraction test using deionized water as the extractant) or 1,411 mg/kg total lead but are less than 150 mg/L extractable lead (based on a modified waste extraction test using deionized water as the extractant) and less than 3,397 mg/kg of total lead. This material is a California hazardous waste that may be reused as permitted under the variance of DTSC provided that the lead contaminated soil is placed a minimum of 5 feet above the maximum historic water table elevation and protected from infiltration by a pavement structure which will be maintained by the Department.

**Type Z-2:** Material that contains ADL in average concentrations (using the 95 percent Upper Confidence Limit) greater than or equal to 1,000 mg/kg total lead, greater than or equal to 5.0 mg/L soluble lead (as tested using the California Waste Extraction Test), and the material is surplus; or material that contains ADL in average concentrations greater than 150 mg/L extractable lead (based on a modified waste extraction test using deionized water as the extractant) or greater than 3,397 mg/kg total lead. This material is a Department-generated California hazardous waste and must be transported to and disposed of at a California Class I disposal site.

**Type Z-3:** Material that contains ADL in average concentrations (using the 95 percent Upper Confidence Limit) greater than 5.0 mg/L soluble lead, (as tested using the Toxicity Characteristic Leaching Procedure). This material is a Department-generated federal hazardous waste and must be transported to and disposed of at a California Class I disposal site.

**14-11.03A(3) Site Conditions**

ADL concentration data and sample locations maps are included in the *Information Handout*.

Type Z-2 material exists from station 22+00 to 24+00, on the south side of SR-12, as shown in the plans.

**14-11.03A(4) Submittals**

**14-11.03A(4)(a) Lead Compliance Plan**

Submit a lead compliance plan under section 7-1.02K(6)(j)(ii).

#### **14-11.03A(4)(b) Excavation and Transportation Plan**

Within 15 days after approval of the Contract, submit 3 copies of an excavation and transportation plan. Allow 7 days for review. If revisions are required, as determined by the Engineer, submit the revised plan within 7 days of receipt of the Engineer's comments. For the revision, allow 7 days for the review. Minor changes to or clarifications of the initial submittal may be made and attached as amendments to the excavation and transportation plan. In order to allow construction to proceed, the Engineer may conditionally approve the plan while minor revisions or amendments are being completed.

Prepare the written, project specific excavation and transportation plan establishing the procedures you will use to comply with requirements for excavating, stockpiling, transporting, and placing or disposing of material containing ADL. The plan must comply with the regulations of the DTSC and Cal/OSHA and the requirements of the variance. The sampling and analysis portions of the excavation and transportation plan must meet the requirements for the design and development of the sampling plan, statistical analysis, and reporting of test results contained in US EPA, SW 846, "Test Methods for Evaluating Solid Waste," Volume II: Field Manual Physical/Chemical, Chapter Nine, Section 9.1. The plan must include the following elements:

1. Excavation schedule by location and date
2. Temporary locations of stockpiled material
3. Dust control measures
4. Transportation equipment and routes
5. Method for preventing spills and tracking material onto public roads
6. Truck waiting and staging areas
7. Site for disposal of hazardous waste
8. Spill Contingency Plan for material containing ADL

#### **14-11.03A(4)(c) Burial Location Report**

Not Used

#### **14-11.03A(4)(d) Bill of Lading**

Copies of the bills of lading must be submitted as an informational submittal upon placement of Type Y-1 or Y-2 material in its final location.

#### **14-11.03A(5) Quality Control and Assurance**

Excavation, reuse, and disposal of material with ADL must comply with rules and regulations of the following agencies:

1. US DOT
2. US EPA
3. California Environmental Protection Agency
4. CDPH
5. DTSC
6. Cal/OSHA
7. California Department of Resources Recycling and Recovery
8. RWQCB, Region 1, North Coast
9. California Air Resources Board
10. Bay Area Air Quality Management District

Transport and dispose of material containing hazardous levels of lead under federal and state laws and regulations and county and municipal ordinances and regulations. Laws and regulations that govern this work include:

1. Health & Safety Code, Division 20, Chp 6.5 (California Hazardous Waste Control Act)
2. 22 CA Code of Regs, Div. 4.5 (Environmental Health Standards for the Management of Hazardous Waste)
3. 8 CA Code of Regs

#### **14-11.03B Materials**

Not Used

### **14-11.03C Construction**

#### **14-11.03C(1) General**

Not Used

#### **14-11.03C(2) Material Management**

Transport excavated Type Z-2 material using:

1. Hazardous waste manifest
2. Hazardous waste transporter with a current DTSC registration certificate and CA Highway Patrol (CHP) Biennial Inspection of Terminals (BIT) Program compliance documentation.

#### **14-11.03C(3) Dust Control**

Excavation, transportation, placement, and handling of material containing ADL must result in no visible dust migration. A water truck or tank must be on the job site at all times while clearing and grubbing or performing earthwork operations in work areas containing ADL. Apply water to prevent visible dust.

#### **14-11.03C(4) Surveying Type Y-1 or Y-2 Material Burial Locations**

Not Used

#### **14-11.03C(5) Material Transportation**

Before traveling on public roads, remove loose and extraneous material from surfaces outside the cargo areas of the transporting vehicles and cover the cargo with tarpaulins or other cover, as outlined in the approved excavation and transportation plan. You are responsible for costs due to spillage of material containing lead during transport. Transportation routes for Type Y-1 or Y-2 material must only include the highway.

#### **14-11.03C(6) Disposal**

Analyze surplus material for which the lead content is not known for lead before removing the material from within the project limits. Submit a sampling and analysis plan and the name of the analytical laboratory at least 15 days before beginning sampling and analysis. Use a CDPH ELAP certified laboratory. Sample at a minimum rate of 1 sample for each 200 cu yd of surplus material and test for lead using US EPA Method 6010B or 7000 series.

The Engineer will obtain the State of California Board of Equalization identification no, for hazardous waste disposal. The Engineer will sign all hazardous waste manifests. Notify the Engineer 5 business days before the manifests are to be signed.

#### **14-11.03D Payment**

Payment for a lead compliance plan is not included in the payment for environmental stewardship work.

The Department does not pay for stockpiling of material containing ADL, unless the stockpiling is ordered. The Department does not pay for sampling and analysis unless it is ordered. The Department does not pay for additional sampling and analysis required by the receiving landfill.

Sampling, analyses, and reporting of results for surplus material not previously sampled is change order work.

**Replace section 14-11.09 with:**

**14-11.09 TREATED WOOD WASTE**

**14-11.09A General**

**14-11.09A(1) Summary**

Section 14-11.09 includes specifications for handling, storing, transporting, and disposing of treated wood waste (TWW).

Wood removed from metal beam guard railing is TWW. Manage TWW under 22 CA Code of Regs, Div. 4.5, Chp. 34.

**14-11.09A(2) Submittals**

For disposal of TWW, submit as an informational submittal a copy of each completed shipping record and weight receipt within 5 business days.

**14-11.09B Materials**

Not Used

**14-11.09C Construction**

**14-11.09C(1) General**

**14-11.09C(2) Training**

Provide training to personnel who handle TWW or may come in contact with TWW. Training must include:

1. All applicable requirements of 8 CA Code of Regs
2. Procedures for identifying and segregating TWW
3. Safe handling practices
4. Requirements of 22 CA Code of Regs, Div. 4.5, Chp. 34
5. Proper disposal methods

Maintain records of personnel training for 3 years.

**14-11.09C(3) Storage**

Store TWW before disposal using the following methods:

1. Elevate on blocks above a foreseeable run-on elevation and protect from precipitation for no more than 90 days.
2. Place on a containment surface or pad protected from run-on and precipitation for no more than 180 days.
3. Place in water-resistant containers designed for shipping or solid waste collection for no more than 1 year.
4. Place in a storage building as defined in 22 CA Code of Regs, Div. 4.5, Chp. 34, § 67386.6(a)(2)(C).

Prevent unauthorized access to TWW using a secured enclosure such as a locked chain link fenced area or a lockable shipping container located within the job site.

Resize and segregate TWW at a location where debris from the operation including sawdust and chips can be contained. Collect and manage the debris as TWW.

Provide water-resistant labels that comply with 22 CA Code of Regs, Div. 4.5, Chp. 34, §67386.5, to clearly mark and identify TWW and accumulation areas. Labels must include:

1. Caltrans, District number, Construction, Construction Contract number
2. District office address
3. Engineer's name, address, and telephone number
4. Contractor's contact name, address and telephone number
5. Date placed in storage

#### **14-11.09C(4) Transporting and Disposal**

Before transporting TWW, obtain an agreement from the receiving facility that the TWW will be accepted. Protect shipments of TWW from loss and exposure to precipitation. For projects with 10,000 pounds or more of TWW, request a US EPA Generator Identification Number from the Engineer at least 5 business days before the first shipment. Each shipment must be accompanied by a shipping record such as a bill of lading or invoice that includes:

1. Caltrans with district number
2. Construction Contract number
3. District office address
4. Engineer's name, address, and telephone number
5. Contractor's contact name and telephone number
6. Receiving facility name and address
7. Waste description: Treated Wood Waste with preservative type if known or unknown/mixture
8. Project location
9. Estimated quantity of shipment by weight or volume
10. Date of transport
11. Date of receipt by the receiving TWW facility
12. Weight of shipment as measured by the receiving TWW facility
13. Generator's EPA Identification Number for projects with 10,000 lb or more of TWW.

The shipping record must be at least a 4-part carbon or carbonless 8 1/2 by 11-inch form to allow retention of copies by the Engineer, transporter, and disposal facility.

Dispose of TWW at an approved TWW facility. A list of currently approved TWW facilities is available at:

<http://www.dtsc.ca.gov/HazardousWaste/upload/lanfillapr11pdated1.pdf>

Dispose of TWW within:

1. 90 days of generation if stored on blocks
2. 180 days of generation if stored on a containment surface or pad
3. 1 year of generation if stored in a water-resistant container, or within 90 days after the container is full, whichever is shorter
4. 1 year of generation if storing in a storage building as defined in 22 CA Code of Regs, Div. 4.5, Chp. 34, § 67386.6(a)(2)(C)

#### **14-11.09D Payment**

Not Used

### **39-1.21 REPLACE ASPHALT CONCRETE SURFACING**

#### **39-1.21A General**

Remove existing asphalt concrete surfacing and underlying base and replace with HMA. The Engineer determines the exact limits of replaced asphalt concrete surfacing.

#### **39-1.21B Materials**

HMA for replace asphalt concrete surfacing must be Type A.

Asphalt binder for the HMA must be PG 64-16.

The aggregate for the HMA must comply with the 3/4" grading.

#### **39-1.21C Construction**

Place replacement HMA under section 39-3.

Replace asphalt concrete in a lane before the lane is specified to be opened to traffic under section 12-4.

Before removing asphalt concrete, outline the replacement area and cut neat lines with a saw or grind to full depth of the existing asphalt concrete. Do not damage asphalt concrete and base remaining in place.

Dispose of removed material.

If the base is excavated beyond the specified plane, replace it with HMA. The Department does not pay for this HMA.

#### **39-1.21D Payment**

Replace asphalt concrete surfacing is measured based on the specified dimensions and any adjustments ordered.

You may request authorization to leave rejected replacement HMA in place. If authorized, you must accept a reduction in the payment for the rejected replacement HMA."

**Replace "Reserved" in section 40-2 with:  
40-2 JOINTED PLAIN CONCRETE PAVEMENT**

**40-2.01 GENERAL**

**40-2.01A Summary**

Section 40-2 includes specifications for constructing JPCP.

**40-2.01B Submittals**

**40-2.01B(1) General**

Not Used

**40-2.01B(2) Early Age Crack Mitigation System**

At least 24 hours before each paving shift, submit the following information as an informational submittal:

1. Early age stress and strength predictions
2. Scheduled sawing and curing activities
3. Contingency plan for mitigating cracking

**40-2.01C Quality Control and Assurance**

**40-2.01C(1) General**

Not Used

**40-2.01C(2) Quality Control Plan**

The QC plan must include a procedure for identifying transverse contraction joint locations relative to the dowel bars longitudinal center and a procedure for consolidating concrete around the dowel bars.

**40-2.01C(3) Early Age Crack Mitigation System**

For PCC concrete pavement, develop and implement a system for predicting stresses and strength during the initial 72 hours after paving. The system must include:

1. Subscription to a weather service to obtain forecasts for wind speed, ambient temperatures, humidity, and cloud cover
2. Portable weather station with an anemometer, temperature and humidity sensors, located at the paving site
3. Early age concrete pavement stress and strength prediction computer program
4. Analyzing, monitoring, updating, and reporting the system's predictions

**40-2.02 MATERIALS**

Not Used

**40-2.03 CONSTRUCTION**

**40-2.03A General**

Transverse contraction joints on a curve must be on a single straight line through the curve's radius point.

**40-2.03D Removal and Replacement**

When replacing concrete, saw cut and remove to full depth and width.

Saw cut full slabs at the longitudinal and transverse joints. Saw cut partial slabs at joints and where the Engineer orders. You may make additional saw cuts within the removal area to facilitate slab removal or to prevent binding of the saw cut at the removal area's edge. Saw cut perpendicular to the slab surface.

Use slab lifting equipment with lifting devices that attach to the slab. After lifting the slab, paint the cut ends of dowels and tie bars.

Construct transverse and longitudinal construction joints between the new slab and existing concrete using dowel bars. For longitudinal joints, offset dowel bar holes from original tie bars by 3 inches. For transverse joints, offset dowel bar holes from the original dowel bar by 3 inches.

Drill holes and use chemical adhesive to bond the dowel bars to the existing concrete. Use an automated dowel bar drilling machine. Holes must be at least 1/8-inch greater than the dowel bar diameter. Clean the holes in compliance with the chemical adhesive manufacturer's instructions. Holes must be dry when you place chemical adhesive.

Immediately after inserting dowel bars into the chemical adhesive-filled holes, support the dowel bars and leave them undisturbed for the minimum cure time recommended by the chemical adhesive manufacturer.

Clean the faces of joints and underlying base from loose material and contaminants. Coat the faces with a double application of pigmented curing compound under section 28-2.03F. For partial slab replacements, place preformed sponge rubber expansion joint filler at new transverse joints under ASTM D 1752.

**40-2.04 PAYMENT**

Not Used."

Replace "Reserved" in the RSS for section 84-6 with:

#### **84-6.01 GENERAL**

##### **84-6.01A Summary**

Section 84-6 includes specifications for applying thermoplastic traffic stripes and pavement markings with enhanced wet-night visibility.

Thermoplastic must comply with section 84-2.

##### **84-6.01B Submittals**

Submit a certificate of compliance for the glass beads.

##### **84-6.01C Quality Control and Assurance**

Within 14 days of applying a thermoplastic traffic stripe or pavement marking with enhanced wet-night visibility, the retroreflectivity must be a minimum of 700 mcd/sq m/lx for white stripes and markings and 500 mcd/sq m/lx for yellow stripes and markings. Test the retroreflectivity using a reflectometer under ASTM E 1710.

#### **84-6.02 MATERIALS**

Thermoplastic traffic stripes and pavement markings with enhanced wet-night visibility must consist of a single uniform layer of thermoplastic and 2 layers of glass beads as follows:

1. The 1st layer of glass beads must be on the Authorized Material List under high-performance retroreflective glass beads for use in thermoplastic traffic stripes and pavement markings. The color of the glass beads must match the color of the stripe or marking to which they are being applied.
2. The 2nd layer of glass beads must comply with AASHTO M 247, Type 2.

Both types of glass beads must be surface treated for use with thermoplastic under the bead manufacturer's instructions.

#### **84-6.03 CONSTRUCTION**

Use a ribbon-extrusion or screed-type applicator to apply thermoplastic traffic stripe.

Operate the striping machine at a speed of 8 mph or slower during the application of thermoplastic traffic stripe and glass beads.

Apply thermoplastic traffic stripe at a rate of at least 0.38 lb/ft of 4-inch-wide solid stripe. The applied thermoplastic traffic stripe must be at least 0.090 inch thick.

Apply thermoplastic pavement marking at a rate of at least 1.06 lb/sq ft. The applied thermoplastic pavement marking must be at least 0.100 inch thick.

Apply thermoplastic traffic stripe and both types of glass beads in a single pass. First apply the thermoplastic, followed immediately by consecutive applications of high-performance glass beads and then AASHTO M 247, Type 2, glass beads. Use a separate applicator gun for each type of glass bead.

You may apply glass beads by hand on pavement markings.

Distribute glass beads uniformly on traffic stripes and pavement markings. Apply high-performance glass beads at a rate of at least 6 lb/100 sq ft of stripe or marking. Apply AASHTO M 247, Type 2, glass beads at a rate of at least 8 lb/100 sq ft of stripe or marking. The combined weight of the 2 types of glass beads must be greater than 14 lb/100 sq ft of stripe or marking.

#### **84-6.04 PAYMENT**

Not Used."

## 86 ELECTRICAL SYSTEMS

### **Add to the end of the 1st paragraph of section 86-1.01:**

This work is shown on sheets labeled *E*. The work involved in each section 86 bid item is shown on a sheet with a sheet title matching the bid item description.

### **Add to section 86-1.01:**

Sprinkler control conduit is included in the following structures:

1. Laguna De Santa Rosa Bridge No. 20-0296.

### **Add to section 86-1.03:**

Submit a schedule of values within 15 days after Contract approval.

### **Add to section 86-2.05A:**

Conduit installed underground must be Type 1 or Type 3.

### **Add to section 86-2.05B:**

The conduit in a foundation and between a foundation and the nearest pull box must be Type 1.

### **Add to section 86-2.05C:**

If Type 3 conduit is placed in a trench, not in the pavement or under concrete sidewalk, after the bedding material is placed and the conduit is installed, backfill the trench to not less than 4 inches above the conduit with minor concrete under section 90-2, except the concrete must contain not less than 421 pounds of cementitious material per cubic yard. Backfill the remaining trench to finished grade with backfill material.

After conductors have been installed, the ends of the conduits terminating in pull boxes must be sealed with an authorized type of sealing compound.

### **Replace the 3rd paragraph in section 86-2.06A(2) of the RSS for section 86-2.06 with:**

In a ground or sidewalk area, embed the bottom of a pull box in crushed rock.

### **Replace "Reserved" in section 86-2.06B of the RSS for section 86-2.06 with:**

#### **86-2.06B(1) General**

#### **86-2.06B(1)(a) Summary**

Section 86-2.06B includes specifications for installing non-traffic-rated pull boxes.

#### **86-2.06B(1)(b) Submittals**

Before shipping pull boxes to the jobsite, submit a list of materials, Contract number, pull box manufacturer, manufacturer's instructions for pull box installation, and your contact information to METS.

Submit reports for pull box from an NRTL-accredited lab.

#### **86-2.06B(1)(c) Quality Control and Assurance**

#### **86-2.06B(1)(c)(i) General**

Pull boxes may be tested by the Department. Deliver pull boxes and covers to METS and allow 30 days for testing. When testing is complete, you will be notified. You must pick up the boxes and covers from the test site and deliver it to the job site.

Any failure of the pull box or the cover that renders the unit noncompliant with these specifications will be a cause for rejection. If the unit is rejected, you must allow 30 days for retesting. Retesting period starts when the replacement pull box is delivered to the test site. You must pay for all retesting costs. Delays resulting from the submittal of noncompliant materials does not relieve you from executing the Contract within the allotted time.

If the pull box submitted for testing does not comply with the specifications, remove the unit from the test site within 5 business days after notification that it is rejected. If the unit is not removed within that period, it may be shipped to you at your expense.

You must pay for all shipping, handling, and transportation costs related to the testing and retesting.

#### **86-2.06B(1)(c)(ii) Functional Testing**

The pull box and cover must be tested under ANSI/SCTE 77, "Specification for Underground Enclosure Integrity."

#### **86-2.06B(1)(c)(iii) Warranty**

Provide a 2-year manufacturer replacement warranty for pull box and cover from the date of installation of the pull box and cover. All warranty documentation must be submitted before installation.

Replacement parts must be provided within 5 business days after receipt of failed pull box, cover, or both at no cost to the Department and must be delivered to the Department's Maintenance Electrical Shop at 30 Rickard Street, San Francisco, CA 94134, (415) 330-6500.

#### **86-2.06B(2) Materials**

The pull box and cover must comply with ANSI/SCTE 77, "Specification for Underground Enclosure Integrity," for tier 22 load rating and must be gray or brown.

Each pull box cover must have an electronic marker cast inside.

Extension for the pull box must be of the same material as the pull box and attached to the pull box to maintain the minimum combined depths as shown.

Include recesses for a hanger if a transformer or other device must be placed in a pull box.

The bolts, nuts, and washers must be a captive bolt design.

The captive bolt design must be capable of withstanding a torque range of 55 to 60 ft-lb and a minimum pull out strength of 750 lb. Perform the test with the cover in place and the bolts torqued. The pull box and cover must not be damaged while performing the test to the minimum pull out strength.

Stainless steel hardware must have an 18 percent chromium content and an 8 percent nickel content.

Galvanize ferrous metal parts under section 75-1-.05.

Manufacturer's instructions must provide guidance on:

1. Quantity and size of entries that can be made without degrading the strength of the pull box below tier 22 load rating
2. Where side entries cannot be made
3. Acceptable method to be used to create the entry

Tier 22 load rating must be labeled or stenciled by the manufacturer on the inside and outside of the pull box and on the underside of the cover.

#### **86-2.06B(3) Construction**

Do not install pull box in curb ramps or driveways.

A pull box for a post or a pole standard must be located within 5 feet of the standard. Place a pull box adjacent to the back of the curb or edge of the shoulder. If this is impractical, place the pull box in a suitable, protected, and accessible location.

#### **Add to section 86-2.08A:**

Wrap conductors around the projecting end of conduit in pull boxes as shown. Secure conductors and cables to the projecting end of the conduit in pull boxes.

**Add to section 86-5.01A(1):**

Loop wire must be Type 2.

Loop detector lead-in cable must be Type B.

Slots must be filled with elastomeric sealant or hot-melt rubberized asphalt sealant.

**Add to section 86-6.01:**

Ballasts must be the lag or lead regulator type.

**BID ITEM LIST**  
**04-1A2904**

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	BLANK					
4	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
5	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
6	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	87		
7	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	11,400		
8	120165	CHANNELIZER (SURFACE MOUNTED)	EA	120		
9	120300	TEMPORARY PAVEMENT MARKER	EA	250		
10	128651	PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	2		
11	129000	TEMPORARY RAILING (TYPE K)	LF	4,420		
12	129110	TEMPORARY CRASH CUSHION	EA	8		
13	129150	TEMPORARY TRAFFIC SCREEN	LF	600		
14	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
15	130300	PREPARE STORM WATER POLLUTION PREVENTIONPLAN	LS	LUMP SUM	LUMP SUM	
16	130310	RAIN EVENT ACTION PLAN	EA	65	500.00	32,500.00
17	130320	STORM WATER SAMPLING AND ANALYSIS DAY	EA	32		
18	025603	WATER QUALITY SAMPLING AND ANALYSIS DAY	EA	170		
19	025604	WATER QUALITY MONITORING REPORT	EA	10		
20	130330	STORM WATER ANNUAL REPORT	EA	3	2,000.00	6,000.00

**BID ITEM LIST**

04-1A2904

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	8,200		
42	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	SQFT	29		
43	150722	REMOVE PAVEMENT MARKER	EA	290		
44	150772	REMOVE CURB	LF	480		
45	150809	REMOVE CULVERT (LF)	LF	440		
46	150820	REMOVE INLET	EA	4		
47	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	1,970		
48	155003	CAP INLET	EA	1		
49	157550	BRIDGE REMOVAL	LS	LUMP SUM	LUMP SUM	
50	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
51	190101	ROADWAY EXCAVATION	CY	1,340		
52	190105	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	CY	140		
53	BLANK					
54 (F)	192008	STRUCTURE EXCAVATION (TYPE A)	CY	650		
55 (F)	192020	STRUCTURE EXCAVATION (TYPE D)	CY	25		
56 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	784		
57 (F)	044278	STRUCTURE EXCAVATION (RETAINING WALL TYPE A)	CY	883		
58 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	130		
59 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	1,829		
60	198010	IMPORTED BORROW (CY)	CY	600		

**BID ITEM LIST  
04-1A2904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	202006	SOIL AMENDMENT	CY	12		
62	202011	MULCH	CY	31		
63	202035	FERTILIZER (PACKET)	EA	570		
64	204009	PLANT (GROUP I)	EA	400		
65	204017	PLANT (GROUP W)	EA	56		
66	204035	PLANT (GROUP A)	EA	130		
67	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
68	205051	FOLIAGE PROTECTOR	EA	520		
69	206560	CONTROL AND NEUTRAL CONDUCTORS	LS	LUMP SUM	LUMP SUM	
70	206602	1" ELECTRIC REMOTE CONTROL VALVE	EA	1		
71	206621	1" VALVE ASSEMBLY UNIT	EA	4		
72	206929	IRRIGATION CONTROLLER (BATTERY)	EA	3		
73	BLANK					
74 (F)	208028	3" SUPPLY LINE (BRIDGE)	LF	306		
75	208304	WATER METER	EA	1		
76	208421	BACKFLOW PREVENTER ASSEMBLY ENCLOSURE	EA	1		
77	208423	1" BACKFLOW PREVENTER ASSEMBLY	EA	1		
78	208526	SPRINKLER (TYPE D-1)	EA	800		
79	208572	1" GATE VALVE	EA	3		
80	208575	2" GATE VALVE	EA	3		

**BID ITEM LIST**  
**04-1A2904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81 (F)	208594	3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	5,150		
82 (F)	208595	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	2,340		
83 (F)	208598	2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	300		
84	025608	3/4" COMBINATION AIR RELEASE VALVE	EA	13		
85	025609	1" COMBINATION AIR RELEASE VALVE	EA	6		
86	208645	3/4" QUICK COUPLING VALVE	EA	4		
87 (F)	208738	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	130		
88 (F)	208801	4" WELDED STEEL PIPE CONDUIT (.237" THICK)	LF	50		
89	210010	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	8		
90	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	26,600		
91	210300	HYDROMULCH	SQFT	145,000		
92	210350	FIBER ROLLS	LF	6,440		
93	210420	STRAW	SQFT	103,000		
94	210430	HYDROSEED	SQFT	145,000		
95	210600	COMPOST	SQFT	138,000		
96	210630	INCORPORATE MATERIALS	SQFT	61,700		
97	260203	CLASS 2 AGGREGATE BASE (CY)	CY	1,590		
98	390132	HOT MIX ASPHALT (TYPE A)	TON	3,740		
99	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	50		
100	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	225		

**BID ITEM LIST**  
**04-1A2904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	29		
102	395000	LIQUID ASPHALT (PRIME COAT)	TON	7		
103	397005	TACK COAT	TON	5		
104	401050	JOINTED PLAIN CONCRETE PAVEMENT	CY	25		
105	490740	FURNISH PILING (CLASS 90) (ALTERNATIVE V)	LF	3,729		
106	490741	DRIVE PILE (CLASS 90) (ALTERNATIVE V)	EA	94		
107	495149	FURNISH 48" CAST-IN-STEEL SHELL CONCRETE PILING	LF	872		
108	495150	DRIVE 48" CAST-IN-STEEL SHELL CONCRETE PILE	EA	18		
109	510000	SEAL COURSE CONCRETE	CY	428		
110 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	1,021		
111 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	733		
112 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	129		
113	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	12		
114	510526	MINOR CONCRETE (BACKFILL)	CY	59		
115 (F)	044279	RANDOM ROCK TEXTURE	SQFT	4,854		
116	511106	DRILL AND BOND DOWEL	LF	77		
117	512206	FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (70'-80')	EA	24		
118 (F)	512500	ERECT PRECAST PRESTRESSED CONCRETE GIRDER	EA	24		
119	519091	JOINT SEAL (MR 1 1/2")	LF	113		
120 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	469,429		

**BID ITEM LIST**

**04-1A2904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	103,033		
122 (F)	520106	BAR REINFORCING STEEL (EPOXY COATED)	LB	277		
123	597601	PREPARE AND STAIN CONCRETE	SQFT	9,850		
124	620101	18" ALTERNATIVE PIPE CULVERT (TYPE A)	LF	510		
125	682049	CLASS 3 PERMEABLE MATERIAL (BLANKET)	CY	12		
126	025610	TEMPORARY ACCESS PAD	LS	LUMP SUM	LUMP SUM	
127 (F)	730040	MINOR CONCRETE (GUTTER) (LF)	LF	16		
128	731504	MINOR CONCRETE (CURB AND GUTTER)	CY	57		
129	731521	MINOR CONCRETE (SIDEWALK)	CY	51		
130 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	1,673		
131	BLANK					
132	832001	METAL BEAM GUARD RAILING	LF	150		
133 (F)	044280	TUBULAR BICYCLE RAILING	LF	402		
134	833125	CONCRETE BARRIER (TYPE 25)	LF	5		
135 (F)	839527	CABLE RAILING (MODIFIED)	LF	16		
136	839541	TRANSITION RAILING (TYPE WB)	EA	3		
137	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	1		
138 (F)	044281	CONCRETE BARRIER (TYPE 80SWA MODIFIED)	LF	134		
139 (F)	044282	CONCRETE BARRIER (TYPE 80SW MODIFIED)	LF	621		
140 (F)	044283	CONCRETE BARRIER (TYPE 80A MODIFIED)	LF	402		

**BID ITEM LIST  
04-1A2904**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	840504	4" THERMOPLASTIC TRAFFIC STRIPE	LF	6,210		
142	840506	8" THERMOPLASTIC TRAFFIC STRIPE	LF	330		
143	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	190		
144	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	160		
145	860402	LIGHTING (CITY STREET)	LS	LUMP SUM	LUMP SUM	
146	BLANK					
147	861501	MODIFY SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
148	BLANK					
149	090100	TIME RELATED OVERHEAD (W DAY)	WDAY	350		
150	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
151	208310	IRRIGATION SLEEVE	LF	35		
152	208562	CAM COUPLER ASSEMBLY	EA	2		
153	208640	PRESSURE REGULATING VALVE	EA	4		
154	208683	BALL VALVE	EA	4		
155 (F)	750501	MISCELLANEOUS METAL (BRIDGE)	LB	1,906		
156	860775	SPRINKLER CONTROL CONDUIT (BRIDGE) (LS)	LS	LUMP SUM	LUMP SUM	
157	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID:**

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