

DEPARTMENT OF TRANSPORTATION

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June 5, 2002

11-SD-56-2.9/10.6
11-172824

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN DIEGO COUNTY IN SAN DIEGO FROM CARMEL COUNTRY ROAD OVERCROSSING TO CARMEL MOUNTAIN ROAD OVERCROSSING.

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 June 20, 2002.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, and the Proposal and Contract.

Project Plan Sheets 128, 129, 130, 143, 144, 147, 149, 163, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 210, 214, 224, 225, 226, 230, 231, 232, 234, 235, 236, 239, 240, 241, 242, 243, 251, 252, 253, 254, 257, 258, 259, 260, 261, 283, 284, 285, 286, 290, 292, 303, 304, 305, 312, 313, 315, 317, 318, 320, 324, 333, 338, 339, 343, 344, 346, 347, 348, 451, 452, 475, 476, 477, 479, 480, 482, 485, 490, 503, 506, 546, 549, 550, 551, 554, 555, 562, 563, 571, 582, 583, 584, 619, 622, 634, 775, 779, 783, 786, 805, 824, 825, 827, 830, 843, and 845 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 257A, 258A, 260A, 261A, 291A, 302A, 302B, 302C, 304A, 305A, 309A, 310A, 312A, 347A, 347B, and 480A are added. Half-sized copies of the added sheets are attached for addition to the project plans.

Project Plan Sheets 256 and 319 are deleted.

Project Plan Sheet 27, "Layout L-13" is revised as follows:

The maintenance pullout shown left of Station 75+22 "A" is moved over to Station 75+06. The callout for it is changed from "+22" to "+06".

Project Plan Sheet No's. 41 through 95, "Profile P-1 through P-55" are revised as follows:

The earthwork quantities at the bottom of the sheets that are shown for excavation and embankment are deleted. Revised quantities are provided on added Project Plan Sheet 480A.

Project Plan Sheet 230, "Drainage Plan D-11" is revised as follows:

The minor concrete (ditch lining) shown from 35.958 Lt 68+06.762 "A" to 35.950 Lt 68+40.003 "A" is deleted. The callouts for this also are deleted.

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Project Plan Sheet 234, "Drainage Plan D-15" is revised as follows:

The callout for begin minor concrete (ditch lining) at 56.270 Lt 80+94.500 "A" is changed to read 39.454 Lt 80+89.301 "A", and redrawn to reflect new callout, which will eliminate angle changes.

Project Plan Sheet 241, "Drainage Plan D-22" is revised as follows:

The minor concrete (ditch lining) shown from 64.504 Lt 103+20.022 "A" to the match line at 104+20 "A" is deleted. The callout for begin minor concrete (ditch lining) at 64.504 Lt 103+20.022 "A" is also deleted.

Project Plan Sheet 242, "Drainage Plan D-23" is revised as follows:

The callout for end minor concrete (ditch lining) at 35.350 Lt 104+21.258 "A" is deleted. The callout for end minor concrete (ditch lining) with a cut-off wall and RSP at 35.343 Lt 106+07.389 "A" is deleted and the ditch shown from this callout to the match line at 107+00 is deleted.

In the Special Provisions, "NOTICE TO CONTRACTORS," the fourth paragraph is revised to read:

"Cross sections for this project are available in electronic format from the following Website address:

www.dot.ca.gov/dist11/construc/

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

"Attention is directed to "Temporary Fence (Type ESA)" of these special provisions regarding the construction of fence prior to any clearing and grubbing work."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL AND AMENDMENTS," the following sentence is added immediately before the last sentence of the fourth paragraph:

"In no case shall the conditional approval of the SWPPP exceed 30 days."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL AND AMENDMENTS," the eighth paragraph is deleted.

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "COST BREAK-DOWN," the first paragraph is revised as follows:

"The Contractor shall submit to the Engineer a cost break-down for the contract lump sum item of water pollution control, as part of the SWPPP."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "COST BREAK-DOWN," the second paragraph is deleted.

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In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "COST BREAK-DOWN," the last sentence of the third paragraph is revised as follows:

"The cost break-down shall not include water pollution control practices for which there is a separate contract item."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "COST BREAK-DOWN," the third sentence of the fourth paragraph which reads as follows is deleted:

"The cost break-down shall be submitted and approved within the same times specified for the SWPPP."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "COST BREAK-DOWN," the eighth paragraph is deleted.

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "REPORTING REQUIREMENTS," item A of "Report of Discharges, Notices or Orders" is revised as follows:

"A. The date, time, location, nature of the operation, type and quantity of discharge, including the cause or nature of the notice or order."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "PAYMENT," the third paragraph is revised as follows:

"The contract lump sum price paid for water pollution control shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing, constructing, removing, and disposing of water pollution control practices, except those for which there is a contract item of work, and excluding developing, preparing, obtaining approval of, revising, and amending the SWPPP, as specified in the Standard Specifications and these special provisions, or as directed by the Engineer."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "PAYMENT," the text under "Wind Erosion Control" is revised as follows:

"No sharing of maintenance costs will be allowed."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "PAYMENT," the second sentence of the sixth paragraph is revised as follows:

"Clean-up, repair, removal, disposal, and replacement of temporary water pollution control practices required due to improper installation or due to damage caused by the Contractor's negligence shall not be considered as included in the cost for performing maintenance and no additional compensation will be allowed therefor."

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In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)," in the subsection "PAYMENT," the ninth paragraph is revised as follows:

"Those water pollution control practices for which there is a contract item of work will be measured and paid for as that contract item of work."

In the Special Provisions, Section 10-1.09 "TEMPORARY EROSION CONTROL (BONDED FIBER MATRIX)," in the subsection "MEASUREMENT AND PAYMENT," the third paragraph is revised as follows:

"Temporary erosion control (bonded fiber matrix) will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan"."

In the Special Provisions, Section 10-1.10 "TEMPORARY EROSION CONTROL," in the subsection "MEASUREMENT AND PAYMENT," the third paragraph is revised as follows:

"Temporary erosion control will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan"."

In the Special Provisions, Section 10-1.11 "TEMPORARY GRAVEL BAG," in the subsection "MEASUREMENT AND PAYMENT," the third paragraph is revised as follows:

"Temporary gravel bags will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan"."

In the Special Provisions, Section 10-1.12 "TEMPORARY CONCRETE WASHOUT," the following two paragraphs are added after the tenth paragraph:

"Temporary concrete washouts will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan".

No adjustment of compensation will be made for any increase or decrease in the quantities of temporary concrete washouts required, regardless of the reason for increase or decrease. The provisions in section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications shall not apply to temporary concrete washouts."

In the Special Provisions, Section 10-1.13 "TEMPORARY CONSTRUCTION ENTRANCE (PLATES)," the twelfth paragraph is revised as follows:

"Temporary construction entrance (plates) will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan"."

In the Special Provisions, Section 10-1.14 "TEMPORARY DESILTING BASIN," the thirteenth paragraph is revised as follows:

"Temporary desilting basins will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan"."

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In the Special Provisions, Section 10-1.19, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," in the subsection "COMPUTER EQUIPMENT AND SOFTWARE," the text that specifies the minimum computer system to be furnished is revised as follows:

- "A. Two (2) Complete computer server systems, including keyboard, mouse, 430 mm (17 inch) color SVGA monitor (1,024x768 pixels), Intel Pentium IV 1.5 GHZ micro dual (2) processor chip, or equal.
- B. Two (2) Computer operating server system software packages, compatible with the selected processing unit which shall be Windows NT 4.0, or Windows 2000 server with 5 client licenses or equal.
- C. Minimum 1 GB gigabytes of random access memory (RAM) for each computer.
- D. Four (4) eighteen (18) gigabyte minimum hard disk drives (all drives must match for RAID), primary controller (perc3-SC, 32MB, 1 INT Channel), First network adapter (onboard NIC only), Tape backup Unit:(PV110T, DLTVS80, 40/80GB, half height, no controller, Internal), a 1.44 megabyte 90 mm (3.5 inch) floppy disk drive, 48x speed minimum CD-ROM drive, 20X /10X /40X CD-RW Recorder, 20 gigabyte tape and ethernet card , uninterrupted power supply, 56K modem for each computer.
- E. One (1) color-ink-jet plotter with a minimum 16 megs RAM, capable of 600 dots per 25.4 mm (1 inch) color, 600 dots per 25.4 mm (1 inch) monochrome, or equivalent plotter capable of printing fully legible, time scaled charts, and network diagrams, in four colors, with a minimum size of 915 mm by 1220 mm (36 inch by 48 inch, E size) and is compatible with the selected system.
- F. One (1) CPM schedule software package which shall be Primavera Project Planner, version 3.0 for Windows NT 4.0.
- G. Twenty five (25) handheld Personal Digital Assistant (PDA) units complete, including 205 mm (8.1 inch) diagonal half-VGA DSTN color touchscreen, Ports: Serial, VGA out, infrared transmitter/receiver, audio jack, 168MHz MIPS processor, Microsoft® Windows® for Handheld PC 2000, 24MB ROM, 32MB RAM, 16MB CompactFlash™ Storage Card, internal 16MB Flash Memory (14MB available for storage), (2) Lithium ion battery for each unit, AC adapter, (2) Stylus pen for touchscreen for each unit, 78-key QWERTY keyboard, 1 Type II PC Card slot, 1 Type II CompactFlash™ slot and Integrated V.90 modem."

In the Special Provisions, Section 10-1.26, "MAINTAINING TRAFFIC," the following paragraphs and tables are added after the fourth paragraph:

"At locations where falsework pavement lighting or pedestrian openings through falsework are designated, falsework lighting shall be installed in conformance with the provisions in Section 86-6.11, "Falsework Lighting," of the Standard Specifications.

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Openings shall be provided through bridge falsework for the use of public traffic at each location where falsework is constructed over the streets or routes listed in the following tables:

Camino Ruiz Undercrossing (SB)

	Number	Width	Height
Vehicle Openings	1	10.3m	4.57m
Pedestrian Openings	1	1.52m	3.05m
	Location		Spacing
Falsework Pavement Lighting	R & L		7.0m

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

Camino Ruiz Undercrossing (NB)

	Number	Width	Height
Vehicle Openings	1	10.64m	4.57m
Pedestrian Openings	1	1.52m	3.05m
	Location		Spacing
Falsework Pavement Lighting	R & L		7.0m

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

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Vehicular Undercrossing

	Number	Width	Height
Vehicle Openings	1	7.2m	4.57m
	Location		Spacing
Falsework Pavement Lighting	R & L		9.0m (staggered 1/2 space)

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

The exact location of openings will be determined by the Engineer."

The type, minimum width, height, and number of openings at each location, and the location and maximum spacing of falsework lighting, if required for each opening, shall conform to the requirements in the table. The width of vehicular openings shall be the clear width between temporary railings or other protective work. The spacing shown for falsework pavement lighting is the maximum distance center to center in meters between fixtures.

In the Special Provisions, Section 10-1.35, "TEMPORARY CRASH CUSHION MODULE," the following paragraph is added after the last paragraph:

"Temporary crash cushion modules placed in conformance with the provisions in "Public Safety" of these special provisions will not be measured nor paid for."

In the Special Provisions, Section 10-1.36, "EXISTING HIGHWAY FACILITIES," in the subsection "ABANDON CULVERT AND PIPE LINE," the eighth and ninth paragraphs are replaced with the following paragraph:

"Full compensation for concrete plugs, pipe removal, structure excavation, and backfill shall be considered as included in the contract unit price paid for abandon culvert and pipeline and no additional compensation will be allowed therefor."

In the Special Provisions, Section 10-1.45, "FIBER ROLLS," in the subsection "MEASUREMENT AND PAYMENT," the following paragraphs are added after the second paragraph:

"Fiber rolls will only be measured and paid for when placed at locations shown on the project plans, where designated by the Engineer, or when placed in accordance with the Contractor's approved "Storm Water Pollution Prevention Plan".

No adjustment of compensation will be made for any increase or decrease in the quantities of fiber rolls required, regardless of the reason for increase or decrease. The provisions in section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications shall not apply to fiber rolls."

In the Special Provisions, Section 10-1.49, "IMPORTED TOPSOIL," is replaced with new section 10-1.49, "NATIVE TOPSOIL," as attached.

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In the Proposal and Contract, the Engineer's Estimate Items 17, 42, 52, 55, 57, 58, 60, 62, 64, 99, 105, 106, 107, 108, 109, 110, 112, 113, 114, 123, 124, 136, 137, 140, 141, 142, 143, 147, 148, 156, 157, 158, 180, 189, 190, 195, 196, 197, 199, 205, 212, 227, 232, and 234 are revised, and Items 255, 256, and 257 are added and item 254 is deleted as attached.

To Proposal and Contract book holders:

Replace the entire Engineer's Estimate in the Proposal with the attached revised Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

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 UPS overnight mail to Proposal and Contract book holders to ensure that each receives it.

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
Office Engineer

Attachments

10-1.49 NATIVE TOPSOIL

Native topsoil shall be obtained from sources within the project limits or from sources outside the highway right of way in conformance with the provisions in Section 19-2.07, "Selected Material," and Section 20-2.01, "Topsoil," of the Standard Specifications and these special provisions. Native topsoil shall consist of excavating (when obtained from within the project limits), windrowing or stockpiling, removing from windrows or stockpiles, spreading, and compacting native topsoil in conformance with these special provisions and as designated by the Engineer.

Attention is directed to "Clearing and Grubbing" of these special provisions regarding the clearing of vegetation. Excavating native topsoil shall not be performed in an area until clearing and grubbing has been completed in that area.

Native topsoil obtained from sources within the project limits shall be obtained by excavating the top 300 mm of material from proposed excavation and embankment areas and other areas designated by the Engineer. Native topsoil shall be stockpiled adjacent to the top of proposed excavation slopes and adjacent to the toe of proposed embankment slopes. When native topsoil cannot be stockpiled outside the slope lines as specified herein, excavated native topsoil may be stockpiled at other locations when approved in writing by the Engineer.

Native topsoil obtained from sources outside of the highway right of way shall be stockpiled at the locations of native topsoil obtained from sources within the project limits.

Upon completion of the grading operations for the excavation and embankment slopes and other areas to receive native topsoil, the native topsoil shall be spread on the areas designated to receive native topsoil. Native topsoil shall be placed to a uniform depth of not less than 50 mm and compacted or stabilized in a manner that retains the material in place on the slopes. The native topsoil shall not be compacted or stabilized to the degree that the native topsoil is not maintained as a viable growing medium.

Quantities of native topsoil will be measured by the cubic meter in the same manner specified for measuring imported topsoil as provided in Section 20-3.06, "Measurement," of the Standard Specifications.

The contract price paid per cubic meter for native topsoil shall include full compensation for furnishing all labor, materials, tools equipment, and incidentals, and for doing all the work involved in native topsoil including excavating, windrowing or stockpiling, removing from windrows or stockpiles, spreading and compacting or stabilizing native topsoil obtained from sources within the project limits or from sources outside the highway right of way, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

ENGINEER'S ESTIMATE

11-172824

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	023788	ELECTRONIC MOBILE DIARY COMPUTER SYSTEM DATA DELIVERY	LS	LUMP SUM	LUMP SUM	
3	070018	TIME-RELATED OVERHEAD	WDAY	560		
4	023789	TEMPORARY FENCE (ESA)	M	3530		
5	023790	TEMPORARY STEEL PLATE COVER	EA	3		
6	023791	TEMPORARY 450 MM CULVERT	M	72		
7	023792	TEMPORARY ASPHALT CONCRETE APRON	EA	3		
8	023793	TEMPORARY INLET	EA	3		
9	023794	TEMPORARY ROCK SLOPE PROTECTION (BACKING NO.2, METHOD B)	M3	2		
10 (F)	023795	TEMPORARY IRRIGATION SUPPLY LINE	M	426		
11	023796	TEMPORARY 100 MM BLOW-OFF ASSEMBLY	EA	1		
12	023797	TEMPORARY 50 MM COMBINATION AIR AND VACUUM VALVE	EA	1		
13 (S)	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
14	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
15 (S)	074023	TEMPORARY EROSION CONTROL	HA	200		
16 (S)	023798	TEMPORARY EROSION CONTROL (BONDED FIBER MATRIX)	HA	99		
17	023799	TEMPORARY GRAVEL BAG	EA	13 000		
18	023800	TEMPORARY CONCRETE WASHOUT	EA	23		
19	023801	TEMPORARY CONSTRUCTION ENTRANCE (PLATES)	EA	24		
20	023802	TEMPORARY DESILTING BASIN	EA	6		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21 (S)	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
22 (S)	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
23 (S)	120120	TYPE III BARRICADE	EA	96		
24 (S)	120140	BARRICADE (LEFT IN PLACE)	EA	5		
25 (S)	120151	TEMPORARY TRAFFIC STRIPE (TAPE)	M	6810		
26 (S)	120152	TEMPORARY PAVEMENT MARKING (TAPE)	M2	15		
27 (S)	023803	TRAFFIC PLASTIC DRUMS	EA	400		
28 (S)	120300	TEMPORARY PAVEMENT MARKER	EA	540		
29 (S)	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	4		
30 (S)	128660	TEMPORARY FLASHING BEACON	LS	LUMP SUM	LUMP SUM	
31 (S)	129000	TEMPORARY RAILING (TYPE K)	M	7590		
32	150206	ABANDON CULVERT	EA	8		
33	150227	ABANDON PIPELINE	EA	2		
34	150605	REMOVE FENCE	M	1260		
35	150645	REMOVE BARRICADE	EA	9		
36 (S)	150662	REMOVE METAL BEAM GUARD RAILING	M	12		
37	150717	REMOVE TRAFFIC STRIPE AND PAVEMENT MARKING	M2	640		
38	150730	REMOVE CHANNELIZERS	EA	45		
39	150742	REMOVE ROADSIDE SIGN	EA	17		
40 (S)	150760	REMOVE SIGN STRUCTURE	EA	1		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150820	REMOVE INLET	EA	6		
42	150821	REMOVE HEADWALL	EA	5		
43	150860	REMOVE BASE AND SURFACING	M3	1980		
44	152604	MODIFY INLET	EA	5		
45 (S)	153154	COLD PLANE ASPHALT CONCRETE PAVEMENT (60 MM MAXIMUM)	M2	320		
46	153210	REMOVE CONCRETE	M3	220		
47	153229	REMOVE CONCRETE BARRIER (TYPE K)	M	230		
48 (S)	156590	REMOVE CRASH CUSHION (SAND FILLED)	EA	12		
49	160101	CLEARING AND GRUBBING	HA	66		
50	160120	REMOVE TREE	EA	98		
51	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
52	190101	ROADWAY EXCAVATION	M3	1 570 000		
53 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	M3	11 393		
54 (F)	192020	STRUCTURE EXCAVATION (TYPE D)	M3	3160		
55 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	M3	425		
56 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	M3	8057		
57 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	M3	450		
58	193114	SAND BACKFILL	M3	60		
59 (F)	193119	LEAN CONCRETE BACKFILL	M3	390		
60	194001	DITCH EXCAVATION	M3	620		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	198001	IMPORTED BORROW	M3	35 000		
62 (S)	024135	NATIVE TOPSOIL	M3	22 000		
63 (S)	200114	ROCK BLANKET	M2	2960		
64 (S)	203001	EROSION CONTROL (BLANKET)	M2	13 200		
65 (S)	203014	FIBER (EROSION CONTROL)	KG	73 100		
66 (S)	203021	FIBER ROLLS	M	37 300		
67 (S)	203024	COMPOST (EROSION CONTROL)	KG	78 000		
68 (S)	203026	MOVE -IN/MOVE - OUT (EROSION CONTROL)	EA	8		
69 (S)	023804	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	7		
70 (S)	023805	PURE LIVE SEED (EROSION CONTROL) (TYPE 1)	KG	170		
71 (S)	023806	PURE LIVE SEED (EROSION CONTROL) (TYPE 2)	KG	690		
72 (S)	023807	PURE LIVE SEED (EROSION CONTROL) (TYPE 3)	KG	110		
73 (S)	023808	PURE LIVE SEED (EROSION CONTROL) (TYPE 4)	KG	300		
74 (S)	023809	PURE LIVE SEED (EROSION CONTROL) (TYPE 5)	KG	11		
75 (S)	203056	COMMERCIAL FERTILIZER (EROSION CONTROL)	KG	1220		
76 (S)	203061	STABILIZING EMULSION (EROSION CONTROL)	KG	7320		
77 (S)	204099	PLANT ESTABLISHMENT WORK	LS	LUMP SUM	LUMP SUM	
78 (S)	023810	TRUCK WATERING	LS	LUMP SUM	LUMP SUM	
79 (S)	208000	IRRIGATION SYSTEM	LS	LUMP SUM	LUMP SUM	
80	208038	NPS 3 SUPPLY LINE (BRIDGE)	M	1147		

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81 (S)	208304	WATER METER	EA	7		
82 (S)	208435	50 MM BACK FLOW PREVENTER ASSEMBLY	EA	1		
83 (S)	208731	200 MM CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	M	1130		
84	220101	FINISHING ROADWAY	LS	LUMP SUM	LUMP SUM	
85	260201	CLASS 2 AGGREGATE BASE	M3	96 300		
86	290211	ASPHALT TREATED PERMEABLE BASE	M3	9830		
87	390155	ASPHALT CONCRETE (TYPE A)	TONN	43 400		
88	393001	PAVEMENT REINFORCING FABRIC	M2	330		
89	394001	PLACE ASPHALT CONCRETE DIKE	M	5600		
90	394002	PLACE ASPHALT CONCRETE (MISCELLANEOUS AREA)	M2	4230		
91	023811	ASPHALTIC EMULSION (FOG SEAL COAT AND PAINT BINDER)	TONN	27		
92	401000	CONCRETE PAVEMENT	M3	22 700		
93	404092	SEAL PAVEMENT JOINT	M	32 500		
94	490505	FURNISH STEEL PILING (HP 250 X 62)	M	1623		
95 (S)	490506	DRIVE STEEL PILE (HP 250 X 62)	EA	89		
96	490511	FURNISH STEEL PILING (HP 250 X 85)	M	1776		
97 (S)	490512	DRIVE STEEL PILE (HP 250 X 85)	EA	100		
98	490570	FURNISH STEEL PILING (HP 360 X 174)	M	109		
99 (S)	490657	600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	2237		
100 (S)	490665	1.8 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	67		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	490774	FURNISH PILING (CLASS 625C) (ALTERNATIVE V)	M	1173		
102 (S)	490775	DRIVE PILE (CLASS 625C) (ALTERNATIVE V)	EA	128		
103 (S)	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
104 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	2885		
105 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	15 261		
106 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	M3	194		
107 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	M3	1284		
108 (F)	510126	CLASS 2 CONCRETE (MINOR STRUCTURE)	M3	119		
109 (F)	510409	CLASS 1 CONCRETE (MINOR STRUCTURE)	M3	151		
110 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	386		
111 (F)	023812	MINOR CONCRETE (MINOR STRUCTURE) (CONCRETE ENCASEMENT)	M3	442		
112 (F)	511064	FRACTURED RIB TEXTURE	M2	606		
113 (F)	048987	COBBLESTONE TEXTURE	M2	171		
114 (F)	518002	SOUND WALL (MASONRY BLOCK)	M2	2027		
115	023813	300 MM CUT-OFF WALL	EA	2		
116	023814	600 MM CUT-OFF WALL	EA	4		
117	023815	900 MM CUT-OFF WALL	EA	3		
118 (S)	519117	JOINT SEAL (MR 30 MM)	M	52		
119 (S)	519125	JOINT SEAL ASSEMBLY (MR 70 MM)	M	31		
120 (S)	519128	JOINT SEAL ASSEMBLY (MR 100 MM)	M	63		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121 (S)	519142	JOINT SEAL (MR 40 MM)	M	114		
122 (S)	519144	JOINT SEAL (MR 50 MM)	M	182		
123 (S-F)	520102	BAR REINFORCING STEEL (BRIDGE)	KG	2 380 836		
124 (S-F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	KG	11 560		
125	520117	WELDED HEADED BAR REINFORCEMENT	EA	602		
126 (S)	560203	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	4568		
127 (S-F)	560204	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	KG	4568		
128 (S-F)	560208	FURNISH SIGN STRUCTURE (TUBULAR)	KG	18 105		
129 (S-F)	560209	INSTALL SIGN STRUCTURE (TUBULAR)	KG	18 105		
130 (S-F)	560213	FURNISH SIGN STRUCTURE (LIGHTWEIGHT)	KG	1850		
131 (S-F)	560214	INSTALL SIGN STRUCTURE (LIGHTWEIGHT)	KG	1850		
132 (S-F)	560218	FURNISH SIGN STRUCTURE (TRUSS)	KG	5980		
133 (S-F)	560219	INSTALL SIGN STRUCTURE (TRUSS)	KG	5980		
134 (S-F)	561008	760 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	16		
135 (S-F)	561010	1070 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	27		
136	566011	ROADSIDE SIGN - ONE POST	EA	66		
137	566012	ROADSIDE SIGN - TWO POST	EA	3		
138	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	20		
139	023816	INSTALL 1500 MM HIGH DENSITY POLYETHYLENE PIPE	M	340		
140	650069	450 MM REINFORCED CONCRETE PIPE	M	55		

ENGINEER'S ESTIMATE**11-172824**

Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	650075	600 MM REINFORCED CONCRETE PIPE	M	2820		
142	650077	750 MM REINFORCED CONCRETE PIPE	M	340		
143	650079	900 MM REINFORCED CONCRETE PIPE	M	220		
144	650081	1050 MM REINFORCED CONCRETE PIPE	M	300		
145	650084	1200 MM REINFORCED CONCRETE PIPE	M	370		
146	650089	1500 MM REINFORCED CONCRETE PIPE	M	290		
147	664098	600 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (3.51 MM THICK)	M	490		
148	664111	900 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (3.51 MM THICK)	M	29		
149	664125	1350 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (3.51 MM THICK)	M	140		
150	664135	1800 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (3.51 MM THICK)	M	140		
151	680931	150 MM PERFORATED PLASTIC PIPE UNDERDRAIN	M	3420		
152	680933	200 MM PERFORATED PLASTIC PIPE UNDERDRAIN	M	2530		
153	681134	80 MM PLASTIC PIPE (EDGE DRAIN)	M	11 000		
154	681137	80 MM PLASTIC PIPE (EDGE DRAIN OUTLET)	M	2720		
155	023817	PULL BOX (EDGE DRAIN)	EA	57		
156	023818	200 MM CORRUGATED PLASTIC PIPE DOWNDRAIN	M	160		
157	690282	600 MM BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (3.51 MM THICK)	M	500		
158	690289	900 MM BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (3.51 MM THICK)	M	28		
159	023819	50 MM COMBINATION AIR AND VACUUM VALVE	EA	7		
160	023820	100 MM COMBINATION AIR AND VACUUM VALVE	EA	2		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	023821	600 MM BUTTERFLY VALVE	EA	4		
162	023822	3 ANODE CATHODIC TEST STATION	EA	6		
163	023823	CATHODIC TEST STATION - 2 WIRE	EA	2		
164	023824	750 MM BUTTERFLY VALVE	EA	2		
165	023825	25 MM COMBINATION AIR AND VACUUM VALVE	EA	4		
166	023826	300 MM DUCTILE IRON PIPE CLASS 53 WITH RESTRAINED JOINT	M	250		
167	023827	300 MM POLYVINYL CHLORIDE CLASS 150	M	16		
168	023828	380 MM SDR 35 POLYVINYL CHLORIDE PIPE	M	160		
169	023829	ANCHOR BLOCK	EA	5		
170	023830	300 MM FLEXIBLE EXPANSION JOINT WITH MECHANICAL JOINT ENDS	EA	4		
171	703574	450 MM WELDED STEEL PIPE (9.53 MM THICK)	M	50		
172	023831	ACCESS MANHOLE BURIED	EA	1		
173	023832	ACCESS MANHOLE NON-BURIED	EA	3		
174	023833	TELEVISION INSPECTION	LS	LUMP SUM	LUMP SUM	
175	023834	300 MM DUCTILE IRON PIPE CLASS 250	M	160		
176	023835	300 MM POLYVINYL CHLORIDE C-900 RECYCLED WATER PIPELINE	M	240		
177	023836	600 MM CEMENT MORTAR LINED AND TAPE COATED (4.00 MM THICK) STEEL RECYCLED WATER	M	1270		
178	023837	750 MM CEMENT MORTAR LINED AND TAPE COATED (12.5 MM THICK) STEEL RECYCLED WATER	M	160		
179	023838	900 MM CEMENT MORTAR LINED AND TAPE COATED (12.5 MM THICK) STEEL RECYCLED WATER	M	160		
180	707479	900 MM REINFORCED CONCRETE PIPE RISER	M	25		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181	208494	100 MM GATE VALVE	EA	5		
182	208495	150 MM GATE VALVE	EA	2		
183	705954	300 MM GATE VALVE	EA	2		
184	023839	50 MM BLOW-OFF ASSEMBLY	EA	4		
185	023840	100 MM BLOW-OFF ASSEMBLY	EA	6		
186	023841	150 MM BLOW-OFF ASSEMBLY	EA	2		
187 (S)	023842	600 MM STEEL PIPE SLEEVE	M	160		
188	721008	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	M3	120		
189	721009	ROCK SLOPE PROTECTION (FACING, METHOD B)	M3	1880		
190	721011	ROCK SLOPE PROTECTION (BACKING NO. 2, METHOD B)	M3	25		
191	721023	ROCK SLOPE PROTECTION (1/2T, METHOD B)	M3	540		
192	721024	ROCK SLOPE PROTECTION (1/4T, METHOD B)	M3	120		
193 (F)	721810	SLOPE PAVING (CONCRETE)	M3	333		
194 (F)	048988	SLOPE PAVING (COBBLE)	M2	2204		
195	727901	MINOR CONCRETE (DITCH LINING)	M3	240		
196	727902	MINOR CONCRETE (SLOPE PROTECTION)	M3	290		
197	729010	ROCK SLOPE PROTECTION FABRIC	M2	4010		
198	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	M3	630		
199 (-F)	750001	MISCELLANEOUS IRON AND STEEL	KG	19 574		
200 (S-F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	15 927		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201 (S)	800392	CHAIN LINK FENCE (TYPE CL-1.8, VINYL-CLAD)	M	15 400		
202 (S)	023843	CHAIN LINK FENCE (TYPE CL-3.6, VINYL CLAD)	M	820		
203 (S)	802586	1.2 M CHAIN LINK GATE (TYPE CL-1.8, VINYL-CLAD)	EA	5		
204	023844	4.3 M CHAIN LINK GATE (TYPE CL-1.8, VINYL CLAD)	EA	1		
205	820107	DELINEATOR (CLASS 1)	EA	63		
206	820110	MILEPOST MARKER	EA	8		
207 (S)	820118	GUARD RAILING DELINEATOR	EA	87		
208 (S)	832001	METAL BEAM GUARD RAILING	M	1890		
209 (S-F)	048989	ALUMINUM BRIDGE RAILING	M	362		
210 (S-F)	833032	CHAIN LINK RAILING (TYPE 7)	M	211		
211 (F)	833033	CHAIN LINK RAILING (TYPE 7 MODIFIED)	M	1042		
212 (F)	833125	CONCRETE BARRIER (TYPE 25)	M	2094		
213 (F)	048990	CONCRETE BARRIER (TYPE BP 25)	M	381		
214	023845	CONCRETE BARRIER (TYPE BP25 B)	M	550		
215 (F)	833195	CONCRETE BARRIER (TYPE 29)	M	322		
216 (S)	839521	CABLE RAILING	M	120		
217 (S)	839551	TERMINAL SECTION (TYPE B)	EA	22		
218 (S)	839565	TERMINAL SYSTEM (TYPE SRT)	EA	17		
219 (S)	839568	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	EA	15		
220 (S)	839569	TERMINAL ANCHOR ASSEMBLY (TYPE CA)	EA	11		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
221 (S)	839570	RETURN SECTION	EA	10		
222 (S)	839591	CRASH CUSHION, SAND FILLED	EA	28		
223 (S)	839601	CRASH CUSHION (TYPE CAT)	EA	10		
224 (S)	839602	CRASH CUSHION (TYPE CAT) BACKUP	EA	10		
225 (S)	839604	CRASH CUSHION (REACT 9CBB)	EA	1		
226 (F)	048991	CONCRETE BARRIER (TYPE BP 732)	M	358		
227 (S)	840515	THERMOPLASTIC PAVEMENT MARKING	M2	220		
228 (S)	840562	150 MM THERMOPLASTIC TRAFFIC STRIPE	M	35		
229 (S)	840563	200 MM THERMOPLASTIC TRAFFIC STRIPE	M	2060		
230 (S)	840564	200 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 3.66 M - 0.92 M)	M	540		
231 (S)	840571	100 MM THERMOPLASTIC TRAFFIC STRIPE (BROKEN 5.18 M - 2.14 M)	M	280		
232 (S)	840656	PAINT TRAFFIC STRIPE (2-COAT)	M	53 900		
233 (S)	850101	PAVEMENT MARKER (NON- REFLECTIVE)	EA	4730		
234 (S)	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	3150		
235 (S)	860251	SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
236 (S)	860252	SIGNAL AND LIGHTING (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
237 (S)	860402	LIGHTING (CITY STREET)	LS	LUMP SUM	LUMP SUM	
238 (S)	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM	LUMP SUM	
239	860640	IRRIGATION CONTROLLER ENCLOSURE CABINET	EA	1		
240 (S)	860761	LIGHTING CONDUIT (BRIDGE)	M	1450		

ENGINEER'S ESTIMATE

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Item	Item Code	Item	Unit of Measure	Estimated Quantity	Unit Price	Item Total
241 (S)	860796	SPRINKLER CONTROL CONDUIT (BRIDGE)	M	1820		
242 (S)	860931	TRAFFIC MONITORING STATION (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
243 (S)	860932	TRAFFIC MONITORING STATION (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
244 (S)	860933	TRAFFIC MONITORING STATION (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
245 (S)	860934	TRAFFIC MONITORING STATION (LOCATION 4)	LS	LUMP SUM	LUMP SUM	
246 (S)	860935	TRAFFIC MONITORING STATION (LOCATION 5)	LS	LUMP SUM	LUMP SUM	
247 (S)	860936	TRAFFIC MONITORING STATION (LOCATION 6)	LS	LUMP SUM	LUMP SUM	
248 (S)	860791	COMMUNICATION CONDUIT	LS	LUMP SUM	LUMP SUM	
249 (S)	861101	RAMP METERING SYSTEM (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
250 (S)	861102	RAMP METERING SYSTEM (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
251 (S)	861103	RAMP METERING SYSTEM (LOCATION 3)	LS	LUMP SUM	LUMP SUM	
252 (S)	861490	REMOVE FLASHING BEACON AND LIGHTING	LS	LUMP SUM	LUMP SUM	
253	994925	BICYCLE BARRIER POST	EA	14		
254	BLANK					
255	668177	JACKED 600 MM BITUMINOUS COATED CORRUGATED STEEL PIPE (2.01 MM THICK)	M	30		
256	190139	ROADWAY EXCAVATION (USUITABLE MATERIAL)	M3	12 000		
257	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID: _____