

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Serious Drought.
Help save water!*

July 24, 2014

03-ED-89-8.6/13.8

03-1A8424

Project ID 0300000223

ACSTP-P089(109)E

Addendum No. 6

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN EL DORADO COUNTY IN AND NEAR SOUTH LAKE TAHOE FROM ROUTE 50 TO CASCADE ROAD.

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, July 30, 2014.

This addendum is being issued to revise the project plans, the *Notice to Bidders and Special Provisions*, the *Bid* book, and the *Information Handout*.

Project plan sheets 79, 87, 88, 89, 90, 91, 92, 93, 110, 159, and 164 are replaced and attached for substitution for the like-numbered sheets.

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

In the Special Provisions, Section 13-3, ",," is replaced as attached.

In the Special Provisions, Section 13-8, is replaced as attached.

In the Special Provisions, Section 13-11, is added as attached.

In the Special Provisions, Section 13-13, is added as attached.

In the Special Provisions, Section 13-1, is deleted.

In the Special Provisions, Section 14-6.10, is replaced as attached.

The *Information Handout* is replaced as attached.

Addendum No. 6
Page 2
July 24, 2014

03-ED-89-8.6/13.8
03-1A8424
Project ID 0300000223
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In the *Bid* book, in the "Bid Item List," Items 50 and 82 are replaced.

In the *Bid* book, in the "Bid Item List," Items 144 and 145 are added.

In the *Bid* book, in the "Bid Item List," Item 80, 81, 84, and 143 are deleted.

To *Bid* book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the *Notice to Bidders* section of the *Notice to Bidders and Special Provisions*.

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

http://www.dot.ca.gov/hq/esc/oe/electronic_bidding/electronic_bidding.html

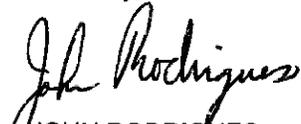
Inform subcontractors and suppliers as necessary.

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

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/03/03-1A8424

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,


JOHN RODRIGUES
Acting District Director

Attachments

Add to section 1-1.01:

Bid Items and Applicable Sections

Item code	Item description	Applicable section
027147	TEMPORARY CLEAR WATER DIVERSION SYSTEM	13
027148	REMOVE WOODEN VEHICLE BARRIER	15
027149	REMOVE SLOTTED CORRUGATED STEEL PIPE	15
027171	PINE WOOD MULCH	20
027150	STONE WALL	20
027766	12' X 8' PRECAST REINFORCED CONCRETE BOX CULVERT	51
027154	12" PERFORATED PLASTIC PIPE	64
027155	18" PERFORATED PLASTIC PIPE	64
027708	8" PLASTIC PIPE	64
027156	17" X 13" CORRUGATED STEEL PIPE ARCH (.109" THICK)	66
027157	HIGHWAY POST MARKER	82
027152	BOULDER VEHICLE BARRIER	83
027151	WOODEN VEHICLE BARRIER	83
027158	8" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	84
027159	THERMOPLASTIC PAVEMENT MARKING (RECESSED)	84
027160	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED, BROKEN 12-3)	84
027161	PEDESTRIAN HYBRID BEACON AND LIGHTING	86

Delete "for a risk level 2 or risk level 3 project" and "for a risk level 3 project" at every occurrence in section 13-3.

Replace the 4th, 5th, and 6th paragraphs in section 13-3.01A with:

For a project in the Lake Tahoe Hydrologic Unit, discharges of stormwater from the project must comply with the NPDES General Permit for *General Waste Discharge Requirements and National Pollutant Discharge Elimination System Permit for Storm Water Discharges Associated with Construction Activity in the Lake Tahoe Hydrologic Unit, counties of Alpine, El Dorado, and Placer,, (Order No. R6T-2011-0019, and NPDES No. CAG616002)* referred to herein as "Permit." The Lake Tahoe regional general permit may be viewed at the website for the State Water Resources Control Board, Storm Water Program, Lahontan Region General Permits.

Whenever a qualifying rain event produces runoff, sampling and analysis work must comply with the Construction Site Monitoring and Reporting Program (CSMRP).

A storm water annual report must cover the preceding period from October 16th to October 15th.

Replace item 3 in the list in the 2nd paragraph of section 13-3.01B(2)(a) with:

3. CSMRP

Replace the 3rd paragraph of section 13-3.01B(2)(a) with:

Include the following items in the SWPPP:

1. Schedule
2. CSMRP
3. REAP
4. Adherence to effluent standards for NALs and NELs

Replace section 13-3.01B(2)(b) with:

13-3.01B(2)(b) Construction Site Monitoring and Reporting Program

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

The CSMRP must include:

1. Purpose
2. Visual monitoring inspections including procedures
3. Water quality sampling and analysis including:
 - 3.1. Visual monitoring procedures
 - 3.2. SAP for nonvisible pollutants
 - 3.3. SAP for nonstormwater discharges
 - 3.4. SAP for monitoring required by RWQCB
 - 3.5. SAP for pH and turbidity
 - 3.6. SAP for temporary active treatment systems
4. Watershed monitoring option
5. Quality assurance and quality control
6. Reporting requirements and records retention
7. Noncompliance reporting
8. Annual report
9. Final report

CONTRACT NO. 03-1A8424
REPLACED PER ADDENDUM NO. 6 DATED JULY 24, 2014

Replace the 1st and 2nd paragraphs in section 13-3.01B(7) with:

Submit a REAP whenever the National Weather Service is predicting a storm event in the form of rainfall with at least a 30 percent probability in the project area within 72 hours.

The WPC manager must submit a REAP at least 24 hours before a forecasted storm event for construction activities occurring:

1. Between May 1 and October 1
2. During periods when construction activity is conducted under a variance to the land disturbance prohibition of the Permit

Replace the 1st sentence in the 1st paragraph of section 13-3.01B(8) with:

Submit the storm water annual report before October 31st if construction occurs from October 16th through October 15th or within 15 days after Contract acceptance if construction ends before October 15th.

Delete the 6th paragraph of section 13-3.01C(1).

Replace the 1st paragraph in section 13-3.01C(2) with:

NALs must comply with the values shown in the following table:

Numeric Action Levels

Parameter	Test method	Detection limit (min)	Unit	Value
pH	Field test with calibrated portable instrument	0.2	pH	Lower NAL = 6.0 Upper NAL = 9.0

The daily average sampling results must not exceed the NAL for pH.

Replace the paragraphs in section 13-3.01C(3) with:

NELs comply with the values shown in the following table:

Numeric Effluent Limits

Parameter	Test method	Detection limit (min)	Unit	Value
Turbidity	Field test with calibrated portable instrument	1	NTU	20 NTU max

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

Replace the 2nd paragraph of section 13-8.01A with:

For a project within the Lake Tahoe Hydrologic Unit, the design, installation, operation, and monitoring of the temporary active treatment system and monitoring of the treated effluent must comply with Attachment E of the NPDES General Permit for *General Waste Discharge Requirements and National Pollutant Discharge Elimination System Permit for Storm Water Discharges Associated with Construction Activity in the Lake Tahoe Hydrologic Unit, counties of Alpine, El Dorado, and Placer,, (Order No. R6T-2011-0019, and NPDES No. CAG616002)*

Replace the 1st paragraph of section 13-8.01B(4) with:

Whenever an NEL is exceeded notify the Engineer immediately and submit a NEL violation report within 2 hours. The report must include:

1. Field sampling results and inspections, including:
 - 1.1. Parameters, analytical methods, reporting units, and detection limits. Report analytical results less than the method detection limits as "less than the method detection limits."
 - 1.2. Date, location, time of sampling, visual observations, and measurements.
 - 1.3. Quantity of precipitation of the storm event.
2. Description of current on site BMPs and proposed corrective actions taken to manage NEL exceedance.

Replace section 13-8.01B(6) with:

13-8.01B(6) Quality Assurance and Quality Check Plan

Submit a quality assurance and quality check plan within 20 days of Contract approval. The quality assurance and quality check plan must include:

1. Calibration methods and frequencies for all system and field instruments
2. Method detection limits (MDLs) for each residual coagulant measurement method and acceptable minimum MDLs for each method, specific to individual coagulants
3. Requirements for monthly laboratory duplicates for residual coagulant analysis

Add to section 13-8.01C:

Provide training to each ATS operator. The training must be:

1. Specific to the operation of the ATS and liquid coagulants for storm water discharges in the State including:
 - 1.1. Coagulation basics including chemistry and physical processes
 - 1.2. ATS system design and operating principles
 - 1.3. ATS control systems
 - 1.4. Coagulant selection, such as jar testing and dose determination
 - 1.5. Handling and safety measures for toxicity of coagulants
 - 1.6. Monitoring, sampling, and analysis
 - 1.7. Reporting and recordkeeping
 - 1.8. Emergency response
2. Formal class with certificate and testing and certificate renewal requirements
3. Minimum of 8 hours classroom and 32 hours field training

Add between the 3rd and 4th paragraphs of section 13-8.03A:

Remove sediment from the storage or treatment cells as necessary to ensure the cells maintain their required water storage capability.

Add between the 6th and 7th paragraphs of section 13-8.03B:

If operating ATS in batch-treatment mode, the discharger must perform toxicity testing that complies with the following:

1. Discharger must initiate acute toxicity testing on effluent samples representing effluent from each batch before discharge. Send bioassays to a laboratory certified by the Department of Public Health Environmental Laboratory Accreditation Program (ELAP). The required field of testing number for whole effluent toxicity (WET) testing is E113. For the WET test, go to:

http://www.dhs.ca.gov/ps/ls/elap/pdf/FOT_Desc.pdf

2. Conduct acute toxicity tests as outlined for a 96-hour acute test in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms, USEPA-841-R-02-012* for Fathead minnow, *Pimephales promelas* (fathead minnow). Acute toxicity for *Oncorhynchus mykiss* (Rainbow Trout) may be used as a substitute for testing fathead minnows.
3. Toxicity tests must meet quality assurance criteria and test acceptability criteria in the most recent versions of the EPA test method for WET testing.

**Replace section 13-11 with:
13-11 WATER QUALITY MONITORING**

13-11.01 GENERAL

Section 13-11 includes specifications for monitoring water quality during the following construction activities:

1. temporary clear water diversion system

The receiving water for this project is Lake Tahoe, Taylor Creek, and Tallac Creek.

13-11.02 WATER QUALITY MONITOR

13-11.02A General

Assign a water quality monitor (WQM) to collect water samples and record water quality data. The WQM must be responsible for generating and submitting water quality reports.

Within 7 days after Contract approval, submit the WQM qualifications including training and experience in collecting and analyzing water quality samples.

The WQM must have the same qualifications as the WPC manager including the requirements for QSP and must have training and experience in collecting and analyzing water quality samples. The WQM may be the same person as the WPC manager.

If other personnel will be collecting water quality samples, their training must include:

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

If there is an unauthorized discharge, the WQM must immediately notify the Engineer within 30 minutes of identification or observation.

13-11.02B Visual Inspections

The WQM must perform a visual inspection after each:

1. Storm event
2. Nonstormwater discharge as follows:
 - 2.1. Observe receiving waters:
 - 2.1.1. 24 hours before beginning in-water work including the installation of clear water diversions
 - 2.1.2. At least 4 times daily during in-water work activities including the installation, operation, and removal of clear water diversions
 - 2.2. Observe receiving waters for the presence of floating and suspended materials, sheen on the surface, discoloration, turbidity, odors, and sources of observed pollutants
 - 2.3. Observe the job site for the presence of authorized and unauthorized nonstormwater discharges and their sources. Unauthorized discharges to surface waters include:
 - 2.3.1. Soil, silt, and sand
 - 2.3.2. Bark, sawdust, and slash
 - 2.3.3. Rubbish and debris
 - 2.3.4. Cement, concrete, and concrete washings
 - 2.3.5. Oil and petroleum products
 - 2.3.6. Welding slag
 - 2.3.7. Other organic or earthen materials causing turbidity
 - 2.3.8. Other nonvisible pollutants

The WQM must prepare a visual inspection report for each storm event and nonstormwater discharge. Each visual inspection report must include:

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

Retain visual inspection reports at the job site as part of the SWPPP or WPCP.

13-11.03 WATER QUALITY SAMPLING AND ANALYSIS DAY

Water quality sampling and analysis day includes activities such as preparation, collection, analysis, and reporting of water quality samples.

This project is subject to receiving water sampling and analysis for the water quality objectives (WQO) shown in the following table:

Water Quality Objectives

Parameter	Test Method	Detection limit (min)	Units	WQO ^a
pH, Fresh waters with designated beneficial uses of COLD or WARM	Field test with calibrated portable instrument	0.2	pH	Must not exceed 0.5 units normal ambient levels
pH, Lake Tahoe	Field test with calibrated portable instrument	0.2	pH	Lower = 7.0 Upper = 8.4 Must not exceed 0.5 units normal ambient levels
Turbidity	Field test with calibrated portable instrument	1	NTU	10 percent above natural background
Temperature, waters with designated beneficial uses of WARM	Field test with calibrated portable instrument	1	°F	5 degree above or below natural background
Temperature, waters with designated beneficial uses of COLD	Field test with calibrated portable instrument	1	°F	Temperature must not be altered
Dissolved oxygen	Field test with calibrated portable instrument	1	mg/L	Must not be depressed by more than 10 percent nor, minimum dissolved oxygen concentration be less than 80 percent of saturation. Must not be less than 7 mg/L for Lake Tahoe ^b
Total dissolved solids (TDS)	Field test with calibrated portable instrument ^c	1	mg/L	Must not exceed TDS specified in Table G-1
Specific conductance, in Lake Tahoe	Field test with calibrated portable instrument	0.1	μΩ	Must not exceed 95 μΩ at 122 °F

^a Receiving water quality objectives listed in the Lake Tahoe CGP, Attachment G, Table G-1 shall not be exceeded for specified surface waters and tributaries thereto.

^b Minimum dissolved oxygen concentration shall not be less than that specified in Table 5.1-8 of the Basin Plan for other water bodies.

^c Portable instrument provides an estimate of Total Dissolved Solids (TDS).

Perform water quality sampling whenever a project activity, conducted within waters of the State, has the potential to mobilize sediment or alter background conditions within waters of the State. Perform surface water quality sampling when:

1. Conducting in-water work
2. Work activities result in materials reaching receiving waters
3. Work activities result in the creation of a visible plume in receiving waters

Comply with the equipment manufacturer's recommendation for sample collection, analysis methods, and equipment calibration.

At least 24 hours before starting in-water work:

1. Establish locations for water quality sampling:
 - 1.1. Upstream of the effluent discharge point or location of in-water work by no more than 50 feet.
 - 1.2. Effluent discharge point including location of in-water work.
 - 1.3. Downstream of the effluent discharge point or location of in-water work between 35 and 50 feet.
2. Conduct water quality sampling to document background conditions for upstream, effluent, and downstream locations. Sample for each WQO shown in the table titled "Water Quality Objectives."
3. Estimate water flow.

Whenever conducting in-water work including the installation of a clear water diversion, conduct water quality sampling:

1. At least 4 times daily for each water quality objective
2. At upstream, effluent, and downstream locations

If sample results exceed a WQO, immediately notify the Engineer within 30 minutes and:

1. Conduct water quality sampling every hour until measurements comply with WQOs
2. Measure the distance from the effluent location to the downstream extent of the exceedance
3. Obtain photos of the tributary upstream, downstream, and at the location of in-water work
4. If BMPs are installed, repaired, or modified to control the source of the exceedance, monitor the activity and document with samples, photos, and a brief summary

You are not required to physically collect samples under the following conditions:

1. During dangerous weather conditions such as flooding or electrical storms
2. Outside of normal working hours

If downstream samples show levels outside of the acceptable range and indicate a possible WQO exceedance, assess WPC practices, site conditions, and surrounding influences to determine the probable cause for the increase.

Retain calibration logs, water quality sampling documentation, and analytical results at the job site.

13-11.04 WATER QUALITY MONITORING REPORT

13-11.04A General

Submit a monthly water quality monitoring report by the 7th of the month for monitoring work conducted during the previous month. The report must include:

1. Visual inspection reports
2. If in-water work was done, the following field sampling results and inspections:
 - 2.1. Analytical methods, reporting units, and detection limits
 - 2.2. Date, location, time of sampling, visual observation, photos, and measurements
 - 2.3. Estimate of water flow
 - 2.4. Calibration logs for field monitoring equipment
3. If a storm event generates visible runoff, include visual inspections and sampling results with:
 - 3.1. Date, location, and time of visual observation
 - 3.2. Photos of areas disturbed by project activities including excess materials disposal areas
 - 3.3. Photos showing disturbed soil areas and documenting compliance for erosion control and revegetation measures including soil stabilization and sediment control BMPs
4. Summary of exceedance
5. Summary of corrective actions

13-11.04B Water Quality Objective Exceedance Report

If a WQO is exceeded, the WQM must:

1. Notify the Engineer by phone or electronic media within 30 minutes after WQO is exceeded
2. Submit a WQO exceedance report within 6 hours after WQO is exceeded

The report must include:

1. Field sampling results and inspections including:
 - 1.1. Analytical methods, reporting units, and detection limits
 - 1.2. Date, location, time of sampling, visual observation, photos, and measurements
 - 1.3. Estimate of water flow
 - 1.4. Calibration logs for field monitoring equipment
2. Description of BMPs and corrective actions taken to manage WQO exceedance

13-11.04C Additional Reports

Not Used

13-11.05 WATER QUALITY ANNUAL REPORT

Prepare a water quality annual report for each reporting period from October 16th of the previous year through October 15th of the current year. If construction is less than a full reporting period, submit a final report. The final report must follow the same format and include the same content as the annual report. If construction:

1. Occurs from October 16th of previous year through October 15th of current year, submit the annual report no later than November 1st for the previous reporting period
2. Ends before October 15th, submit the final report at Contract acceptance

The WQM must prepare a water quality annual or final report. The report must:

1. Use an authorized report format
2. Include project information including description, location, and receiving waters
3. Include water quality 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 exceedance
 - 3.6. Names of individuals performing water quality 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 photos documenting compliance for:
 - 4.1. Disturbed soil areas created by work activities
 - 4.2. Erosion control and revegetation measures including soil stabilization and sediment control BMPs
 - 4.3. Completed work
5. Include records of water quality permit compliance training and meetings

Submit 2 copies of the water quality 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. Change and resubmit the report within 5 business days of receipt of the Engineer's comments. The Engineer's review resumes when the complete report is resubmitted.

Submit an electronic copy and 2 printed copies of the authorized water quality annual report. Include WQM signed certification and the WPC manager's signed certification.

Replace section 13-13 with:

13-13 TEMPORARY CLEAR WATER DIVERSION SYSTEM

13-13.01 GENERAL

13-13.01 Summary

This work includes constructing, monitoring, maintaining, and removing temporary clear water diversion system. Temporary clear water diversion system collects and conveys stream water around the work area.

13-13.02 SUBMITTAL

The SWPPP must describe a temporary clear water diversion system plan (Diversion Plan.). The Diversion Plan must include:

1. Title sheet,
2. Table of contents,
3. Anticipated flow rates,
4. Operation and system maintenance procedures,
5. Field-recorded data and visual inspection example logs, and
6. Working drawings of the temporary clear water diversion operations showing:
 - 6.1. Section and plan views of the diversion systems,
 - 6.2. Location of sampling points for water quality measurements as required by regulatory agencies,
 - 6.3. Flow path and placement of pipes, hoses, pumps, and other equipment used to convey water, and
 - 6.4. Location and construction details at point of return of stream flows to the natural channel and energy dissipater components.
 - 6.5. Sampling plan per Section 600 of the Preparation Manual.
7. Certificates of Compliance as specified in Section 6-3.05E, "Certificates of Compliance" of the Standard Specifications for:
 - 7.1. Gravel-filled bag fabric
 - 7.2. Impermeable plastic sheet
 - 7.3. Pump intake screen
8. Description of the waste discharge from the temporary clear water diversion operations showing:
 - 8.1. Location and construction details of discharge area or outfall
 - 8.2. Name of receiving water
 - 8.3. Discharge method
 - 8.4. Field-recorded data and visual inspection of planned effluent
 - 8.5. Control measure used and maintained for pollution control.

13-13.03 MATERIALS

13-13.03A Gravel-filled Bags

Gravel-filled bags must:

1. Be made from gravel-filled bag fabric
2. Have inside dimensions between 24 inches to 32 inches in length, and between 16 inches and 20 inches in width
3. Have the opening bound to retain the gravel. The opening must be sewn with yarn, bound with wire, or secured with a closure device.
4. Weigh between 30 pounds and 50 pounds when filled with gravel

Gravel Filled Bag Fabric

Property	ASTM Designation	Specification
Grab breaking load 1-inch grip, lb, min. in each direction	D 4632	205
Apparent elongation percent, min., in each direction	D 4632	50
Water Flow Rate max. average roll value, gallons per minute/square foot	D 4491	80-150
Permittivity 1/sec., min.	D 4491	1.2
Apparent opening size max. average roll value, U.S. Standard sieve size	D 4751	40-80
Ultraviolet Degradation percent of original unexposed grab breaking load 500 hr, minimum	D 4595	70

Gravel for gravel-filled bags must be:

1. Rounded river rock between 3/8 inch and 3/4 inch in diameter
2. Washed and free of adhered soil material prior to arrival on the job site with a cleanliness value of 85 or higher (California Test No. 227).

The Contractor may use permeable material from on-site sources such as river run gravel to fill gravel bags if approved by the Engineer. Permeable material must comply with Section 68-2.02F, "Permeable Material" of the Standard Specifications

13-13.03B Gravel for Channel

Gravel used in channel must be:

1. Washed and free of adhered soil material Clean, pre-washed, uncrushed natural river rock with a cleanliness value of 85 or higher (California Test No. 227)
2. Graded with at least 98% passing a 3-inch screen, 60-80% passing a two (2) inch screen, and 0-5% passing a half (1/2) inch screen (% by dry wt) or approved by California Department of Fish and Game
3. Completely free of oils or any other petroleum based material, clay, debris, and other types of organic matter

You may stockpile gravel, but do not mix with earthen material.

13-13.03C Impermeable Plastic Sheet

Impermeable plastic sheet must be:

1. Single ply
2. New polyethylene sheeting with a minimum of 10 mils thick, free of defects that compromise the impermeability

13-13.03D Pipe

Pipe must:

1. Be clean, uncoated, in good condition free of rust, paint oil dirt or other residues that could potentially contribute to water pollution.
2. Be adequately supported for planned loads.
3. Use watertight joints.
4. Be made of a material or combination of materials that are suitable for clean water and which do not contain banned, hazardous or unlawful substances.

13-13.03E Pumping System

Pumping system must:

1. Be equipped with second containment
2. Be free of fuel and oil leaks
3. Meet intake screen regulatory requirements.

13-13.04 CONSTRUCTION

Construct the diversion system according to the approved Diversion Plan.

Use of the temporary clear water diversion system is restricted to the period from July 15 to October 15. If the work requires more than one restricted period, remove the temporary clear water diversion system by the conclusion of the restricted period and reposition during the following restricted period at the Contractor's expense.

Install impermeable plastic sheet with minimal seams. Where seams occur, lap and seal with commercial quality waterproof tape. Seal joints between the impermeable plastic sheet and the flexible plastic pipe with commercial quality waterproof tape.

Re-contour streambed and bank to pre-project conditions. Backfill and repair ground disturbance, including holes and depressions, caused by the installation and removal of the temporary clear water diversion system. Use permeable materials comparable to the native material.

13-13.05 MAINTENANCE

Prevent leaks in the temporary clear water diversion system.

Repair holes, rips, and voids in the impermeable plastic sheet by taping or replace the impermeable plastic sheet.

Repair or replace temporary clear water diversion system on the same day when the damage occurs.

Remove sediment deposits and debris from temporary clear water diversion system as needed.

Water sampling and analysis will be paid for as extra work as provided in Section 4-1.05, "Change and Extra Work," of the Standard Specifications. No payment will be made for the preparation, collection, analysis, and reporting of storm water samples where appropriate water pollution control practices are not implemented.

Replace section 14-6.10 with:

14-6.10 INVASIVE PLANT SPECIES

14-6.10A General

14-6.10A(1) Summary

Section 14-6.10 includes specifications relating to invasive plant species.

14-6.10A(2) Definitions

invasive plant species: Plant species that is nonnative to the ecosystem under consideration and whose introduction causes or is likely to cause economic or environmental harm or harm to human health.

14-6.10A(3) Submittals

At least 48 hours before delivering construction equipment to the job site, submit a certificate that the equipment has been properly cleaned to remove invasive plant species. The certificate must describe the process used to clean the equipment and to ensure that the equipment remains clean until delivery to the job site.

14-6.10A(3) Quality Control and Assurance

Reserved

14-6.10B Materials

Not Used

14-6.10C Construction

Before using nonrubber-tired construction equipment within the job site, clean the equipment with water heated to at least 120 degrees Fahrenheit to prevent the introduction and spread of invasive plant species. Sources for introducing and spreading these species include soils, seeds, vegetative matter, and other such debris.

Water must comply with section 17.

14-6.10D Payment

Not Used

**BID ITEM LIST
03-1A8424**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150837	REMOVE RETAINING WALL (PORTION) (CY)	CY	4		
42	150860	REMOVE BASE AND SURFACING	CY	720		
43	027149	REMOVE SLOTTED CORRUGATED STEEL PIPE	LF	210		
44	152320	RESET ROADSIDE SIGN	EA	21		
45	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	40,100		
46	153215	REMOVE CONCRETE (CURB AND GUTTER)	LF	680		
47	155213	CLEANING, INSPECTING, AND PREPARING CULVERT (LF)	LF	83		
48	155353	MACHINE SPIRAL WOUND PVC PIPELINER (GROUTED, 36")	LF	83		
49	160102	CLEARING AND GRUBBING (LS)	LS	LUMP SUM	LUMP SUM	
50	190101	ROADWAY EXCAVATION	CY	10,600		
51	190185	SHOULDER BACKING	TON	1,370		
52 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	10		
53	192502	SAND BEDDING	CY	51		
54 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	10		
55	200123	CULTIVATION	SQYD	550		
56	202006	SOIL AMENDMENT	CY	2		
57	202037	ORGANIC FERTILIZER	LB	11		
58	204045	SOD	SQYD	550		
59	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
60	027171	PINE WOOD MULCH	SQFT	22,800		

**BID ITEM LIST
03-1A8424**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	027150	STONE WALL	LF	280		
62	027151	WOODEN VEHICLE BARRIER	EA	340		
63	027152	BOULDER VEHICLE BARRIER	EA	360		
64	210210	EROSION CONTROL (DRY SEED) (SQFT)	SQFT	172,000		
65	210280	ROLLED EROSION CONTROL PRODUCT (BLANKET)	SQFT	6,320		
66	210350	FIBER ROLLS	LF	250		
67	210420	STRAW	SQFT	168,000		
68	210600	COMPOST	SQFT	53,300		
69	210630	INCORPORATE MATERIALS	SQFT	53,300		
70	260203	CLASS 2 AGGREGATE BASE (CY)	CY	7,830		
71	374207	CRACK TREATMENT	LNMI	15		
72	390095	REPLACE ASPHALT CONCRETE SURFACING	CY	51		
73	390131	HOT MIX ASPHALT	TON	18,900		
74	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
75	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	24		
76	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	830		
77	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	5,850		
78	397005	TACK COAT	TON	41		
79 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	10		
80 (F)	BLANK					

**BID ITEM LIST
03-1A8424**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81 (F)	BLANK					
82 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	180		
83 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	638		
84 (F)	BLANK					
85	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	740		
86	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	110		
87	560251	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-FRAMED)	SQFT	160		
88	560252	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-FRAMED)	SQFT	110		
89	566011	ROADSIDE SIGN - ONE POST	EA	95		
90	566012	ROADSIDE SIGN - TWO POST	EA	12		
91	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	4		
92	591200	ROCK STAIN	SQFT	650		
93 (F)	620800	CONCRETE BACKFILL (PIPE TRENCH)	CY	22		
94	027154	12" PERFORATED PLASTIC PIPE	LF	900		
95	027155	18" PERFORATED PLASTIC PIPE	LF	170		
96	641104	15" PLASTIC PIPE	LF	1,140		
97	641107	18" PLASTIC PIPE	LF	2,090		
98	650014	18" REINFORCED CONCRETE PIPE	LF	56		
99	665018	18" CORRUGATED STEEL PIPE (.109" THICK)	LF	150		
100	665024	24" CORRUGATED STEEL PIPE (.109" THICK)	LF	360		

BID ITEM LIST
03-1A8424

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	641101	12" PLASTIC PIPE	LF	9		
142	027708	8" PLASTIC PIPE	LF	8		
143	BLANK					
144	027766	12' X 8' PRECAST REINFORCED CONCRETE BOX CULVERT	LF	72		
145	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	