

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
OFFICE ENGINEER
1727 30th Street MS-43
P.O. BOX 168041
SACRAMENTO, CA 95816-8041
FAX (916) 227-6214
TTY 711



*Flex your power!
Be energy efficient!*

February 14, 2012

04-Ala-84-25.5/27.1
04-297614
Project ID 0400020580

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY IN AND NEAR LIVERMORE FROM 0.4 MILE NORTH OF CONCANNON BOULEVARD TO JACK LONDON BOULEVARD.

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, February 22, 2012.

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, 7, 15, 16, 17, 19, 20, 160, 162, 182, 192, 196, 197, 199, 202, 206, 207, 228, 229, 234, 243, 247, 411, 426, 430, and 432 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 51A and 51B are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders, the ninth and tenth paragraphs are revised as follows:

"Bids must be on a unit price basis."

"Complete the work, including plant establishment work, within 625 working days."

In the Notice to Bidders, the eleventh and twelfth paragraphs are deleted.

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," is revised as attached.

In the Special Provisions, Section 5-1.15, "SPECIES PROTECTION," is revised as attached.

04-A1a-84-25.5/27.1
04-297614
Project ID 0400020580

In the Special Provisions, Section 5-1.20, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES)," the first paragraph is revised as follows:

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
AT&T Aerial Cable	"A2" 365+00 to 400+10	05/31/2012

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," is revised as attached.

In the Special Provisions, Section 10-1.03, "CONSTRUCTION SITE MANAGEMENT," is revised as attached.

In the Special Provisions, Section 10-1.20, "TIME-RELATED OVERHEAD," is revised as attached.

In the Special Provisions, Section 10-1.36, "EARTHWORK," the following paragraphs are added after the third paragraph.

"Reconstruct portion of existing rock slope protection shall conform to the provisions in "Slope Protection" of these special provisions.

Full compensation for removing and reconstructing portion of the existing rock slope protection to construct, maintain, and remove the temporary access, and to facilitate construction of abutments at Arroyo Mocho Bridge (Widen) is considered as included in the contract price paid per cubic yard for structure backfill (bridge), and no separate payment will be made therefor.

Full compensation to construct, maintain, and remove the temporary access, as shown on plans, to facilitate construction of Arroyo Mocho Access Bridge is considered as included in the contract price paid per cubic yard for structure backfill (bridge) (access bridge), and no separate payment will be made therefor."

In the Special Provisions, Section 10-1.88, "PERMEABLE MATERIAL," is revised as attached.

Addendum No. 1
Page 3
February 14, 2012

04-Ala-84-25.5/27.1
04-297614
Project ID 0400020580

In the Bid book, in the "Bid Item List," Item 3, 50, 71, 78, 119, 120, 133, and 188 are revised, Items 243 to 250 are added, and Items 2, 169, and 242 are deleted as attached.

To Bid book holders:

Replace pages 3, 5, 6, 8, 9, 11, 12 and 15 of the "Bid Item List" in the Bid book with the attached revised pages 3, 5, 6, 8, 9, 11, 12 and 15 of the 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.

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,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

SECTION 4. BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES

The 1st working day is the earlier of (1) the 30th day after contract approval or (2) the day you start work other than the measurement of controlling field dimensions or the location of utilities.

Do not start work at the job site until the Engineer approves your submittal for:

1. Storm Water Pollution Prevention Plan (SWPPP)
2. Notification of Dispute Resolution Advisor (DRA) or Dispute Review Board (DRB) nominee and disclosure statement as specified in Section 5-1.15, "Dispute Resolution," of the Standard Specifications
3. Baseline Progress Schedule(Critical Path Method)

Do not start other work activities until all the submittals from the above list are approved and the following information is submitted:

1. Notice of Materials To Be Used.
2. Contingency plan for reopening closures to public traffic.
3. Written statement from the vendor that the order for the sign panels has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.
4. Written statement from the vendor that the order for electrical material has been received and accepted by the vendor. The statement must show the dates that the materials will be shipped.

You may start work at the job site before the 30th day after contract approval if:

1. You obtain required approval for each submittal before the 30th day
2. The Engineer authorizes it in writing

The Department grants a time extension if a delay is beyond your control and prevents you from starting work at the job site on the 1st working day.

Complete the work, except plant establishment work, within 375 working days.

Complete the work, including plant establishment work, within 625 working days.

It is anticipated that water will be available in sufficient quantities for the prosecution of the work. However, water shortages may occur during the life of the contract. Arrangements or commitments obtained by the Department are not a part of the contract. It is expressly understood and agreed that the Department assumes no responsibility to the bidder or Contractor whatsoever in respect to the arrangements made with the source. The Contractor shall assume all risks in connection with the use of the source and the terms upon which the use shall be made. There is no warranty or guaranty, either expressed or implied, to the quantity of water that can be obtained from the source. If the Department has compiled "Materials Information", as referred to in "Watering" of these special provisions, the bidder or Contractor is cautioned to make independent investigations and obtain the commitments or allocations as the bidder or Contractor deems necessary to verify the quantity of water available. The Contractor shall make arrangements or obtain commitments or allocations necessary to provide water for the project.

During the progress of the work, if water becomes unavailable or unavailable in the quantities needed for prosecution of the work, the unavailability of water will be considered a material shortage. The provisions in Section 5-1.116, "Differing Site Conditions (23 CFR 635.109)," of the Standard Specifications shall not apply to the unavailability of water.

5-1.15 SPECIES PROTECTION

GENERAL

Summary

This work includes protecting regulated species or their habitat.

This project is within or near habitat for regulated species:

California tiger salamander (<i>Ambystoma californiense</i>)
California red-legged frog (<i>Rana aurora draytonii</i>)
San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)

CONSTRUCTION

Protective Radius

Upon discovery of a regulated species, stop construction activities within a 50 feet radius of the discovery or as defined in the table below. Immediately notify the Engineer. Do not resume activities until receiving written notification from the Engineer.

Regulated Species Name	Protective Radius
San Joaquin kit fox (unoccupied dens)	200 feet
San Joaquin kit fox (occupied dens))	0.3 mile

Biological Resource Information

Implement the following Biological Resource Information requirements.

1. All workers must receive Biological Resource Information training (maximum 2 hours) from the Department supplied biologist before performing on-site work. Workers include laborers, tradesmen, material suppliers, equipment maintenance personnel, supervisors, foremen, office personnel, food vendors, and other personnel that stay on the project longer than 30 minutes.
2. You must provide an office near the jobsite for the Biological Resource Information training. Notify the Engineer of the location for the training at least 7 days prior to the first training class and ensure attendance of your workers.
3. Provide the Engineer with an attendance list including the printed and signed name of each attendee of the Biological Resource Information training. Provide the Engineer with the attendance list within 1 working day following each session. Submit a separate attendance list for each subsequent session for new workers.

Protection Measures

Within the project limits, implement the following protection measures for regulated species:

1. Prior to any initial ground disturbing activity in potential regulated species habitat the service approved biologist(s) must survey the job site for regulated species listed in the above table.
2. If a regulated species is found within the protective radius, the Engineer will suspend the work within the protective radius. The work may resume when the animal leaves the area voluntarily or relocated by service approved biologist(s).
3. Contractor owned cats or dogs are not allowed on the job site.
4. All excavated, steep-walled holes or trenches more than 2-feet deep must be covered at the close of each working day by plywood or similar materials. Alternatively, an additional 4-foot high vertical barrier, independent of exclusionary fences, may be used. If it is not feasible to cover an excavation or provide an additional 4-foot high vertical barrier, independent of exclusionary fences, one or more escape ramps constructed of earth fill or wooden planks must be installed with slopes of 4:1 or flatter. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals by the service approved biologist(s).

5. Project related vehicle traffic will be restricted to established roads, construction areas, and other designated areas.
6. Project related vehicles will observe a 20-mile per hour speed limit for construction phases, except on county roads and state and federal highways. Off-road traffic outside of designated action area is prohibited.
7. No firearms will be allowed in the action area, except for those carried by authorized security personnel, or by local, state, or federal law enforcement officials.

MEASUREMENT AND PAYMENT

Full compensation for Species Protection is included in the various contract items of work and no additional compensation will be allowed.

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

A first order of work shall be to widen the Arroyo Mocho bridge (Bridge No. 33-0713) and to install the irrigation crossover at Stanley Blvd and Stanley Connector intersection.

Construction of the Arroyo Mocho Access Bridge and the associated access road connection to Voyager Street shall not commence earlier than June 15, 2013. All work within Arroyo Mocho shall be completed no later than Oct 1, 2013.

Work within the Arroyo Mocho shall be restricted between sunrise and sunset. No work shall be allowed during nighttime hours.

No work will be allowed in the Arroyo Mocho between October 1st and June 15, in compliance with the permits. All penalties and fines assessed for non compliance will be borne by the Contractor.

Access to and the work areas within Arroyo Mocho are restricted to as shown on the plans. Pile driving equipment shall not occupy any of the areas between the top of banks of Arroyo Mocho. All construction equipment is prohibited from using the Arroyo Mocho side slopes for access to the channel work areas.

The Contractor's attention is directed to Zone 7 requirements and shall be required to obtain an encroachment permit from Zone 7, two weeks prior to commencement of any work in Arroyo Mocho.

The Contractor shall notify the Engineer and Zone 7, telephone (925) 454-5067 a minimum of 72 hours prior to performing any work in the vicinity of Arroyo Mocho.

Attention is directed to "Environmentally Sensitive Area" and "Temporary Fence (Type ESA)" of these special provisions. Prior to beginning work, the boundaries of the Environmentally Sensitive Areas (ESA) shall be clearly delineated in the field, as shown on the plans.

The Contractor shall notify the Engineer 30 days before beginning construction activities.

Clearing and Grubbing operations shall be performed between April 15 and October 15.

The Contractor shall notify all business establishments and property owners being impacted at least 48 hours prior to any construction work.

The Contractor shall notify emergency services of project construction schedules at least 48 hours prior to any construction work.

The Contractor shall place and maintain bulletin boards or signs at the point of trail closures providing detailed closure and detour information to the public.

Paved access with asphalt to driveways, business, and building shall be provided at all time.

Work within the Arroyo Mocho shall be confined to the period of June 15 to October 1. Downstream flow of the creek shall be maintained at all times. Attention is directed to "Relations with California Department of Fish and Game," "Relations with the United States Fish and Wildlife Service," "Relations with U.S. Army Corps of Engineers," "Environmentally Sensitive Area," and "Compliance with Species Regulations" of these special provisions.

Prior to removal of existing sanitary sewer pipes within stage construction at Discovery Dr intersection, the contractor shall construct the proposed sanitary sewer lines first. Attention is directed to Section 10-4, "Sanitary -Sewer System," of these special provisions.

Attention is directed to "Bird Protection," of these special provisions. The work performed from February 15 to September 1 is subject to the requirements of these special provisions.

The Contractor shall notify the Engineer and ATT, telephone (925) 824-6572 a minimum of 72 hours prior to performing any work in the vicinity of ATT's facilities.

The Contractor shall notify the Engineer and PG&E, telephone (925) 459-8086 a minimum of 96 hours prior to performing any work in the vicinity of PG&E's facilities.

The Contractor shall notify the Engineer and the City of Livermore, telephone (925) 960-4533 a minimum of 72 hours prior to performing any work on the City's sanitary sewer system, water meters, and reclaimed water line.

The Contractor shall be required to obtain an encroachment permit from City of Livermore prior to commencement of any work on the sanitary sewer line within the City of Livermore right of way, for which no easement exists.

Any area that is cold planed in a work period shall be paved with the first layer of asphalt concrete within the same work period before the area is opened to public traffic.

Access by Zone 7, PG&E, Pleasanton Gravel Company, Vulcan Materials Company, and the City of Livermore crews from State Route 84 through the work zone. Existing gates located at "A2" 363+50 Lt, "A3" 413+10 Lt, and 415+50 Lt shall be maintained throughout the duration of the construction.

10-1.03 CONSTRUCTION SITE MANAGEMENT

GENERAL

Summary

This work includes preventing and controlling spills, dewatering, and managing materials, waste, and nonstormwater.

Implement effective handling, storage, usage, and disposal practices to control material pollution and manage waste and nonstormwater at the job site before they come in contact with storm drain systems and receiving waters.

The following abbreviations are used in this special provision:

DTSC: Department of Toxic Substance Control.

ELAP: Environmental Laboratory Accreditation Program.

WPC: Water Pollution Control.

Submittals

Before you start dewatering, submit a dewatering and discharge work plan under Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications and "Water Pollution Control" of these special provisions. The dewatering and discharge work plan must include:

1. Title sheet and table of contents
2. Description of dewatering and discharge activities detailing locations, quantity of water, equipment, and discharge point
3. Estimated schedule for dewatering and discharge start and end dates of intermittent and continuous activities
4. Discharge alternatives, such as dust control or percolation
5. Visual monitoring procedures with inspection log
6. Copy of written approval to discharge into a sanitary sewer system at least 5 business days before starting discharge activities

Submit the following:

1. Material Safety Data Sheet at least 5 business days before material is used or stored
2. Monthly inventory records for material used or stored

Submit written approval from the local health agency, city, county, and sewer district before discharging from a sanitary or septic system directly into a sanitary sewer system.

MATERIALS

Not Used

CONSTRUCTION

Spill Prevention and Control

General

Keep material or waste storage areas clean, well organized, and equipped with enough cleanup supplies for the material being stored.

Implement spill and leak prevention procedures for chemicals and hazardous substances stored on the job site. Whenever you spill or leak chemicals or hazardous substances at the job site, you are responsible for all associated cleanup costs and related liability.

Report minor, semi-significant, and significant or hazardous spills to the WPC manager. The WPC manager must notify the Engineer immediately.

As soon as it is safe, contain and clean up spills of petroleum materials and sanitary and septic waste substances listed under 40 CFR, Parts 110, 117, and 302.

Minor Spills

Minor spills consist of quantities of oil, gasoline, paint, or other materials that are small enough to be controlled by a 1st responder upon discovery of the spill.

Clean up a minor spill using the following procedures:

1. Contain the spread of the spill
2. Recover the spilled material using absorption
3. Clean the contaminated area
4. Dispose of the contaminated material and absorbents promptly and properly under "Waste Management" of these special provisions

Semi-Significant Spills

Semi-significant spills consist of spills that can be controlled by a 1st responder with help from other personnel.

Clean up a semi-significant spill immediately using the following procedures:

1. Contain the spread of the spill.
2. On paved or impervious surfaces, encircle and recover the spilled material with absorbent materials. Do not allow the spill to spread widely.
3. If the spill occurs on soil, contain the spill by constructing an earthen dike and dig up the contaminated soil for disposal.
4. If the spill occurs during precipitation, cover the spill with 10-mil plastic sheeting or other material to prevent contamination of runoff.
5. Dispose of the contaminated material promptly and properly under "Waste Management" of these special provisions.

Significant or Hazardous Spills

Significant or hazardous spills consist of spills that cannot be controlled by job site personnel.

Immediately notify qualified personnel of a significant or hazardous spill. Take the following steps:

1. Do not attempt to clean up the spill until qualified personnel have arrived
2. Notify the Engineer and follow up with a report
3. Obtain the immediate services of a spill contractor or hazardous material team
4. Notify local emergency response teams by dialing 911 and county officials by using the emergency phone numbers retained at the job site
5. Notify the California Emergency Management Agency State Warning Center at (916) 845-8911
6. Notify the National Response Center at (800) 424-8802 regarding spills of Federal reportable quantities under 40 CFR 110, 119, and 302
7. Notify other agencies as appropriate, including:
 - 7.1. Fire Department
 - 7.2. Public Works Department
 - 7.3. Coast Guard
 - 7.4. Highway Patrol
 - 7.5. City Police or County Sheriff's Department
 - 7.6. Department of Toxic Substances
 - 7.7. California Division of Oil and Gas
 - 7.8. Cal/OSHA
 - 7.9. Regional Water Resources Control Board

Prevent a spill from entering stormwater runoff before and during cleanup activities. Do not bury or wash the spill with water.

Material Management

General

Minimize or eliminate discharge of material into the air, storm drain systems, and receiving waters while taking delivery of, using, or storing the following materials:

1. Hazardous chemicals, including acids, lime, glues, adhesives, paints, solvents, and curing compounds
2. Soil stabilizers and binders
3. Fertilizers
4. Detergents
5. Plaster
6. Petroleum materials, including fuel, oil, and grease
7. Asphalt and concrete components
8. Pesticides and herbicides

Employees trained in emergency spill cleanup procedures must be present during the unloading of hazardous materials or chemicals.

Use less hazardous materials if practicable.

The following activities must be performed at least 100 feet from concentrated flows of stormwater, drainage courses, and inlets if within the floodplain and at least 50 feet if outside the floodplain, unless otherwise approved by the Engineer:

1. Stockpiling materials
2. Storing pile-driving equipment and liquid waste containers
3. Washing vehicles and equipment in outside areas
4. Fueling and maintaining vehicles and equipment

Material Storage

If materials are stored:

1. Store liquids, petroleum materials, and substances listed in 40 CFR 110, 117, and 302 and place them in secondary containment facilities as specified by US DOT for storage of hazardous materials.
2. Secondary containment facilities must be impervious to the materials stored there for a minimum contact time of 72 hours.
3. Cover secondary containment facilities during non-working days and whenever precipitation is forecasted. Secondary containment facilities must be adequately ventilated.
4. Keep secondary containment facilities free of accumulated rainwater or spills. After precipitation, or in the event of spills or leaks, collect accumulated liquid and place it into drums within 24 hours. Handle the liquid as hazardous waste under "Waste Management" of these special provisions unless testing confirms that the liquid is nonhazardous.
5. Do not store incompatible materials, such as chlorine and ammonia, in the same secondary containment facility.
6. Store materials in their original containers with the original material labels maintained in legible condition. Immediately replace damaged or illegible labels.
7. Secondary containment facilities must have the capacity to contain precipitation from a 24-hour-long, 25-year storm, plus 10 percent of the aggregate volume of all containers or the entire volume of the largest container within the facility, whichever is greater.
8. Store bagged or boxed material on pallets. Protect bagged or boxed material from wind and rain during non-working days and whenever precipitation is forecasted.
9. Provide sufficient separation between stored containers to allow for spill cleanup or emergency response access. Storage areas must be kept clean, well organized, and equipped with cleanup supplies appropriate for the materials being stored.
10. Repair or replace perimeter controls, containment structures, covers, and liners as necessary. Inspect storage areas before and after precipitation and at least weekly during other times.
11. Store all excavated materials from Arroyo Mocho in upland habitat areas within the work area.

Stockpile Management

Minimize stockpiling of materials at the job site.

Implement water pollution control practices within 72 hours of stockpiling material or before a forecasted storm event, whichever occurs first. If stockpiles are being used, do not allow soil, sediment, or other debris to enter storm drains, open drainages, and watercourses.

Active and inactive soil stockpiles must be:

1. Covered with soil stabilization material or a temporary cover
2. Surrounded with a linear sediment barrier

Stockpiles of asphalt concrete and PCC rubble, HMA, aggregate base, or aggregate subbase must be:

1. Covered with a temporary cover
2. Surrounded with a linear sediment barrier

Stockpiles of pressure-treated wood must be:

1. Placed on pallets
2. Covered with impermeable material

Stockpiles of cold mix asphalt concrete must be:

1. Placed on an impervious surface
2. Covered with an impermeable material
3. Protected from stormwater run-on and runoff

Control wind erosion year round under Section 14-9.02, "Dust Control," of the Standard Specifications.

Repair or replace linear sediment barriers and covers as needed to keep them functioning properly. Whenever sediment accumulates to 1/3 of the linear sediment barrier height, remove the accumulated sediment.

Waste Management

Solid Waste

Do not allow litter, trash, or debris to accumulate anywhere on the job site, including storm drain grates, trash racks, and ditch lines. Pick up and remove litter, trash, and debris at least once a day from the job site. The WPC manager must monitor solid waste storage and disposal procedures on the job site.

If practicable, recycle nonhazardous job site waste and excess material. If recycling is not practicable, dispose of it under Section 7-1.13, "Disposal of Materials Outside the Highway Right of Way," of the Standard Specifications.

Furnish enough closed-lid dumpsters of sufficient size to contain the refuse and solid waste generated by work activities. Empty the dumpsters at least once a day. Dumpsters must be watertight. Do not wash out dumpsters at the job site. Furnish additional containers and pick up dumpsters more frequently during the demolition phase of construction.

Solid waste includes:

1. Brick
2. Mortar
3. Timber
4. Metal scraps
5. Sawdust
6. Pipe
7. Electrical cuttings
8. Nonhazardous equipment parts
9. Styrofoam and other packaging materials
10. Vegetative material and plant containers from highway planting
11. Litter and smoking material, including litter generated randomly by the public
12. Other trash and debris

Furnish and use trash receptacles in the job site yard, field trailers, and locations where workers gather for lunch and breaks.

Hazardous Waste and Contamination

If hazardous waste is, or will be, generated on the job site, the WPC manager must be thoroughly familiar with proper hazardous waste handling and emergency procedures under 40 CFR § 262.34(d)(5)(iii) and must have successfully completed training under 22 CA Code of Regs § 66265.16.

The WPC manager must:

1. Oversee and enforce hazardous waste management practices
2. Inspect all hazardous waste storage areas daily, including all temporary containment facilities and satellite collection locations
3. Oversee all hazardous waste transportation activities on the job site

Submit a copy of uniform hazardous waste manifest forms to the Engineer within 24 hours of transporting hazardous waste.

Submit receiving landfill documentation of proper disposal to the Engineer within 5 business days of hazardous waste transport from the project.

Unanticipated Discovery of Asbestos and Hazardous Substances

Upon discovery of asbestos or a hazardous substance, comply with Section 14-11.02 "Asbestos and Hazardous Substances," of the Standard Specifications.

Hazardous Waste Management Practices

Handle, store, and dispose of hazardous waste under 22 CA Code of Regs Div 4.5.

Use the following storage procedures:

1. Store hazardous waste and potentially hazardous waste separately from nonhazardous waste at the job site.
2. For hazardous waste storage, use metal containers approved by the United States Department of Transportation for the transportation and temporary storage of hazardous waste.
3. Store hazardous waste in sealed, covered containers labeled with the contents and accumulation start date under 22 CA Code of Regs, Div 4.5. Labels must comply with the provisions of 22 CA Code of Regs, Div 4.5. § 66262.31 and § 66262.32. Immediately replace damaged or illegible labels.
4. Handle hazardous waste containers such that no spillage occurs.
5. Store hazardous waste away from storm drains, watercourses, moving vehicles, and equipment.
6. Furnish containers with adequate storage volume at convenient satellite locations for hazardous waste collection. Immediately move these containers to secure temporary containment facilities when no longer needed at the collection location or when full.
7. Store hazardous waste and potentially hazardous waste in secure temporary containment enclosures having secondary containment facilities impervious to the materials stored there for a minimum contact-time of 72 hours. Temporary containment enclosures must be located away from public access. Acceptable secure enclosures include a locked chain link fenced area or a lockable shipping container located within the project limits.
8. Design and construct secondary containment facilities with a capacity to contain precipitation from a 24-hour-long, 25-year storm; and 10 percent of the aggregate volume of all containers, or the entire volume of the largest container within the facility, whichever is greater.
9. Cover secondary containment facilities during non-working days and if a storm event is predicted. Secondary containment facilities must be adequately ventilated.
10. Keep secondary containment facility free of accumulated rainwater or spills. After a storm event, or in the event of spills or leaks, collect accumulated liquid and place into drums within 24 hours. Handle these liquids as hazardous waste unless testing determines them to be nonhazardous.
11. Do not store incompatible wastes, such as chlorine and ammonia, in the same secondary containment facility.
12. Provide sufficient separation between stored containers to allow for spill cleanup or emergency response access. Storage areas must be kept clean, well organized, and equipped with cleanup supplies appropriate for the wastes being stored.
13. Repair or replace perimeter controls, containment structures, covers, and liners as necessary. Inspect storage areas before and after a storm event, and at least weekly during other times.

Do not:

1. Overfill hazardous waste containers
2. Spill hazardous waste or potentially hazardous waste
3. Mix hazardous wastes
4. Allow hazardous waste or potentially hazardous waste to accumulate on the ground

Dispose of hazardous waste within 90 days of the start of generation. Use a hazardous waste manifest and a transporter registered with the DTSC and in compliance with the CA Highway Patrol Biennial Inspection of Terminals Program to transport hazardous waste to an appropriately permitted hazardous waste management facility.

Dust Control for Hazardous Waste or Contamination

Excavation, transportation, and handling of material containing hazardous waste or contamination must result in no visible dust migration. Have a water truck or tank on the job site at all times while clearing and grubbing and performing earthwork operations in work areas containing hazardous waste or contamination. Keep the amount of water used to the minimum amount needed, and do not allow water to form puddles.

Stockpiling of Hazardous Waste or Contamination

Do not stockpile material containing hazardous waste or contamination unless ordered. Stockpiles of material containing hazardous waste or contamination must not be placed where affected by surface run-on or run-off. Cover stockpiles with 13 mils minimum thickness of plastic sheeting or 1 foot of nonhazardous material. Do not place stockpiles in environmentally sensitive areas. Stockpiled material must not enter storm drains, inlets, or waters of the State.

Contractor-Generated Hazardous Waste

You are the generator of hazardous waste generated as a result of materials you bring to the job site. Use hazardous waste management practices if you generate waste on the job site from the following substances:

1. Petroleum materials
2. Asphalt materials
3. Concrete curing compound
4. Pesticides
5. Acids
6. Paints
7. Stains
8. Solvents
9. Wood preservatives
10. Roofing tar
11. Road flares
12. Lime
13. Glues and adhesives
14. Materials classified as hazardous waste under 22 CA Code of Regs, Div 4.5

If hazardous waste constituent concentrations are unknown, use a laboratory certified by the ELAP under the California Department Of Public Health to analyze a minimum of 4 discrete representative samples of the waste to determine whether it is a hazardous waste and to determine safe and lawful methods for storage and disposal. Perform sampling and analysis in compliance with US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) and under 22 CA Code of Regs, Div 4.5.

Use your US EPA Generator Identification Number and sign hazardous waste manifests for the hazardous waste you generate.

Identify contaminated soil resulting from spills or leaks by noticing discoloration, or differences in soil properties. Immediately notify the Engineer of spills or leaks. Clean up spills and leaks under the Engineer's direction and to the satisfaction of the Engineer. Soil with evidence of contamination must be sampled and analysis performed by a laboratory certified by ELAP.

If sampling and analysis of contaminated soil demonstrates that it is a hazardous waste, handle and dispose of the soil as hazardous waste. You are the generator of hazardous waste created as the result of spills or leaks for which you are responsible.

Prevent the flow of water, including ground water, from mixing with contaminated soil by using one or a combination of the following measures:

1. Berms
2. Cofferdams
3. Grout curtains
4. Freeze walls
5. Concrete seal course

If water mixes with contaminated soil and becomes contaminated, sample and analyze the water using a laboratory certified by the ELAP. If analysis results demonstrate that the water is a hazardous waste, manage and dispose of the water as hazardous waste.

Department-Generated Hazardous Waste

If the Department is the generator of hazardous waste during the work performed on this project, use hazardous waste management practices.

Labels must comply with the provisions of 22 CA Code of Regs § 66262.31 and § 66262.32. Mark labels with:

1. Date the hazardous waste is generated
2. The words "Hazardous Waste"
3. Composition and physical state of the hazardous waste (for example, asphalt grindings with thermoplastic or paint)
4. The word "Toxic"
5. Name, address, and telephone number of the Engineer
6. Contract number
7. Contractor or subcontractor name

Handle the containers such that no spillage occurs.

Hazardous Waste Transport and Disposal

Dispose of hazardous waste within California at a disposal site operating under a permit issued by the DTSC.

The Engineer will obtain the US EPA Generator Identification Number 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.

The Department will not consider you a generator of the hazardous waste and you will not be obligated for further cleanup, removal, or remedial action for such material if handled or disposed of under these specifications and the appropriate State and federal laws and regulations and county and municipal ordinances and regulations regarding hazardous waste.

Paint Waste

Clean water-based and oil-based paint from brushes or equipment within a contained area in a way that does not contaminate soil, receiving waters, or storm drain systems. Handle and dispose of the following as hazardous waste: paints, thinners, solvents, residues, and sludges that cannot be recycled or reused. When thoroughly dry, dispose of the following as solid waste: dry latex paint, paint cans, used brushes, rags, absorbent materials, and drop cloths.

Concrete Waste

Use practices to prevent the discharge of asphalt concrete, PCC, and HMA waste into storm drain systems and receiving waters. Store all concrete waste within previously disturbed areas absent of habitat and at a minimum of 150 feet from any culvert or drainage.

Collect and dispose of asphalt concrete, PCC, and HMA waste generated at locations where:

1. Concrete material, including grout, is used
2. Concrete dust and debris result from demolition
3. Sawcutting, coring, grinding, grooving, or hydro-concrete demolition creates a residue or slurry
4. Concrete trucks or other concrete-coated equipment is cleaned at the job site

Sanitary and Septic Waste

Do not bury or discharge wastewater from a sanitary or septic system within the highway. A sanitary facility discharging into a sanitary sewer system must be properly connected and free from leaks. Place a portable sanitary facility at least 50 feet away from storm drains, receiving waters, and flow lines.

Comply with local health agency provisions if using an on-site disposal system.

Liquid Waste

Use practices that will prevent job-site liquid waste from entering storm drain systems and receiving waters. Liquid waste include the following:

1. Drilling slurries or fluids
2. Grease-free and oil-free wastewater and rinse water
3. Dredgings, including liquid waste from cleaning drainage systems
4. Liquid waste running off a surface, including wash or rinse water
5. Other nonstormwater liquids not covered by separate permits

Hold liquid waste in structurally sound, leak-proof containers, such as roll-off bins or portable tanks.

Liquid waste containers must be of sufficient quantity and volume to prevent overflow, spills, and leaks.

Store containers at least 50 feet from moving vehicles and equipment.

Remove and dispose of deposited solids from sediment traps unless the Engineer approves another method.

Liquid waste may require testing to determine hazardous material content before disposal.

Dispose of drilling fluids and residue.

If a location approved by the Engineer is available within the job site, fluids and residue exempt under 23 CA Code of Regs § 2511(g) may be dried by evaporation in a leak-proof container. Dispose of the remaining as solid waste.

Nonstormwater Management

Water Control and Conservation

Manage water used for work activities in a way that will prevent erosion and the discharge of pollutants into storm drain systems and receiving waters. Obtain authorization before washing anything at the job site with water that could discharge into a storm drain system or receiving waters. Report discharges immediately.

Implement water conservation practices if water is used at the job site. Inspect irrigation areas. Adjust watering schedules to prevent erosion, excess watering, or runoff. Shut off the water source to broken lines, sprinklers, or valves and repair breaks within 24 hours. Reuse water from waterline flushing for landscape irrigation if practicable. Sweep and vacuum paved areas. Do not wash paved areas with water.

Direct runoff water, including water from water line repair, from the job site to areas where it can infiltrate into the ground. Do not allow runoff water to enter storm drain systems and receiving waters. Do not allow spilled water to escape filling areas for water trucks. Direct water from off-site sources around the job site if practicable. Minimize the contact of off-site water with job site water.

Illegal Connection and Discharge Detection and Reporting

Before starting work, inspect the job site and the job site's perimeter for evidence of illicit connections, illegal discharges, and dumping. After starting work, inspect the job site and perimeter on a daily schedule for illicit connections and illegal dumping and discharges.

Whenever illegal connections, discharges, or dumping are discovered, notify the Engineer immediately. Do not take further action unless ordered. Assume that unlabeled or unidentifiable material is hazardous.

Look for the following evidence of illicit connections, illegal discharges, and dumping:

1. Debris or trash piles
2. Staining or discoloration on pavement or soils
3. Pungent odors coming from drainage systems
4. Discoloration or oily sheen on water
5. Stains and residue in ditches, channels, or drain boxes
6. Abnormal water flow during dry weather
7. Excessive sediment deposits
8. Nonstandard drainage junction structures
9. Broken concrete or other disturbances at or near junction structures

Vehicle and Equipment Cleaning

Limit vehicle and equipment cleaning or washing at the job site except what is necessary to control vehicle tracking or hazardous waste. Notify the Engineer before cleaning vehicles and equipment at the job site with soap, solvents, or steam. Contain and recycle or dispose of resulting waste under "Waste Management" of these special provisions, whichever is applicable. Do not use diesel to clean vehicles or equipment. Minimize the use of solvents.

Clean or wash vehicles and equipment in a structure equipped with disposal facilities. You may wash vehicles in an outside area if the area is:

1. Paved with asphalt concrete, HMA, or PCC
2. Surrounded by a containment berm
3. Equipped with a sump to collect and dispose of wash water

Use as little water as practicable whenever washing vehicles and equipment with water. Hoses must be equipped with a positive shutoff valve.

Discharge liquid from wash racks to a recycling system or to another system approved by the Engineer. Remove liquids and sediment as necessary.

Vehicle and Equipment Fueling and Maintenance

If practicable, perform maintenance on vehicles and equipment off-site.

If fueling or maintenance must be done at the job site, assign a site or sites, and obtain authorization before using them. Minimize mobile fueling and maintenance activities. Fueling and maintenance activities must be performed on level ground in areas protected from stormwater run-on and runoff and at a minimum distance from riparian/aquatic habitat of 100 feet.

Use containment berms or dikes around fueling and maintenance areas. Keep adequate quantities of absorbent spill-cleanup material and spill kits in the fueling or maintenance area and on fueling trucks. Dispose of spill-cleanup material and kits immediately after use under "Waste Management" of these special provisions. Use drip pans or absorbent pads during fueling or maintenance.

Do not leave fueling or maintenance areas unattended during fueling and maintenance activities. Fueling nozzles must be equipped with an automatic shutoff control. Nozzles must be equipped with vapor-recovery fueling nozzles where required by the Air Quality Management District. Secure nozzles in an upright position when not in use. Do not top off fuel tanks.

Recycle or properly dispose of used batteries and tires under "Waste Management" of these special provisions.

If leaks cannot be repaired immediately, remove the vehicle or equipment from the job site.

Material and Equipment Used Over Water

Place drip pans and absorbent pads under vehicles and equipment used over water. Keep an adequate supply of spill-cleanup material with vehicles and equipment. Place drip pans or plastic sheeting under vehicles and equipment on docks, barges, or other surfaces over water whenever vehicles or equipment will be idle for more than 1 hour.

Furnish watertight curbs or toe boards on barges, platforms, docks, or other surfaces over water to contain material, debris, and tools. Secure material to prevent spills or discharge into the water due to wind.

Report discharges to receiving waters immediately upon discovery. Submit a discharge notification to the Engineer.

Structure Removal Over or Adjacent to Water

Do not allow demolished material to enter storm drain systems and receiving waters. Use covers and platforms approved by the Engineer to collect debris. Use attachments on equipment to catch debris during small demolition activities. Empty debris-catching devices daily.

Paving, Sealing, Sawcutting, Grooving, and Grinding Activities

Prevent material from entering storm drain systems and receiving waters including:

1. Cementitious material
2. Asphaltic material
3. Aggregate or screenings
4. Sawcutting, grooving, and grinding residue
5. Pavement chunks
6. Shoulder backing
7. Methacrylate
8. Sandblasting residue

Cover drainage inlets and use linear sediment barriers to protect downhill receiving waters until paving, sealing, sawcutting, grooving, and grinding activities are completed and excess material has been removed. Cover drainage inlets and manholes during the application of seal coat, tack coat, slurry seal, or fog seal.

Whenever precipitation is forecasted, limit paving, sawcutting, and grinding to places where runoff can be captured.

Do not start seal coat, tack coat, slurry seal, or fog seal activities whenever precipitation is forecasted during the application and curing period. Do not excavate material from existing roadways during precipitation.

Use a vacuum to remove slurry immediately after slurry is produced. Do not allow the slurry to run onto lanes open to traffic or off the pavement.

Collect the residue from PCC grooving and grinding activities with a vacuum attachment on the grinding machine. Do not leave the residue on the pavement or allow the residue to flow across pavement.

You may stockpile material excavated from existing roadways under "Material Management" of these special provisions if approved by the Engineer.

Do not coat asphalt trucks and equipment with substances that contain soap, foaming agents, or toxic chemicals.

Park paving equipment over drip pans or plastic sheeting with absorbent material to catch drips if the paving equipment is not in use.

Thermoplastic Striping and Pavement Markers

Do not preheat, transfer, or load thermoplastic within 50 feet of drainage inlets and receiving waters.

Do not unload, transfer, or load bituminous material for pavement markers within 50 feet of drainage inlets and receiving waters.

Collect and dispose of bituminous material from the roadway after removing markers under "Waste Management" of these special provisions.

Pile Driving

Keep spill kits and cleanup materials at pile driving locations. Park pile driving equipment over drip pans, absorbent pads, or plastic sheeting with absorbent material. Protect pile driving equipment by parking on plywood and covering with plastic whenever precipitation is forecasted.

Store pile driving equipment on level ground and protect it from stormwater run-on when not in use. Use vegetable oil instead of hydraulic fluid if practicable.

Concrete Curing

Do not overspray chemical curing compounds. Minimize the drift by spraying as close to the concrete as practicable. Do not allow runoff of curing compounds. Cover drainage inlets before applying the curing compound.

Minimize the use and discharge of water by using wet blankets or similar methods to maintain moisture when concrete is curing.

Concrete Finishing

Collect and dispose of water and solid waste from high-pressure water blasting under "Waste Management" of these special provisions. Collect and dispose of sand and solid waste from sandblasting under "Waste Management" of these special provisions. Before sandblasting, cover drainage inlets within 50 feet of sandblasting. Minimize the drift of dust and blast material by keeping the nozzle close to the surface of the concrete. If the character of the blast residue is unknown, test it for hazardous materials and dispose of it properly.

Inspect containment structures for concrete finishing for damage before each day of use and before forecasted precipitation. Remove liquid and solid waste from containment structures after each work shift.

Sweeping

Sweep by hand or mechanical methods, such as vacuuming. Do not use methods that use only mechanical kick brooms. Sweep paved roads at construction entrance and exit locations and paved areas within the job site:

1. During clearing and grubbing activities
2. During earthwork activities
3. During trenching activities
4. During roadway structural-section activities
5. When vehicles are entering and leaving the job site
6. After soil-disturbing activities
7. After observing off-site tracking of material

Monitor paved areas and roadways within the project. Sweep within:

1. 1 hour whenever sediment or debris is observed during activities that require sweeping
2. 24 hours whenever sediment or debris is observed during activities that do not require sweeping

Remove collected material, including sediment, from paved shoulders, drain inlets, curbs and dikes, and other drainage areas. You may stockpile collected material at the job site under "Material Management" of these special provisions. If stockpiled, dispose of collected material at least once per week under "Waste Management" of these special provisions.

You may dispose of sediment within the job site collected during sweeping activities. Protect the disposal areas against erosion.

Keep dust to a minimum during street sweeping activities. Use water or a vacuum whenever dust generation is excessive or sediment pickup is ineffective. Ensure that water used to control dust does not form puddles.

Remove and dispose of trash collected during sweeping under "Waste Management" of these special provisions.

Dewatering

Dewatering consists of discharging accumulated stormwater, groundwater, or surface water from excavations or temporary containment facilities.

Perform dewatering work as specified for the work items involved, such as temporary active treatment system or dewatering and discharge.

If dewatering and discharging activities are not specified under a work item and you perform dewatering activities:

1. Conduct dewatering activities under the Department's Field Guide for Construction Site Dewatering.
2. Ensure that any dewatering discharge does not cause erosion, scour, or sedimentary deposits that could impact natural bedding materials.
3. Discharge the water within the project limits. If the water cannot be discharged within project limits due to site constraints or contamination, dispose of the water as directed by the Engineer.
4. Do not discharge stormwater or nonstormwater that has an odor, discoloration other than sediment, an oily sheen, or foam on the surface. Notify the Engineer immediately upon discovering any such condition.

MEASUREMENT AND PAYMENT

The contract lump sum price paid for construction site management includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in spill prevention and control, material management, waste management, nonstormwater management, and dewatering activities, including identifying, sampling, testing, handling, and disposing of hazardous waste resulting from your activities, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as ordered by the Engineer.

10-1.20 TIME-RELATED OVERHEAD

The Contractor will be compensated for time-related overhead as described below and in conformance with "Force Account Payment" of these special provisions. The Contractor will not be compensated for time-related overhead for delays to the controlling operations caused by the Engineer that occur prior to the first working day, but will be compensated for actual overhead costs incurred, as determined by an independent Certified Public Accountant audit examination and report.

Attention is directed to "Beginning of Work, Time of Completion and Liquidated Damages," "Force Account Payment," and "Progress Schedule (Critical Path Method)" of these special provisions.

The provisions in Section 9-1.08D(2)(b), "Overhead Claims," of the Standard Specifications shall not apply.

Time-related overhead shall consist of those overhead costs, including field and home office overhead, that are in proportion to the time required to complete the work. Time-related overhead shall not include costs that are not related to time, including but not limited to, mobilization, licenses, permits, and other charges incurred only once during the contract. Time-related overhead shall not apply to subcontractors of any tier, suppliers, fabricators, manufacturers, or other parties associated with the Contractor.

Field office overhead expenses include time-related costs associated with the normal and recurring operations of the construction project, and shall not include costs directly attributable to the work of the contract. Time-related costs of field office overhead include, but are not limited to, salaries, benefits, and equipment costs of project managers, general superintendents, field office managers and other field office staff assigned to the project, and rent, utilities, maintenance, security, supplies, and equipment costs of the project field office.

Home office overhead or general and administrative expenses refer to the fixed costs of operating the Contractor's business. These costs include, but are not limited to, general administration, insurance, personnel and subcontract administration, purchasing, accounting, and project engineering and estimating. Home office overhead costs shall exclude expenses specifically related to other contracts or other businesses of the Contractor, equipment coordination, material deliveries, and consultant and legal fees.

The quantity of time-related overhead associated with a reduction in contract time for an accepted VECP under Section 4-1.035B, "Value Engineering Change Proposal," of the Standard Specifications shall be considered a construction cost attributable to the resultant estimated net savings due to the cost reduction incentive.

If the final increased quantity of time-related overhead exceeds 149 percent of the number of working days specified in the verified Bid Item List, the Contractor shall, within 60 days of the Engineer's written request, submit to the Engineer an audit examination and report performed by an independent Certified Public Accountant of the Contractor's actual overhead costs. The audit examination and report shall depict the Contractor's project and company-wide financial records and shall specify the actual overall average daily rates for both field and home office overhead for the entire duration of the project, and whether the costs have been properly allocated. The rates of field and home office overhead shall exclude unallowable costs as determined in the Federal Acquisition Regulations, 48 CFR, Chapter 1, Part 31.

Independent Certified Public Accountant's audit examinations shall be performed in conformance with the requirements of the American Institute of Certified Public Accountants Attestation Standards. Audit examinations and reports shall determine if the rates of field office overhead and home office overhead are:

- A. Allowable in conformance with the requirements of the Federal Acquisition Regulations, 48 CFR, Chapter 1, Part 31.
- B. Adequately supported by reliable documentation.
- C. Related solely to the project under examination.

Within 20 days of receipt of the Engineer's written request, the Contractor shall make its financial records available for audit by the State for the purpose of verifying the actual rate of time-related overhead specified in the audit submitted by the Contractor. The actual rate of time-related overhead specified in the audit, submitted by the Contractor, will be subject to approval by the Engineer.

If the Engineer requests the independent Certified Public Accountant audit, or if it is requested in writing by the Contractor, the contract item payment rate for time-related overhead, in excess of 149 percent of the number of working days specified in the verified Bid Item List, will be adjusted to reflect the actual rate.

The cost of performing an independent Certified Public Accountant audit examination and submitting the report, requested by the Engineer, will be borne equally by the State and the Contractor. The division of the cost will be made by determining the cost of providing an audit examination and report in conformance with the provisions of Section 9-1.04, "Extra Work Performed by Specialists," of the Standard Specifications, and paying to the Contractor one-half of that cost. The cost of performing an audit examination and submitting the independent Certified Public Accountant audit report for overhead claims other than for the purpose of verifying the actual rate of time-related overhead shall be entirely borne by the Contractor. The cost of performing an audit examination and submitting the independent Certified Public Accountant audit report to verify actual overhead costs incurred prior to the first working day shall be entirely borne by the Contractor.

The quantity of time-related overhead to be paid will be measured by the working day, designated in the verified Bid Item List as WDAY. The estimated number of working days is the number of working days, excluding days for plant establishment, as specified in "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions. The quantity of time-related overhead will be increased or decreased only as a result of suspensions or adjustments of contract time which revise the current contract completion date, and which satisfy any of the following criteria:

- A. Suspensions of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications, except:
 1. Suspensions ordered due to weather conditions being unfavorable for the suitable prosecution of the controlling operation or operations.
 2. Suspensions ordered due to the failure on the part of the Contractor to carry out orders given, or to perform the provisions of the contract.
 3. Suspensions ordered due to factors beyond the control of and not caused by the State or the Contractor, for which the Contractor is granted non-working days.
 4. Other suspensions that mutually benefit the State and the Contractor.
- B. Adjustments of contract time granted by the State set forth in approved contract change orders, in conformance with the provisions in Section 4-1.03, "Changes," of the Standard Specifications.

A delay to the controlling operation may be concurrent and any of the following:

1. Nonexcusable: A nonexcusable delay is caused by the fault, nonperformance, or deficiency of the Contractor, subcontractors of any tier, or suppliers. The days during a nonexcusable delay are working days. No time or payment adjustment for a nonexcusable delay is allowed.
2. Excusable: An excusable delay is caused by factors beyond the control and without the fault of the State or the Contractor. The days during an excusable delay are non-working days.
3. Compensable: A compensable delay is caused solely by the fault, deficiency, error, omission, or change made by the State. A time adjustment and a payment adjustment for the actual cost without markup or profit are allowed.

A concurrent delay occurs when 2 or more separate delays overlap partially or entirely. A nonexcusable delay concurrent with either an excusable or a compensable delay is a nonexcusable delay. An excusable delay concurrent with a compensable delay is an excusable delay.

The quantity of time-related overhead is only adjusted as a result of a compensable delay and is not adjusted as a result of either a nonexcusable or an excusable delay.

An approved time impact analysis submitted as specified in "Progress Schedule (Critical Path Method)" of these special provisions is used to determine the type and duration of a delay.

In the event an early completion progress schedule, as defined in "Progress Schedule (Critical Path Method)" of these special provisions, is submitted by the Contractor and approved by the Engineer, the amount of time-related overhead eligible for payment will be based on the total number of working days for the project, in conformance with the provisions in "Beginning of Work, Time of Completion and Liquidated Damages" of these special provisions, rather than the Contractor's early completion progress schedule.

The contract price paid per working day for time-related overhead shall include full compensation for time-related overhead, including the Contractor's share of costs of the independent Certified Public Accountant audit of overhead costs requested by the Engineer, as specified in these special provisions, and as directed by the Engineer.

The provisions in Sections 4-1.03B, "Increased or Decreased Quantities," and 4-1.03C, "Changes in Character of the Work," of the Standard Specifications shall not apply to the contract item of time-related overhead.

Full compensation for additional overhead costs incurred during days of inclement weather when the contract work is extended into additional construction seasons due to delays caused by the State shall be considered as included in the time-related overhead paid during the contract working days, and no additional compensation will be allowed therefor.

Full compensation for additional overhead costs involved in performing additional contract item work that is not a controlling operation shall be considered as included in the contract items of work involved and no additional compensation will be allowed therefor.

Full compensation for overhead, other than time-related overhead measured and paid for as specified above, and other than overhead costs included in the markups specified in "Force Account Payment" of these special provisions, shall be considered as included in the various items of work and no additional compensation will be allowed therefor.

Overhead costs incurred by subcontractors of any tier, suppliers, fabricators, manufacturers, and other parties associated with the Contractor shall be considered as included in the various items of work and as specified in Section 9-1.03, "Force Account Payment," of the Standard Specifications.

For the purpose of making progress payments pursuant to the provisions in Section 9-1.07, "Progress Payments," of the Standard Specifications, the number of working days to be paid for time-related overhead in each monthly partial payment will be the number of working days, specified above to be measured for payment that occurred during that monthly estimate period, including compensable suspensions and right of way delays. Working days granted by contract change order due to extra work or changes in character of the work, will be paid for upon completion of the contract. The amount earned per working day for time-related overhead shall be the lesser of the following amounts:

- A. The contract item price.
- B. Twenty percent of the original total contract amount divided by the number of working days specified in "Beginning of Work, Time of Completion and Liquidated Damages," of these special provisions.

After the work has been completed, except plant establishment work, as provided in Section 20-4.08, "Plant Establishment Work," of the Standard Specifications, the amount of the total contract item price for time-related overhead not yet paid will be included for payment in the first estimate made after completion of roadway construction work, in conformance with the provisions in Section 9-1.07, "Progress Payments," of the Standard Specifications.

10-1.88 PERMEABLE MATERIAL (BLANKET)

Permeable material blanket shall be constructed in conformance with the details shown on the plans and these special provisions.

Permeable material for permeable material blanket shall be Class 3 and shall conform to the provisions in Section 68-1, "Underdrains," of the Standard Specifications, except for payment.

Filter fabric for use with permeable material blanket shall conform to the provisions in Section 88-1.02, "Filtration," of the Standard Specifications and the following:

- A. The subgrade to receive the filter fabric, immediately prior to placing, shall conform to the compaction and elevation tolerance specified for the material involved.
- B. Filter fabric shall be handled and placed in conformance with the manufacturer's recommendations.
- C. The fabric shall be aligned and placed in a wrinkle-free manner.
- D. Adjacent borders of the fabric shall be overlapped from 12 inches to 18 inches or stitched. The preceding roll shall overlap the following roll in the direction the material is being spread or shall be stitched. When the fabric is joined by stitching, the fabric shall be stitched with yarn of a contrasting color. The size and composition of the yarn shall be as recommended by the fabric manufacturer. The stitches shall number 5 to 7 per one inch of seam.
- E. Within 24 hours after the filter fabric has been placed, the fabric shall be covered with the planned thickness of permeable material or aggregate subbase material as shown on the plans.
- F. During spreading and compaction of the permeable material and aggregate subbase material, a minimum of 6 inches of the material shall be maintained between the fabric and the Contractor's equipment. Where embankment material is to be placed on the filter fabric, a minimum of 18 inches of embankment material shall be maintained between the fabric and the Contractor's equipment. Equipment or vehicles shall not be operated or driven directly on the filter fabric.

Permeable material (blanket) will be measured by the cubic yard. Quantities of permeable material to be paid for as permeable material (blanket) will be determined from the dimensions shown on the plans or such other dimensions as may be ordered in writing by the Engineer. Permeable material blanket constructed in excess of these dimensions will not be paid for.

The contract price paid per cubic yard for permeable material (blanket) shall include full compensation for furnishing all labor, materials (including filter fabric), tools, equipment, and incidentals, and for doing all the work involved in constructing a permeable material (blanket) and placing filter fabric, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	BLANK					
3	071325	TEMPORARY FENCE (TYPE ESA)	LF	6,790		
4	073006	18" TEMPORARY CULVERT	LF	37		
5	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
6	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
7	022136	FALL PREVENTION SYSTEM	EA	24		
8	074028	TEMPORARY FIBER ROLL	LF	6,700		
9	074029	TEMPORARY SILT FENCE	LF	12,500		
10	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	10		
11	074034	TEMPORARY COVER	SQYD	10,000		
12	074035	TEMPORARY CHECK DAM	LF	1,000		
13	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	10		
14	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	110		
15	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	17,500		
16	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
17	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM	
18	074056	RAIN EVENT ACTION PLAN	EA	75	500.00	37,500.00
19	074057	STORM WATER ANNUAL REPORT	EA	2	2,000.00	4,000.00
20	074058	STORM WATER SAMPLING AND ANALYSIS DAY	DAY	50		

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150722	REMOVE PAVEMENT MARKER	EA	1,670		
42	150742	REMOVE ROADSIDE SIGN	EA	29		
43	150747	REMOVE ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	4		
44	022139	REMOVE UNDERDRAIN SYSTEM	LF	1,780		
45	150805	REMOVE CULVERT	LF	3,490		
46	150820	REMOVE INLET	EA	27		
47	150824	REMOVE SEWER MANHOLE	EA	15		
48	150826	REMOVE MANHOLE	EA	5		
49	150841	REMOVE SEWER PIPE	LF	96		
50	152390	RELOCATE ROADSIDE SIGN	EA	3		
51	152410	RELOCATE WATER METER	EA	2		
52	152430	ADJUST INLET	EA	9		
53	152432	ADJUST MANHOLE	EA	1		
54	152609	MODIFY INLET TO MANHOLE	EA	1		
55	022140	MODIFY SEWER MANHOLE	EA	2		
56	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	5,680		
57	153210	REMOVE CONCRETE	CY	760		
58	153221	REMOVE CONCRETE BARRIER	LF	240		
59	153223	REMOVE UNSOUND CONCRETE	CF	22		
60	153235	CLEAN BRIDGE DECK	SQFT	7,585		

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	155003	CAP INLET	EA	15		
62	022141	CAP SANITARY SEWER MANHOLE	EA	1		
63	156572	REMOVE RAILING	LF	40		
64	156585	REMOVE CRASH CUSHION	EA	3		
65	157560	BRIDGE REMOVAL (PORTION)	LS	LUMP SUM	LUMP SUM	
66	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
67	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
68	190101	ROADWAY EXCAVATION	CY	132,000		
69	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
70	192001	STRUCTURE EXCAVATION	CY	3,350		
71 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	147		
72 (F)	192020	STRUCTURE EXCAVATION (TYPE D)	CY	477		
73 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	6,971		
74 (F)	192050	STRUCTURE EXCAVATION (TIEBACK WALL)	CY	437		
75 (F)	192055	STRUCTURE EXCAVATION (SOIL NAIL WALL)	CY	1,018		
76	022142	FILTER MEDIA	CY	190		
77	193001	STRUCTURE BACKFILL	CY	370		
78 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	69		
79 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	4,800		
80 (F)	193026	STRUCTURE BACKFILL (TIEBACK WALL)	CY	38		

**BID ITEM LIST
04-297614**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	250401	CLASS 4 AGGREGATE SUBBASE	CY	9,700		
102	260201	CLASS 2 AGGREGATE BASE	CY	19,600		
103	290201	ASPHALT TREATED PERMEABLE BASE	CY	3,470		
104	390131	HOT MIX ASPHALT	TON	43,100		
105	390140	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	11,500		
106	394050	RUMBLE STRIP	STA	220		
107	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
108	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	210		
109	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	340		
110	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	10,500		
111	397005	TACK COAT	TON	60		
112	490508	FURNISH STEEL PILING (HP 10 X 57)	LF	2,568		
113	490509	DRIVE STEEL PILE (HP 10 X 57)	EA	58		
114	490601	16" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	303		
115	490603	24" CAST-IN-DRILLED-HOLE CONCRETE PILING	LF	662		
116	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
117	500050	TIEBACK ANCHOR	EA	102		
118	022143	CONCRETE STRUCTURES (AUSTIN VAULT)	CY	550		
119 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	26		
120 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	1,055		

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	3,102		
122 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	157		
123 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	318		
124	510526	MINOR CONCRETE (BACKFILL)	CY	350		
125 (F)	511035	ARCHITECTURAL TREATMENT	SQFT	34,375		
126	511106	DRILL AND BOND DOWEL	LF	326		
127	511110	DRILL AND BOND DOWEL (CHEMICAL ADHESIVE)	EA	124		
128	511124	RAPID SETTING CONCRETE (PATCH)	CF	22		
129	515020	REFINISH BRIDGE DECK	SQFT	279		
130	519081	JOINT SEAL (MR 1/2")	LF	263		
131	519088	JOINT SEAL (MR 1")	LF	37		
132 (F)	520101	BAR REINFORCING STEEL	LB	135,683		
133 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	177,089		
134 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	465,664		
135 (F)	530100	SHOTCRETE	CY	502		
136 (F)	540102	TREAT BRIDGE DECK	SQFT	7,585		
137	540108	FURNISH BRIDGE DECK TREATMENT MATERIAL	GAL	84		
138	022144	PUBLIC SAFETY PLAN	LS	LUMP SUM	LUMP SUM	
139	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	220		
140	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	60		

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	022147	PLASTIC PIPE UNDERDRAIN (AUSTIN VAULT)	LF	630		
162	680905	8" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	6,230		
163	681023	6" PLASTIC PIPE	LF	7		
164	022148	8" PLASTIC PIPE	LF	120		
165	681103	3" PLASTIC PIPE (EDGE DRAIN)	LF	10,500		
166	681107	3" PLASTIC PIPE (EDGE DRAIN OUTLET)	LF	240		
167	681990	FILTER FABRIC	SQYD	420		
168	022149	PERMEABLE MATERIAL (AUSTIN VAULT)	CY	180		
169	BLANK					
170	700617	DRAINAGE INLET MARKER	EA	120		
171	703531	12" WELDED STEEL PIPE (.134" THICK)	LF	460		
172	703551	18" WELDED STEEL PIPE (.134" THICK)	LF	8		
173	704216	JACKED 36" WELDED STEEL PIPE (.250" THICK)	LF	210		
174	022150	JACKED 60" WELDED STEEL PIPE (0.375" THICK)	LF	360		
175	705311	18" ALTERNATIVE FLARED END SECTION	EA	2		
176	705517	18" AUTOMATIC DRAINAGE GATE	EA	1		
177	022151	12" PVC SEWER PIPE	LF	220		
178	022152	15" PVC SEWER PIPE	LF	96		
179	022153	18" PVC SEWER PIPE	LF	810		
180	022154	21" PVC SEWER PIPE	LF	1,390		

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181	022155	39" PVC SEWER PIPE	LF	3,260		
182	022156	SEWER MANHOLE (TYPE 1)	EA	9		
183	022157	SEWER MANHOLE (TYPE 2)	EA	12		
184	721007	ROCK SLOPE PROTECTION (1/4T, METHOD B)	CY	267		
185	721011	ROCK SLOPE PROTECTION (NO. 2, METHOD B)	CY	64		
186	722020	GABION	CY	30		
187	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	326		
188	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	230		
189 (F)	731517	MINOR CONCRETE (GUTTER)	LF	4,289		
190	022158	MINOR CONCRETE (DEBRIS SUMP AND DRAINAGE PAD)	CY	4		
191	750001	MISCELLANEOUS IRON AND STEEL	LB	48,900		
192	022159	MISCELLANEOUS METAL (AUSTIN VAULT)	LB	120		
193	022160	CITY OF LIVERMORE 18" RECLAIMED WATER LINE REPLACEMENT	LS	LUMP SUM	LUMP SUM	
194	800321	CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	LF	6,810		
195	800361	CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)	LF	4,970		
196	802580	12' CHAIN LINK GATE (TYPE CL-6)	EA	7		
197	820107	DELINEATOR (CLASS 1)	EA	5		
198	820110	MILEPOST MARKER	EA	4		
199	820134	OBJECT MARKER (TYPE P)	EA	3		
200	820141	OBJECT MARKER (TYPE K-1)	EA	2		

BID ITEM LIST
04-297614

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
241	022167	EMERGENCY VEHICLE PREEMPTION SYSTEM	LS	LUMP SUM	LUMP SUM	
242	BLANK					
243	090100	TIME-RELATED OVERHEAD (WDAY)	WDAY	375		
244 (F)	043629	STRUCTURE EXCAVATION (BRIDGE) (ACCESS BRIDGE)	CY	119		
245 (F)	043630	STRUCTURE BACKFILL (BRIDGE) (ACCESS BRIDGE)	CY	119		
246 (F)	043631	STRUCTURE CONCRETE, BRIDGE FOOTING (ACCESS BRIDGE)	CY	31		
247 (F)	043632	STRUCTURE CONCRETE, BRIDGE (ACCESS BRIDGE)	CY	207		
248 (F)	043633	BAR REINFORCING STEEL (BRIDGE) (ACCESS BRIDGE)	LB	44,384		
249	682049	CLASS 3 PERMEABLE MATERIAL (BLANKET)	CY	4,560		
250	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

\$ _____