

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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May 11, 2010

04-Ala-680-4.8/5.2
04-253764

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY IN FREMONT FROM 0.5 MILE NORTH OF AUTO MALL PARKWAY OVERCROSSING TO 0.3 MILE SOUTH OF WASHINGTON BOULEVARD OVERCROSSING.

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 Tuesday, May 18, 2010.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 2, 3, 4, 5, 6, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 34, 40, 41, 42, 43, 44, 47 and 48 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, Section 10-1.08, "TEMPORARY SILT FENCE," is deleted.

In the Special Provisions, Section 10-1.28, "ROLLED EROSION CONTROL PRODUCT (NETTING)," subsection "MATERIALS," subsection "Netting," in the first paragraph item 2 is revised as follows:

"2. Netting Type: C."

In the Special Provisions, Section 10-1.30, "EROSION CONTROL (HYDROSEED)," is revised as attached.

In the Special Provisions, Section 10-1.39, "UNDERDRAIN," is deleted.

In the Special Provisions, Section 10-2.04, "HIGHWAY PLANTING," subsection "ROADSIDE CLEARING," the second paragraph is revised as follows:

"The project area shall be cleared as specified herein:

- A. Existing plants, where shown on the plans to be removed, shall be removed.
- B. Weeds shall be killed and removed within an area 6 feet in diameter centered at each plant location."

Addendum No. 2
Page 2
May 11, 2010

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04-253764

In the Amendments to the Standard Specifications Dated May 2006, Section 2-1.12, "BID DOCUMENT COMPLETION," subsection 2-1.12A, "General," is revised as follows:

"2-1.12A General

Complete forms in the Bid book.

On the Subcontractor List you may either submit each subcontracted bid item number and corresponding percentage with your bid or fax this information to (916) 227-6282 within 24 hours after bid opening. If you fail to submit this information within the time specified, your bid is nonresponsive.

Except for the bid item number and the percentage of each item subcontracted, do not fax submittals."

In the Bid book, the "SUBCONTRACTOR LIST" form is revised as attached.

In the Bid book, in the "Bid Item List," Items 2, 6, 16, 19, 24, 26, 28, 29, 31, 32, 33, 34, 35, 36, 37, 40, 41, 44, 45, 47, 48, 50, 52, 53, 54, 55, 56, 57, 59, 64, 65, 67 and 70 are revised, Items 72, 73, 74 and 75 are added and Items 7, 60, 63, 66 and 71 are deleted as attached.

To Bid book holders:

Replace the entire "Bid Item List" in the Bid book with the attached revised Bid Item List. The revised 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 and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-253764

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,

ORIGINAL SIGNED BY

IGNACIO SANCHEZ DEL REAL
Acting Office Chief
Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

10-1.30 EROSION CONTROL (HYDROSEED)

GENERAL

Summary

This work includes removing and disposing of weeds, applying erosion control materials, seed, fiber, organic fertilizer, straw, and tackifier to erosion control (Hydroseed) areas shown on the plans.

Comply with Section 20-3, "Erosion Control," of the Standard Specifications.

Apply erosion control (Hydroseed) when an area is ready to receive erosion control as determined by the Engineer and under "Move-In/Move-Out (Erosion Control)" of these special provisions.

If the slope on which the erosion control to be placed is finished during the rainy season as specified under "Water Pollution Control" of these special provisions, apply erosion control to the slope immediately.

The Engineer will designate the ground location of all erosion control (Hydroseed) areas in increments of one acre or smaller by directing the placing of stakes or other suitable markers. Furnish all tools, labor, materials, and transportation required to adequately indicate the various erosion control (Hydroseed) locations.

MATERIALS

Seed

Seed not required to be labeled under the California Food and Agricultural Code must be tested for purity and germination by a seed laboratory certified by the Association of Official Seed Analysts or by a seed technologist certified by the Society of Commercial Seed Technologists. Measure and mix individual seed species in the presence of the Engineer.

Seed must contain at most 1.0 percent total weed seed by weight.

Deliver seed to the job site in unopened separate containers with the seed tag attached. Containers without a seed tag attached are not accepted. The Engineer takes a sample of approximately one ounce or 0.25 cup of seed for each seed lot greater than 2 pounds.

Seed must comply with the following:

Seed Mix (Type 1)

Botanical Name (Common Name)	Percent Germination (Minimum)	Pounds Pure Live Seed Per Acre (Slope Measurement)
Cistus creticus corsicus (Rock Rose)	48	4
Festuca rubra Molate (Molate Red Fescue)	48	9
Hordeum brachyantherum (Meadow Barley)	48	11
Leymus triticoides Rio (Creeping Wildrye)	48	5
Nassella pulchra (Purple Needlegrass)	48	10
Vulpia microstachys (Three Weeks Fescue)	48	5
	Total	44

Seed Mix (Type 2)

Botanical Name (Common Name)	Percent Germination (Minimum)	Pounds Pure Live Seed Per Acre (Slope Measurement)
Artemisia douglasiana (California mugwort)	30	1
Baccharis salicifolia (Mule's Fat)	12	1
Deschampsia danthonioides (Slender Hairgrass)	48	3
Festuca rubra Molate (Molate Red Fescue)	48	9
Hordeum brachyantherum (Meadow Barley)	48	11
Juncus patens (California Gray Rush)	27	2
Rosa Californica (California Wild Rose)	30	3
Typha latifolia (Narrowleaf cattail)	30	2
	Total	32

Seed Mix (Type 3)

Botanical Name (Common Name)	Percent Germination (Minimum)	Pounds Pure Live Seed Per Acre (Slope Measurement)
Artemisia californica (Yellow Coastal Sagebrush)	36	1
Baccharis pilularis consanguinea (Dwarf coyote brush)	24	1
Ceanothus cordulatus (Snowbush)	42	3
Cistus creticus corsicus (Rock rose)	48	4
Heteromeles arbutifolia (Toyon)	30	4
Lupinus nanus (Sky Lupine)	48	5
Mimulus aurantiacus (Sticky Monkey Flower)	36	1
Muhlenbergia rigens (Deergrass)	42	3
Nassella pulchra (Purple Needlegrass)	48	10
Rhamnus californica (Coffeeberry)	42	2
Salvia mellifera (Black Sage)	30	3
Vulpia microstachys (Three Weeks Fescue)	48	5
	Total	42

Seed Sampling Supplies

At the time of seed sampling, provide the Engineer a glassine lined bag and custody seal tag for each seed lot sample.

Organic Fertilizer

Must be a pelleted or granular form and must be one of the following:

Organic Fertilizer

Products	Guaranteed Chemical Analysis (N-P-K) (%)	Company
Biosol Mix® - Granular	7-2-3	Rocky Mountains Bioproducts Edwards, CO
Fertil-Fibers™	6-4-1	Quattro Environmental Coronado, CA
Sustane®	5-2-4	Natural Fertilizer of America Cannon Falls, MN
Approved Equal ¹	(N) 5 to 7 (P) 1 to 5 (K) 2 to 10	

¹Approved equal must be within the ranges shown for N-P-K. The cumulative (N) release rate must be no more than 70 percent the first 70 days after incubation (86 °F) with 100 percent at 350 days or more.

Straw

Straw must be:

1. Wheat or Barley

Wheat and barley straw must be derived from irrigated crops.

Straw must be free of plastic, glass, metal, rocks, and refuse or other deleterious material.

Tackifier

Tackifier must be:

1. Guar (Plant Based)
2. Psyllium (Plant Based)
3. Starch (Plant Based)

Tackifier must comply with the following:

1. Nonflammable
2. Nontoxic to aquatic organisms
3. Free from growth or germination inhibiting factors
4. Either a plant-based product or a polymeric-emulsion blend

Tackifier classified as a plant based product must comply with the following:

1. A natural high molecular weight polysaccharide
2. A high viscosity hydrocolloid that is miscible in water
3. Functional for at least 180 days
4. Labeled as either guar, psyllium, or starch

Guar:

1. A guar gum based product derived from the ground endosperm of the guar plant, cyanmopsis tetragonolobus
2. Treated with dispersant agents for easy mixing
3. Able to be diluted at the rate of 1 to 5 pounds per 100 gallons of water

Psyllium:

1. Made of the finely ground muciloid coating of plantago ovata or plantago ispaghula seeds
2. Able to dry and form a firm but rewettable membrane

Starch:

1. A non-ionic, water-soluble granular material derived from corn, potato, or other plant-based source.

Fiber

Fiber must be:

1. Wood
2. Cellulose
3. Alternate
4. A combination of Wood, Cellulose, or Alternate

Fiber must comply with the following:

1. Free from lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, or chlorine bleach
2. Free from synthetic or plastic materials
3. At most 7 percent ash

Wood Fiber must comply with the following:

1. Long strand, whole wood fibers, thermo-mechanically processed from clean, whole wood chips
2. Not made from sawdust, cardboard, paper, or paper byproducts
3. At least 25 percent of fibers 3/8 inch long
4. At least 40 percent held on a No. 25 sieve

Cellulose Fiber must comply with the following:

1. Made from natural or recycled pulp fiber, such as wood chips, sawdust, newsprint, chipboard, corrugated cardboard, or a combination of these materials

Alternate Fiber must comply with the following:

1. Long strand, whole natural fibers made from clean straw, cotton, corn, or other natural feed stock
2. At least 25 percent of fibers 3/8 inch long
3. At least 40 percent held on a No. 25 sieve

Coloring Agent

Use a biodegradable, nontoxic coloring agent free from copper, mercury, and arsenic.

CONSTRUCTION

Site Preparation

Immediately prior to applying seed to erosion control (Hydroseed) areas, trash and debris and weeds must be removed, and undisturbed slope areas shall be scarified to a minimum depth of two inches.

Removed weeds must be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Application

Apply erosion control (Hydroseed) materials in separate applications in the following sequence:

1. Apply one of the following mixture with hydroseeding equipment at the rates indicated within 60 minutes after the seed has been added to the mixture:

Erosion Control (Seed Mix Type 1)	
Material	Pounds Per Acre (Slope Measurement)
Seed	44
Fiber	285
Organic Fertilizer	1000

Erosion Control (Seed Mix Type 2)	
Material	Pounds Per Acre (Slope Measurement)
Seed	32
Fiber	285
Organic Fertilizer	1000

Erosion Control (Seed Mix Type 3)	
Material	Pounds Per Acre (Slope Measurement)
Seed	42
Fiber	285
Organic Fertilizer	1000

2. Apply straw at the rate of 2 tons per acre based on slope measurements. Incorporation of straw will not be required. Distribute straw evenly without clumping or piling. Straw will not be required in Seed Mix (Type 2) areas.
3. Apply the following mixture with hydro-seeding equipment at the corresponding rates:

Material	Pounds Per Acre (Slope Measurement)
Fiber	285
Tackifier	125

The ratio of total water to total tackifier in the mixture must be as recommended by the manufacturer.

Seed may be dry applied at the total rate specified in the preceding table for small areas not accessible by the hydro-seeding equipment, when approved in writing by the Engineer. Dry applied seed must be incorporated into the soil a maximum depth of 1/4 inch by raking or dragging.

Hydraulic application of erosion control (Hydroseed) materials for rolled erosion control product (Netting) areas must be applied by hose, from the ground. Erosion control (Hydroseed) materials must be applied onto the slope face such that the materials are well integrated into the rolled erosion control product (Netting) and in contact with ground surface. Application must be perpendicular to the slope face such that rolled erosion control product (Netting) materials are not damaged or displaced. Once straw work is started in an area, complete tackifier applications in that area on the same working day.

The Engineer may change the rates of erosion control (Hydroseed) materials to meet field conditions.

For any area where erosion control (Hydroseed) materials are to be applied, the application of all erosion control (Hydroseed) materials to be applied to that area must be completed within 72 hours from when the first materials were applied.

MEASUREMENT AND PAYMENT

Erosion control (Hydroseed) will be measured by the square foot or by the acre, whichever is designated in the Engineer's Estimate. The area will be calculated on the basis of actual or computed slope measurements.

The contract price paid per square foot or acre for erosion control (Hydroseed) includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in erosion control (Hydroseed) complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Bidder Name: _____

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code § 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6282 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a non-responsive bid.

Column 1: Business Name and Location	Column 2: Bid Item No.(s)	Column 3: Percent of Bid Item Subcontracted	Column 4: Description of Subcontracted Work

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

BID ITEM LIST
04-253764

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070013	SMALL BUSINESS UTILIZATION REPORT	EA	4	250.00	1,000.00
2	071325	TEMPORARY FENCE (TYPE ESA)	LF	4,870		
3	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
4	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
5	018257	TEMPORARY CREEK DIVERSION SYSTEM	EA	2		
6	074028	TEMPORARY FIBER ROLL	LF	1,840		
7	BLANK					
8	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	2		
9	074034	TEMPORARY COVER	SQYD	360		
10	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	5		
11	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
12	074043	TEMPORARY CONCRETE WASHOUT BIN	EA	1		
13	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
14	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
15	128650	PORTABLE CHANGEABLE MESSAGE SIGN	LS	LUMP SUM	LUMP SUM	
16	018258	ABANDON MONITORING WELL	EA	1		
17	018259	ABANDON 12" CORRUGATED STEEL PIPE SANITARY SEWER LINE	LF	36		
18	150608	REMOVE CHAIN LINK FENCE	LF	560		
19	150805	REMOVE CULVERT	LF	120		
20	018260	REMOVE SANITARY SEWER MANHOLE	EA	1		

BID ITEM LIST
04-253764

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	018261	REMOVE WINGWALL	EA	1		
22	018262	REMOVE 12" CORRUGATED STEEL PIPE SANITARY SEWER LINE	LF	330		
23	151540	RECONSTRUCT CHAIN LINK FENCE	LF	130		
24	153210	REMOVE CONCRETE	CY	220		
25	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
26	190101	ROADWAY EXCAVATION	CY	21,300		
27	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
28	198001	IMPORTED BORROW	CY	460		
29	018263	GEOSYNTHETIC CLAY LINER	SQYD	3,130		
30	200002	ROADSIDE CLEARING	LS	LUMP SUM	LUMP SUM	
31	200102	IMPORTED TOPSOIL (CY)	CY	1,370		
32	200110	PREPARE HOLE	EA	600		
33	202006	SOIL AMENDMENT	CY	130		
34	202011	MULCH	CY	40		
35	202033	COMMERCIAL FERTILIZER (PACKET)	EA	640		
36	203021	FIBER ROLLS	LF	7,570		
37	203025	COMPOST, INCORPORATE	SQYD	7,240		
38	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	3		
39	203032	EROSION CONTROL (HYDROSEED) (ACRE)	ACRE	8		
40	203034	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	4,350		

BID ITEM LIST
04-253764

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	204013	PLANT (GROUP M)	EA	600		
42	204017	PLANT (GROUP W)	EA	42		
43	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
44	205051	FOLIAGE PROTECTOR	EA	600		
45 (F)	208262	3/4" PLASTIC PIPE (PR 200) (SUPPLY LINE)	LF	10,630		
46	208310	IRRIGATION SLEEVE	LF	300		
47	208526	SPRINKLER (TYPE D-1)	EA	500		
48	208527	SPRINKLER (TYPE D-2)	EA	100		
49	208562	CAM COUPLER ASSEMBLY	EA	1		
50 (F)	208595	1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	4,850		
51 (F)	208598	2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	100		
52	208618	1" MANUAL CONTROL VALVE	EA	5		
53	208626	1" WYE STRAINER	EA	5		
54	018264	PRESSURE REGULATOR VALVE	EA	11		
55	208670	CHECK VALVE	EA	21		
56	208683	BALL VALVE	EA	11		
57	510138	CLASS 2 CONCRETE (WINGWALLS)	CY	160		
58 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	5		
59 (F)	520101	BAR REINFORCING STEEL	LB	19,200		
60	BLANK					

**BID ITEM LIST
04-253764**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	018265	8" STANDARD DIMENSION RATIO 26 POLYVINYL CHLORIDE SANITARY SEWER LINE	LF	170		
62	018266	SANITARY SEWER MANHOLE	EA	1		
63	BLANK					
64	721007	ROCK SLOPE PROTECTION (1/4 TON, METHOD B)	CY	240		
65	721008	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	CY	120		
66	BLANK					
67	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	1,660		
68	800360	CHAIN LINK FENCE (TYPE CL-6)	LF	450		
69	018267	8' CHAIN LINK GATE (TYPE CL-3)	EA	2		
70	839521	CABLE RAILING	LF	180		
71	BLANK					
72	721006	ROCK SLOPE PROTECTION (1/2 TON, METHOD B)	CY	510		
73	721010	ROCK SLOPE PROTECTION (BACKING NO. 1, METHOD B)	CY	300		
74	721011	ROCK SLOPE PROTECTION (BACKING NO. 2, METHOD B)	CY	150		
75	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID: _____