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October 18, 2007

03-Sut,Yub-70-0.2/13.4,0.0/2.5  
03-3864U4  
ACNH-P070(094)E

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SUTTER AND YUBA COUNTIES NEAR NICOLAUS FROM 70/99 SEPARATION TO 1.0 KM NORTH OF FEATHER RIVER BOULEVARD.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on November 7, 2007.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, the Proposal and Contract, and the Federal Minimum Wages with Modification Number 15 dated 10-12-07, and provide a copy of the Supplemental Information Handout.

Project Plan Sheet 189, in the lower left corner of the sheet, all hatching, stations and elevations callouts at 2.000 Lt "K1" and 2.000 Rt "K1" are removed from the detail for the "Intersection of Kempton Road and 4<sup>th</sup> Avenue".

Project Plan Sheet 408, in the left hand column on the last line, "TOTAL" is revised to read "TOTAL DQ-41".

Project Plan Sheet 409, in the left hand column on the last line, "TOTAL" is revised to read "TOTAL DQ-42".

Project Plan Sheet 851, the callout at the bottom of the page is revised from "(AVC CONTROLLER CABINET WITH TYPE 1 HOUSING. INSTALL STATE FURNISHED AVC CONTROLLER UNIT, CDPD MODEM AND ANTENNA ASSEMBLY AS DIRECTED BY THE ENGINEER.) FOR DETAILS SEE AUTOMATIC VEHICLE CLASSIFICATION SYSTEM DETAILS." to "(AVC CONTROLLER CABINET WITH TYPE 1 HOUSING. INSTALL CONTRACTOR FURNISHED AVC CONTROLLER UNIT, CDPD MODEM AND ANTENNA ASSEMBLY AS DIRECTED BY THE ENGINEER.) FOR DETAILS SEE AUTOMATIC VEHICLE CLASSIFICATION SYSTEM DETAILS."

Project Plan Sheet 856, the callout in the bottom left corner of the page is revised from "Install State furnished traffic count station 334 cabinet, as directed. By the Engineer" to "Install Contractor-furnished traffic count station 334 cabinet, as directed by the Engineer."

Project Plan Sheet 908, under QUANTITIES, "Furnish Piling (Class 625) (Alternative W)" is revised to "Furnish Piling (Class 400) (Alternative W)" and "Drive Pile (Class 625) (Alternative W)" is revised to "Drive Pile (Class 400) (Alternative W)."

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Project Plan Sheets 9, 11, 29, 33, 34, 57, 59, 70, 73, 75, 77, 83, 84, 226, 254, 256, 267, 270, 272, 274, 336, 347, 348, 350, 351, 354, 355, 689, 804, 805, 913, 914, 915, 921, 950, 956, 957, 958, 960, and 972 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 84A, 189A, 192A, 332A, 332B, 409A, 409B, and 663A are added. Half-sized copies of the added sheets are attached for addition to the project plans.

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

In the Special Provisions, Section 5-1.17, "PROJECT INFORMATION," the following paragraph is added after the third paragraph:

"Information included in the Information Handout provided to bidders and Contractors is as follows:

A. Sutter 70 Widening Work Window Maps"

In the Special Provisions, Section 5-1.17, "PROJECT INFORMATION," the following paragraphs are added after the sixth paragraph:

"Information available for inspection at the Transportation Laboratory is as follows:

A. Rock cores.

Bidders and Contractors may contact the Transportation Laboratory to request viewing rock cores via electronic mail at the following address:

Coreroom@dot.ca.gov

Request shall be submitted at least 5 working days before the intended date for viewing, and shall include the District-County-Route, bridge number, contract number, viewing date, and contact information including telephone number."

In the Special Provisions, Section 5-1.19, "RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME," is replaced as attached.

In the Special Provisions, Section 5-1.21, "RELATIONS WITH US FISH AND WILDLIFE SERVICES," is replaced with Section 5-1.21, "UNITED STATES FISH AND WILDLIFE SERVICE REQUIREMENTS," as attached.

In the Special Provisions, Section 5-1.23, "RELATIONS WITH THE NATIONAL MARINE FISHERIES," is replaced with Section 5-1.23, "NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) FISHERIES REQUIREMENTS," as attached.

In the Special Provisions, Section 5-1.24, "RELATIONS WITH STATE RECLAMATION BOARD," is replaced as attached.

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In the Special Provisions, Section 8-1.03, "STATE-FURNISHED MATERIALS," in the second paragraph, items K and L are deleted.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the sixth, seventh, eighth, ninth, tenth and eleventh paragraphs are deleted.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraph is added after the first paragraph:

"All trees shall be removed, as required for the completion of work in the upcoming construction season, prior to winter suspension, in a manner that does not disturb soil."

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

"Attention is directed to the "Sutter 70 Widening Work Window Maps" in the Information Handout regarding time restrictions to the Contractor's operations.

Construction activities within the streams zones (defined as that portion of the stream channel that restricts lateral movement of water and is delineated at the top of the bank or the outer edge of any riparian vegetation, whichever is more landward) of the various waterways shall be restricted to the dates as follows:

Coon Creek	May 15 and October 15
Ping Slough	May 15 and October 15
Yankee Slough	April 15 and November 30
Bear River	June 1 and October 15

In-channel construction activities (work between the banks) at Ping Slough, Coon Creek, and the Bear River shall be restricted to the period from June 1 to October 15.

Construction activities within the floodway (defined as the area between the levees in the vicinity of the Bear River Bridge) shall be restricted to the period from April 16 to October 31.

All construction activities within Giant Garter Snake Habitat shall be restricted to the period from May 1 and October 1. Attention is directed to "Giant Garter Snake Protection" of these special provisions."

In the Special Provisions, Section 10-1.02, "GENERAL MIGRATORY BIRD PROTECTION," is replaced with Section 10-1.02, "MIGRATORY BIRD AND BAT PROTECTION," as attached.

In the Special Provisions, Section 10-1.03, "PREVENTION OF SWALLOW NESTING," is deleted.

In the Special Provisions, Section 10-1.033, "VALLEY ELDERBERRY LONGHORN BEETLE PROTECTION," is added as attached.

In the Special Provisions, Section 10-1.036, "GIANT GARTER SNAKE PROTECTION," is added as attached.

In the Special Provisions, Section 10-1.039, "CONTRACTOR-FURNISHED BIOLOGICAL MONITOR," is added as attached.

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In the Special Provisions, Section 10-1.04, "WATER POLLUTION CONTROL," in the subsection, "STORM WATER POLLUTION PREVENTION PLAN," the sixth paragraph is revised as follows:

"The SWPPP shall include a copy of the Notification of Construction, Department of Fish and Game 1602 and 2081 permits, US Army Corps of Engineers 404 permit, State Lands Commission permit, US Fish and Wildlife Service biological opinion, National Oceanic and Atmospheric Administration Fisheries biological opinion, California Regional Water Quality Control Board 401 permit, and State Reclamation Board permit."

In the Special Provisions, Section 10-1.07, "COOPERATION," is deleted.

In the Special Provisions, Section 10-1.10, "OBSTRUCTIONS," the third and fourth paragraphs are revised as follows:

"It is anticipated that the following utility facilities will be relocated prior to the dates shown:

Utility	Location	Date
PG&E 60 KV	North of Marcum Road	10/08
PG&E 115 KV		10/08
PG&E Distribution lines	North of Marcum Road	10/08
SBC	various	10/08

Installation of the following utility facilities will require coordination with the Contractor's operations. The Contractor shall make the necessary arrangements with the utility company, through the Engineer, and shall submit a schedule of work, verified by a representative of the utility company, to the Engineer. The schedule of work shall provide not less than the following number of working days, as defined in Section 8-1.06, "Time of Completion," of the Standard Specifications for the utility company to complete their work:

Utility (address)	Location	Working Days
PG&E 60 KV	From Marcum Road south	40
PG&E Distribution lines	From Marcum Road south	40

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In the Special Provisions, Section 10-1.15, "Maintaining Traffic," the two tables following paragraph eight are revised as follows:

Marcum Road OC  
 18-0048

	Number	Width	Height
Vehicle Openings	1	12.6	4.8
	Location		Spacing
Falsework Pavement Lighting	NB		R9
	SB		R9

(Width and Height in meters)  
 (R = Right side of traffic. L = Left side of traffic)  
 (C = Centered overhead)

Cornelius Ave OC  
 18-0047

	Number	Width	Height
Vehicle Openings	1	12.6	4.8
	Location		Spacing
Falsework Pavement Lighting	NB		R9
	SB		R9

(Width and Height in meters)  
 (R = Right side of traffic. L = Left side of traffic)  
 (C = Centered overhead)"

In the Special Provisions, Section 10-1.27, "CLEARING AND GRUBBING," the seventh paragraph is deleted.

In the Special Provisions, Section 10-1.46, "PILING," subsection "DRILLING," the table following the first paragraph is deleted.

In the Special Provisions, Section 10-3.25, "AUTOMATIC VEHICLE CLASSIFICATION (AVC) SYSTEM," the fourth and fifth paragraphs are deleted.

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In the Special Provisions, Section 10-3.32, "PAYMENT," the sixth paragraph is revised as follows:

"The contract lump sum price paid for automatic vehicle classification (AVC) system shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in automatic vehicle classification system, including installing Contractor-Furnished automatic vehicle classification monitoring assembly, type 334 cabinet foundation, conductors and screened transmission cable (STC), conduits, pull boxes, inductive loop detectors, and piezo-electric axle sensors, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Proposal and Contract, the Engineer's Estimate Items 46, 55, 69, 73, 115, 117, 122, 129, 134, 136 and 138 are revised, Items 195, 196, 197, 198, 199 and 200 are added and Items 83, 84 and 194 are deleted as attached.

To Proposal and Contract book holders:

Replace pages 5, 6, 7, 8, 9, and 12 of the Engineer's Estimate in the Proposal with the attached revised pages 5, 6, 7, 8, 9, and 12 of the Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Attached is a copy of the Supplemental Information Handout "Sutter 70 Widening Work Window Maps".

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 CONTRACTORS section of the Notice to Contractors 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 proposal.

Submit bids in the Proposal and Contract 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 office is sending this addendum by GSO overnight mail to all book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

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

Attachments

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

The first working day is the fifty-fifth day after contract approval.

The Contractor shall not begin work at the job site, except for measuring controlling field dimensions and locating utilities, until the following submittals are received and approved by the Engineer:

1. Baseline Progress Schedule (Critical Path Method)
2. Storm Water Pollution Prevention Plan (SWPPP)
3. Notification of Dispute Review Board (DRB) nominee and disclosure statement

In addition to the above submittals, the Contractor shall not begin work at the job site, except for measuring controlling field dimensions and locating utilities, until the following submittals are received by the Engineer:

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

The Contractor may begin work at the job site before the fifty-fifth day after contract approval if:

1. The Contractor submits and obtains required approvals for the submittals before the fifty-fifth day
2. Authorized by the Engineer in writing

The Department will grant time extensions for delays only that are beyond the Contractor's control and that prevent the Contractor from starting work at the job site on the first working day.

The work shall be diligently prosecuted to completion before the expiration **765 WORKING DAYS**.

The Contractor shall pay to the State of California the sum of **\$20,900.00** per day for each day's delay in finishing the work in excess of the number of working days specified above.

### **5-1.19 RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME**

A portion of this project is located within the jurisdiction of the California Department of Fish and Game. A 1602 agreement regarding a stream or lake, and a 2081 agreement regarding a fully protected species (White-tailed kite), and the incidental take of the Swainson's hawk and Giant Garter Snake, both threatened species, have been entered into by the Department of Transportation and the Department of Fish and Game. The Contractor shall be fully informed of the requirements of this agreement as well as rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly.

Attention is directed to "Contractor-Furnished Biological Monitor," "Giant Garter Snake Protection," and "Migratory Bird and Bat Protection" of these special provisions.

Copies of the agreement may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone (916) 654-4490, and are available for inspection at the North Region Construction Office located at 379-A Colusa Highway, Yuba City, California 95991.

It is unlawful for any person to divert, obstruct or change the natural flow of the bed, channel or bank of a stream, river or lake without first notifying the Department of Fish and Game, unless the project or activity is noticed and constructed in conformance with conditions imposed under Fish and Game Code Section 1602.

Attention is directed to Sections 7-1.01, "Laws to be Observed," 7-1.01G, "Water Pollution," and 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

Modifications to the agreement between the Department of Transportation and the Department of Fish and Game which are proposed by the Contractor shall be submitted in writing to the Engineer for transmittal to the Department of Fish and Game for their consideration.

When the Contractor is notified by the Engineer that a modification to the agreement is under consideration, no work shall be performed which is inconsistent with the original agreement or proposed modification until the Departments take action on the proposed modifications. Compensation for delay will be determined in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The provisions of this section shall be made a part of every subcontract executed pursuant to this contract.

Modifications to any agreement between the Department of Transportation and the Department of Fish and Game will be fully binding on the Contractor. The provisions of this section shall be made a part of every subcontract executed pursuant to this contract.

### **5-1.21 UNITED STATES FISH AND WILDLIFE SERVICE REQUIREMENTS**

A portion of this project is located within the jurisdiction of the U. S. Fish and Wildlife Service (USFWS). The Department has accepted a Biological Opinion for this project. The Contractor shall be fully informed of the requirements and all rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly.

Copies of the Biological Opinion may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone (916) 654-4490, and are available for inspection at the North Region Construction Office located at 379-A Colusa Highway, Yuba City, California

Attention is directed to "Contractor-Furnished Biological Monitor," "Giant Garter Snake Protection," and "Valley Elderberry Longhorn Beetle Protection" of these special provisions regarding related environmental requirements or additional information.

Modifications to the agreement between the Department and USFWS that are proposed by the Contractor shall be submitted in writing to the Engineer for transmittal to the USFWS for their consideration.

No work shall be performed which is inconsistent with the original agreement or proposed modification prior to receiving written approval from the Engineer. Compensation for delay will be determined in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Modifications to the agreement between the Department and USFWS shall be fully binding on the Contractor.

The provisions of this section and approved modifications shall be made a part of every subcontract executed pursuant to this contract.

### **5-1.23 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION FISHERIES SERVICE REQUIREMENTS**

A portion of this project is located within the jurisdiction of the National Oceanic and Atmospheric Administration (NOAA) Fisheries Service. The Department has accepted a Biological Opinion for this project. The Contractor shall be fully informed of the requirements and all rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly.

Copies of the Biological Opinion may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone (916) 654-4490, and are available for inspection at the North Region Construction Office located at 379-A Colusa Highway, Yuba City, California

The Contractor's attention is directed to the following terms or conditions that are among those established by the NOAA Fisheries Biological Opinion for this project:

- A. No fill material, including concrete, beyond that identified in the project description, shall be allowed to enter any waterway or drainage.
- B. Water that contacts wet concrete and has a pH greater than 9 must be pumped out of the coffer dam or other impoundment areas and disposed of outside the channel and away from the riparian zone or any wetland area.
- C. A fishery biologist furnished by the contractor shall be available to salvage fish if they become trapped within any cofferdams, water diversions, or dewatering activities. Salvage activities must be done in coordination with a NOAA fisheries biologist. If a fisheries biologist is necessary, this will be paid for as extra work as provided in Section 4-1.03D of the Standard Specifications.
- D. No stormwater from construction activities or turbid water from dewatering activities shall be directly discharged into the drainages of Bear River, Coon Creek, Ping Slough, Yankee Slough or any drainage that flows into these waterbodies.
- E. Where bridge abutments are constructed, materials must be non-toxic to aquatic life.
- F. During construction, all equipment refueling and maintenance shall occur outside the channel and riparian area, except for the drill rig or other stationary equipment. Spill control absorbent material shall be placed under all stationary equipment.

Modifications to the agreement between the Department and NOAA Fisheries that are proposed by the Contractor shall be submitted in writing to the Engineer for transmittal to NOAA Fisheries for their consideration.

No work shall be performed which is inconsistent with the original agreement or proposed modifications prior to receiving written approval from the Engineer. Compensation for delay will be determined in conformance with the provisions in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

Modifications to the agreement between the Department and NOAA Fisheries shall be fully binding on the Contractor.

The provisions of this section and approved modifications shall be made a part of every subcontract executed pursuant to this contract.

#### **5-1.24 RELATIONS WITH STATE RECLAMATION BOARD**

Attention is directed to Section 7-1.11, "Preservation of Property," and Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

The location of the Bear River Bridge is within an area controlled by the State Reclamation Board. Permit No. 18006 GM has been approved by the State Reclamation Board covering work to be performed under this contract. The Contractor shall be fully informed of rules, regulations and conditions that may govern his operations in the area and shall conduct the work accordingly.

Attention is directed to the conditions in the permit that have been approved by the Reclamation Board for this project.

Copies of the permit may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone (916) 654-4490, and are available for inspection at the North Region Construction Office located at 379-A Colusa Highway, Yuba City, California 95991.

No stockpiles of material, temporary buildings, equipment or downed trees or brush shall remain in the floodway during the flood season from November 1 to April 15 without prior approval from the State Reclamation Board. The floodway is defined as the area between the levees in the vicinity of the Bear River Bridge.

Changes in the conditions of the permit proposed by the Contractor shall be submitted in writing to the Engineer for transmittal to the State Reclamation Board for approval. Changes shall not be implemented until approved in writing by the State Reclamation Board.

Attention is directed to Section 8-1.06, "Time of Completion," of the Standard Specifications. Days when the Contractor's operations are restricted by the requirements of this section, shall not be considered to be nonworking days whether or not the controlling operation is delayed.

The provisions of this section shall be made a part of every subcontract executed pursuant to this contract.

Modifications to any agreement between the Department of Transportation and the State Reclamation Board will be fully binding on the Contractor. The provisions of this section shall be made a part of every subcontract executed pursuant to this contract.

### **10-1.02 MIGRATORY BIRD AND BAT PROTECTION**

The Contractor shall protect migratory birds, their occupied nests, and their eggs and roosting bats as specified in these special provisions.

Attention is directed to "Relations with California Department of Fish and Game" of these special provisions.

The Federal Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), Title 50 Code of Federal Regulations part 10, and California Department of Fish and Game (DFG) Code Sections 3503, 3511, 3513, and 3800, protect migratory birds, their occupied nests, and their eggs. The Department has entered into a California Endangered Species Act Section 2081 agreement with the DFG regarding a fully protected species, the White-tailed kite (*Elanus leucurus*), and the incidental take of a threatened species, the Swainson's hawk (*Buteo swainsoni*).

Nesting or attempted nesting by migratory birds and bat roosting is anticipated to occur between, but not limited to, March 1 and September 15.

There is evidence that migratory birds nest within the project area including, but not limited to, the Bear River Bridge (No. 18-0001). There is evidence that bats roost within the project area including, but not limited to, the expansion joints of the Bear River Bridge (No. 18-0001).

When evidence of migratory birds or their occupied nests, or roosting bats is discovered that may be adversely affected by construction activities, or when birds or bats are injured or killed as a result of construction activities, the Contractor shall immediately stop work within 15 m of the occupied nests or roosting bats and notify the Engineer. Work shall not resume until the Engineer provides written notification that work may begin in this location.

### **GENERAL CONSTRUCTION ACTIVITIES**

For the purposes of this section, general construction activities are those activities that could disturb migratory birds, and their occupied nests, or roosting bats. General construction activities include, but are not limited to; clearing and grubbing. General construction activities shall not include structure construction activities.

General construction activities shall be scheduled outside the anticipated nesting and roosting dates whenever possible. This may require performing general construction activities out of normal sequence and may require additional mobilizations and other additional costs.

When general construction activities are performed during the anticipated nesting and roosting dates, the Contractor shall provide a Migratory Bird and Bat Protection Program (MBBPP) conforming to the requirements of this special provision and a Bird and Bat Biologist to inspect the project area no more than 15 days prior to and throughout the performance of general construction activities to ensure migratory birds, or their occupied nests, or roosting bats are not present.

If general construction activities are stopped because migratory birds, or their occupied nests, or roosting bats are discovered and if, in the opinion of the Engineer, the Contractor could not have avoided the stoppage by performing the general construction activities outside of the anticipated nesting and roosting dates, the Contractor shall be compensated for the stoppage in accordance with Section 8-1.05 "Temporary Suspension of Work," of the Standard Specifications. If, in the opinion of the Engineer, the Contractor could have avoided the stoppage by prosecuting the general construction activities outside of the anticipated nesting dates, the Contractor shall not be entitled to additional compensation for the stoppage. In either case, if the general construction activities are the controlling operation, the days on which the stoppage is in effect shall not be considered working days as defined in Section 8-1.06 "Time of Completion," of the Standard Specifications.

### **STRUCTURE CONSTRUCTION ACTIVITIES**

For the purposes of this section, structure construction activities are those activities that could disturb migratory birds, and their occupied nests or roosting bats on, in, or near structures. Structure construction activities shall include the removal, painting and construction of buildings, retaining walls, box culverts and bridges.

When the project includes structure construction activities, the Contractor shall provide an MBBPP conforming to the requirements of this special provision.

If structure construction activities are stopped because migratory birds, or their occupied nests, or roosting bats are discovered and if, in the opinion of the Engineer, the Contractor could not have avoided the stoppage by implementing an effective MBBPP within 30 days after contract approval, the Contractor shall be compensated for the stoppage in accordance with Section 8-1.05 "Temporary Suspension of Work," of the Standard Specifications. If, in the opinion of the Engineer, the Contractor could have avoided the stoppage by implementing an effective MBBPP within 30 days after contract approval, the Contractor shall not be entitled to additional compensation for the stoppage. In either case, if the structure construction activities are the controlling operation, the days on which the stoppage is in effect shall not be considered working days as defined in Section 8-1.06 "Time of Completion," of the Standard Specifications.

## **MIGRATORY BIRD AND BAT PROTECTION PROGRAM (MBBPP)**

The Contractor shall submit an MBBPP for the protection of migratory birds, including Swainson's hawk and white-tailed kites, their occupied nests, and roosting bats. The MBBPP shall show the Contractor's schedule of work, the nesting and roosting prevention measures that the Contractor proposes to take corresponding to the work schedule, and a regular inspection, maintenance and reporting schedule. The Contractor shall modify the MBBPP when nesting and roosting prevention measures are not effective as determined by the Engineer.

Nesting and roosting prevention measures may include scheduling activities outside of the anticipated nesting and roosting dates, removing partially constructed and unoccupied nests prior to and during the anticipated nesting and roosting dates, shielding the work area from bird and bat access prior to the anticipated nesting and roosting dates and other measures approved by the Engineer.

Inspections shall be conducted prior to removal of partially constructed and unoccupied nests or the installation of exclusion devices and thereafter on a weekly basis, at a minimum, to ensure eggs or nestlings or roosting bats are not present. Inspections shall be performed by the Contractor's Bird and Bat Biologist. The findings of the inspections shall be documented in writing and provided to the Engineer within 2 working days.

Within 15 days of contract approval, the Contractor shall submit the MBBPP for acceptance by the Engineer. The Contractor shall allow 15 days after the MBBPP is submitted for review and acceptance by the Engineer. The Contractor shall not perform construction activities, other than that specifically authorized in writing by the Engineer, until the MBBPP has been accepted.

## **BIRD AND BAT BIOLOGIST QUALIFICATIONS**

The Contractor shall provide at least one Bird and Bat Biologist to conduct bird nesting surveys, including those for Swainson's hawk and white-tailed kites, and bat roosting surveys. At the Contractor's option, an independent Bird and Bat Biologist may be provided specifically to conduct Swainson's hawk surveys and monitoring.

All Bird and Bat Biologists shall possess a degree in biological or natural science from an accredited college or university and have a minimum of 1-year experience in performing bird nesting and bat roosting surveys unless otherwise approved by the Engineer. Any Bird and Bat Biologist performing surveys for Swainson's hawks and white-tailed kites shall have previous experience performing surveys for these species specifically.

The Contractor shall submit the name and resume of all Bird and Bat Biologists that will be performing surveys and/or monitoring for Swainson's hawks to the Engineer for approval at least 30 calendar days prior to the performance of work activities. All Bird and Bat Biologists performing surveys and/or monitoring for Swainson's hawks must be approved by the Engineer and DFG prior to performing any work. Approval of any other Bird and Bat Biologists will not be required.

## **REQUIRED SURVEYS**

The Bird and Bat Biologist shall perform preconstruction surveys for Swainson's hawks during the nesting season (March 1 to September 15) within 0.5 miles of the project area prior to beginning construction and related activities each year. Survey results shall be provided to the Engineer and the DFG in a written report, within 30 days of commencement of construction activities. If nesting Swainson's hawks are found, the Department shall consult with the DFG to determine if construction activities will be allowed to begin or continue or shall be limited between May 1 and September 15 within 0.5 miles from the nest site until the young have fledged (left the nest).

The Bird and Bat Biologist shall perform preconstruction surveys for white-tailed kites during the nesting season (March 1 to August 31) within 0.25 miles of the project area prior to beginning construction and related activities each year. Survey results shall be provided to the Engineer and the DFG in a written report, within 30 days of commencement of construction activities. If nesting white-tailed kites are found, the Department shall consult with the DFG to determine if construction activities will be allowed to begin or continue or shall be limited between May 1 and August 31 within 0.25 miles from the nest site until the young have fledged (left the nest).

## **PENALTIES**

The Contractor shall be responsible for penalties assessed or levied on the Contractor or the Department as a result of the Contractor's failure to comply with the provisions in this section "Migratory Bird and Bat Protection" including, but not limited to, compliance with the applicable provisions of Federal, State and Local regulations and requirements as set forth therein.

Penalties as used in this special provision shall include fines, penalties, and damages; whether proposed, assessed, or levied against the Department or the Contractor. Penalties shall also include payments made or costs incurred in settlement for alleged violations of applicable laws, regulations, or requirements. Costs incurred could include sums spent instead of penalties, in mitigation or to remediate or correct violations.

Notwithstanding any other remedies authorized by law, the Department may retain or withhold monies due the Contractor under the contract, in an amount determined by the Department, up to and including the entire amount of penalties proposed, assessed, or levied as a result of the Contractor's violation of Federal or State law, regulations or requirements. Funds may be retained by the Department until final disposition has been made as to the penalties. The Contractor shall remain liable for the full amount of penalties until such time as they are finally resolved with the entity seeking the penalties. Upon final disposition, the Department shall inform the Contractor of the withheld amount.

#### **PAYMENT**

The contract lump sum price paid for migratory bird and bat protection shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in protection of migratory birds and roosting bats including additional mobilizations, and other additional costs; Bird and Bat Biologist inspections; and development, submittal and implementation of the MBBPP as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

### **10-1.033 VALLEY ELDERBERRY LONGHORN BEETLE PROTECTION**

The Contractor shall be fully informed of the rules, regulations, and conditions regarding the valley elderberry longhorn beetle as outlined in this special provision, and shall conduct all work operations accordingly.

The area around elderberry shrubs shown on the project plans shall be designated as environmentally sensitive areas (ESA) and protected during construction. Attention is directed to "Environmentally Sensitive Area" and "Temporary Fence (Type ESA)" of these special provisions.

The Contractor shall furnish and place signs every 15 meters along the elderberry shrub environmentally sensitive areas. At least one sign per ESA shall be provided. The signs shall state: "This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment." These signs shall be clearly readable from a distance of 6 meters and shall be maintained throughout construction and removed when all construction activities are complete.

Roadways and disturbed areas within 30 meters of elderberry plants shall be watered to minimize dust emissions.

Attention is directed to "Contractor-furnished Biological Monitor" of these special provisions.

Full compensation for conforming to the signing requirements of this section shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

### **10-1.036 GIANT GARTER SNAKE PROTECTION**

The Contractor shall be fully informed of the rules, regulations, and conditions regarding the giant garter snake as outlined in this special provision, and shall conduct all work operations accordingly. Attention is directed to "United States Fish and Wildlife Service Requirements," "Relations with California Department of Fish and Game," and "Contractor-Furnished Biological Monitor" of these special provisions.

All construction activity within giant garter snake habitat shall be conducted between May 1 and October 1.

Giant Garter Snake (GGS) habitat is defined as all areas within aquatic habitat and 61 meters beyond aquatic habitat. Aquatic habitat is defined as all rice fields, sloughs, drainages and ditches whether dry or wet within the project area except for Yankee Slough and the main stem of the Bear River. Most of this aquatic habitat, and the 61 meter buffer that combine to make up GGS habitat, is shown on the "Sutter 70 Widening Work window map" included in the Information Handout.

The Contractor shall furnish a U.S. Fish and Wildlife Service-approved biologist (GGS Biological Monitor), in conformance with the provisions in "Contractor-Furnished Biological Monitor" of these special provisions, to be available throughout all phases of project construction.

Project-related vehicles shall observe a 32-kilometer per hour speed limit within construction areas. Project-related vehicle traffic shall be restricted to established roads, construction areas, and other designated areas.

Nighttime construction in giant garter snake habitat shall be minimized to the extent possible.

No firearms shall be allowed on the project site in order to avoid injury or death of the giant garter snake, except for those possessed by authorized security personnel, or local, State, or Federal law enforcement officials. Construction personnel shall not have canine pets on-site in giant garter snake habitat to prevent harassment, injury, or mortality of giant garter snakes by dogs.

All food-related trash items such as wrappers, cans, bottles, and food scraps shall be disposed of in secure, closed containers. These containers shall be emptied and the contents removed from the project site weekly.

Any dewatered habitat, including, but not limited to, irrigation ditches, shall remain dry for at least 15 consecutive days prior to excavating or backfilling of the dewatered habitat. Any areas that are dewatered and fill back up with water will again be subject to the dewatering period.

To prevent inadvertent entrapment of giant garter snakes, all excavated, steep-walled holes or trenches more than 0.6 m deep shall be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, they shall be thoroughly inspected for trapped animals. If, at any time, a trapped giant garter snake is discovered, the GGS Biological Monitor shall immediately place escape ramps or other appropriate structures, provide assistance to allow the animal to escape, and contact the Engineer.

Plastic monofilament netting (erosion control matting) or similar material shall not be used at the project site because giant garter snakes and other snakes may become entangled or trapped in it. Acceptable substitutes shall include coconut coir matting or tackified hydroseeding.

No equipment cleaning or refueling in or within 46 meters of stream zone habitat or wetlands shall occur.

If a giant garter snake is encountered within the project limits during project construction activities, the GGS Biological Monitor shall be contacted, and if appropriate, as determined by the Engineer, all or some of the project construction activities in the immediate area shall be stopped until it is determined that the giant garter snake will not be harmed. Giant garter snakes encountered during construction activities shall be allowed to move away from construction activities on their own. All incidents of halted construction and any information regarding harm or harassment or suspected harm or harassment of a giant garter snake shall be reported to the Engineer within 12 hours. Notification shall include the date, time, and location of the incident or of the finding of a dead or injured giant garter snake. In the case of a dead giant garter snake, the snake shall be held in a secure location until instructions are received from the Engineer.

All costs associated with conforming to this section and the United States Fish and Wildlife Services Biological Opinion shall be considered as included in the prices paid for the various items of work and no additional compensation will be allowed therefor.

### **10-1.039 CONTRACTOR-FURNISHED BIOLOGICAL MONITOR**

The Contractor shall retain, and have available, the services of a qualified biologist to act as a Giant Garter Snake Biological Monitor (GGS Biological Monitor) for conducting pre-construction surveys and on-site monitoring of the project site, producing reports, and performing all other duties required to be performed by a GGS Biological Monitor as specified in these special provisions.

The GGS Biological Monitor shall perform duties as required by permit agreements between the Department and United States Fish and Wildlife Service (USFWS) and the California Department of Fish and Game (DFG). These permit agreements pertain to the following protected species: Giant Garter Snake (*Thamnophis gigas*) and Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*).

Attention is directed to "Giant Garter Snake Protection" of these special provisions.

"Biological Monitor" and "Biologist" referenced elsewhere in these specifications refer to a biologist retained by the Contractor. A qualified GGS Biological Monitor is defined as a person with education, training and experience to conduct giant garter snake surveys, monitor project activities, provide worker education programs, and to supervise or perform other implementing actions.

The Contractor may retain more than one qualified GGS Biological Monitor if approved in writing by the Engineer.

The Contractor shall submit the name and resume of all GGS Biological Monitors with the potential to work on this contract to the Engineer for approval at least 30 calendar days prior to performing any work activities. All GGS Biological Monitors must be approved by the Engineer, DFG, and USFWS. Approval of the GGS Biological Monitors is required prior to performing any work.

### **MONITORING**

The GGS Biological Monitor shall be available throughout all phases of project construction.

Giant Garter Snake habitat (GGS habitat) is defined as all areas within aquatic habitat and 61 meters beyond aquatic habitat. Aquatic habitat is defined as all rice fields, sloughs, drainages and ditches whether dry or wet within the project area except for Yankee Slough and the main stem of the Bear River.

No more than 24 hours prior to commencement of any ground disturbing construction activities each year within GGS habitat, the GGS Biological Monitor will inspect the project site. The GGS Biological Monitor shall provide the Engineer, DFG, and USFWS with a field report form documenting the pre-construction surveys within 24 hours of commencement of construction activities.

The GGS Biological Monitor shall be on-site during all initial ground disturbing activities within GGS habitat, and shall provide the Engineer with a report documenting the monitoring efforts within 12 hours after commencement of ground disturbing activities.

The GGS Biological Monitor shall re-inspect the project site whenever a lapse in construction activity of 14 calendar days or greater has occurred.

The GGS Biological Monitor shall be present during installation of ESA fencing within GGS habitat.

The GGS Biological Monitor shall conduct field inspections at least once every week for the duration of construction activities within GGS habitat.

### **TRAINING**

The GGS Biological Monitor shall present a worker-training program regarding the giant garter snake (GGS) and the valley elderberry longhorn beetle (VELB) to all Contractor employees, subcontractors and the Contractor's representatives on the project site in connection with the Contractor's work activities.

Prior to initial ground disturbance, all construction workers shall participate in an endangered species education program. Any workers new to the project site shall receive training within two weeks of arrival. An outline of the presentation shall be submitted to the Engineer for approval from the DFG and the USFWS prior to conducting the presentation.

The training shall cover at least the following for VELB and GGS:

- A. A description of the GGS and VELB and their habitat needs,
- B. An explanation of the status of the GGS and VELB and their protection under the State and Federal Endangered Species Acts,
- C. The importance of irrigation canals, marshes/wetlands, and seasonally flooded areas, such as rice fields, to the GGS and the elderberry host plant to the VELB,
- D. A description of the measures being taken to reduce effects to the GGS and VELB during project construction and implementation,

- E. The sensitivity of these species to construction and other human activities,
- F. Statutory protections afforded these species,
- G. Penalties for violations of Federal and State laws pertaining to the protection of listed species,
- H. Reporting requirements,
- I. Abiding by project avoidance and minimization features contained in these special provisions and applicable permits,
- J. Equipment movement restrictions,
- K. How to notify the Engineer and Biological Monitor when a listed species is seen,
- L. Never to touch or move a listed species except in cases of imminent death or harm,
- M. Firearms and domestic canine restrictions on the project site,
- N. Methods to avoid entrapment of the GGS in trenches, etc.
- O. The terms and conditions of the USFWS Biological opinion and Incidental take permit and the DFG 2081 Incidental take permit and fully protected species.

A report with a description of the presentation shall be submitted to the Engineer within 5 working days of the completion of the training.

Written documentation of the training shall be submitted to the Engineer, Sacramento USFWS Office, 2800 Cottage Way, Room W-2605, Sacramento, CA 95825 and the DFG Region 2 Office, 1701 Nimbus Road, Suite A, Rancho Cordova, CA 95670 within 30 days of training.

## REPORTS

The GGS Biological Monitor shall provide the Engineer, DFG, and USFWS with a field report form documenting the pre-construction surveys within 24 hours of commencement of construction activities.

The GGS Biological Monitor shall prepare a Weekly Log, which contains results of any GGS monitoring and the overall environmental compliance of the Contractor. The Weekly Log shall be submitted electronically and in signed, hard copy to the Engineer no later than 14 days following the date reported. The Weekly Log shall contain both a written record and digital photographs of the project site.

The GGS Biological Monitor shall prepare a Monthly Report, which contains the same information as the Weekly Log, to be submitted electronically and in signed, hard copy to the Engineer and the DFG no later than 14 days following the end of each month. The Monthly Log shall contain both a written record and digital photographs of the project site.

The GGS Biological Monitor shall be required to report any incidental take, including capture and relocation, to the Engineer and to the USFWS and DFG immediately by telephone at (916) 414-6700 and (916) 358-2900, respectively. The GGS Biological Monitor shall also notify these agencies by written letter addressed to the USFWS Chief, Endangered Species Division, and the DFG Regional Manager, Region 2, within three working days of the incident. The report shall include date(s), location(s), habitat description, and any corrective measures taken to protect the snake(s) found. Any dead or severely injured GGS shall be transferred to the Fish and Wildlife Service's Law Enforcement Office at 2800 Cottage Way, Room W2605, Sacramento, California, 95825-1846. The GGS Biological Monitor shall submit locality information to the USFWS using completed California Native Species Field Survey Forms or their equivalent, no more than 30 calendar days after completing the last field visit of the project site. Each form shall have an accompanying scale map of the site such as a photocopy of a portion of the appropriate 7.5 minute U.S. Geological Survey map and shall provide at least the following information: township, range, and quarter section; name of the 7.5 or 15 minute quadrangle; dates (day, month, year) of field work; number of individuals and life stage (where appropriate) encountered; and a description of the habitat by community-vegetation type. The GGS Biological Monitor shall also provide a high quality copy of this information to the Engineer and the USFWS Chief, Habitat Conservation Planning Division, 1416 9<sup>th</sup> Street, Sacramento, California 95814.

No later than 45 days after completion of the project the GGS Biological Monitor or a representative of the GGS Biological Monitor shall prepare a Final Mitigation Report to be submitted to the DFG and the Engineer. The final mitigation report shall be prepared by a knowledgeable, experienced biologist and shall include, at a minimum:

- A. A copy of the table in the Caltrans Mitigation Monitoring and Reporting Program, as supplied by the Engineer, containing GGS Biological Monitor's notes showing when each of the mitigation measures was implemented.
- B. All available information about project-related incidental take of species named in the DFG 2081 Incidental Take Permit.
- C. Information about other project impacts on the species named in the DFG 2081 Incidental Take Permit.
- D. Construction dates.
- E. An assessment of the effectiveness of the DFG 2081 Incidental Take Permit and the USFWS Incidental Take Permit conditions of approval in minimizing and compensating for project impacts.

- F. Recommendations on how mitigation measures might be changed to more effectively minimize and mitigate the impacts of future projects on these species.
- G. Any other pertinent information.

**PAYMENT**

The contract unit price paid per working day for the GGS Biological Monitor shall include full compensation for furnishing all labor, tools, equipment, incidentals, and for doing all the work involved in retaining a GGS Biological Monitor, preparing reports, and conforming to the provisions of the Standard Specifications and these special provisions.

No adjustment shall be allowed under Section 4-1.03B "Increased or Decreased Quantities" of the Standard Specifications."

**ENGINEER'S ESTIMATE**  
**03-3864U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	153220	REMOVE CONCRETE (CHANNEL)	M	120		
42	157560	BRIDGE REMOVAL (PORTION)	LS	LUMP SUM	LUMP SUM	
43	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
44	160121	REMOVE TREE STUMP	EA	830		
45	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
46	190101	ROADWAY EXCAVATION	M3	274 100		
47	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
48 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	M3	1426		
49 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	M3	790		
50 (F)	193030	PERVIOUS BACKFILL MATERIAL	M3	72		
51	193114	SAND BACKFILL	M3	48		
52	193118	CONCRETE BACKFILL	M3	130		
53	194001	DITCH EXCAVATION	M3	20 100		
54	197003	CONTOUR GRADING	M2	210 000		
55	198001	IMPORTED BORROW	M3	770 000		
56	198007	IMPORTED MATERIAL (SHOULDER BACKING)	TONN	16 900		
57 (S)	011106	WEED CONTROL MAT	M2	1370		
58 (S)	203003	STRAW (EROSION CONTROL)	TONN	220		
59 (S)	203014	FIBER (EROSION CONTROL)	KG	42 200		
60 (S)	203024	COMPOST (EROSION CONTROL)	M3	490		

**ENGINEER'S ESTIMATE  
03-3864U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61 (S)	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	24		
62 (S)	203045	PURE LIVE SEED (EROSION CONTROL)	KG	3180		
63 (S)	203056	COMMERCIAL FERTILIZER (EROSION CONTROL)	KG	42 800		
64 (S)	203061	STABILIZING EMULSION (EROSION CONTROL)	KG	10 700		
65 (S)	206003	HEADER BOARD	M	100		
66 (S)	208731	200 MM CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	M	72		
67 (S)	208733	300 MM CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	M	50		
68	250201	CLASS 2 AGGREGATE SUBBASE	M3	215 000		
69	260201	CLASS 2 AGGREGATE BASE	M3	161 000		
70	011107	TEXTURED PAVING	M2	2270		
71	390106	ASPHALT CONCRETE (OPEN GRADED)	TONN	17 800		
72	390143	ASPHALT CONCRETE (TYPE A, 37.5-MM MAXIMUM GRADING)	TONN	149 000		
73	390144	ASPHALT CONCRETE (TYPE A, 19-MM MAXIMUM GRADING)	TONN	92 100		
74	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	M2	5470		
75	394044	PLACE ASPHALT CONCRETE DIKE (TYPE C)	M	220		
76	394048	PLACE ASPHALT CONCRETE DIKE (TYPE E)	M	3420		
77	394049	PLACE ASPHALT CONCRETE DIKE (TYPE F)	M	190		
78	397001	ASPHALTIC EMULSION (PAINT BINDER)	TONN	50		
79 (S)	490671	2.4 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	172		
80 (S)	490680	2.1 M CAST-IN-DRILLED-HOLE CONCRETE PILING (ROCK SOCKET)	M	150		

**ENGINEER'S ESTIMATE  
03-3864U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	490700	FURNISH PILING (CLASS 900) (ALTERNATIVE W)	M	796		
82 (S)	490701	DRIVE PILE (CLASS 900) (ALTERNATIVE W)	EA	36		
83	BLANK					
84	BLANK					
85 (S)	493487	2.4 M PERMANENT STEEL CASING	M	172		
86	040932	FURNISH CAST-IN-STEEL SHELL CONCRETE PILING (760 MM)	M	659		
87 (S)	040933	DRIVE CAST-IN-STEEL CONCRETE PILE (760 MM)	EA	23		
88 (S)	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
89 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	301		
90 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	7197		
91 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	584		
92 (F)	511064	FRACTURED RIB TEXTURE	M2	47		
93	511106	DRILL AND BOND DOWEL	M	13		
94	511109	DRILL AND BOND DOWEL (EPOXY CARTRIDGE)	EA	276		
95	515020	REFINISH BRIDGE DECK	M2	298		
96 (S)	518050	PTFE BEARING	EA	16		
97 (S)	519128	JOINT SEAL ASSEMBLY (MR 100 MM)	M	24		
98 (S)	519130	JOINT SEAL ASSEMBLY (MR 161 MM - 240 MM)	M	24		
99 (S)	519142	JOINT SEAL (MR 40 MM)	M	58		
100 (S)	519144	JOINT SEAL (MR 50 MM)	M	66		

**ENGINEER'S ESTIMATE  
03-3864U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	1 368 600		
102 (S-F)	520120	HEADED BAR REINFORCEMENT	EA	7072		
103 (F)	560203	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	2624		
104 (S-F)	560204	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	2624		
105 (F)	560218	FURNISH SIGN STRUCTURE (TRUSS)	KG	9749		
106 (S-F)	560219	INSTALL SIGN STRUCTURE (TRUSS)	KG	9749		
107 (S)	561013	1372 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	11		
108	011108	ROADSIDE SIGN (BRIDGE RAIL MOUNTED)	KG	200		
109	566011	ROADSIDE SIGN - ONE POST	EA	170		
110	566012	ROADSIDE SIGN - TWO POST	EA	41		
111	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	16		
112	011109	200 MM REINFORCED CONCRETE PIPE	M	35		
113	650067	300 MM REINFORCED CONCRETE PIPE	M	160		
114	650068	375 MM REINFORCED CONCRETE PIPE	M	150		
115	650069	450 MM REINFORCED CONCRETE PIPE	M	670		
116	650072	525 MM REINFORCED CONCRETE PIPE	M	130		
117	650075	600 MM REINFORCED CONCRETE PIPE	M	910		
118	650077	750 MM REINFORCED CONCRETE PIPE	M	300		
119	650079	900 MM REINFORCED CONCRETE PIPE	M	490		
120	650081	1050 MM REINFORCED CONCRETE PIPE	M	290		

**ENGINEER'S ESTIMATE  
03-3864U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	650084	1200 MM REINFORCED CONCRETE PIPE	M	230		
122	650465	300 MM REINFORCED CONCRETE PIPE (CLASS IV)	M	180		
123	664021	600 MM CORRUGATED STEEL PIPE (2.77 MM THICK)	M	70		
124	664029	750 MM CORRUGATED STEEL PIPE (2.77 MM THICK)	M	14		
125	664034	900 MM CORRUGATED STEEL PIPE (2.77 MM THICK)	M	140		
126	011110	450 MM X 280 MM CORRUGATED STEEL PIPE ARCH	M	26		
127	690158	300 MM CORRUGATED STEEL PIPE DOWNDRAIN	M	66		
128	692001	ENTRANCE TAPER	EA	19		
129	705042	300 MM STEEL FLARED END SECTION	EA	11		
130	705045	600 MM STEEL FLARED END SECTION	EA	2		
131	705047	750 MM STEEL FLARED END SECTION	EA	1		
132	705048	900 MM STEEL FLARED END SECTION	EA	2		
133	011111	200 MM CONCRETE FLARED END SECTION	EA	3		
134	705220	300 MM CONCRETE FLARED END SECTION	EA	53		
135	705221	375 MM CONCRETE FLARED END SECTION	EA	5		
136	705222	450 MM CONCRETE FLARED END SECTION	EA	39		
137	705223	525 MM CONCRETE FLARED END SECTION	EA	4		
138	705224	600 MM CONCRETE FLARED END SECTION	EA	37		
139	705226	750 MM CONCRETE FLARED END SECTION	EA	11		
140	705227	900 MM CONCRETE FLARED END SECTION	EA	15		

**ENGINEER'S ESTIMATE  
03-3864U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181 (S)	840570	100 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 10.98 M - 3.66 M)	M	36 700		
182 (S)	840571	100 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 5.18 M - 2.14 M)	M	1750		
183 (S)	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	9170		
184 (S)	011116	SIGNAL AND LIGHTING (DEMOLITION)	LS	LUMP SUM	LUMP SUM	
185 (S)	860301	SIGNAL AND LIGHTING	LS	LUMP SUM	LUMP SUM	
186 (S)	860401	LIGHTING	LS	LUMP SUM	LUMP SUM	
187 (S)	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
188 (S)	011117	EMERGENCY VEHICLE DETECTOR SYSTEM	LS	LUMP SUM	LUMP SUM	
189 (S)	860925	TRAFFIC MONITORING STATION (COUNT)	LS	LUMP SUM	LUMP SUM	
190 (S)	011118	AUTOMATIC VEHICLE CLASSIFICATION SYSTEM	LS	LUMP SUM	LUMP SUM	
191 (S)	011119	TEMPORARY LIGHTING SYSTEM (STAGE 1, 2, 3, 4)	LS	LUMP SUM	LUMP SUM	
192 (S)	861503	MODIFY LIGHTING	LS	LUMP SUM	LUMP SUM	
193 (S)	011120	TEMPORARY SIGNAL SYSTEM (STAGE 3)	LS	LUMP SUM	LUMP SUM	
194	BLANK					
195	012961	GIANT GARTER SNAKE BIOLOGICAL	WDAY	765		
196	012962	MIGRATORY BIRD AND BAT PROTECTION	LS	LUMP SUM	LUMP SUM	
197	491012	FURNISH PILING (CLASS 400) (ALTERNATIVE W)	M	3279		
198	491013	DRIVE PILE (CLASS 400) (ALTERNATIVE W)	EA	186		
199	664010	300 MM CORRUGATED STEEL PIPE (2.01 MM THICK)	M	46		
200	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID: \_\_\_\_\_**