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October 21, 2010

03-ED-50-77.3/79.3
03-1A73U4
Project ID 0300020124
ACSTP-P050(120)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN EL DORADO COUNTY IN SOUTH LAKE TAHOE FROM TROUT CREEK BRIDGE TO SKI RUN 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.

Bid for this work will be opened on Tuesday, November 16, 2010.

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

Project Plan Sheets 12, 18, 19, 24, 43, 57, 141, 142, 143, 145, 146, 147, 149, 150, 151, 152, 153, 154, 155, 162, 163, 191, 264 and 270 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 169A and 169B are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders the thirteenth paragraph is revised as follows:

"Complete the work, including plant establishment work, within 515 working days."

In the Notice to Bidders the fourteenth paragraph is revised as follows:

"The estimated cost of the project is \$18,300,000."

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the last two paragraphs are revised as follows:

"Complete the work, except plant establishment work, within 265 working days.
Complete the work, including plant establishment work, within 515 working days."

In the Special Provisions, Section 5-1.16, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES)," is revised as attached.

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In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraphs are added after the second paragraph.

"The Contractor shall not do any work outside the state right-of-way, within the limits of the following stations as shown below, until May 1, 2011, or as directed by the Engineer.

Approximate Start Station	Approximate End Station	Approximate Offset	
167+35	169+68	38.1	Right
104+82	107+52	38.9	Left
159+73	164+53	44	Right

Work shall be planned so that shoulder widening shall occur in the first two seasons and grind and overlay in the third season. The Contractor shall limit the amount of work started in any year. All items of work started on a section of roadway (except grind and overlay and permanent striping and signing) shall be completed prior to October 15 of that same year. A complete section of roadway is defined as full roadway width including shoulders and gutters, and sidewalk in section lengths where the finish grade conforms to the original grade at the beginning and ending of paving locations as shown on the plans. "

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," is revised as attached.

In the Special Provisions, Section 10-1.27, "MAINTAINING TRAFFIC," the following paragraph is added after the tenth paragraph:

"The maximum length of a single stationary lane closure for grinding and paving operations shall be 1.0 mile."

In the Special Provisions, Section 10-1.27, "MAINTAINING TRAFFIC," Charts No. 1 and 2 are revised as attached.

In the Special Provisions, Section 10-1.295, "TEMPORARY PAVEMENT DELINEATION," is added as attached.

In the Special Provisions, Section 10-1.33, "EXISTING HIGHWAY FACILITIES," subsection "COLD PLANE ASPHALT CONCRETE PAVEMENT," the second paragraph is revised as follows:

"Except as otherwise shown on the plans, schedule cold planing activities so that no more than 14 days elapses between the time the pavement is cold planed and the HMA is placed."

In the Special Provisions, Section 10-1.805, "PAINT TRAFFIC STRIPE AND PAVEMENT MARKING," is added as attached.

In the Special Provisions, Section 10-1.81, "TWO-COMPONENT PAINT TRAFFIC STRIPE AND PAVEMENT MARKING," is replaced with "TWO-COMPONENT PAINT PAVEMENT MARKING," as attached.

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In the Special Provisions, Section 10-2.05, "IRRIGATION SYSTEMS," subsection "IRRIGATION CONTROLLER ENCLOSURE CABINET," the ninth paragraph is revised as follows.:

"Irrigation controller enclosure cabinets fabricated of cold rolled steel or aluminum shall be cleaned and painted by the manufacturer in conformance with the provisions in Section 86-3.04A, "Cabinet Construction," of the Standard Specifications. Irrigation controller enclosure cabinets shall be powder coated a black green No. RAL 6012. The dry film thickness of the powder coating shall not be less than 3 mils."

In the Special Provisions, Section 10-2.05, "IRRIGATION SYSTEMS," subsection "BACKFLOW PREVENTER ASSEMBLY ENCLOSURE," the eighth paragraph is revised as follows:

"All parts of the backflow preventer assembly enclosure, including hold down assemblies, may be constructed of stainless steel instead of standard steel materials specified above. Stainless steel enclosures shall conform to the provisions herein except galvanizing, priming and painting shall not be required. Backflow preventer assembly enclosures shall be powder coated a black green No. RAL 6012. The dry film thickness of the powder coating shall not be less than 3 mils."

In the Bid book, in the "Bid Item List," Item 3 is revised, Items 144, 145, 146 and 147 are added and Items 136 and 143 are deleted as attached.

To Bid book holders:

Replace pages 3, 9 and 10 of the "Bid Item List" in the Bid book with the attached revised pages 3, 9 and 10 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.

This addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/03/03-1A73U4

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

5-1.16 NONHIGHWAY FACILITIES (INCLUDING UTILITIES)

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
Electric-Sierra Pacific Power	STA 126+40 RT 36.0	12/15/2010
Electric-Sierra Pacific Power	STA 126+40 to STA 131+75 RT46.8	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 108+92 RT 53.6	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 119+13 RT 34.0	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 123+42 RT 44.7	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 128+74 RT 31.8	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 134+92 RT 39.0	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 136+78 RT 34.8	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 139+00 LT 38.4	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 142+60 RT 33.8	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 150+21 RT 39.7	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 153+75 RT 25.9	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 159+64 RT 33.7	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 168+82 RT 40.6	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 171+77 33.0	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 180+20 Rt 42.7	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 184+00 to STA 184+15 Rt 21.1	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 185+08 RT 34.0	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 189+80 RT 33.3	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 193+30 RT 33.0	12/15/2010
Water-South Tahoe Public Utility Dist.	STA 195+52 RT 36.9	12/15/2010

During the progress of the work under this Contract, the utility owner will relocate a utility shown in the following table within the corresponding number of days shown. Notify the Engineer 7 days prior to any work within the approximate location of a utility shown.

Utility Relocation and Department-Arranged Time for the Relocation

Utility	Location	Days
Telephone- AT&T	STA 108+30 LT 32.5	5
Telephone- AT&T	STA 112+57 LT 36.9	5
Telephone- AT&T	STA 125+40 RT 36.2	5
Telephone- AT&T	STA 125+95 RT 38.8	5
Telephone- AT&T	STA 127+28 RT 35.8	5
Telephone- AT&T	STA 129+14 RT 35.3	5
Telephone- AT&T	STA 129+30 LT 32.2	5
Telephone- AT&T	STA 129+73 RT 31.6	5
Telephone- AT&T	STA 159+00 RT 40.3	5
Telephone- AT&T	STA 159+92 RT 40.0	5
Telephone- AT&T	STA 171+20 LT 33.6	5
Telephone- AT&T	STA 171+29 RT 34.4	5
Telephone- AT&T	STA 171+93 RT 45.0	5
Telephone- AT&T	STA 173+40 LT 33.7	5
Telephone- AT&T	STA 175+70 LT 37.8	5
Telephone- AT&T	STA 182+50 TO STA 185+50 RT 40.0	5
Telephone- AT&T	STA 197+63 LT 33.9	5
		5

Gas-SouthWest Gas	STA 111+00 to 112+00 RT 33.3	5
Gas-SouthWest Gas	STA 124+86 Traverse	5
Gas-SouthWest Gas	STA 132+74 Traverse	5
Gas-SouthWest Gas	STA 169+60 Traverse	5
Gas-SouthWest Gas	STA 171+74 Traverse	5
Gas-SouthWest Gas	STA 177+67 Traverse	5
Gas-SouthWest Gas	STA 179+90 Traverse	5
Gas-SouthWest Gas	STA 183+70 RT 24.4	5
Gas-SouthWest Gas	STA 195+45 Traverse	5
Fiber Optic-Charter Communication	STA 107+90 RT 42.0	5
Fiber Optic-Charter Communication	STA 178+28 RT 29.9	5
Fiber Optic-Charter Communication	STA 178+40 LT 30.0	5
Electric-Sierra Pacific Power	STA 153+00 to 154+00 Rt	8
Electric-Sierra Pacific Power	STA 164+41 RT 44.0	5
Electric-Sierra Pacific Power	STA 197+80 LT 33.4	5
Sewer-South Tahoe Public Utility District	STA 178+31 Rt 33.0	5
Sewer-South Tahoe Public Utility District	STA 178+96 Rt 31.0	5
Water-South Tahoe Public Utility District	STA 192+33 Rt 34.2	5

Installation of the utilities shown in the following table requires coordination with your activities. Make the necessary arrangements with the utility company through the Engineer and submit a schedule:

1. Verified by a representative of the utility company
2. Allowing at least the time shown for the utility owner to complete its work

Utility Relocation and Contractor-Arranged Time for the Relocation

Utility	Utility Address	Location	Days
Fiber Optic-Charter Communications (Contractor shall expose conduit during trenching operations for relocation of utility)	1338 Centeville Road, Gardnerville, NV 89410	STA 108+30 LT 32.5	2
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 104+72 Lt 32.7	1
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 131+64 Rt 34.8	1
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 148+14 Lt 49.0	1
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 171+46 Rt 44.4	1

AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 177+15 Lt 34.4	1
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 195+20 Lt 36.1	1
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 196+74 Lt 35.6	1
AT&T-Telephone (Protect in place)	11012 West River Street P.O. Box 2696 Truckee, CA 96160	STA 199+85 Lt 36.3	1
Sewer-South Tahoe Public Utility District (Relocation of Sewer Force Main may be in conjunction with installation of drainage system at Fairway Ave.)	1275 Meadow Crest Drive, South Lake Tahoe, CA 96150	STA 184+30 to 184+60 RT 24.4	7
Electric-Sierra Pacific Power (Contractor shall complete necessary improvements prior to relocation of utility)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 124+76 RT 43.0	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 125+40 RT 36.2	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 136+25 Rt 40.2	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 139+40 Rt 35.1	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 148+14 Lt 42.0	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 148+20 Rt 33.5	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 158+96 Rt 45.3	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 159+02 Rt 33.6	1
Electric-Sierra Pacific Power (Contractor shall complete necessary improvements prior to relocation of utility)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 159+05 Rt 37.4	1
Electric-Sierra Pacific Power (Contractor shall complete necessary improvements prior to relocation of utility)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 159+86 RT 40.0	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 159+92 Rt 39.3	1

Electric-Sierra Pacific Power (Contractor shall complete necessary improvements prior to relocation of utility)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 159+97 RT 39.3	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 166+10 Lt 38.2	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 171+20 Lt 33.6	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 171+46 Rt 44.4	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 171+90 Rt 49.4	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 175+70 Lt37.8	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 177+15 Lt 34.4	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 177+39 Rt 38.5	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 177+56 Lt 30.5	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 183+42 Rt 36.4	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 184+17 RT 40.0	1
Electric-Sierra Pacific Power (Protect in Place)	933 Eloise Ave., South Lake Tahoe, CA 96150	STA 186+85 Rt 34.0	1
Water-South Tahoe Public Utility District (Protect in Place)	1275 Meadow Crest Drive, South Lake Tahoe, CA 96150	STA 171+77 Rt 40	1

10-1.02 WATER POLLUTION CONTROL

GENERAL

Summary

Discharges of storm water from the project must comply with NPDES General Permit for "Updated Waste Discharge Requirements and National Discharge Elimination System General Permit No. CAG616002" (Order No. R6T-2005-0007) hereinafter call the "Tahoe Permit". Manage work activities to reduce the discharge of pollutants to surface waters, groundwater, or municipal separate storm sewer systems including work items shown in the Bid Item List for:

1. Prepare Storm Water Pollution Prevention Plan. SWPPP preparation includes obtaining SWPPP acceptance, amending the SWPPP, preparing a CSMP and a SAP, and monitoring and inspecting WPC practices at the job site.
2. Storm Water Annual Report. Storm Water Annual Report preparation includes certifications, monitoring and inspection results, and obtaining Storm Water Annual Report acceptance.
3. Storm Water Sampling and Analysis Day. Storm Water Sampling and Analysis Day includes reporting of storm water quality per qualifying rain event. The work includes preparation, collection, analysis, and reporting of storm water samples for turbidity, pH, and other constituents.
4. Rain Event Action Plan. REAP preparation includes preparing and submitting REAP forms and monitoring weather forecasts.

Do not start work until:

1. SWPPP is accepted
2. WDID is issued
3. SWPPP review requirements have been fulfilled. If the RWQCB requires time for SWPPP review, allow 30 days for the RWQCB to review the SWPPP as specified under "Submittals" of these special provisions.

Definitions and Abbreviations

active and inactive areas: (1) Active areas have soil disturbing work activities occurring at least once within 14 days, and (2) Inactive areas are areas that have not been disturbed for at least 15 days.

BMPs: Best Management Practices are water pollution control practices.

construction phase: Construction phases are (1) Highway Construction including work activities for building roads and structures, (2) Plant Establishment including maintenance on vegetation installed for final stabilization, and (3) Suspension where work activities are suspended and areas are inactive.

CSMP: Construction Site Monitoring Program.

NEL: Numeric Effluent Limit.

NPDES: National Pollutant Discharge Elimination System.

NOI: Notice of Intent.

normal working hours: The hours you normally work on this project.

Preparation Manual: The Department's "Storm Water Pollution Prevention Plan and Water Pollution Control Program Preparation Manual."

QSD: Qualified SWPPP Developer.

QSP: Qualified SWPPP Practitioner.

qualified rain event: A qualified rain event is a storm that produces at least 0.5 inch of precipitation with a 48 hour or greater period between storms. Qualified rain events must produce runoff resulting in a direct discharge to receiving waters.

REAP: Rain Event Action Plan.

RWQCB: Regional Water Quality Control Board.

SAP: Sampling and Analysis Plan.

SSC: Suspended Sediment Concentration.

SWRCB: State Water Resources Control Board.

SWPPP: Storm Water Pollution Prevention Plan.

WDID: Waste Discharge Identification Number.

WPC: Water Pollution Control.

WPC Manager: Water Pollution Control Manager. The WPC Manager implements water pollution control work described in the SWPPP and oversees revisions and amendments to the SWPPP.

Submittals

Within 20 days after contract approval, start the following process for SWPPP acceptance:

1. Submit 3 copies of the SWPPP and allow 20 days for the Engineer's review. If revisions are required, the Engineer provides comments and specifies the date that the review stopped.
2. Change and resubmit the SWPPP within 15 days of receipt of the Engineer's comments. The Engineer's review resumes when the complete SWPPP is resubmitted.
3. When the Engineer accepts the SWPPP, submit an electronic and 4 printed copies of the accepted SWPPP.
4. If the RWQCB reviews the accepted SWPPP, the Engineer submits one copy of the accepted SWPPP to the RWQCB for their review and comment. RWQCBs requiring time to review SWPPPs include:
 - 4.1. Lahontan for projects in the Lake Tahoe Hydrologic Unit and the Mammoth Lakes Hydrologic Unit
5. If the Engineer requests changes to the SWPPP based on RWQCB comments, amend the SWPPP within 10 days.

Submit:

1. Storm water training records including training dates and subjects for employees and subcontractors. Include dates and subjects for ongoing training, including tailgate meetings.
2. Employee training records:
 - 2.1. Within 5 days of SWPPP acceptance for existing employees
 - 2.2. Within 5 days of training for new employees
 - 2.3. At least 5 days before subcontractors start work for subcontractor's employees

Prepare a Storm Water Annual Report for the reporting period from October 16th to October 15th:

1. If construction occurs from October 16th through October 15th, submit the report no later than October 30th for the prior reporting period
2. If construction ends before October 15th, submit the report within 15 days after contract acceptance

Submit the Storm Water Annual Report as follows:

1. Submit 2 copies of the Storm Water Annual Report and allow 10 days for the Engineer's review. If revisions are required, the Engineer provides comments and specifies the date that the review stopped.
2. Change and resubmit the Storm Water Annual Report within 5 days of receipt of the Engineer's comments. The Engineer's review resumes when the complete Storm Water Annual Report is resubmitted.
3. When the Engineer accepts the Storm Water Annual Report, insert the WPC Manager's signed certification and the Engineer's signed certification.

Submit one electronic copy and 2 printed copies of the accepted Storm Water Annual Report.

Submit as required:

1. Visual Monitoring Reports
2. Inspection Reports
3. BMP Status Report

At least 5 days before operating any construction support facility, submit:

1. A plan showing the location and quantity of WPC practices associated with the construction support facility
2. A copy of the NOI approved by the RWQCB and the SWPPP approved by the RWQCB if you will be operating a batch plant or a crushing plant under the General Industrial Permit

Quality Control and Assurance

Training

Provide storm water training for:

1. Project managers
2. Supervisory personnel
3. Employees involved with WPC work

Train all employees, including subcontractor's employees, in the following subjects:

1. WPC rules and regulations
2. Implementation and maintenance for:
 - 2.1. Temporary Soil Stabilization
 - 2.2. Temporary Sediment Control
 - 2.3. Tracking Control
 - 2.4. Wind Erosion Control
 - 2.5. Material pollution prevention and control
 - 2.6. Waste management
 - 2.7. Non-storm water management
 - 2.8. Identifying and handling hazardous substances
 - 2.9. Potential dangers to humans and the environment from spills and leaks or exposure to toxic or hazardous substances

Employees must receive initial WPC training before working on the job site.

Conduct weekly training meetings covering:

1. WPC BMP deficiencies and corrective actions
2. BMPs that are required for work activities during the week
3. Spill prevention and control
4. Material delivery, storage, use, and disposal
5. Waste management
6. Non-storm water management procedures

Training for personnel to collect water quality samples must include:

1. SAP review
2. Health and safety review
3. Sampling simulations

If you operate construction support facilities, protect storm water systems or receiving waters from the discharge of potential pollutants by using WPC practices.

Construction support facilities include:

1. Staging areas
2. Storage yards for equipment and materials
3. Mobile operations
4. Batch plants for PCC and HMA
5. Crushing plants for rock and aggregate
6. Other facilities installed for your convenience such as haul roads

If you operate a batch plant to manufacture PCC, HMA, or other material; or a crushing plant to produce rock or aggregate; obtain coverage under the General Industrial General Permit. You must be covered under the General Industrial Permit for batch plants and crushing plants located:

1. Outside of the job site
2. Within the job site that serve one or more contracts

Discharges from manufacturing facilities such as batch plants must comply with the general waste discharge requirements for Order No. 97-03-DWQ, NPDES General Permit No. CAS000001, issued by the SWRCB for "Discharge of Stormwater Associated with Industrial Activities Excluding Construction Activities." For the General Industrial Permit, go to:

<http://www.waterboards.ca.gov/>

You may obtain copies of the Preparation Manual from the Publication Distribution Unit. The mailing address for the Publication Distribution Unit is:

State of California
Department of Transportation
Publication Distribution Unit
1900 Royal Oaks Drive
Sacramento, California 95815
Telephone: (916) 445-3520

The Preparation Manual and other WPC references are available at the Department's "Construction Storm Water and Water Pollution Control" Web site. For the Web site, go to:

<http://www.dot.ca.gov/hq/construc/stormwater/stormwater1.htm>

Water Pollution Control Manager

Assign one WPC Manager to implement the SWPPP. The WPC Manager must comply with the qualifications for a QSP and a QSD under NPDES General Permit for "Storm Water Discharges Associated with Construction and Land Disturbance Activities" (Order No. 2009-0009-DWQ, NPDES No. CAS000002) hereinafter called the "Construction General Permit." You may assign a different QSD to prepare the SWPPP.

The QSD must have the following qualifications:

1. Department approved storm water management training described in the Department's "Construction Storm Water and Water Pollution Control" web site
2. Registration or certification described in the Construction General Permit

The QSP must meet the qualifications of the QSD or have the following certifications:

1. Department approved storm water management training described in the Department's "Construction Storm Water and Water Pollution Control" web site
2. Certification described in the Construction General Permit

At the job site, the WPC Manager must:

1. Be responsible for WPC work
2. Be the primary contact for WPC work
3. Oversee the maintenance of WPC practices
4. Oversee and enforce hazardous waste management practices
5. Have the authority to mobilize crews to make immediate repairs to WPC practices
6. Ensure that all employees have current water pollution control training
7. Implement the accepted SWPPP and amend the SWPPP when required

WPC Manager must oversee:

1. Inspections of WPC practices identified in the SWPPP
2. Inspections and reports for visual monitoring
3. Preparation and implementation of REAPs
4. Sampling and analysis
5. Preparation and submittal of:
 - 5.1. SWPPP annual certification
 - 5.2. BMP status reports
 - 5.3. Annual reports

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

General

SWPPP work includes preparing a SWPPP including a CSMP, obtaining SWPPP acceptance, amending the SWPPP, inspecting and reporting on WPC practices at the job site. The SWPPP must comply with the Preparation Manual and the Tahoe Permit. The SWPPP must be submitted in place of the water pollution control program under Section 7-1.01G, "Water Pollution," of the Standard Specifications.

You may request, or the Engineer may order, changes to the WPC work. Changes may include the addition of new WPC practices. Additional WPC work will be paid for as extra work under Section 4-1.03D, "Extra Work," of the Standard Specifications.

The SWPPP must include sections as follows:

1. Schedule
2. CSMP
3. REAP
4. Adherence to Effluent Standards for NELs

The SWPPP must include WPC practices for:

1. Storm water and non-stormwater from areas outside of the job site related to project work activities such as:
 - 1.1. Staging areas
 - 1.2. Storage yards
 - 1.3. Access roads
2. Activities or mobile operations related to contractor obtained NPDES permits
3. Construction support facilities

The SWPPP must include a copy of permits obtained by the Department such as Fish & Game permits, US Army Corps of Engineers permits, RWQCB 401 Certifications, and RWQCB Waste Discharge Requirements for Aerially Deposited Lead Reuse.

Amend the SWPPP annually and resubmit it by July 15th.

Amend the SWPPP if:

1. Changes in work activities could affect the discharge of pollutants
2. WPC practices are added by change order work
3. WPC practices are added at your discretion
4. Changes in the amount of disturbed soil are substantial
5. Objectives for reducing or eliminating pollutants in storm water discharges have not been achieved
6. There is a Tahoe Permit violation

Whenever you amend the SWPPP, follow the same process specified for SWPPP acceptance. Retain a printed copy of the accepted SWPPP at the job site.

SWPPP Schedule

The SWPPP schedule must:

1. Describe when work activities will be performed that could cause the discharge of pollutants into storm water
2. Describe WPC practices associated with each construction phase
3. Identify soil stabilization and sediment control practices for disturbed soil areas

Construction Site Monitoring Program (CSMP)

General

The QSD must prepare a CSMP as part of the SWPPP. The CSMP must be developed before starting work and be revised to reflect current construction activities as necessary.

The CSMP must include sections as follows:

1. Visual Monitoring
2. SAP for Non-Visible Pollutants
3. SAP for sediment and turbidity
4. SAP for pH

Visual Monitoring

The WPC Manager must oversee the performance of visual inspections for qualifying rain events.

For each qualifying rain event, perform visual inspections and record observations during normal working hours as follows:

1. Record the time, date, and rain gauge reading
2. Observe:
 - 2.1. Within 2 days before the storm:
 - 2.1.1. Drainage areas for spills, leaks, or uncontrolled pollutants
 - 2.1.2. Proper implementation of WPC practices
 - 2.1.3. Storm water storage areas for leaks and adequate freeboard
 - 2.2. Every 24 hours during the storm:
 - 2.2.1. WPC practices for effective operation
 - 2.2.2. WPC practices needing maintenance and repair
 - 2.3. Within 2 days after the storm event:
 - 2.3.1. Discharge locations
 - 2.3.2. WPC practices to evaluate the design, implementation, and effectiveness
 - 2.3.3. To identify where additional WPC practices may be needed

Perform non-stormwater discharge visual inspections as follows:

1. Perform inspections:
 - 1.1. At the end of each work day during active construction
 - 1.2. Monthly during inactive periods such as winter shutdown
2. Observe flowing and contained storm water for the presence of floating and suspended materials, sheen on the surface, discoloration, turbidity, odors, and sources of observed pollutants
3. Observe the job site for the presence of authorized and unauthorized non-stormwater discharges and their sources

The WPC Manager must prepare visual inspection reports that include the following:

1. Name of personnel performing the inspection, inspection date, and date inspection report completed
2. Storm and weather conditions
3. Locations and observations
4. Corrective actions taken

Maintain visual inspections reports at the job site as part of the SWPPP.

Sampling and Analysis Plan (SAP)

General

Include a SAP in the CSMP to monitor the effectiveness of WPC practices.
The SAP must comply with:

1. Preparation Manual
2. Monitoring and Reporting Program of the Tahoe Permit

For the Monitoring and Reporting Program of the Tahoe Permit, go to:

http://www.waterboards.ca.gov/lahtontan/water_issues/available_documents/misc/const_npdes_order_r6t_205-0007_final.pdf

Assign trained personnel to collect water quality samples. Document their training in the SAP.
Describe the following water quality sampling procedures in the SAP:

1. Sampling equipment
2. Sample preparation
3. Collection
4. Field measurement methods
5. Analytical methods
6. Quality assurance and quality control
7. Sample preservation and labeling
8. Collection documentation
9. Sample shipping
10. Chain of custody
11. Data management and reporting
12. Precautions from the construction site health and safety plan
13. Laboratory selection and certifications

Whenever assigned field personnel take samples, comply with the equipment manufacturer's recommendation for collection, analysis methods, and equipment calibration.

Samples taken for laboratory analysis must follow water quality sampling procedures and be analyzed by a State-certified laboratory under 40 CFR Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants."

The SAP must identify the State-certified laboratory, sample containers, preservation requirements, holding times, and analysis method. For a list of State-certified laboratories, go to:

<http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx>

Include procedure for sample collection during precipitation.

Retain water quality sampling documentation and analytical results with the SWPPP at the job site.

Show pollutant sampling locations on SWPPP drawings.

If discharges or sampling locations change because of changed work activities or knowledge of site conditions, amend the SAP.

Include procedures for collecting and analyzing at least 3 samples for each day of each qualifying rain event. Describe the collection of effluent samples at all locations where the storm water is discharged off-site.

Analytical Results and Evaluation

Submit an electronic copy (in file format .xls, .txt, .csv, .dbs, or .mdb) and a printed copy of water quality analytical results, and quality assurance and quality control within 48 hours of field analysis sampling, and within 30 days for laboratory analysis. Also provide an evaluation of whether the downstream samples show levels of the tested parameter that are higher than the control sample.

Electronic water quality analysis results must have the following information:

1. Sample identification number
2. Contract number
3. Constituent
4. Reported value
5. Analytical method
6. Method detection limit
7. Reported limit

SAP for Non-Visible Pollutants

The SAP must include a description of the sampling and analysis strategy for monitoring non-visible pollutants.

The SAP must identify potential non-visible pollutants present at the job site associated with any of the following:

1. Construction materials and waste
2. Existing contamination due to historical site usage
3. Application of soil amendments, including soil stabilization materials, with the potential to change pH or contribute toxic pollutants to storm water

SWPPP drawings must show the locations planned for storage and use of potential non-visible pollutants.

The SAP must include sampling procedures for the following conditions when observed during a storm water visual inspection. For each of the following, collect at least one sample for each qualifying storm event:

1. Materials or waste containing potential non-visible pollutants that are not stored under watertight conditions
2. Materials or waste containing potential non-visible pollutants that are stored under watertight conditions, but a breach, leakage, malfunction, or spill is observed; the leak or spill has not been cleaned up before precipitation; and material or waste could discharge non-visible pollutants to surface waters or drainage system
3. Chemical applications, including fertilizer, pesticide, herbicide, methyl methacrylate concrete sealant, or non-pigmented curing compound used during precipitation or within 24 hours preceding precipitation, and could discharge pollutants to surface waters or drainage system
4. Applied soil amendments, including soil stabilization materials that could change pH levels or contribute toxic pollutants to storm water runoff and discharge pollutants to surface waters or drainage system, unless available independent test data indicates acceptable concentrations of non-visible pollutants in the soil amendment
5. Storm water runoff from an area contaminated by historical usage of the site that could discharge pollutants to surface waters or drainage systems

The SAP must provide sampling procedures and schedule for:

1. Sample collection during the first 2 hours of each rain event producing runoff that directly discharges into receiving waters
2. Sample collection during normal working hours
3. Each non-visible pollutant source
4. Uncontaminated control sample

The SAP must identify locations for sampling downstream and control samples, and reasons for selecting those locations. Select control sample locations where the sample will not come in contact with materials, waste, or areas associated with potential non-visible pollutants or disturbed soil areas.

SAP for Sediment and Turbidity

Sample and analyze for turbidity:

Parameter	Test Method	Detection Limit (Min)	Unit
Turbidity	Field test with calibrated portable instrument	1	NTU

If the turbidity NEL has been exceeded, sample and analyze for SSC at the discharge point and in the receiving waters:

Parameter	Test Method	Detection Limit (Min)	Unit
SSC	ASTM Method D3977-97	5	Mg/L

SAP for pH

Sample and analyze for pH:

Parameter	Test Method	Detection Limit (Min)	Unit
pH	Field test with calibrated portable instrument	0.2	pH units

SAP for Receiving Waters

Describe procedures for obtaining samples from representative and accessible locations:

1. Upstream of the discharge point
2. Downstream of the discharge point

Show receiving water sampling locations on SWPPP drawings.

If there are several discharge points, describe procedures for obtaining samples from a single upstream and a single downstream location.

Rain Event Action Plan (REAP)

REAP work includes preparing and submitting REAP forms and monitoring weather forecasts. The WPC Manager must submit a REAP to protect the job site at least 48 hours before a predicted rain event.

Prepare a REAP when the National Weather Service is predicting at least a 50 percent probability of precipitation within 72 hours.

For the REAP, use approved forms and include:

1. Site location
2. Risk level, if applicable
3. Contact information including 24-hour emergency phone numbers for:
 - 3.1. WPC Manager
 - 3.2. Erosion and sediment control providers or subcontractors
 - 3.3. Storm water sampling providers or subcontractors
4. Storm Information
5. Construction phase information for:
 - 5.1. Highway Construction including active and inactive areas for work activities for building roads and structures
 - 5.2. Plant Establishment including maintenance on vegetation installed for final stabilization where areas are inactive
 - 5.3. Suspension where work activities are suspended and areas are inactive

6. Construction phase information including:
 - 6.1. Construction activities
 - 6.2. Subcontractors and trades on the job site
 - 6.3. Pre-storm activities including:
 - 6.3.1. Responsibilities of the WPC Manager
 - 6.3.2. Responsibilities of the crew and crew size
 - 6.3.3. Stabilization for active and inactive disturbed soil areas
 - 6.3.4. Stockpile management
 - 6.3.5. Corrective actions taken for deficiencies identified during pre-storm visual inspection
 - 6.4. Activities to be performed during storm events including:
 - 6.4.1. Responsibilities of the WPC Manager
 - 6.4.2. Responsibilities of the crew and crew size
 - 6.4.3. BMP maintenance and repair
 - 6.5. Description of flood contingency measures

You must have the REAP onsite at least 24 hours before a predicted rain event. A printed copy of each REAP must be at the job site as part of the SWPPP.

Implement the REAP including mobilizing crews to complete activities no later than 24 hours before precipitation occurs.

IMPLEMENTATION REQUIREMENTS

SWPPP Implementation

Obtain, install, and maintain a rain gauge at the job site. Observe and record daily precipitation.

Monitor the National Weather Service Forecast Office on a daily basis. For forecasts, go to:

<http://www.srh.noaa.gov/forecast>

Whenever you or the Engineer identifies a deficiency in the implementation of the accepted SWPPP:

1. Correct the deficiency immediately, unless the Engineer agrees to a later date for making the correction
2. Correct the deficiency before precipitation occurs

If you fail to correct the deficiency by the agreed date or before the onset of precipitation, the Department may correct the deficiency and deduct the cost of correcting the deficiency from payment.

Continue SWPPP implementation during any temporary suspension of work activities.

Install WPC practices within 15 days or before predicted precipitation, whichever occurs first.

Numeric Effluent Limits (NELs)

The project is subject to NELs:

Parameter	Test Method	Detection Limit (Min)	Unit	Numeric Effluent Limit (Maximum Concentration for Discharge to Land Treatment Systems)	Numeric Effluent Limit (Maximum Concentration for Discharge to Storm Drain Systems and Receiving Waters)
pH	Field test with calibrated portable instrument	0.2	pH units	Lower NEL = 6.0 Upper NEL = 9.0	Lower NEL = 6.0 Upper NEL = 9.0
Turbidity	Field test with calibrated portable instrument	1	NTU	200 NTU	20 NTU

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The storm event daily average for storms up to the 20-year, 1-hour storm, must not exceed the NELs.

Storm Water Sampling and Analysis Day

Storm Water Sampling and Analysis Day work includes preparation, collection, analysis, and reporting of storm water samples for turbidity, pH, and other constituents. When there is a qualified rain event that produces runoff, comply with the project's SAP for preparation, collection, analysis, and reporting of storm water samples. Collect:

1. Samples for each non-visible pollutant source and a corresponding uncontaminated control sample
2. Samples for turbidity, pH, and other constituents as specified
3. At least 3 samples for each day of each qualifying rain event
4. Samples for all locations where the storm water is discharged off-site

Perform sample collection during:

1. First 2 hours of each qualified rain event that produces runoff
2. Normal working hours

You are not required to physically collect samples during dangerous weather conditions such as flooding or electrical storms.

If downstream samples show increased levels, assess WPC practices, site conditions, and surrounding influences to determine the probable cause for the increase.

Inspection

The WPC Manager must oversee inspections for WPC practices identified in the SWPPP:

1. Before a forecasted storm
2. After precipitation that causes site runoff
3. At 24-hour intervals during extended precipitation
4. On a predetermined schedule:
 - 4.1. At the end of each work day during periods of active construction
 - 4.2. At least once per month during periods of inactivity such as winter shutdown

The WPC Manager must oversee daily inspections of:

1. Storage areas for hazardous materials and waste
2. Hazardous waste disposal and transporting activities
3. Hazardous material delivery and storage activities
4. WPC practices specified under "Construction Site Management" of these special provisions

The WPC Manager must use the Storm Water Site Inspection Report provided in the Preparation Manual. The WPC Manager must prepare BMP status reports that include the following:

1. Location and quantity of installed WPC practices
2. Location and quantity of disturbed soil for the active or inactive areas

Within 24 hours of finishing the weekly inspection, the WPC Manager must submit:

1. Copy of the completed site inspection report
2. Copy of the BMP status report

REPORTING REQUIREMENTS

Storm Water Annual Report

Storm Water Annual Report work includes certifications, monitoring and inspection results, and obtaining Storm Water Annual Report acceptance. The WPC Manager must prepare a Storm Water Annual Report. The report must:

1. Use an approved report format
2. Include project information including description and location
3. Include storm water monitoring information including:
 - 3.1. Summary and evaluation of sampling and analysis results including laboratory reports
 - 3.2. Analytical methods, reporting units, detections limits for analytical parameters
 - 3.3. Summary of corrective actions
 - 3.4. Identification of corrective actions or compliance activities that were not implemented
 - 3.5. Summary of violations
 - 3.6. Names of individuals performing storm water inspections and sampling
 - 3.7. Logistical information for inspections and sampling including location, date, time, and precipitation
 - 3.8. Visual observations and sample collection records
4. Include documentation on training for:
 - 4.1. Individuals responsible for NPDES permit compliance
 - 4.2. Individuals responsible for BMP installation, inspection, maintenance, and repair
 - 4.3. Individuals responsible for preparing, revising, and amending the SWPPP

Reporting of Discharge

If the following occur, notify the Engineer within 6 hours:

1. You identify discharges into receiving waters or storm drain systems causing or potentially causing pollution
2. An NEL is exceeded
3. The project receives a written notice or order from the RWQCB or another regulatory agency

No later than 48 hours after the conclusion of a storm event resulting in a discharge, a non-stormwater discharge, or receiving a written notice or order, submit:

1. Date, time, location, and nature of the activity, type of discharge and quantity, and the cause of the notice or order
2. WPC practices used before the discharge, or before receiving the notice or order
3. Description of WPC practices and corrective actions taken to manage the discharge or cause of the written notice or order

Submit all sampling results to the Engineer no later than 48 hours after the conclusion of a storm event.

PAYMENT

The contract lump sum price paid for prepare storm water pollution prevention plan includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparing, obtaining acceptance of, and amending the SWPPP and CSMP, inspecting water pollution control practices, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

For projects with 60 working days or less, payments for SWPPP are made as follows:

1. After the Engineer accepts the SWPPP, the Department includes up to 75 percent of the bid item price in the monthly progress estimate
2. After contract acceptance, the Department pays for the remaining percentage of the bid item price

For projects with more than 60 working days, payments for SWPPP are made as follows:

1. After the Engineer accepts the SWPPP, the Department includes up to 50 percent of the bid item price in the monthly progress estimate
2. The Department pays 40 percent of the bid item price over the life of the contract
3. After contract acceptance, the Department pays for the remaining 10 percent of the bid item

The Department pays \$500 for each Rain Event Action Plan submitted. The contract unit price paid for Rain Event Action Plan includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparation and submittal of REAP forms, and monitoring weather forecasts as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The Department does not adjust payment for an increase or decrease in the quantity of rain event action plans submitted. Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications does not apply.

The Department pays \$2,000 for each Storm Water Annual Report submitted. The contract unit price paid for Storm Water Annual Report includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparation and submittal of Storm Water Annual Report as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The Department does not adjust payment for an increase or decrease in the quantity of storm water annual reports submitted. Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications does not apply.

The work to complete the final Storm Water Annual Report contract item is excluded from Section 7-1.17, "Acceptance of Contract," of the Standard Specifications.

The contract unit price paid for storm water sampling and analysis day includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparation, collection, analysis, and reporting of storm water samples per qualifying rain event as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The Department does not adjust payment for an increase or decrease in the quantity of storm water sampling and analysis day. Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications does not apply.

You may request or the Engineer may order laboratory analysis of storm water samples. Laboratory analysis of storm water samples will be paid for as extra work under Section 4-1.03D, "Extra Work," of the Standard Specifications.

The Department does not pay for the preparation, collection, laboratory analysis, and reporting of storm water samples for non-visible pollutants if WPC practices are not implemented before precipitation or if a failure of a WPC practice is not corrected before precipitation.

The Department does not pay for implementation of WPC practices in areas outside the highway right-of-way not specifically provided for in the drawings or in the special provisions.

The Department does not pay for WPC practices installed at your construction support facilities.

WPC practices for which there are separate bid items of work are measured and paid for as those bid items of work.

For each failure to submit a completed Storm Water Annual Report, the Department withholds \$10,000. This withhold is in addition to other withholds under Section 9-1.07E(3) "Performance Failure Withholds," of the Standard Specifications.

Each failure to comply with any part of these special provisions and each failure to implement water pollution control practices are considered separate performance failures.

Chart No. 1 Freeway/Expressway Lane Requirements																									
County: ED					Route/Direction: 50/EB-WB										PM: 77.3/79.3										
Closure Limits: ED-50 PM 77.3/79.3																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	1	1	1	1	1	1	1	1										1	1	1	1
Fridays	1	1	1	1	1	1	1	1	1	1															
Saturdays																									
Sundays																									

Legend:

1 Provide at least one through traffic lane open in each direction of travel (Cross street intersections may be controlled by flaggers)

Work permitted within project right of way where shoulder, continuous two-way left turn lane, or lane closure is not required.

REMARKS:
This chart applies from July 1st to Labor Day.
2 existing lanes available in each direction of US 50 (South Lake Tahoe Blvd)
See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.

Chart No. 2 Freeway/Expressway Lane Requirements																									
County: ED					Route/Direction: 50/EB-WB										PM: 77.3/79.3										
Closure Limits: ED-50 PM 77.3/79.3																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fridays	1	1	1	1	1	1	1	1	1	1	1														
Saturdays																									
Sundays																									

Legend:

1 Provide at least one through traffic lane open in each direction of travel (Cross street intersections may be controlled by flaggers)

Work permitted within project right of way where shoulder, continuous two-way left turn lane, or lane closure is not required.

REMARKS:
This chart applies from May 1st to June 30th and the day after Labor Day to April 30th
2 existing lanes available in each direction of US 50 (South Lake Tahoe Blvd)
See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions.

10-1.295 TEMPORARY PAVEMENT DELINEATION

Temporary pavement delineation shall be furnished, placed, maintained, and removed in conformance with the provisions in Section 12-3.01, "General," of the Standard Specifications and these special provisions. Nothing in these special provisions shall be construed as reducing the minimum standards specified in the California MUTCD or as relieving the Contractor from the responsibilities specified in Section 7-1.09, "Public Safety," of the Standard Specifications.

GENERAL

When the work causes obliteration of pavement delineation, temporary or permanent pavement delineation shall be in place before opening the traveled way to public traffic. Laneline or centerline pavement delineation shall be provided for traveled ways open to public traffic. On multilane roadways (freeways and expressways) edgeline delineation shall be provided for traveled ways open to public traffic.

The Contractor shall perform the work necessary to establish the alignment of temporary pavement delineation, including required lines or markers. Surfaces to receive application of paint or removable traffic tape temporary pavement delineation shall be dry and free of dirt and loose material. Temporary pavement delineation shall not be applied over existing pavement delineation or other temporary pavement delineation. Temporary pavement delineation shall be maintained until superseded or replaced with a new pattern of temporary pavement delineation or permanent pavement delineation, or as determined by the Engineer.

Temporary pavement markers, including underlying adhesive, and removable traffic tape that are applied to the final layer of surfacing or existing pavement to remain in place or that conflicts with a subsequent or new traffic pattern for the area shall be removed when no longer required for the direction of public traffic, as determined by the Engineer.

TEMPORARY LANELINE AND CENTERLINE DELINEATION

When lanelines or centerlines are obliterated and temporary pavement delineation to replace the lines is not shown on the plans, the minimum laneline and centerline delineation to be provided for that area shall be temporary pavement markers placed at longitudinal intervals of not more than 24 feet. The temporary pavement markers shall be the same color as the laneline or centerline the pavement markers replace. Temporary pavement markers shall be, at the option of the Contractor, one of the temporary pavement markers listed for short term day/night use (14 days or less) or long term day/night use (180 days or less) in "Prequalified and Tested Signing and Delineation Materials" of these special provisions. The temporary pavement markers shall be placed in conformance with the manufacturer's instructions. Temporary pavement markers for long term day/night use (180 days or less) shall be cemented to the surfacing with the adhesive recommended by the manufacturer, except epoxy adhesive shall not be used to place the temporary pavement markers in areas where removal of the temporary pavement markers will be required.

Temporary laneline or centerline delineation consisting entirely of temporary pavement markers listed for short term day/night use (14 days or less), shall be placed on longitudinal intervals of not more than 24 feet and shall be used for a maximum of 14 days on lanes opened to public traffic. Before the end of the 14 days the permanent pavement delineation shall be placed. If the permanent pavement delineation is not placed within the 14 days, the Contractor shall replace the temporary pavement markers and provide additional temporary pavement delineation and shall bear the cost thereof. The additional temporary pavement delineation to be provided shall be equivalent to the pattern specified for the permanent pavement delineation for the area, as determined by the Engineer.

Where "no passing" centerline pavement delineation is obliterated, the following "no passing" zone signing shall be installed before opening the lanes to public traffic. W20-1 (ROAD WORK AHEAD) signs shall be installed from 1,000 feet to 2,000 feet in advance of "no passing" zones. R4-1 (DO NOT PASS) signs shall be installed at the beginning and at every 2,000-foot interval within "no passing" zones. For continuous zones longer than 2 miles, W7-3a or W71(CA) (NEXT _____ MILES) signs shall be installed beneath the W20-1 signs installed in advance of "no passing" zones. R4-2 (PASS WITH CARE) signs shall be installed at the end of "no passing" zones. The exact location of "no passing" zone signing will be as determined by the Engineer and shall be maintained in place until permanent "no passing" centerline pavement delineation has been applied. The signing for "no passing" zones, shall be removed when no longer required for the direction of public traffic. The signing for "no passing" zones shall conform to the provisions in "Construction Area Signs" of these special provisions, except for payment.

TEMPORARY EDGELINE DELINEATION

On multilane roadways (freeways and expressways), when edgelines are obliterated and temporary pavement delineation to replace those edgelines is not shown on the plans, the edgeline delineation to be provided for those areas adjacent to lanes open to public traffic shall be as follows:

1. Temporary pavement delineation for right edgelines shall, at the option of the Contractor, consist of either a solid 4-inch wide traffic stripe tape of the same color as the stripe it replaces, traffic cones, portable delineators or channelizers placed at longitudinal intervals not to exceed 100 feet.
2. Temporary pavement delineation for left edgelines shall, at the option of the Contractor, consist of either solid 4-inch wide traffic stripe tape of the same color as the stripe it replaces, traffic cones, portable delineators or channelizers placed at longitudinal intervals not to exceed 100 feet or temporary pavement markers placed at longitudinal intervals of not more than 6 feet.

Where removal of the 4-inch wide traffic stripe will not be required, painted traffic stripe conforming to the provisions of "Temporary Traffic Stripe (Paint)" of these special provisions may be used.

The lateral offset for traffic cones, portable delineators or channelizers used for temporary edgeline delineation shall be as determined by the Engineer. If traffic cones or portable delineators are used as temporary pavement delineation for edgelines, the Contractor shall provide personnel to remain at the project site to maintain the cones or delineators during the hours of the day that the portable delineators are in use.

Channelizers used for temporary edgeline delineation shall be the surface mounted type and shall be orange in color. Channelizer bases shall be cemented to the pavement in the same manner provided for cementing pavement markers to pavement in "Pavement Markers" of these special provisions, except epoxy adhesive shall not be used to place channelizers on the top layer of pavement. Channelizers shall be, at the Contractor's option, one of the surface mount types (36 inch) listed in "Prequalified and Tested Signing and Delineation Materials" of these special provisions.

Temporary edgeline delineation shall be removed when no longer required for the direction of public traffic as determined by the Engineer.

TEMPORARY TRAFFIC STRIPE (PAINT)

The painted temporary traffic stripe shall be complete in place at the location shown before opening the traveled way to public traffic. Removal of painted temporary traffic stripe will not be required.

Temporary painted traffic stripe shall conform to the provisions in "Paint Traffic Stripe and Pavement Marking" of these special provisions, except for payment. At the option of the Contractor, either one or 2 coats shall be applied regardless of whether on new or existing pavement.

TEMPORARY PAVEMENT MARKING (PAINT)

Temporary pavement marking consisting of painted pavement marking shall be applied and maintained at the locations shown on the plans. The painted temporary pavement marking shall be complete in place at the location shown before opening the traveled way to public traffic. Removal of painted temporary pavement marking will not be required.

Temporary painted pavement marking shall conform to the provisions in "Paint Traffic Stripe and Pavement Marking" of these special provisions, except for payment. At the option of the Contractor, either one or 2 coats shall be applied regardless whether on new or existing pavement.

At the Contractor's option, temporary removable pavement marking tape or permanent pavement marking tape listed in "Prequalified and Tested Signing and Delineation Materials" of these special provisions may be used instead of painted temporary pavement markings. When pavement marking tape is used, regardless of which type of tape is placed, the tape will be measured and paid for by the square foot as temporary pavement marking (paint).

MEASUREMENT AND PAYMENT

Full compensation for furnishing, placing, and maintaining temporary traffic stripe (paint) and temporary pavement marking (paint), as shown on the plans, shall be considered as included in the contract prices paid for the items of work that obliterated the pavement delineation and no separate payment will be made therefor.

Full compensation for furnishing, placing, maintaining, and removing the temporary pavement markers (including underlying adhesive, layout (dribble) lines to establish alignment of temporary pavement markers or used for temporary laneline and centerline delineation and signing specified for "no passing" zones) for those areas where temporary laneline and centerline delineation is not shown on the plans and for providing equivalent patterns of permanent traffic lines for those areas when required, shall be considered as included in the contract prices paid for the items of work that obliterated the laneline and centerline pavement delineation and no separate payment will be made therefor.

Full compensation for furnishing, placing, maintaining, and removing temporary edgeline delineation not shown on the plans shall be considered as included in the contract prices paid for the items of work that obliterated the edgeline pavement delineation and no separate payment will be made therefor. The quantity of channelizers used as temporary edgeline delineation will not be included in the quantity of channelizer (surface mounted) to be paid for.

10-1.805 PAINT TRAFFIC STRIPE AND PAVEMENT MARKING

Painted traffic stripes (traffic lines) and pavement markings shall be applied in conformance with the provisions in Section 84, "Traffic Stripes and Pavement Markings," of the Standard Specifications and these special provisions.

Traffic stripe and pavement marking paint shall conform to the requirements in State Specification No. PTWB-01.

The color of the painted traffic stripes and pavement markings shall conform to the requirements in ASTM Designation: D 6628-01.

Retroreflectivity of the paint traffic stripes and pavement markings shall conform to the requirements in ASTM Designation: D 6359-99. White painted traffic stripes and pavement markings shall have a minimum initial retroreflectivity of $250 \text{ mcd m}^{-2} \text{ lx}^{-1}$. Yellow painted traffic stripes and pavement markings shall have a minimum initial retroreflectivity of $150 \text{ mcd m}^{-2} \text{ lx}^{-1}$.

At the option of the Contractor, permanent traffic striping and pavement marking tape conforming to the provisions in "Prequalified and Tested Signing and Delineation Materials" of these special provisions may be placed instead of painted traffic stripes and pavement markings. Permanent tape, if used, shall be placed in conformance with the manufacturer's specifications.

If permanent tape is placed instead of painted traffic stripes and pavement markings, the tape will be measured and paid for by the linear foot as paint traffic stripe and by the square foot as paint pavement marking of the number of coats designated in the Engineer's Estimate.

10-1.81 TWO-COMPONENT PAINT PAVEMENT MARKING

Two-component paint pavement markings shall be applied in accordance with Section 84, "Traffic Stripes and Pavement Markings," of the Standard Specifications and these special provisions.

Two-component paint pavement markings consist of one coat of paint and two applications of retroreflective glass beads of two gradations.

The two-component paint shall be fast curing epoxy traffic paint selected from the list titled "Qualified Products List of Two-Component Traffic Striping Paints and Large Gradation Retroreflective Glass Beads" which is available from the Transportation Laboratory. The two-component paint shall be free of lead, chromium, barium and heavy metals. The large gradation glass beads shall be selected from the Qualified Products List. The small gradation glass beads shall conform to the requirements in AASHTO Designation: M247, Type 1. Both gradations of glass beads shall be coated with an adhesion promoting and water repellant coating as recommended by the paint manufacturer. Alternative types of glass beads may be used if recommended by the paint manufacturer and approved by the Engineer in writing.

Retroreflectivity of the two-component paint pavement markings shall conform to the requirements in ASTM Designation: D 6359-99. The two-component white paint pavement markings shall have a minimum initial level of retroreflectivity of $250 \text{ mcd m}^{-2} \text{ lx}^{-1}$. The two-component yellow paint pavement markings shall have a minimum initial level of retroreflectivity of $175 \text{ mcd m}^{-2} \text{ lx}^{-1}$.

Daytime and nighttime color of the two-component paint pavement markings with beads shall conform to the requirements in ASTM Designation: D 6628-01.

The Contractor shall furnish to the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for the paint and glass beads furnished. The certificate shall specify the name, batch number, and manufactured date of the products. The Contractor shall provide the Engineer a Material Safety Data Sheet (MSDS) for the paint and beads upon the Engineer's request.

New pavement surfaces to receive two-component paint shall be prepared in conformance with the provisions in Section 84-2.04, "Application," of the Standard Specifications.

The Contractor shall not begin application of the two-component traffic paint pavement markings without approval of the Engineer.

Two-component paint pavement markings shall be applied only to clean and completely dry surfaces and when pavement surface temperature is above 39° F and the atmospheric temperature is above 36° F . During application, the temperature of the two-component paint shall be as recommended by the paint manufacturer.

Two-component paint pavement markings shall be applied at a minimum thickness of $0.020\text{-inch} \pm 0.002\text{-inch}$ and a minimum application rate of $80 \text{ ft}^2/\text{gal}$. The application rate is based on the actual area of the paint and marking. During application of the two-component paint and glass beads, the striping machine shall not travel faster than 10 mph.

Two-component paint pavement markings shall be applied in one pass. The two-component paint shall be applied first, followed by the large gradation glass beads and then the small gradation glass beads. Glass beads shall be applied using two separate applicator guns.

Glass beads may be applied by hand on pavement markings. Glass beads shall be uniformly distributed on pavement markings. The large glass beads shall be applied at a minimum rate of 11.7 pounds of large beads per gallon of two-component paint. The smaller glass beads shall be applied at a minimum rate of 8.3 pounds per gallon of two-component paint. The combined weight of the two gradations of glass beads shall be greater than 20 pounds per gallon of two-component paint.

Prior to beginning application, in the presence of the Engineer, the Contractor shall apply a test section of the two-component paint stripe on roofing felt or other suitable material to demonstrate the Contractor's abilities to properly apply the two-component paint traffic stripes. The test section shall be at least 50 feet in length.

Two-component paint pavement markings will be measured and paid for in the same manner specified for thermoplastic thermoplastic pavement marking in Sections 84-2.05, "Measurement," and Section 84-2.06, "Payment," of the Standard Specifications. Full compensation for placing test stripes shall be considered as included in the contract price paid per square foot for two-component paint pavement marking and no additional compensation will be allowed therefor.

BID ITEM LIST
03-1A73U4

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	070013	SMALL BUSINESS UTILIZATION REPORT	EA	6	250.00	1,500.00
3	070018	TIME-RELATED OVERHEAD	WDAY	265		
4	071325	TEMPORARY FENCE (TYPE ESA)	LF	430		
5	074015	TEMPORARY ACTIVE TREATMENT SYSTEM	LS	LUMP SUM	LUMP SUM	
6	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
7	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
8	074028	TEMPORARY FIBER ROLL	LF	14,000		
9	074029	TEMPORARY SILT FENCE	LF	12,000		
10	019235	TEMPORARY CLEAR WATER DIVERSION SYSTEM	LS	LUMP SUM	LUMP SUM	
11	074031	TEMPORARY GRAVEL BAG BERM	LF	500		
12	074032	TEMPORARY CONCRETE WASHOUT FACILITY	EA	8		
13	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	8		
14	074034	TEMPORARY COVER	SQYD	10,700		
15	074035	TEMPORARY CHECK DAM	LF	670		
16	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	9		
17	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	200		
18	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	6,340		
19	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
20	074051	TEMPORARY HYDRAULIC MULCH	SQYD	26,700		

BID ITEM LIST
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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	729010	ROCK SLOPE PROTECTION FABRIC	SQYD	120		
122	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	290		
123	731504	MINOR CONCRETE (CURB AND GUTTER)	CY	1,240		
124 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	32,210		
125	750010	MANHOLE FRAME AND COVER	EA	20		
126 (F)	042826	MISCELLANEOUS METAL (DSF)	LS	LUMP SUM	LUMP SUM	
127	800300	CHAIN LINK FENCE	LF	45		
128	820112	MARKER (CULVERT)	EA	31		
129	019257	THERMOPLASTIC PAVEMENT MARKING (RECESSED)	SQFT	6,670		
130	019258	6" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	LF	14,300		
131	019259	6" THERMOPLASTIC TRAFFIC STRIPE (RECESSED, BROKEN 8-4)	LF	2,620		
132	840545	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED, BROKEN 36-12)	LF	11,700		
133	019260	8" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	LF	1,730		
134	840580	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED) (BROKEN 17-7)	LF	18,000		
135	840581	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	LF	18,500		
136	BLANK					
137	840661	TWO-COMPONENT PAINT PAVEMENT MARKING	SQFT	1,760		
138	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
139	860150	SIGNAL AND LIGHTING (TEMPORARY)	LS	LUMP SUM	LUMP SUM	
140	019261	LIGHTING (CITY)	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST
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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	860797	ELECTRIC SERVICE (IRRIGATION)	LS	LUMP SUM	LUMP SUM	
142	861501	MODIFY SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
143	BLANK					
144	074056	RAIN EVENT ACTION PLAN	EA	33		
145	074057	STORM WATER ANNUAL REPORT	EA	3		
146	074058	STORM WATER SAMPLING AND ANALYSIS DAY	EA	28		
147	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

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