

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.
Help save water!*

November 2, 2016

04-Mrn,Son-1-50.2/50.5, 0.0/0.2

04-209504

Project ID 0412000116

ACSTP-P001(612)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN MARIN AND SONOMA COUNTIES NEAR VALLEY FORD FROM 0.4 MILE SOUTH OF ESTERO AMERICANO BRIDGE TO 0.2 MILE NORTH OF ESTERO AMERICANO BRIDGE to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid book*, *Information Handout*, and the Federal Minimum Wages with Modification Number 12 dated October 28, 2016.

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, November 15, 2016.

Project plan sheets 1, 2, 9 and 20 are replaced and attached for substitution for the like-numbered sheets.

Project plan sheet 95A is added and attached for addition to the project plans.

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

"T61, T62, T63, T64 and T65 "

In the *Notice to Bidders*, the following paragraph is added after the ninth paragraph:

"For the Federal Training Program, the number of trainees or apprentices is 12."

In the *Notice to Bidders*, the seventh paragraph is revised as follows:

"The Contractor must have either a Class A license or any combination of the following Class C licenses which constitutes a majority of the work: C-8, C-12, C-32."

In the Special Provisions, Section 1-1.01 is replaced as attached.

In the Special Provisions, Section 2-1.06B is replaced as attached.

In the Special Provisions, Section 5-1.36D is deleted.

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In the Special Provisions, Section 8-1.04C is replaced as attached.

In the Special Provisions, Section 20 is replaced as attached.

In the Special Provisions, Section 21 is replaced as attached.

In the Special Provisions, Section 83-1.02C(2) is added as attached.

The *Information Handout* is replaced as attached.

In the *Bid* book, in the "Bid Item List," Items 94 and 99 are replaced.

In the *Bid* book, in the "Bid Item List," Items 36 and 98 are deleted.

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

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/04/04-209504

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

DIVISION I GENERAL PROVISIONS
1 GENERAL

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
032196	TEMPORARY TIMBER CONSTRUCTION MAT	10
032197	TEMPORARY ALTERNATIVE CRASH CUSHION	12
032198	TEMPORARY CREEK DIVERSION SYSTEMS	13
045545	STRUCTURE EXCAVATION (BRIDGE) (TYPE D)	19
045546	STRUCTURE EXCAVATION (RETAINING WALL) (TYPE D)	19
032199	IMPORTED BIOFILTRATION SOIL	21
032200	TEMPORARY SHORING (EMBANKMENT)	19
045547	36" PERMANENT STEEL CASING	49
045548	TRANSVERSE TIE ROD	50
045549	FURNISH PRECAST CONCRETE PIER CAP	51
045550	ERECT PRECAST PRESTRESSED CONCRETE SLAB	51
045551	ERECT PRECAST CONCRETE PIER CAP	51
045552	STRUCTURAL STEEL (PIPE PIN)	55
045553	BUILDING INFORMATION MODEL	78
032201	TEMPORARY FENCE (TYPE FROG)	80
045554	CALIFORNIA ST-70 BRIDGE RAIL (MODIFIED)	83

2 BIDDING

Add between the 1st and 2nd paragraphs of section 2-1.06B:

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the <i>Information Handout</i>	NEPA/CEQA Re-validation Water Quality Information Handout Pavement Recommendations Updated for PS&E Final Foundation Recommendations for Estero Americano Bridge (Replace), dated 9/25/15 Final Hydraulic Report, dated 5/12/15 Coastal Development US army corps of engineers Dept of Fish and wildlife X LITE Flared End Terminal X LITE Tangent End terminal
Available as specified in the <i>Standard Specifications</i>	Bridge as-built drawings Cross Sections
Included with the project plans	Logs of test borings

Replace "Reserved" in section 8-1.04C with:

Section 8-1.04B does not apply.

Start job site activities within 55 days after receiving notice that the Contract has been approved by the Attorney General or the attorney appointed and authorized to represent the Department.

Do not start job site activities until the Department authorizes or accepts your submittal for:

1. WPCP or SWPPP, whichever applies

You may enter the job site only to measure controlling field dimensions and locate utilities.

You may start job site activities before the 55th day after Contract approval if you:

1. Obtain specified authorization or acceptance for each submittal before the 55th day
2. Receive authorization to start

Submit a notice 72 hours before starting job site activities. If the project has more than 1 location of work, submit a separate notice for each location.

20 LANDSCAPE

Replace "Reserved" in section 20-1.01B of the RSS for section 20 with:

Eradicate: To remove or destroy utterly; to pull up by roots

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 the California Department of Food and Agriculture (CDFA), under 3 CA Code of Regs § 4500 et seq.

Noxious weeds of concern that is prevalent within the right of way include:

Botanical Name	Common Name
<i>Acaena novae-zelandiae</i>	Bidly-bidly
<i>Acaena pallida</i>	Pale bidly-bidly
<i>Achnatherum brachychaetum</i>	Punagrass
<i>Alhagi maurorum</i>	Camelthorn
<i>Alternanthera philoxeroides</i>	Alligatorweed
<i>Arctotheca calendula</i>	Capeweed
<i>Arundo donax</i>	Giant reed
<i>Carduus acanthoides</i>	Plumeless thistle
<i>Carduus nutans</i>	Musk thistle
<i>Carthamus leucocaulos</i>	Whitestem distaff thistle
<i>Centaurea diffusa</i>	Diffuse knapweed
<i>Centaurea iberica</i>	Iberian starthistle
<i>Centaurea maculosa</i>	Spotted knapweed
<i>Centaurea jacea</i>	Meadow knapweed
<i>Centaurea solstitialis</i>	Yellow star thistle
<i>Centaurea squarrosa</i>	Squarrose knapweed
<i>Chondrilla juncea</i>	Rush skeletonweed
<i>Cirsium ochrocentrum</i>	Yellowspine thistle
<i>Cirsium undulatum</i>	Wavyleaf thistle
<i>Crupina vulgaris</i>	Common crupina
<i>Cucumis melo</i>	Dudaim melon
<i>Cuscuta spp.</i>	Dodder

<i>Cynara cardunculus</i>	Artichoke thistle
<i>Cytisus scoparius</i>	Scotch broom
<i>Dittrichia graveolens</i>	Stinkweed
<i>Euphorbia esula</i>	Leafy spurge
<i>Euphorbia serrata</i>	Serrate spurge
<i>Genista monspessulana</i>	French broom
<i>Halimodendron halodendron</i>	Russian salttree
<i>Halogeton glomeratus</i>	Halogeton
<i>Helianthus ciliaris</i>	Blueweed
<i>Heteropogon contortus</i>	Tanglehead
<i>Hydrilla verticillata</i>	Hydrilla
<i>Hydrocharis morsus-ranae</i>	Frogbit
<i>Linaria genistifolia</i> spp. <i>Dalmatica</i>	Dalmatian toadflax
<i>Onopordum acanthium</i>	Scotch thistle
<i>Onopordium illyricum</i>	Illyrian thistle
<i>Onopordum tauricum</i>	Taurian thistle
<i>Orobanche ramosa</i>	Branched broomrape
<i>Peganum harmala</i>	Harmel
<i>Physalis longifolia</i>	Long-leaf groundcheery
<i>Salsola vermiculata</i>	Wormleaf saltwort
<i>Salvia virgata</i>	Southern meadow sage
<i>Scolymus hispanicus</i>	Golden thistle
<i>Solanum caridopyllum</i>	Heartleaf nightshade
<i>Solanum dimidiatum</i>	Torrey's nightshade
<i>Sonchus arvensis</i>	Perennial sowthistle
<i>Spartium junceum</i>	Spanish broom
<i>Sphaerophysa salsula</i>	Austrian peaweed
<i>Striga asiatica</i>	Witchweed
<i>Tagetes minuta</i>	Wild marigold
<i>Zygopyllum fabago</i>	Syrian beancaper

Invasive non-native plants: Plants that threaten wildlands and are not native to, yet can spread into wildland ecosystems and that also displace native species, hybridize with native species, alter biological communities, or alter ecosystem processes, as designated by the California Invasive Plant Council (Cal-IPC) "California Invasive Plant Inventory, February 2006."

Non-native plants: Plant species introduced to California after European contact and as a direct or indirect result of human activity

Invasive non-native plants with high to moderate level of negative impact that is prevalent within the right of way include:

Botanical Name	Common Name
<i>Cortaderia selloana</i>	Pampasgrass

Supporting information for field identification purposes including photographic gallery of noxious weeds and invasive non-native plant inventory can be found at the following:

1. California Department of Food and Agriculture - "Encycloweediea" web site:
http://www.cdfa.ca.gov/plant/ipc/encycloweediea/encycloweediea_hp.htm
2. California Invasive Plant Council - "California Invasive Plant Inventory":
<http://www.cal-ipc.org/ip/inventory/index.php>

Add to section 20-1.02C of the RSS for section 20:

Select herbicides from the following table:

Herbicide name	Herbicide type					
	Preemergent (granular)	Preemergent (non-granular)	Post-emergent	Selective	Non-selective	Systemic
Glyphosate			X			X
Imazapyr					X	

Replace section 20-1.03C(1) of the RSS for section 20 with:

Perform roadside clearing by:

1. Removing and disposing of trash and debris
2. Controlling the following pests:
 - 2.1. Insects
 - 2.2. Weeds
3. Removing existing plants as described

Add to section 20-1.03C(3) of the RSS for section 20:

Control weeds within the highway. In the median and surfaced areas such as new and existing pavement, curbs, and sidewalks, weeds do not need to be controlled.

If seeds are present or develop on noxious weed species before they are hand pulled, cover and tightly secure seed pods or seed heads with plastic bags to prevent dispersal.

Replace the 2nd paragraph in section 20-1.03C(4) of the RSS for section 20 with:

Dispose of mowed material from initial and subsequent mowing during roadside clearing.

Replace the 2nd sentence in the 1st paragraph of section 20-3.01B(3) of the RSS for section 20 with:

Soil amendment must be fine compost.

Replace the 2nd paragraph of section 20-4.01A of the RSS for section 20 with:

Plant establishment consists of caring for the plants and erosion control Type 1, 2 and 4 areas, including watering, fertilizing, pruning, replacing damaged plants, pest control, and operating and repairing of all existing irrigation facilities used and irrigation facilities installed as part of the new irrigation system.

Add to the end of section 20-4.01A of the RSS for section 20:

This project has a Type 2 plant establishment period.

Add to section 20-4.03A of the RSS for section 20:

Mow erosion control Type 1, 2 and 4 areas after the seeds have set and have started to die back or when they exceed 12 inches in length, whichever occurs first. Mow to a height of 4 inches. Remove trash and debris before mowing.

Add to section 20-4.03F of the RSS for section 20:

After the 125th plant establishment working day, reapply hydroseed and hydromulch to bare areas as ordered. Erosion control materials reapplication is change order work.

21 EROSION CONTROL

Add to section 21:

21-2 IMPORTED BIOFILTRATION SOIL

21-2.01 GENERAL

21-2.01A Summary

Section 21-2 includes specifications for furnishing and applying biofiltration soil mix.

21-2.01B Submittals

Submit a certificate of compliance from the soil supplier.

Submit the compost producer's *Compost Technical Data Sheet* including test results and *Seal of Testing Assurance* certificate before mixing compost with sand and soil.

21-2.01C Quality Control and Assurance

Saturated hydraulic conductivity for imported biofiltration soil must be at least 5 inches per hour.

21-2.02 MATERIALS

21-2.02A General

Imported biofiltration soil consists of a uniform mixture of sand, compost, and topsoil. The ratio of the components of imported biofiltration soil by volume must consist of two-parts sand; one-part compost; 0.5-part topsoil.

21-2.02B Sand

Sand must be free of wood, waste, coating such as clay, stone dust, carbonate, or any other deleterious material. All aggregate passing No. 200 sieve size must be non-plastic. Sand must be graded within the following limits:

Sieve Sizes	Percentage Passing
3/8"	100
No. 4	90 - 100
No. 8	70 - 100
No. 16	40 - 95
No. 30	15 - 70
No. 40	5-55
No. 100	0 - 15
No. 200	0 - 5

Grain size analysis results of the sand component must be performed in accordance with ASTM D 422, Standard Test Method for Particle Size Analysis of Soils.

21-2.02C Compost

Compost must comply with section 21-1.02M.

21-2.02D Topsoil

Soil must be free of wood, waste or other deleterious material. The soil texture must be loamy. Overall dry weight percentages must be 60 to 90 percent sand, with less than 20 percent passing the No.200 sieve, less than 5 percent clay, and no gravel.

21-2.03 CONSTRUCTION

Site preparation must comply with section 21-1.03B.

Place imported biofiltration soil after all other earthwork in an area is complete.

Place imported biofiltration soil in lifts of 8 to 12 inches and spread to a uniform thickness. Lifts are not to be compacted.

21-2.04 PAYMENT

Not Used

Replace section 83-1.02C(2) with:

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

Alternative in-line terminal system must be furnished and installed as shown on the plans and under these special provisions.

Obtain the Department-authorized manufacturer's drawing and the manufacturer's check list for the assembly and installation of the alternative in-line terminal system from the manufacturer's representative or distributor. Notify the Engineer of the type of alternative in-line terminal system to be installed at each location before starting installation activities. Complete, sign, and date the check list for each installed terminal system and submit a copy of the completed and signed check list for each installed location. The Engineer signs and dates the completed check lists, verifying the terminal system at each location was assembled and installed under the manufacturer's instructions and as described.

The allowable alternatives for an in-line terminal system must consist of one 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 - Type SKT-MGS terminal system must be a SKT 350 sequential kinking terminal, system length 53'-1-1/2", manufactured by Road Systems, Inc., located in Big Spring, Texas, and must include items detailed for Type SKT-MGS terminal system shown on the plans. The SKT 350 sequential kinking terminal can be obtained from the distributor, Universal Industrial Sales, P.O. Box 699, Pleasant Grove, UT 84062, telephone (801) 785-0505 or from the distributor, Gregory Highway Products, 4100 13th Street, S.W., Canton, OH 44708, telephone (330) 477-4800.
2. TYPE X-LITE - Type X-Lite terminal system must be a 31" X-Lite Guard Rail End Terminal as manufactured by Barrier Systems, Inc., located in Vacaville, CA, and must include items detailed for Type 31" X-Lite terminal system shown on the plans. The 31" X-Lite Guard Rail End Terminal can be obtained from the distributor, Statewide Safety and Signs, Inc., 130 Grobric Court, Fairfield, CA 94533, telephone (800) 770-2644.
3. TYPE 31" X-TENSION - Type 31" X-Tension terminal system must be a 31" X-Tension Guard Rail End Terminal as manufactured by Barrier Systems, Inc., located in Vacaville, CA, and must include items detailed for Type 31" X-Tension terminal system shown on the plans. The 31" X-Tension Guard Rail End Terminal can be obtained from the distributor, Statewide Safety and Signs, Inc., 130 Grobric Court, Fairfield, CA 94533, telephone (800) 770-2644.
4. TYPE SOFT-STOP - Type Soft-Stop terminal system must be a SOFT-STOP terminal, system length 50'-9 1/2" for test level 3 and system length 38'-3 1/2" for test level 2, as manufactured by Trinity Highway Products, LLC, and must include items detailed for SOFT-STOP terminal system shown on the plans. The SOFT-STOP terminal can be obtained from the manufacturer, Trinity Highway Products, LLC, P.O. Box 99, Centerville, UT 84012, telephone (800) 772-7976.

Submit a certificate of compliance for terminal systems.

Terminal systems must be installed under the manufacturer's installation instructions and these specifications. Each terminal system installed must be identified by painting the type of terminal system in neat black letters and figures 2 inches high on the backside of the rail element between system posts numbers 4 and 5. Paint must be metallic acrylic resin type spray paint. Before applying terminal system identification, the surface to receive terminal system identification must be removed of all dirt, grease, oil, salt, or other contaminants by washing the surface with detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

For Type SKT-SP-MGS terminal system, 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 the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel foundation tubes must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted.

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

For Type 31" X-Lite terminal system, two 13'-6 1/2" rail elements must be connected between Post 7 and the Midwest Guardrail System. All crimped posts and line posts must be W6 x 8.5 or W6 x 9 steel posts. All posts, must be, at the Contractor's option, either driven or placed in drilled holes. Space around the crimped posts, Post 2 with attached soil plate and lines posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. All blocks must be wood or plastic.

For Type 31" X-Tension terminal system, the steel post and soil anchor must be, at the Contractor's option, driven with or without pilot holes, or placed in drilled holes. Space around the steel post and soil anchor must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. The wood terminal posts must be inserted into the drilled holes by hand and backfilled 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.

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

For Type SOFT-STOP terminal system, Posts 1 and 2 must be W6 x 8.5 steel yielding terminal posts and the other posts must be standard W6 x 8.5 steel posts. All posts must be at the Contractor's option, either driven or placed in drilled holes. Space around the posts must be backfilled with selected earth, free of rock, placed in layers approximately 4 inches thick and each layer must be moistened and thoroughly compacted. For the 50'-9 1/2" system, all blocks must be wood or plastic and must be 8 or 12 inches deep.

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

BID ITEM LIST
04-209504

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	130640	TEMPORARY FIBER ROLL	LF	5,000		
22	032198	TEMPORARY CREEK DIVERSION SYSTEMS	LS	LUMP SUM	LUMP SUM	
23	130680	TEMPORARY SILT FENCE	LF	5,000		
24	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	4		
25	130730	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
26	130800	TEMPORARY ACTIVE TREATMENT SYSTEM	LS	LUMP SUM	LUMP SUM	
27	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	
28	131103	WATER QUALITY SAMPLING AND ANALYSIS DAY	EA	88		
29	131104	WATER QUALITY MONITORING REPORT	EA	10		
30	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	920		
31	141120	TREATED WOOD WASTE	LB	3,360		
32	150203	ABANDON CULVERT (EA)	EA	2		
33	150661	REMOVE GUARDRAIL	LF	260		
34	150722	REMOVE PAVEMENT MARKER	EA	80		
35	150742	REMOVE ROADSIDE SIGN	EA	4		
36	BLANK					
37	150808	REMOVE CULVERT (EA)	EA	1		
38	150857	REMOVE ASPHALT CONCRETE SURFACING	SQFT	67,200		
39	155232	SAND BACKFILL	CY	380		
40	157550	BRIDGE REMOVAL	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST

04-209504

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81(F)	510054	STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER)	CY	175		
82(F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	1,194		
83(F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	100		
84(F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	31.2		
85(F)	510526	MINOR CONCRETE (BACKFILL)	CY	30.5		
86	512350	FURNISH PRECAST PRESTRESSED CONCRETE SLAB	SQFT	10,400		
87	045549	FURNISH PRECAST CONCRETE PIER CAP	EA	6		
88(F)	045550	ERECT PRECAST PRESTRESSED CONCRETE SLAB	EA	40		
89(F)	045551	ERECT PRECAST CONCRETE PIER CAP	EA	6		
90	519088	JOINT SEAL (MR 1")	LF	80		
91(F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	261,589		
92(F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	175,336		
93(F)	045552	STRUCTURAL STEEL (PIPE PIN)	LB	1,732		
94	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	33		
95	566011	ROADSIDE SIGN - ONE POST	EA	4		
96	620100	18" ALTERNATIVE PIPE CULVERT	LF	1,310		
97	665016	18" CORRUGATED STEEL PIPE (.064" THICK)	LF	16		
98	BLANK					
99(F)	750001	MISCELLANEOUS IRON AND STEEL	LB	5,300		
100(F)	750505	BRIDGE DECK DRAINAGE SYSTEM	LB	5,134		