

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.  
Help save water!*

January 5, 2015

04-Ala-80, 580-2.8, R41.2/47.0

04-4H2214

Project ID 0414000053

ACNHPI-X001(588)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY IN OAKLAND FROM 0.1 MILE EAST OF BOSTON AVENUE OVERCROSSING TO 0.2 MILE WEST OF THE ROUTE 80/580/880 SEPARATION AND AT 0.2 MILE WEST OF ROUTE 80/580/880 SEPARATION.

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, January 15, 2015.

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 29 dated 12/19/2014.

Project plan sheets 13, 14, 15, 26, 44, 97, 202, 203, 204, 205, 209, 210, 211, 213, 214, 216, and 219 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheets 310 and 311 are deleted.

In the *Notice to Bidders and Special Provisions and the Bid Book* the project plans approval date is replaced as follows:

"Project Plans Approved June 23, 2014"

In the *Notice to Bidders and Special Provisions*, in the Registered Persons signature and seal sheet, the signature and seal sheet is added as attached:

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

"H51, Erosion Control Details Fiber Roll and Compost Sock."

"H52, Rolled Erosion Control Product."

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In the *Notice to Bidders*, the following paragraph is added as follows:

"For the Federal training program, the number of trainees or apprentices is 8."

In the Special Provisions, Section 14-11.07, "Remove Yellow Traffic Stripe and Pavement Marking with Hazardous Waste Residue," is added as attached.

In the Special Provisions, Section 83-1.02C(2), "Alternative In-Line Terminal System," is replaced as attached.

In the *Bid* book, in the "Bid Item List," Item 14 is deleted.

In the *Bid* book, in the "Bid Item List," Items 54, 56, and 57 are replaced.

To *Bid* book holders:

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*.

Submit the *Bid* book as described in the *Electronic Bidding Guide* at the Bidders' Exchange website.

**[http://www.dot.ca.gov/hq/esc/oe/electronic\\_bidding/electronic\\_bidding.html](http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html)**

Inform subcontractors and suppliers as necessary.

This addendum, EBS addendum file, 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/04/04-4H2214](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-4H2214)**

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,



BIJAN SARTIPI  
District Director

Attachments

# CONTRACT NO. 04-4H2214

The special provisions contained herein have been prepared by or under the direction of the following registered persons.

## ENVIRONMENTAL (HAZARDOUS WASTE)

Christopher R. Wilson June 23, 2014  
REGISTERED CIVIL ENGINEER DATE



## ELECTRICAL

M. Noor 6/19/2014  
REGISTERED ELECTRICAL ENGINEER



Replace section 14-11.07 with:

**14-11.07 REMOVE YELLOW TRAFFIC STRIPE AND PAVEMENT MARKING WITH HAZARDOUS WASTE RESIDUE**

**14-11.07A General**

**14-11.07A(1) Summary**

Section 14-11.07 includes specifications for removing existing yellow thermoplastic and yellow painted traffic stripe and pavement marking. The residue from the removal of this material is a Department-generated hazardous waste.

Residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking contains lead chromate. The average lead concentration is at least 1,000 mg/kg total lead or 5 mg/l soluble lead. When applied to the roadway, the yellow thermoplastic and yellow painted traffic stripe and pavement marking contained as much as 2.6 percent lead. Residue produced from the removal of this yellow thermoplastic and yellow painted traffic stripe and pavement marking contains heavy metals in concentrations that exceed thresholds established by the Health & Safety Code and 22 CA Code of Regs. For bidding purposes, assume the residue is not regulated under the Federal Resource Conservation and Recovery Act (RCRA), 42 USC § 6901 et seq.

Yellow thermoplastic and yellow paint may produce toxic fumes when heated.

**14-11.07A(2) Submittals**

**14-11.07A(2)(a) General**

Reserved

**14-11.07A(2)(b) Lead Compliance Plan**

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

**14-11.07A(2)(c) Work Plan**

Submit a work plan for the removal, containment, storage, and disposal of yellow thermoplastic and yellow painted traffic stripe and pavement marking. The work plan must include:

1. Objective of the operation
2. Removal equipment
3. Procedures for removal and collection of yellow thermoplastic and yellow painted traffic stripe and pavement marking residue, including dust
4. Type of hazardous waste storage containers
5. Container storage location and how it will be secured
6. Hazardous waste sampling protocol and QA/QC requirements and procedures
7. Qualifications of sampling personnel
8. Analytical lab that will perform the analyses
9. DTSC registration certificate and CA Highway Patrol (CHP) Biennial Inspection of Terminals (BIT) Program compliance documentation of the hazardous waste hauler that will transport the hazardous waste
10. Disposal site that will accept the hazardous waste residue

The Engineer will review the work plan within 5 business days of receipt.

Do not perform work that generates hazardous waste residue until the work plan has been authorized.

Correct any rejected work plan and resubmit a corrected work plan within 5 business days of notification by the Engineer. A new review period of 5 business days will begin from date of resubmittal.

**14-11.07A(2)(d) Analytical Test Results**

Submit analytical test results of the residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking, including chain of custody documentation, for review and acceptance before:

1. Requesting the Engineer's signature on the waste profile requested by the disposal facility
2. Requesting the Engineer obtain an US EPA Generator Identification Number for disposal
3. Removing the residue from the site

**14-11.07A(2)(e) U.S. Environmental Protection Agency Identification Number Request**

Submit a request for the US EPA Generator Identification Number when the Engineer accepts analytical test results documenting that residue from removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking is a hazardous waste.

**14-11.07A(2)(f) Disposal Documentation**

Submit documentation of proper disposal from the receiving landfill within 5 business days of residue transport from the project.

**14-11.07B Materials**

Not Used

**14-11.07C Construction**

Where grinding or other authorized methods are used to remove yellow thermoplastic and yellow painted traffic stripe and pavement marking that will produce a hazardous waste residue, immediately contain and collect the removed residue, including dust. Use a HEPA filter-equipped vacuum attachment operated concurrently with the removal operations or other equally effective approved methods for collection of the residue.

Make necessary arrangements to test the yellow thermoplastic and yellow paint hazardous waste residue as required by the disposal facility and these special provisions. Testing must include:

1. Total lead by US EPA Method 6010B
2. Total chromium by US EPA Method 6010B
3. Soluble lead by California Waste Extraction Test (CA WET)
4. Soluble chromium by CA WET
5. Soluble lead by Toxicity Characteristic Leaching Procedure (TCLP)
6. Soluble chromium by TCLP

From the first 220 gal of hazardous waste or portion thereof if less than 220 gal of hazardous waste are produced, a minimum of 4 randomly selected samples must be taken and analyzed individually. Samples must not be composited. From each additional 880 gal of hazardous waste or portion thereof if less than 880 gal are produced, a minimum of 1 additional random sample must be taken and analyzed. Use chain of custody procedures consistent with chapter 9 of US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) while transporting samples from the project to the laboratory. Each sample must be homogenized before analysis by the laboratory performing the analyses. A sample aliquot sufficient to cover the amount necessary for the total and the soluble analyses must then be taken. This aliquot must be homogenized a 2nd time and the total and soluble analyses run on this aliquot. The homogenization process must not include grinding of the samples. Submit the name and location of the disposal facility that will be accepting the hazardous waste and the analytical laboratory along with the testing requirements not less than 5 business days before the start of removal of yellow thermoplastic and yellow painted traffic stripe and pavement marking. The analytical laboratory must be certified by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) for all analyses to be performed.

After the Engineer accepts the analytical test results, dispose of yellow thermoplastic and yellow paint hazardous waste residue at a Class 1 disposal facility located in California under the requirements of the disposal facility operator within 60 days after accumulating 220 pounds of residue and dust.

If less than 220 pounds of hazardous waste residue and dust is generated in total, dispose of it within 30 days after the start of accumulation of the residue and dust.

The Engineer will sign all manifests as the generator within 2 business days of receiving and accepting the analytical test results and receiving your request for the US EPA Generator Identification Number. Use a transporter with a current DTSC registration certificate and that is in compliance with the CHP BIT Program when transporting hazardous waste.

**14-11.07D Payment**

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

If analytical test results demonstrate that the residue is a non-hazardous waste and the Engineer agrees, dispose of the residue at an appropriately permitted CA Class II or CA Class III facility. The Department does not adjust payment for this disposal.

Replace section 83-1.02C(2) with:

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

**83-1.02C(2)(a) General**

**83-1.02C(2)(a)(i) Summary**

Section 83-1.02C(2) includes specifications for alternative in-line terminal system.

**83-1.02C(2)(a)(ii) Submittals**

Submit:

1. A certificate of compliance for terminal systems
2. Manufacturer's installation instructions

**83-1.02C(2)(b) Materials**

**83-1.02C(2)(b)(i) General**

The allowable alternatives for an in-line terminal system must be 1 of the following or a Department-authorized equal:

1. Type SKT-SP-MGS (for Steel Posts) or Type SKT-W-MGS (for Wood Posts) Terminal System
2. Type X-LITE Terminal System
3. Type 31" X-Tension Terminal System

**83-1.02C(2)(b)(ii) Type SKT-SP-MGS or Type SKT-W-MGS Terminal System**

Type SKT-SP-MGS or Type SKT-W-MGS Terminal System must:

1. Be a SKT 350 sequential kinking terminal, system length 53'-1-1/2", manufactured by Road Systems, Inc., located in Big Spring, Texas
2. Include items detailed for Type SKT-MGS terminal system shown

You can obtain the SKT 350 sequential kinking terminal from the distributors:

UNIVERSAL INDUSTRIAL SALES  
P.O. BOX 699  
PLEASANT GROVE, UT 84062  
TELEPHONE: (801) 785-0505

GREGORY HIGHWAY PRODUCTS  
4100 13TH STREET SW  
CANTON OH 44708  
TELEPHONE: (330) 477-4800

**83-1.02C(2)(b)(iii) Type X-LITE Terminal System**

Type X-LITE terminal system must

1. Be a 31" X-LITE Guard Rail End Terminal as manufactured by Barrier Systems, Inc., located in Vacaville, CA
2. Include items detailed for Type 31" X-LITE terminal system shown

You can obtain the 31" X-LITE Guard Rail End Terminal from the distributor:

STATEWIDE SAFETY AND SIGNS, INC.  
130 GROBRIC COURT  
FAIRFIELD CA 94533  
TELEPHONE: (800) 770-2644

**83-1.02C(2)(b)(iv) Type 31" X-Tension Terminal System**

Type 31" X-Tension terminal system must:

1. Be a 31" X-Tension Guard Rail End Terminal as manufactured by Barrier Systems, Inc., located in Vacaville, CA
2. Include items detailed for Type 31" X-Tension terminal system shown

You can obtain the 31" X-Tension Guard Rail End Terminal from the distributor:

STATEWIDE SAFETY AND SIGNS, INC.  
130 GROBRIC COURT  
FAIRFIELD CA 94533  
TELEPHONE: (800) 770-2644

**83-1.02C(2)(c) Construction**

**83-1.02C(2)(c)(i) General**

Install terminal systems under the manufacturer's installation instructions. Identify each terminal system 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 post numbers 4 and 5.

Paint must be metallic acrylic resin type spray paint. Before applying terminal system identification, remove all dirt, grease, oil, salt, or other contaminants from the surface to receive terminal system identification by washing the surface with detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

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

**83-1.02C(3)(c)(ii) Type SKT-SP-MGS or Type SKT-W-MGS Terminal System**

For Type SKT-SP-MGS terminal system with steel posts, install the soil tube with soil plate attached at Post 1, hinged breakaway post at Post 2, and 6'-0" W6 x 9 steel posts at Posts 3 through 8. Use a W6 x 15 steel post at Post 1. The soil tube with soil plate must be, at your option, driven with or without pilot holes, or placed in drilled holes. Backfill the space around the steel foundation tubes with selected earth, free of rock, placed in layers approximately 4 inches thick and moisten and thoroughly compact each layer.

For Type SKT-W-MGS terminal system with wood posts, install the soil tubes with soil plate attached at Post 1, breakaway cable terminal post at Post 2, and controlled release terminal posts at Posts 3 through 8. The soil tube must be, at your option, driven with or without pilot holes, or placed in drilled holes. Backfill the space around the steel foundation tubes with selected earth, free of rock, placed in layers approximately 4 inches thick and moisten and thoroughly compact each layer. Insert wood posts into the steel foundation tubes by hand. Before inserting the wood terminal posts, coat the inside surfaces of the steel foundation tubes to receive the wood posts with a grease that will not melt or run at a temperature of 149 degrees F or less. You may slightly round the edges of the wood posts to facilitate insertion of the posts into the steel foundation tubes.

**83-1.02C(2)(c)(iii) Type X-LITE Terminal System**

For Type 31" X-LITE terminal system, all crimped posts and line posts must be W6 x 8.5 or W6 x 9 steel posts. All posts must be, at your option, either driven or placed in drilled holes. Backfill the space around the crimped posts, Post 2 with attached soil plate, and line posts with selected earth, free of rock, placed in layers approximately 4 inches thick and moisten and thoroughly compact each layer. All blocks must be wood or plastic.

**83-1.02C(2)(c)(iv) Type 31" X-Tension Terminal System**

For Type 31" X-Tension terminal system with steel posts, place the steel bottom post and I-beam post in drilled hole. The soil anchor and steel line posts must be, at your option, either driven or placed in drilled holes. Backfill the space around the steel bottom post, steel line posts, and soil anchor with selected earth, free of rock, placed in layers approximately 4 inches thick and moisten and thoroughly compact each layer. All blocks must be plastic.

For Type 31" X-Tension terminal system with wood posts, the steel post and soil anchor must be, at your option, driven with or without pilot holes, or placed in drilled holes. Backfill the space around the steel post and soil anchor with selected earth, free of rock, placed in layers approximately 4 inches thick and moisten and thoroughly compact each layer. Insert the wood terminal posts into the drilled holes by hand and backfill in the same manner as the steel post and soil anchor. Wood terminal posts must not be driven. All blocks must be wood or plastic.

**83-1.02C(2)(d) Payment**

Not Used

**BID ITEM LIST  
04-4H2214**

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	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	3,440		
7	120300	TEMPORARY PAVEMENT MARKER	EA	230		
8	128652	PORTABLE CHANGEABLE MESSAGE SIGN (LS)	LS	LUMP SUM	LUMP SUM	
9	129000	TEMPORARY RAILING (TYPE K)	LF	3,620		
10	129100	TEMPORARY CRASH CUSHION MODULE	EA	550		
11	028206	ALTERNATIVE TEMPORARY CRASH CUSHION	EA	12		
12	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
13	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
14	BLANK					
15	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	120		
16	130640	TEMPORARY FIBER ROLL	LF	8,000		
17	028207	TEMPORARY SILT FENCE (MODIFIED)	LF	280		
18	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
19	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
20	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	11,200		

**BID ITEM LIST**  
**04-4H2214**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	192053	STRUCTURE EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	CY	990		
42	028208	FIBER WEED CONTROL MAT	SQYD	130		
43	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	430		
44	210300	HYDROMULCH	SQFT	1,600		
45	210350	FIBER ROLLS	LF	2,270		
46	210430	HYDROSEED	SQFT	1,600		
47	280010	RAPID STRENGTH CONCRETE BASE	CY	990		
48	280015	LEAN CONCRETE BASE RAPID SETTING	CY	630		
49	360200	BASE BOND BREAKER	SQYD	8,960		
50	028209	HIGH FRICTION SURFACE TREATMENT EPOXY RESIN	SQYD	4,990		
51	390011	PREPAVING INERTIAL PROFILER	LS	LUMP SUM	LUMP SUM	
52	390095	REPLACE ASPHALT CONCRETE SURFACING	CY	320		
53	390132	HOT MIX ASPHALT (TYPE A)	TON	15,000		
54	390401	HOT MIX ASPHALT-OPEN GRADED (OPEN GRADED FRICTION COURSE)	TON	140		
55	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	5,380		
56	390402	RUBBERIZED HOT MIX ASPHALT-OPEN GRADED (OPEN GRADED FRICTION COURSE)	TON	770		
57	391006	ASPHALT BINDER (GEOSYNTHETIC PAVEMENT INTERLAYER)	TON	18		
58	393005	GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING MAT)	SQYD	16,200		
59	394050	RUMBLE STRIP	STA	390		
60	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	