

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE CO PFH 80-1(1) & 2(2)	PAGE OF PAGES 1 62
2. AMENDMENT/MODIFICATION NO. 0002	3. EFFECTIVE DATE 12-1-2003	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable) CO PFH 80-1(1) & 2(2)	
6. ISSUED BY Federal Highway Administration Central Federal Lands Highway Division, HFAC-16 555 Zang Street, Room 259 Lakewood, CO 80228-1010	CODE 69050001	7. ADMINISTERED BY (If other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(✓)	9A. AMENDMENT OF SOLICITATION NO. CO PFH 80-1(1) & 2(2)
			✓	9B. DATED (SEE ITEM 11) 11-3-2003
				10A. MODIFICATION OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning one copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return *(SEE 11. ABOVE) copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

INVITATION FOR BID DOCUMENT (all changes as noted are effective 12/01/2003):

**Remove Schedules A, B and C, Pages B-1 through B-36. Replace with new Pages B-1 through B-36; refer to Summary of Quantity Sheets (noted on Page 2, SF-30 continuation sheet) for specific bid item changes.

GUANELLA PASS ROAD SPECIAL CONTRACT REQUIREMENTS (all changes as noted are effective 12/01/2003):

**Remove Pages I-4 and I-5. Replace with new Pages I-4, I-4A and I-5; changes made to Subsections 105.02(a). Page I-4A inserted to retain pagination and formatting.

**Remove Page I-24. Replace with new Page I-24; change made to Subsection 108.01.

**Remove Page I-30 and I-30A. Replace with new Pages I-30 and I-30A; changes made to Subsections 152.03 (b) and (c). Page I-30A reinserted to retain pagination and formatting.

AMENDMENT 0002 CONTINUED ON PAGE 2; CO PFH 80-1(1) & 2(2)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

CONTRACT MODIFICATION**STANDARD FORM 30
CONTINUATION SHEET**

REFERENCE NO. OF DOCUMENT BEING CONTINUED

PAGE

OF

PAGES

CO PFH 80-1(1) & 2(2)

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NAME OF OFFEROR OR CONTRACTOR

AMENDMENT 0002 CONTINUED FROM PAGE 1; CO PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD SPECIAL CONTRACT REQUIREMENTS (all changes as noted are effective 12/01/2003):

****Remove Page I-33. Replace with new Page I-33; deleted Subsection 153.01.******Remove Pages I-57, I-58 and I-59. Replace with new Pages I-57, I-58, I-59 and I-59A; changes made to Subsection 251.**

Page I-59A inserted to retain pagination and formatting; no other change made to this page.

****Remove Page I-166. Replace with new Pages I-166 and I-166A; changes made to Subsection 703.10.**

Page I-166A inserted to retain pagination and formatting; no other change made to this page.

****Remove Pages I-170, I-171 and I-172. Replace with new Pages I-170, I-171, and I-172; addition made to Table 705-1.**

Pages I-171 and I-172 inserted to retain pagination and formatting; no other changes made to these pages.

GUANELLA PASS PLAN SHEETS (all changes as noted are effective 12/01/2003):

****Remove Sheet A7. Replace with new Sheet A7; changes made are denoted by a triangle and the No. 2******Remove Sheets B2, B7 and B12. Replace with new Sheets B2, B7 and B12; changes made to Bid Items 30101, 30107, 30304U, 30402, 30602 and 30611 denoted by a triangle and the No. 2******Remove Sheet B18. Replace with new Sheet B18; changes made are denoted by a triangle and the No. 2**Amendments are posted on our website at: <http://www.cflhd.gov/procurement> under "Current Solicitations" and on the CFLHD FedBizOpps site at: http://www.eps.gov/spg/DOT/FHWA/68/postdate_1.html

FAILURE TO ACKNOWLEDGE THIS AMENDMENT BY THE DESIGNATED DATE AND HOUR SPECIFIED ABOVE MAY RESULT IN REJECTION OF YOUR BID (REFER TO ITEM 11.)

SCHEDULE A

**CO PFH 80-1(1) & 2(2)
GUANELLA PASS ROAD PHASE I
PIKE AND ARAPAHOE NATIONAL FORESTS
CLEAR CREEK AND PARK COUNTIES, COLORADO**

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101	Mobilization ALL	Lump Sum	\$ _____
15202	Slope, reference, and clearing and grubbing stakes 10.024 km	\$ _____	\$ _____
15204	Drainage structure survey and staking 80 Each	\$ _____	\$ _____
15204A	Concrete box culvert layout and control 2 Each	\$ _____	\$ _____
15206	Retaining wall survey and staking ALL	Lump Sum	\$ _____
15207	Grade finishing stakes 20.048 km	\$ _____	\$ _____
15209	Miscellaneous survey and staking 220 Hour	\$ _____	\$ _____
15212	Approach road survey and Staking 4 Each	\$ _____	\$ _____
15216A	Parking area survey and staking 5 Each	\$ _____	\$ _____
15401	Contractor testing ALL	Lump Sum	\$ _____
15501	Construction schedule ALL	Lump Sum	\$ _____
15702	Temporary turf establishment 6 ha	\$ _____	\$ _____
15703	Silt fence 8,000 m	\$ _____	\$ _____
15709	Check dams 17 Each	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15711	Sediment traps 2 Each	\$ _____	\$ _____
15718	Inlet protection 9 Each	\$ _____	\$ _____
15725A	Temporary diversion channel ALL	Lump Sum	\$ _____
15734	Sediment control log 1,100 m	\$ _____	\$ _____
15801	Watering for dust control 9,000 m3	\$ _____	\$ _____
20101	Clearing and grubbing 20.0 ha	\$ _____	\$ _____
20202	Selective clearing and grubbing 2.0 ha	\$ _____	\$ _____
20204	Removal of individual trees 16 m2	\$ _____	\$ _____
20301B	Removal of signs 14 Each	\$ _____	\$ _____
20301H	Removal of pipe culverts 37 Each	\$ _____	\$ _____
20302V	Removal of fence 180 m	\$ _____	\$ _____
20302W	Removal of guardrail 490 m	\$ _____	\$ _____
20311	Brow removal 900 m	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
20401	Roadway excavation 58,000 m3	\$ _____	\$ _____
20402	Subexcavation 750 m3	\$ _____	\$ _____
20413A	Slope Scaling Crew 1,200 Hour	\$ _____	\$ _____
20501	Controlled blast hole 50 m	\$ _____	\$ _____
20802	Foundation fill 8,300 m3	\$ _____	\$ _____
20804	Shoring and bracing ALL	Lump Sum	\$ _____
21101	Roadway obliteration 3,300 m2	\$ _____	\$ _____
25101B	Placed riprap class 2 3,200 m3	\$ _____	\$ _____
25101C	Placed riprap class 3 220 m3	\$ _____	\$ _____
25101E	Placed riprap class 5 170 m3	\$ _____	\$ _____
25108	Placed boulder, class 7 600 Each	\$ _____	\$ _____
25111	Placed individual boulders 35 Each	\$ _____	\$ _____
25203	Rock buttress 2,650 m3	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
25206	Rockery wall 2,600 m2	\$ _____	\$ _____
25501A	Mechanically stabilized earth wall, welded wire face 16,000 m2	\$ _____	\$ _____
26006	Soil nail retaining wall 700 m2	\$ _____	\$ _____
30101	Aggregate base 40,000 t	\$ _____	\$ _____
30107	Aggregate surface course 18,900 t	\$ _____	\$ _____
30304U	Road reconditioning, scarify 300 mm depth 21,700 m2	\$ _____	\$ _____
30402	Aggregate stabilization 41,200 m2	\$ _____	\$ _____
30602	Dust palliative application 27,400 m2	\$ _____	\$ _____
30611	Lignin sulfonate / Magnesium chloride, 50/50 mix 74 t	\$ _____	\$ _____
40103PGCD	Asphalt cement grade PG 58-34 360 t	\$ _____	\$ _____
40105C	Antistrip additive type 3 60 t	\$ _____	\$ _____
40106ABA	Superpave asphalt concrete pavement, 12.5 nominal maximum size aggregate, 0.3 to 1 million ESAL's, type 1 pavement smoothness 5,900 t	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
40901GAP	Surface treatment aggregates gradation A, precoated 2,100 t	\$ _____	\$ _____
40901GC	Surface treatment aggregates gradation C 1,100 t	\$ _____	\$ _____
40904AR	Emulsified Asphalt grade HFMS-2P or HFRS-2P 3 t	\$ _____	\$ _____
41101MB	Prime coat grade MC-70 36 t	\$ _____	\$ _____
41103	Blotter 200 t	\$ _____	\$ _____
41201CM	Tack coat grade CSS-1, CSS-1h, SS-1, or SS-1h 11 t	\$ _____	\$ _____
55201A	Structural concrete class A (AE) 74 m3	\$ _____	\$ _____
55401	Reinforcing steel te class A (AE) 4,193 kg	\$ _____	\$ _____
56304	Rock stain 2,000 m2	\$ _____	\$ _____
60105C	Concrete for pipe collar 30 m3	\$ _____	\$ _____
60201K	450 mm pipe culvert 40 m	\$ _____	\$ _____
60201M	600 mm pipe culvert 900 m	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60201N	750 mm pipe culvert 70 m	\$ _____	\$ _____
60201P	900 mm pipe culvert 19 m	\$ _____	\$ _____
60202N	885 mm span, 610 mm rise pipe arch culvert 80 m	\$ _____	\$ _____
60205NG	4200 mm span, 2100 mm rise precast reinforced concrete box culvert (bottomless) 13 m	\$ _____	\$ _____
60206K	End section for 450 mm pipe culvert 5 Each	\$ _____	\$ _____
60206M	End section for 600 mm pipe culvert 97 Each	\$ _____	\$ _____
60206N	End section for 750 mm pipe culvert 6 Each	\$ _____	\$ _____
60206P	End section for 900 mm pipe culvert 1 Each	\$ _____	\$ _____
60207N	End section for 885 mm span, 610 mm rise pipe arch culvert 12 Each	\$ _____	\$ _____
60209M	Elbow, 600 mm 38 Each	\$ _____	\$ _____
60209MN	Elbow, 885 mm span, 610 mm rise pipe arch culvert 4 Each	\$ _____	\$ _____
60209N	Elbow, 750 mm 6 Each	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60209P	Elbow, 900 mm 2 Each	\$ _____	\$ _____
60305ADA	10'-10" span, 3'-5" rise, structural-plate box, 0.109 inch (bottomless) 14 m	\$ _____	\$ _____
60404A	Catch basin type 1 12 Each	\$ _____	\$ _____
60409A	Metal frame and grate type A 7 Each	\$ _____	\$ _____
60409AB	Metal frame and grate type B 5 Each	\$ _____	\$ _____
60501	Underdrain system 1,200 m	\$ _____	\$ _____
60507F	150 mm outlet pipe 200 m	\$ _____	\$ _____
60901ZA	Portland cement concrete curb, 450 mm depth 3,100 m	\$ _____	\$ _____
60909B	Wheelstop (timber) 124 Each	\$ _____	\$ _____
60917	Timber curb 679 m	\$ _____	\$ _____
61301	Simulated stone masonry surface treatment (Box Culvert Concrete Form-liner) 63 m2	\$ _____	\$ _____
61301A	Simulated stone surfacing (MSE Wall Concrete Form-liner) 3,822 m2	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61302	Simulated stone masonry test wall (Box Culverts Concrete Form-liner) 1 Each	\$ _____	\$ _____
61302A	Simulated stone surfacing test section (MSE Walls Concrete Form-liner) 1 Each	\$ _____	\$ _____
61501BA	Colored Portland cement concrete sidewalk 29 m2	\$ _____	\$ _____
61504B	Portland cement concrete wheelchair ramp 5 m2	\$ _____	\$ _____
61701H	Guardrail system SBTB 4,450 m	\$ _____	\$ _____
61702FAT	Terminal section type FAT-9 12 Each	\$ _____	\$ _____
61702FATA	Terminal section type FAT-6 36 Each	\$ _____	\$ _____
61715	Guardrail, steel tube-backed timber (Box Culverts) 6 m	\$ _____	\$ _____
61901FA	Fence temporary construction 500 m	\$ _____	\$ _____
61901HD	Fence post and rail, wood 18 m	\$ _____	\$ _____
61901LB	Fence, log barrier (toad) 770 m	\$ _____	\$ _____
61902F	Gate road closure 2 Each	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61906	Remove and reset fence 60 m	\$ _____	\$ _____
62201AD	Dump truck, 7 cubic meter minimum capacity 180 Hour	\$ _____	\$ _____
62201BC	Backhoe loader, 180 liter minimum rated capacity bucket (600 mm width) 180 Hour	\$ _____	\$ _____
62201CE	Wheel loader, 3 cubic meter minimum rated capacity 180 Hour	\$ _____	\$ _____
62201DG	Bulldozer, 250 kW minimum flywheel power 110 Hour	\$ _____	\$ _____
62201LB	Motor grader, 3.6 meter minimum blade 180 Hour	\$ _____	\$ _____
62201M	Hydraulic excavator 110 Hour	\$ _____	\$ _____
62301	General labor 300 Hour	\$ _____	\$ _____
62406	Placing conserved topsoil 6,200 m3	\$ _____	\$ _____
62501B	Seeding, hydraulic method 23.0 ha	\$ _____	\$ _____
62504B	Mulching, hydraulic method 23.0 ha	\$ _____	\$ _____
62516	Fertilizer, hydraulic method 15.0 ha	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62602	Remove and replant trees and shrubs 1,100 Each	\$ _____	\$ _____
62602C	Emergent plugs 100 Each	\$ _____	\$ _____
62613B	Container stock, 20 liter 2,396 Each	\$ _____	\$ _____
62614	Willow staking 19,500 Each	\$ _____	\$ _____
62701D	Salvaged sod (alpine) 4,700 m2	\$ _____	\$ _____
62901B	Erosion control mat type 2 1,900 m2	\$ _____	\$ _____
63304CC	Signs, aluminum panels, type 3 sheeting 23 m2	\$ _____	\$ _____
63305BA	Posts, wood 100 mm x 100 mm 139 m	\$ _____	\$ _____
63305BB	Posts, wood 100 mm x 150 mm 74 m	\$ _____	\$ _____
63306B	Object markers type 2 150 mm 114 Each	\$ _____	\$ _____
63307A	Delineators type 1 285 Each	\$ _____	\$ _____
63307G	Delineators flexible 323 Each	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63310	Installing government furnished sign 12 Each	\$ _____	\$ _____
63401BA	Pavement markings type B, solid 328 m	\$ _____	\$ _____
63406	Pavement markings, symbols 129 Each	\$ _____	\$ _____
63504C	Barricade type 3 35 m	\$ _____	\$ _____
63506A	Cone type A 50 Each	\$ _____	\$ _____
63507	Construction sign 80 m2	\$ _____	\$ _____
63508	Drum 150 Each	\$ _____	\$ _____
63509	Flagger 11,000 Hour	\$ _____	\$ _____
63510	Pilot car 3,800 Hour	\$ _____	\$ _____
63511	Temporary concrete barrier 700 m	\$ _____	\$ _____
63521B	Warning light type B 8 Each	\$ _____	\$ _____
63529	Temporary traffic signal system 2 Each	\$ _____	\$ _____

Bid Schedule A

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63543A	Traffic and safety supervisor ALL	Lump Sum	\$ _____
65001	Landscaping logs 5 Each	\$ _____	\$ _____
66201	Rockfall fence system 70 m	\$ _____	\$ _____

TOTAL \$ _____

Submitted by: _____
Name of Bidder

SCHEDULE B

**CO PFH 80-1(1) & 2(2)
GUANELLA PASS ROAD PHASE I
PIKE AND ARAPAHOE NATIONAL FORESTS
CLEAR CREEK AND PARK COUNTIES, COLORADO**

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101	Mobilization ALL	Lump Sum	\$ _____
15202	Slope, reference, and clearing and grubbing stakes 12.324 km	\$ _____	\$ _____
15204	Drainage structure survey and staking 106 Each	\$ _____	\$ _____
15204A	Concrete box culvert layout and control 3 Each	\$ _____	\$ _____
15206	Retaining wall survey and staking ALL	Lump Sum	\$ _____
15207	Grade finishing stakes 24.648 km	\$ _____	\$ _____
15209	Miscellaneous survey and staking 280 Hour	\$ _____	\$ _____
15212	Approach road survey and Staking 4 Each	\$ _____	\$ _____
15216A	Parking area survey and staking 5 Each	\$ _____	\$ _____
15401	Contractor testing ALL	Lump Sum	\$ _____
15501	Construction schedule ALL	Lump Sum	\$ _____
15702	Temporary turf establishment 7 ha	\$ _____	\$ _____
15703	Silt fence 9,900 m	\$ _____	\$ _____
15709	Check dams 20 Each	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15711	Sediment traps 3 Each	\$ _____	\$ _____
15718	Inlet protection 16 Each	\$ _____	\$ _____
15725A	Temporary diversion channel ALL	Lump Sum	\$ _____
15734	Sediment control log 1,300 m	\$ _____	\$ _____
15801	Watering for dust control 10,000 m3	\$ _____	\$ _____
20101	Clearing and grubbing 21.0 ha	\$ _____	\$ _____
20202	Selective clearing and grubbing 2.0 ha	\$ _____	\$ _____
20204	Removal of individual trees 18 m2	\$ _____	\$ _____
20301B	Removal of signs 16 Each	\$ _____	\$ _____
20301H	Removal of pipe culverts 47 Each	\$ _____	\$ _____
20302V	Removal of fence 180 m	\$ _____	\$ _____
20302W	Removal of guardrail 490 m	\$ _____	\$ _____
20311	Brow removal 1,100 m	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
20401	Roadway excavation 70,000 m3	\$ _____	\$ _____
20402	Subexcavation 750 m3	\$ _____	\$ _____
20403	Unclassified borrow 2,400 m3	\$ _____	\$ _____
20413A	Slope Scaling Crew 1,200 Hour	\$ _____	\$ _____
20501	Controlled blast hole 50 m	\$ _____	\$ _____
20802	Foundation fill 8,400 m3	\$ _____	\$ _____
20804	Shoring and bracing ALL	Lump Sum	\$ _____
21101	Roadway obliteration 3,300 m2	\$ _____	\$ _____
25101B	Placed riprap class 2 3,500 m3	\$ _____	\$ _____
25101C	Placed riprap class 3 280 m3	\$ _____	\$ _____
25101E	Placed riprap class 5 260 m3	\$ _____	\$ _____
25108	Placed boulder, class 7 600 Each	\$ _____	\$ _____
25111	Placed individual boulders 120 Each	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
25203	Rock buttress 2,650 m3	\$ _____	\$ _____
25206	Rockery wall 2,800 m2	\$ _____	\$ _____
25501A	Mechanically stabilized earth wall, welded wire face 16,200 m2	\$ _____	\$ _____
26006	Soil nail retaining wall 700 m2	\$ _____	\$ _____
30101	Aggregate base 54,500 t	\$ _____	\$ _____
30107	Aggregate surface course 19,100 t	\$ _____	\$ _____
30304U	Road reconditioning, scarify 300 mm depth 24,050 m2	\$ _____	\$ _____
30402	Aggregate stabilization 62,000 m2	\$ _____	\$ _____
30602	Dust palliative application 27,400 m2	\$ _____	\$ _____
30611	Lignin sulfonate / Magnesium chloride, 50/50 mix 74 t	\$ _____	\$ _____
40103PGCD	Asphalt cement grade PG 58-34 360 t	\$ _____	\$ _____
40105C	Antistrip additive type 3 60 t	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
40106ABA	Superpave asphalt concrete pavement, 12.5 nominal maximum size aggregate, 0.3 to 1 million ESAL's, type 1 pavement smoothness 5,900 t	\$ _____	\$ _____
40901GAP	Surface treatment aggregates gradation A, precoated 3,100 t	\$ _____	\$ _____
40901GC	Surface treatment aggregates gradation C 1,600 t	\$ _____	\$ _____
40904AR	Emulsified Asphalt grade HFMS-2P or HFRS-2P 4 t	\$ _____	\$ _____
41101MB	Prime coat grade MC-70 36 t	\$ _____	\$ _____
41103	Blotter 200 t	\$ _____	\$ _____
41201CM	Tack coat grade CSS-1, CSS-1h, SS-1, or SS-1h 11 t	\$ _____	\$ _____
55201A	Structural concrete class A (AE) 120 m3	\$ _____	\$ _____
55401	Reinforcing steel 6,697 kg	\$ _____	\$ _____
56304	Rock stain 2,000 m2	\$ _____	\$ _____
60105C	Concrete for pipe collar 30 m3	\$ _____	\$ _____
60201K	450 mm pipe culvert 46 m	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60201M	600 mm pipe culvert 1,160 m	\$ _____	\$ _____
60201N	750 mm pipe culvert 100 m	\$ _____	\$ _____
60201P	900 mm pipe culvert 32 m	\$ _____	\$ _____
60202N	885 mm span, 610 mm rise pipe arch culvert 110 m	\$ _____	\$ _____
60205ND	4200 mm span, 1200 mm rise precast reinforced concrete box culvert 14 m	\$ _____	\$ _____
60205NG	4200 mm span, 2100 mm rise precast reinforced concrete box culvert 13 m	\$ _____	\$ _____
60206K	End section for 450 mm pipe culvert 7 Each	\$ _____	\$ _____
60206M	End section for 600 mm pipe culvert 132 Each	\$ _____	\$ _____
60206N	End section for 750 mm pipe culvert 10 Each	\$ _____	\$ _____
60206P	End section for 900 mm pipe culvert 3 Each	\$ _____	\$ _____
60207N	End section for 885 mm span, 610 mm rise pipe arch culvert 16 Each	\$ _____	\$ _____
60209M	Elbow, 600 mm 51 Each	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60209MN	Elbow, 885 mm span, 610 mm rise pipe arch culvert 4 Each	\$ _____	\$ _____
60209N	Elbow, 750 mm 7 Each	\$ _____	\$ _____
60209P	Elbow, 900 mm 2 Each	\$ _____	\$ _____
60305ADA	10'-10" span, 3'-5" rise, structural-plate box, 0.109 inch 14 m	\$ _____	\$ _____
60404A	Catch basin type 1 19 Each	\$ _____	\$ _____
60409A	Metal frame and grate type A 7 Each	\$ _____	\$ _____
60409AB	Metal frame and grate type B 12 Each	\$ _____	\$ _____
60501	Underdrain system 1,500 m	\$ _____	\$ _____
60507F	150 mm outlet pipe 250 m	\$ _____	\$ _____
60901ZA	Portland cement concrete curb, 450 mm depth 4,578 m	\$ _____	\$ _____
60909B	Wheelstop (timber) 124 Each	\$ _____	\$ _____
60917	Timber curb 679 m	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61301	Simulated stone masonry surface treatment (Box Culvert Concrete Form-liner) 102 m2	\$ _____	\$ _____
61301A	Simulated stone surfacing (MSE Wall Concrete Form-liner) 3,822 m2	\$ _____	\$ _____
61302	Simulated stone masonry test wall (Box Culvert Concrete Form-liner) 1 Each	\$ _____	\$ _____
61302A	Simulated stone surfacing test section (MSE Wall Concrete Form-liner) 1 Each	\$ _____	\$ _____
61501BA	Colored Portland cement concrete sidewalk 29 m2	\$ _____	\$ _____
61504B	Portland cement concrete wheelchair ramp 5 m2	\$ _____	\$ _____
61701H	Guardrail system SBTB 4,610 m	\$ _____	\$ _____
61702FAT	Terminal section type FAT-9 14 Each	\$ _____	\$ _____
61702FATA	Terminal section type FAT-6 38 Each	\$ _____	\$ _____
61715	Guardrail, steel tube-backed timber 22 m	\$ _____	\$ _____
61901FA	Fence temporary construction 500 m	\$ _____	\$ _____
61901HD	Fence post and rail, wood 18 m	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61901LB	Fence, log barrier (toad) 1,000 m	\$ _____	\$ _____
61902F	Gate road closure 2 Each	\$ _____	\$ _____
61906	Remove and reset fence 60 m	\$ _____	\$ _____
62201AD	Dump truck, 7 cubic meter minimum capacity 200 Hour	\$ _____	\$ _____
62201BC	Backhoe loader, 180 liter minimum rated capacity bucket (600 mm width) 200 Hour	\$ _____	\$ _____
62201CE	Wheel loader, 3 cubic meter minimum rated capacity 200 Hour	\$ _____	\$ _____
62201DG	Bulldozer, 250 kW minimum flywheel power 120 Hour	\$ _____	\$ _____
62201LB	Motor grader, 3.6 meter minimum blade 200 Hour	\$ _____	\$ _____
62201M	Hydraulic excavator 120 Hour	\$ _____	\$ _____
62301	General labor 320 Hour	\$ _____	\$ _____
62406	Placing conserved topsoil 7,800 m3	\$ _____	\$ _____
62501B	Seeding, hydraulic method 28.0 ha	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62504B	Mulching, hydraulic method 28.0 ha	\$ _____	\$ _____
62516	Fertilizer, hydraulic method 18.0 ha	\$ _____	\$ _____
62602	Remove and replant trees and shrubs 1,130 Each	\$ _____	\$ _____
62602C	Emergent plugs 110 Each	\$ _____	\$ _____
62613B	Container stock, 20 liter 3,268 Each	\$ _____	\$ _____
62614	Willow staking 21,500 Each	\$ _____	\$ _____
62701D	Salvaged sod (alpine) 4,700 m2	\$ _____	\$ _____
62901B	Erosion control mat type 2 2,100 m2	\$ _____	\$ _____
63304CC	Signs, aluminum panels, type 3 sheeting 24 m2	\$ _____	\$ _____
63305BA	Posts, wood 100 mm x 100 mm 147 m	\$ _____	\$ _____
63305BB	Posts, wood 100 mm x 150 mm 74 m	\$ _____	\$ _____
63306B	Object markers type 2 156 Each	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63307A	Delineators type 1 291 Each	\$ _____	\$ _____
63307G	Delineators flexible 337 Each	\$ _____	\$ _____
63310	Installing government furnished sign 12 Each	\$ _____	\$ _____
63401BA	Pavement markings type B, solid 328 m	\$ _____	\$ _____
63406	Pavement markings, symbols 129 Each	\$ _____	\$ _____
63504C	Barricade type 3 35 m	\$ _____	\$ _____
63506C	Cone type C 50 Each	\$ _____	\$ _____
63507	Construction sign 80 m2	\$ _____	\$ _____
63508	Drum 150 Each	\$ _____	\$ _____
63509	Flagger 12,000 Hour	\$ _____	\$ _____
63510	Pilot car 4,000 Hour	\$ _____	\$ _____
63511	Temporary concrete barrier 750 m	\$ _____	\$ _____

Bid Schedule B

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE 1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63521B	Warning light type B 8 Each	\$ _____	\$ _____
63529	Temporary traffic signal system 2 Each	\$ _____	\$ _____
63543A	Traffic and safety supervisor ALL	Lump Sum	\$ _____
65001	Landscaping logs 35 Each	\$ _____	\$ _____
66201	Rockfall fence system 70 m	\$ _____	\$ _____

TOTAL \$ _____

Submitted by: _____
Name of Bidder

SCHEDULE C

**CO PFH 80-1(1) & 2(2)
GUANELLA PASS ROAD PHASE I
PIKE AND ARAPAHOE NATIONAL FORESTS
CLEAR CREEK AND PARK COUNTIES, COLORADO**

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101	Mobilization ALL	Lump Sum	\$ _____
15202	Slope, reference, and clearing and grubbing stakes 14.174 km	\$ _____	\$ _____
15204	Drainage structure survey and staking 121 Each	\$ _____	\$ _____
15204A	Concrete box culvert layout and control 4 Each	\$ _____	\$ _____
15206	Retaining wall survey and staking ALL	Lump Sum	\$ _____
15207	Grade finishing stakes 28.348 km	\$ _____	\$ _____
15209	Miscellaneous survey and staking 320 Hour	\$ _____	\$ _____
15212	Approach road survey and Staking 5 Each	\$ _____	\$ _____
15216A	Parking area survey and staking 5 Each	\$ _____	\$ _____
15401	Contractor testing ALL	Lump Sum	\$ _____
15501	Construction schedule ALL	Lump Sum	\$ _____
15702	Temporary turf establishment 8 ha	\$ _____	\$ _____
15703	Silt fence 11,300 m	\$ _____	\$ _____
15709	Check dams 20 Each	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15711	Sediment traps 3 Each	\$ _____	\$ _____
15718	Inlet protection 21 Each	\$ _____	\$ _____
15725A	Temporary diversion channel ALL	Lump Sum	\$ _____
15734	Sediment control log 1,450 m	\$ _____	\$ _____
15801	Watering for dust control 12,000 m3	\$ _____	\$ _____
20101	Clearing and grubbing 24.0 ha	\$ _____	\$ _____
20202	Selective clearing and grubbing 2.0 ha	\$ _____	\$ _____
20204	Removal of individual trees 20 m2	\$ _____	\$ _____
20301B	Removal of signs 20 Each	\$ _____	\$ _____
20301H	Removal of pipe culverts 51 Each	\$ _____	\$ _____
20302V	Removal of fence 180 m	\$ _____	\$ _____
20302W	Removal of guardrail 490 m	\$ _____	\$ _____
20311	Brow removal 1,100 m	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
20401	Roadway excavation 78,000 m3	\$ _____	\$ _____
20402	Subexcavation 750 m3	\$ _____	\$ _____
20403	Unclassified borrow 2,400 m3	\$ _____	\$ _____
20413A	Slope Scaling Crew 1,200 Hour	\$ _____	\$ _____
20501	Controlled blast hole 50 m	\$ _____	\$ _____
20802	Foundation fill 9,000 m3	\$ _____	\$ _____
20804	Shoring and bracing ALL	Lump Sum	\$ _____
21101	Roadway obliteration 3,300 m2	\$ _____	\$ _____
25101B	Placed riprap class 2 3,700 m3	\$ _____	\$ _____
25101C	Placed riprap class 3 320 m3	\$ _____	\$ _____
25101E	Placed riprap class 5 300 m3	\$ _____	\$ _____
25108	Placed boulder, class 7 600 Each	\$ _____	\$ _____
25111	Placed individual boulders 170 Each	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
25203	Rock buttress 2,650 m3	\$ _____	\$ _____
25206	Rockery wall 3,600 m2	\$ _____	\$ _____
25501A	Mechanically stabilized earth wall, welded wire face 17,400 m2	\$ _____	\$ _____
26006	Soil nail retaining wall 700 m2	\$ _____	\$ _____
30101	Aggregate base 67,100 t	\$ _____	\$ _____
30107	Aggregate surface course 19,800 t	\$ _____	\$ _____
30304U	Road reconditioning, scarify 300 mm depth 27,000 m2	\$ _____	\$ _____
30402	Aggregate stabilization 70,500 m2	\$ _____	\$ _____
30602	Dust palliative application 27,500 m2	\$ _____	\$ _____
30611	Lignin sulfonate / Magnesium chloride, 50/50 mix 74 t	\$ _____	\$ _____
40103PGCD	Asphalt cement grade PG 58-34 360 t	\$ _____	\$ _____
40105C	Antistrip additive type 3 60 t	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
40106ABA	Superpave asphalt concrete pavement, 12.5 nominal maximum size aggregate, 0.3 to 1 million ESAL's, type 1 pavement smoothness 5,900 t	\$ _____	\$ _____
40901GAP	Surface treatment aggregates gradation A, precoated 3,900 t	\$ _____	\$ _____
40901GC	Surface treatment aggregates gradation C 2,000 t	\$ _____	\$ _____
40904AR	Emulsified Asphalt grade HFMS-2P or HFRS-2P 5 t	\$ _____	\$ _____
41101MB	Prime coat grade MC-70 36 t	\$ _____	\$ _____
41103	Blotter 200 t	\$ _____	\$ _____
41201CM	Tack coat grade CSS-1, CSS-1h, SS-1, or SS-1h 11 t	\$ _____	\$ _____
55201A	Structural concrete class A (AE) 152 m3	\$ _____	\$ _____
55401	Reinforcing steel 8,684 kg	\$ _____	\$ _____
56304	Rock stain 2,000 m2	\$ _____	\$ _____
60105C	Concrete for pipe collar 30 m3	\$ _____	\$ _____
60201K	450 mm pipe culvert 67 m	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60201M	600 mm pipe culvert 1,350 m	\$ _____	\$ _____
60201N	750 mm pipe culvert 111 m	\$ _____	\$ _____
60201P	900 mm pipe culvert 32 m	\$ _____	\$ _____
60202N	885 mm span, 610 mm rise pipe arch culvert 110 m	\$ _____	\$ _____
60205ND	4200 mm span, 1200 mm rise precast reinforced concrete box culvert (bottomless) 31 m	\$ _____	\$ _____
60205NG	4200 mm span, 2100 mm rise precast reinforced concrete box culvert (bottomless) 13 m	\$ _____	\$ _____
60206K	End section for 450 mm pipe culvert 11 Each	\$ _____	\$ _____
60206M	End section for 600 mm pipe culvert 149 Each	\$ _____	\$ _____
60206N	End section for 750 mm pipe culvert 12 Each	\$ _____	\$ _____
60206P	End section for 900 mm pipe culvert 3 Each	\$ _____	\$ _____
60207N	End section for 885 mm span, 610 mm rise pipe arch culvert 16 Each	\$ _____	\$ _____
60209M	Elbow, 600 mm 59 Each	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60209MN	Elbow, 885 mm span, 610 mm rise pipe arch culvert 4 Each	\$ _____	\$ _____
60209N	Elbow, 750 mm 7 Each	\$ _____	\$ _____
60209P	Elbow, 900 mm 2 Each	\$ _____	\$ _____
60305ADA	10'-10" span, 3'-5" rise, structural-plate box, 0.109 inch (bottomless) 14 m	\$ _____	\$ _____
60404A	Catch basin type 1 24 Each	\$ _____	\$ _____
60409A	Metal frame and grate type A 7 Each	\$ _____	\$ _____
60409AB	Metal frame and grate type B 17 Each	\$ _____	\$ _____
60501	Underdrain system 1,500 m	\$ _____	\$ _____
60507F	150 mm outlet pipe 250 m	\$ _____	\$ _____
60901ZA	Portland cement concrete curb, 450 mm depth 5,655 m	\$ _____	\$ _____
60909B	Wheelstop (timber) 124 Each	\$ _____	\$ _____
60917	Timber curb 679 m	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61301	Simulated stone masonry surface treatment (Box Culvert Concrete Form-liner) 131 m2	\$ _____	\$ _____
61301A	Simulated stone surfacing (MSE Wall Concrete Form-liner) 3,822 m2	\$ _____	\$ _____
61302	Simulated stone masonry test wall (Box Culverts Concrete Form-liner) 1 Each	\$ _____	\$ _____
61302A	Simulated stone surfacing test section (MSE Walls Concrete Form-liner) 1 Each	\$ _____	\$ _____
61501BA	Colored Portland cement concrete sidewalk 29 m2	\$ _____	\$ _____
61504B	Portland cement concrete wheelchair ramp 5 m2	\$ _____	\$ _____
61701H	Guardrail system SBTB 5,140 m	\$ _____	\$ _____
61702FAT	Terminal section type FAT-9 15 Each	\$ _____	\$ _____
61702FATA	Terminal section type FAT-6 39 Each	\$ _____	\$ _____
61715	Guardrail, steel tube-backed timber (Box Culverts) 22 m	\$ _____	\$ _____
61901FA	Fence temporary construction 500 m	\$ _____	\$ _____
61901HD	Fence post and rail, wood 18 m	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61901LB	Fence, log barrier (toad) 1,250 m	\$ _____	\$ _____
61902F	Gate road closure 2 Each	\$ _____	\$ _____
61906	Remove and reset fence 60 m	\$ _____	\$ _____
62201AD	Dump truck, 7 cubic meter minimum capacity 200 Hour	\$ _____	\$ _____
62201BC	Backhoe loader, 180 liter minimum rated capacity bucket (600 mm width) 200 Hour	\$ _____	\$ _____
62201CE	Wheel loader, 3 cubic meter minimum rated capacity 200 Hour	\$ _____	\$ _____
62201DG	Bulldozer, 250 kW minimum flywheel power 120 Hour	\$ _____	\$ _____
62201LB	Motor grader, 3.6 meter minimum blade 200 Hour	\$ _____	\$ _____
62201M	Hydraulic excavator 120 Hour	\$ _____	\$ _____
62301	General labor 320 Hour	\$ _____	\$ _____
62406	Placing conserved topsoil 8,800 m3	\$ _____	\$ _____
62501B	Seeding, hydraulic method 32.0 ha	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62504B	Mulching, hydraulic method 32.0 ha	\$ _____	\$ _____
62516	Fertilizer, hydraulic method 20.0 ha	\$ _____	\$ _____
62602	Remove and replant trees and shrubs 1,167 Each	\$ _____	\$ _____
62602C	Emergent plugs 100 Each	\$ _____	\$ _____
62613A	Container stock, 4 liter 18 Each	\$ _____	\$ _____
62613B	Container stock, 20 liter 4,457 Each	\$ _____	\$ _____
62614	Willow staking 23,000 Each	\$ _____	\$ _____
62701D	Salvaged sod (alpine) 4,700 m2	\$ _____	\$ _____
62901B	Erosion control mat type 2 2,100 m2	\$ _____	\$ _____
63304CC	Signs, aluminum panels, type 3 sheeting 27 m2	\$ _____	\$ _____
63305BA	Posts, wood 100 mm x 100 mm 175 m	\$ _____	\$ _____
63305BB	Posts, wood 100 mm x 150 mm 80 m	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63306B	Object markers type 2 176 Each	\$ _____	\$ _____
63307A	Delineators type 1 303 Each	\$ _____	\$ _____
63307G	Delineators flexible 374 Each	\$ _____	\$ _____
63310	Installing government furnished sign 14 Each	\$ _____	\$ _____
63401BA	Pavement markings type B, solid 328 m	\$ _____	\$ _____
63406	Pavement markings, symbols 129 Each	\$ _____	\$ _____
63504C	Barricade type 3 35 m	\$ _____	\$ _____
63506A	Cone type A 50 Each	\$ _____	\$ _____
63507	Construction sign 80 m2	\$ _____	\$ _____
63508	Drum 150 Each	\$ _____	\$ _____
63509	Flagger 13,000 Hour	\$ _____	\$ _____
63510	Pilot car 4,200 Hour	\$ _____	\$ _____

Bid Schedule C

Project: PFH 80-1(1) & 2(2)

GUANELLA PASS ROAD PHASE1

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63511	Temporary concrete barrier 800 m	\$ _____	\$ _____
63521B	Warning light type B 8 Each	\$ _____	\$ _____
63529	Temporary traffic signal system 2 Each	\$ _____	\$ _____
63543A	Traffic and safety supervisor ALL	Lump Sum	\$ _____
65001	Landscaping logs 35 Each	\$ _____	\$ _____
66201	Rockfall fence system 70 m	\$ _____	\$ _____

TOTAL \$ _____

Submitted by: _____
Name of Bidder

- (j) Post-tensioning systems.
- (k) Ground anchors, soil nail, and rock bolt assembly details, layout, and installation and testing procedures.
- (l) Tie back wall details.
- (m) Alternate retaining wall details.

(3) Furnish drawings which bear the seal and signature of a professional engineer proficient in forms and falsework design, and who is licensed in the state where the project will be constructed, for the following:

- (a) Falsework for any structure with a span exceeding 5000 millimeters.
- (b) Falsework for any structure with a height exceeding 4300 millimeters.
- (c) Falsework for structures where traffic, other than workers involved in constructing the structure, will travel under the structure.

Section 105. – CONTROL OF MATERIAL

105.01 Source of Supply and Quality Requirements. Add the following:

Submit samples of materials for quality verification testing for materials required to conform to Sections 703, 704, and 705.

Materials containing petroleum-based solvents such as cutback asphalts and traffic paints may be restricted from use by local laws or ordinances in certain geographic areas. Upon presenting proof of such restrictions, alternate materials considered acceptable to the CO may be substituted for the materials specified in the contract.

105.02 Local Material Sources

(a) Government-provided sources. Add the following:

The material source near Duck Lake at station 19+200 on the east side of Guanella Pass Road has been identified for use on the project. ***This is the only approved material that can be used on the Guanella Pass Project. This material source will be used to generate the following list of construction materials:***

- ***Wall Backfill***
- ***Aggregate Base***
- ***Roadway Embankment***
- ***Unclassified Borrow***
- ***Foundation Fill Material***
- ***Placed Riprap Class 2, 3, 5, & 7***
- ***Individual Boulders***
- ***Buttress Rocks***
- ***Rockery Wall Rocks***
- ***Aggregate Base***

- *Aggregate Surface Course*
- *Surface Treatment Aggregates Gradation A, Precoated*
- *Surface Treatment Aggregates Gradation C*
- *Superpave Asphalt Aggregates*
- *Blotter Material*
- *150 mm Aggregate Stabilization*

The contractor will submit a Material Source Development Plan. Use the project Geotechnical reports to develop the Material Source Development plan. The plan will be approved by the CO prior to performing work within the Government-provided source. The Material Source Development Plan will include the method to best optimize all the material to produce the aggregate types required in the contract. The contractor will perform all work necessary to produce acceptable material including site development, preparation, erosion control and reclamation.

The Material Source Plan must address, but is not limited to, the following:

- Estimated quantities of material for each zone
- Expected quality characteristics for each zone
- Optimization plan to utilize material zones for required aggregate types
- Erosion control plan
- Reclamation plan

Two water sources are available for the project at no cost. 5,000 gallons per day may be obtained from Duck Lake. The contact for the Duck Lake water supply is Julie Holmes. In addition, Lower Cabin Creek Reservoir may be used for a maximum water supply of ~~one~~ **eight**-acre foot per construction season. The contact for Lower Cabin Creek Reservoir is Larry Claxton with Xcel Energy. No separate permits are required for either water source, but this work must comply with the applicable portions of the Nationwide permit issued by the Army Corps of Engineers and the NPDES permit obtained from the Colorado Department of Public Health and Environment.

(c) Contractor-located sources. Add the following at the end of the first paragraph:

For Contractor-located, non-commercial sources, secure environmental clearances according to Subsection 107.10. See section 108 for restrictions on aggregate material hauling dates.

105.04 Storing and Handling Material. Add the following after the third sentence of the second paragraph:

For Contractor-located, non-commercial staging, storing, and material handling areas, secure environmental clearances according to Subsection 107.10.

Add the following:

The Contractor will use the Duck Lake material source site, Geneva Basin Ski Area parking lot and other existing disturbed areas (pullouts, dispersed recreation parking areas, etc.) for staging areas and for storage of materials/hot plant site/stockpiles/ etc). In addition, any new parking areas could be used for staging, while they are under construction, but at least one parking area at the Guanella Pass Road summit (existing or new) must remain open at all times for public use.

Section 106. – ACCEPTANCE OF WORK

106.01 Conformity with Contract Requirements. Delete the fourth sentence of the fifth paragraph and substitute the following:

If Contractor testing and inspection are verified by the Government, the Contractor's results may be used by the Government to evaluate work for acceptance.

Add the following:

(k) Due to the possible presence of nesting birds, perform clearing and grubbing work in designated wetland and riparian construction areas prior to March 15 or after July 31 unless approved by CO.

(l) Contractor will not be allowed to haul any construction material listed in Subsection 105.2 through either Grant or Georgetown.

Schedule at least 2 non-work days out of every 14 calendar days. The selected non-work days do not need to be consecutive, but they must be scheduled. Provide at least 2 weeks notice before changing the scheduled days off.

Exemptions to scheduled days off may be granted by written approval from the CO for specific project operations and/or for periods of limited duration.

A Notice to Proceed must be issued before commencement of any work.

108.04 Failure to Complete Work on Time. Delete the contents of the Table 108-1 and substitute the following:

Original Contract Price		Daily Charge
From More Than	To and Including	
\$ 0.00	\$ 2,000,000.00	\$ 600.00
2,000,000.00	5,000,000.00	1,600.00
5,000,000.00	and more	1,800.00

Section 109. – MEASUREMENT AND PAYMENT

109.01 Measurement Methods. Delete the first sentence and substitute the following:

Take or convert all measurement of work according to the International System of Units (SI), IEEE/ASTM SI 10.

Add the following after the third paragraph:

Submit measurement notes to the CO within 24 hours of performing the work. For on-going work, submit measurement notes weekly. When work is not complete, identify the measurement as being an interim measurement. Submit the final measurement when the installation is completed. Measurement notes form the basis of the Government's receiving report (see Subsection 109.08(d)). For lump sum items, submit documentation to support invoiced progress payment on a monthly basis.

Use an acceptable format for measurement records. As a minimum, include the following information in all records of measurement:

- (a) Project name and number
- (b) Contract item number
- (c) Date the work was performed

(b) Roadway cross-sections. Delete the text. and substitute the following:

{The above text was reinserted as a result of Amendment 0002}

~~Take roadway cross sections normal to centerline. When the centerline curve radius is less than or equal to 75 meters, take cross sections at a maximum centerline spacing of 10 meters. When the centerline curve radius is greater than 75 meters, take cross sections at a maximum centerline spacing of 20 meters. Take additional cross sections at significant breaks in topography and at changes in the typical section. Ensure that, at a minimum, roadway cross sections are taken at each cross section station shown in the plans. Along each cross section, measure and record points at breaks in topography, but no further apart than 5 meters. Space the points so that the maximum variation in vertical distance from a straight line between two consecutive points and the ground line does not exceed ± 0.2 meters. Measure and record points to at least the anticipated slope stake and reference locations. Reduce all cross section distances to horizontal distances from centerline.~~

~~Submit the cross sectional data in GEOPAK ASCII text format: station, offset, elevation, north coordinate, east coordinate, p-code text format. Include a file header that defines the data type of the column. (Contact Central Federal lands Survey Manager, at 303-716-2078 for more information on the format.) Include one shot per line in the submitted files showing the following data:~~

~~Station (nominal), offset from centerline, elevation, north coordinate, east coordinate, p-code (Feature code: RH for reference hub, CL for centerline).~~

~~Deliver all data to the CO after completing the roadway cross section survey. Submit data to CO at least 10 days prior to anticipated construction. Do not begin embankment construction or excavation operations on the proposed site until the design profile has been verified. The CO will send the cross sectional data to CFL Survey manager to review for survey sufficiency. If significant differences in terrain are found, the Design Engineer will modify the profile if necessary to match the new terrain. If the design profile is modified, new design data will be provided for only those locations where the design profile has been modified. (The Design Engineer will re-run all cross sections using the new terrain to provide final earthwork quantities). It will be the Contractor's responsibility to re-catch slope stakes according to Subsection 152.03(e).~~

(c) Slope stakes and references. Delete the first sentence and substitute the following:

Set slope stakes and references on both sides of centerline using the following criteria:

- 20 meter slope stakes along roadway
- 10 meter intervals when centerline curves radius is less than or equal to 75 meters
- 5 meter intervals when centerline curves radius is less than or equal to 25 meters
- Miscellaneous intermediate sections where sub grade widths vary from typical sections, e.g. guardrail end terminals, drainage inlet treatment in cut slopes, and pullouts

Delete the last three sentences of the first paragraph and substitute the following:

Recatch slope stakes on any section that does not match the staking report within 150 mm vertical tolerance. Take roadway cross-section data between centerline and the new slope stake location. Set additional references even when initial references are provided.

{No changes have been made to Page I-30A. The text of (e), deleted as a result of Amendment 0001, has shifted down to accommodate additional text added to (c) above as a result of Amendment 0002.}

~~(e) Centerline reestablishment. Delete the text and substitute the following:~~

~~Reestablish centerline from instrument control points. The maximum spacing between centerline points is 10 meters when centerline curve radius is less than or equal to 75 meters. When the centerline curve radius is greater than 75 meters, the maximum distance between centerline points is 20 meters. Reestablish centerline as many times as necessary to construct the work.~~

~~(f) Grade finishing stakes. Delete the third paragraph and substitute the following:~~

~~The maximum longitudinal spacing between stakes is 10 meters when the centerline curve radius is less than or equal to 75 meters. When the centerline curve radius is greater than 75 meters, the maximum longitudinal spacing between stakes is 20 meters.~~

~~The maximum longitudinal spacing between stakes is:~~

- ~~• 5 meters when the centerline curve radius is less than or equal to 25 meters.~~
- ~~• 10 meters when the centerline curve radius is less than or equal to 75 meters.~~
- ~~• 20 meters when the centerline curve radius is greater than 75 meters.~~

~~The maximum transverse spacing between stakes is 10 meters. Reset grade finishing stakes as many times as necessary to construct the subgrade and each aggregate course. Use brushes or guard stakes at each stake.~~

Measurement

152.05 Add the following:

Re-establishing missing Government-set terrain cross-section reference hubs, control points, and stakes will be measured under Miscellaneous Survey and Staking when it is paid by the hour. No payment will be made for re-establishing missing hubs, control points, or stakes after construction operations have begun.

Payment

152.06 Add the following:

Pay Item	Pay Unit
15212 Approach road survey and staking	Each
15216A Parking area survey and staking	Each

Section 153. – CONTRACTOR QUALITY CONTROL

Description

153.01 Add the following:

~~This work also consists of obtaining samples for acceptance testing and furnishing a water and electrical supply for the Government's field laboratory (the Government furnished laboratory is for the exclusive use of the CO).~~

~~Furnish water to the Government field laboratory which is reasonably clear and free of oil, acid, rust, alkali, sugar, and vegetable substances. Furnish 220 volt, 60 cycle, single phase current adequate to operate all of the Government field laboratory facilities at all times as required by the CO. A minimum of 15 kilowatts of power at the entrance box is required for effective use of electrical equipment. Equip the power supply with a regulator that will limit the voltage of the power furnished to the laboratory to not more than 240 volts and not less than 220 volts.~~

Construction Requirements

153.02 Contractor Quality Control Plan.

(a) Process control testing. Add the following:

See Table 153-1 for schedule of minimum sampling and testing for process control. Where no minimums are specified, submit proposed tests to be performed and the proposed sampling and testing frequencies.

(c) **Pre-Cast and Cast In Place Concrete Box Culverts.** Construct bedding according to 209.09(b). Use Class B bedding.

209.10 Backfill.

(b) **Culvert.** Delete the first sentence and substitute the following:

Where installing plastic pipe, use backfill material conforming to the requirements of Class B bedding.

Add the following:

As an alternative to backfill material, the Contractor may use lean concrete backfill for backfill of pipe culverts. When utilizing lean concrete backfill, furnish materials and perform the work according to Section 614. Do not use lean concrete backfill with aluminum or aluminum-coated structures or plastic culverts.

Section 212. – LINEAR GRADING

Measurement

212.06 Add the following:

Do not measure changes in the clearing and grubbing quantity caused by alignment adjustments under subsection 212.04.

Section 251. – RIPRAP

Delete the text of this Section and substitute the following:

Description

251.01 This work consists of furnishing and placing riprap *and boulders* for bank protection, slope protection, drainage structures, ~~and~~ erosion control, *vortex weir grade control structures, boulder barriers, landscaping, boulder ramps, and wheelstop barriers.*

Riprap classes, *including boulders, Class 7* are designated as shown in Table 705-1.

Material

251.02 Conform to the following Subsections:

Geotextile type IV-E	714.01
Grout	725.22(e)
Riprap rock	705.02

Construction Requirements

251.03 General. Perform the work under Section 209. Dress the slope to produce a smooth surface. If earthwork geotextile is required, place according to Section 207.

251.04 Placed Riprap. Placed riprap is rock placed on a prepared surface to form a well-graded mass.

Place riprap to its full thickness in one operation to avoid displacing the underlying material. Do not place riprap material by methods that cause segregation or damage to the prepared surface. Place or rearrange individual rocks by mechanical or hand methods to obtain a dense uniform blanket with a reasonably smooth surface.

251.05 Placed Individual Boulders.

Bury individual boulders, obtained from the roadway excavation, in the finished slopes to a depth of two-thirds of their height as directed by the CO. Boulder shall ~~very~~ **vary** in size. Place the boulders so that the largest face is buried. Place the boulders randomly and orient to present a natural and pleasing effect.

Lay and securely place the boulders on firm beds, backfill as required, and compact with hand-operated compaction equipment.

Stake boulder locations, and obtain approval by the CO prior to installation. Locate and group small boulders according to the plans. Do not locate any boulders within the clear zone.

251.06 Placed Boulder, Class 7.

Bury individual boulders, obtained from the roadway excavation, as per the depths shown on the plans. Boulders shall vary in size. Place the boulders so that the largest face is buried. Orient the boulders to present a natural and pleasing effect.

Lay and securely place the boulders on firm beds, backfill as required, and compact with hand-operated compaction equipment.

Stake boulder locations, and obtain approval by the CO prior to installation. Do not locate any boulders within the clear zone.

251.06 07 Grouted Riprap. Grouted riprap is rock placed or keyed on a prepared surface and with the voids filled with grout.

Place rock for grouted riprap according to *Subsection* 251.04 or 251.05. Thoroughly moisten the rocks and wash excess fines from the riprap or to the undersides of the riprap. Place grout only when the air temperature is no less than 1°C within the near-surface voids of the riprap. Also, place grout only when the air temperature 300 mm above the riprap surface is above 2°C. Place the grout in a manner to prevent segregation. Begin placing grout at the lowest elevation of the riprap. Fill all voids without unseating the rocks. Do not exceed 1.5 meter thickness for each layer of grouted riprap. Allow 3 days curing time before adding the next layer of riprap and grout. Provide weep holes through the grouted riprap as required. Keep the grouted riprap moist for 3 days after the work is completed and protect it from freezing for a minimum of 7 days after grouting.

251.07 08 Acceptance. Rock for riprap will be evaluated under Subsection 106.02 and 106.03.

Rock placement for riprap will be evaluated under Subsections 106.02 and 106.04.

Structure excavation and backfill will be evaluated under Section 209.

Geotextile will be evaluated under Section 207.

Material for grout will be evaluated under Subsections 106.02 and 106.03. Grout will be evaluated under Subsections 106.02 and 106.04. Grout placement will be evaluated under Subsection 106.02. See Table 251-1 for minimum sampling and testing requirements.

Measurement

251.08 09 Measure riprap, *class 1 to 6*, by the metric ton or by the cubic meter in place. *Measure placed boulder, class 7 and placed individual boulders by the each.*

Payment

251.09 10 The accepted quantities, measured as provided above, will be paid at the contract price per unit of measurement for the pay items listed below that are shown in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Payment will be made under: Add the following:

Pay Item	Pay Unit
25101B <i>Placed Riprap Class 2</i>	<i>Cubic Meter</i>
25101C <i>Placed Riprap Class 3</i>	<i>Cubic Meter</i>
25101E <i>Placed Riprap Class 5</i>	<i>Cubic Meter</i>
25108 Placed boulder, class 7	Each
25111 Placed individual boulders	Each

Table 251-1
Sampling and Testing

Material or Product	Property or Characteristic	Test Methods or Specifications	Frequency	Sampling Point
Grout	Making test specimens compressive strength ⁽²⁾	AASHTO T 23 AASHTO T 22	1 sample per installation ⁽¹⁾	Job site

⁽¹⁾ Sample consists of 2 test specimens.

⁽²⁾ The compressive strength will be the average of two test specimens.

Section 252. – SPECIAL ROCK EMBANKMENT AND ROCK BUTTRESS

Delete the text of this Section and substitute the following:

Description

252.01 General. This work consists of designing and constructing permanent rockery walls and tiered rockery walls at the locations shown on the Plans. The Contractor shall furnish all labor, working drawings, materials, and equipment required to design and construct the walls. Rock buttress work consists of furnishing and placing hand-placed or mechanically-placed rock at the locations shown on the Plans.

Table 703-7 Delete Table 703-7 and substitute the following:

Table 703-7
Target Value Range for
Single and Multiple Course Treatment Aggregate Gradation

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T27 and T 11)					
	Grading Designation					
	A	B	C	D	E	F
37.5 mm	100 ⁽¹⁾					
25.0 mm	80-90 (3)	100 ⁽¹⁾				
19.0 mm	0-35 (5)	80-90 (3)	100 ⁽¹⁾			
12.5 mm	0-8 (3)	0-35 (5)	80-90 (3)	100 ⁽¹⁾		
9.5 mm	---	0-12 (3)	0-35 (5)	80-90 (3)	100 ⁽¹⁾	100 ⁽¹⁾
4.75 mm	---	---	0-12 (3)	0-35 (5)	85-100 (3)	85-100 ⁽¹⁾
2.36m	---	---	---	0-12 (3)	0-23 (4)	---
75µm	0-1 (1)	0-1 (1)	0-1 (1)	0-1 (1)	0-1 (1)	0-10 ⁽¹⁾

⁽¹⁾ Statistical procedures do not apply.

() Allowable deviations (+/-) from the target values

Section 705. – ROCK

705.02 Riprap Rock. Delete the text and substitute the following:

Furnish hard, durable, angular rock that is resistant to weathering and water action and free of organic or other unsuitable material. Do not use shale, rock with shale seams, or other fissile or fissured rock that may break into smaller pieces in the process of handling and placing. Conform to the following:

- | | |
|--|-------------|
| (a) Apparent specific gravity, AASHTO T 85 | 2.50 min. |
| (b) Absorption, AASHTO T 85 | 4.2% max. |
| (c) Coarse durability index, AASHTO T 210 | 50 min. |
| (d) Gradation for the class specified | Table 705-1 |
| (e) Los Angeles abrasion, AASHTO T 96 | 50% max. |

Add the following row to Table 705-1:

Class	Percent of Rock by Mass	Mass kg	Approximate Cubic Dimension ⁽²⁾⁽³⁾ mm
7	100	700 to 1300	750 to 900

Add the following subsection:

705.07 Rock for Rockery Walls.

(a) Rock Selection

Salvage rock will taken from the material source, rock scaling locations, and excavation of talus slopes for use in constructing rockery walls. Other sources may be approved by the CO, in conjunction with Clear Creek and Park County and the Forest Service during construction, provided the proposed source provides rock of equal specific gravity and is as resistant to weathering and water action as the existing talus rock found on the project.

Stockpile a sufficient number of rocks to provide a good selection for placement. Rocks which have spaces which do not match the spaces offered by the previous course of rock should be placed elsewhere to obtain a better fit. Rock should be generally cubical, tabular, or rectangular shape. Reject or use for filling large void spaces, rocks of basically rounded or tetrahedral form. Select rocks which do not exhibit significant cracks, seams, or foliation joints so that, once in-place, the individual rocks do not break, split, or crumble and thereby create a weak zone within the constructed wall.

(b) Rock Sizing

Typically, rocks used for rock wall construction shall be sized approximately as follows, with the longest dimension of any individual rock not exceeding three times the shortest dimension:

Rock Size	Rock Weight	Average Dimension
One Person	20 to 90 kilograms	0.300 to 0.450 meters
Two Person	90 to 300 kilograms	0.450 to 0.710 meters
Three Person	300 to 900 kilograms	0.710 to 0.900 meters
Four Person	900 to 1800 kilograms	0.900 to 1.200 meters
Five Person	1800 to 2700 kilograms	1.200 to 1.350 meters
Six Person	2700 to 3600 kilograms	1.350 to 1.500 meters

Section 706. – CONCRETE AND PLASTIC PIPE
706.08 Plastic Pipe.

(d) Corrugated polyethylene drainage tubing. Delete the title and text and substitute the following:

(d) Plastic pipe for Underdrains.

Polyethylene perforated or nonperforated corrugated pipe shall conform to AASHTO M 252.

Perforated or nonperforated Polyvinyl Chloride Pipe-Smooth Interior, Smooth or Ribbed Exterior, shall conform to ASTM F 758 or ASTM F 949

Section 708. – PAINT
708.01 General.

(b) Volatile organic compound (VOC) content.

(1) Delete the text and substitute the following:

Clear (unpigmented) coatings

450 g/L max.

708.04 Paint for Steel Structures. Delete the text and substitute the following:

Conform to the following:

(a) Inorganic zinc primer	AASHTO M 300 type II
(b) Vinyl wash primer	SSPC no. 27
(c) Aluminum vinyl paint	SSPC no. 8
(d) White or colored vinyl paint	SSPC no. 9
(e) Aliphatic urethane coating	SSPC no. 36
(f) Latex primer for steel surfaces	SSPC no. 23
(g) Acrylic latex coating	SSPC no. 24
(h) Epoxy coating	SSPC no. 22
(i) Alkyd primer	SSPC no. 31
(j) Silicone alkyd coating	SSPC no. 21

Section 709. – REINFORCING STEEL AND WIRE ROPE

709.01 Reinforcing Steel.

(b) Reinforcing bars. Delete the text and substitute the following:

Furnish deformed, grade 420 bars conforming to AASHTO M 31M, M 42M, or M 53M.

(c) Epoxy coated reinforcing bars. Delete the first paragraph and substitute the following:

Furnish bars conforming to Subsection 709.01(b). Conform to AASHTO M 284M.

(d) Tie bars. Delete the text and substitute the following:

Furnish deformed, grade 420 bars conforming to AASHTO M 31M or M 42M, except do not use AASHTO M 42M steel for tie bars bent and restraightened during construction.

(e) Hook bolts. Delete the first sentence and substitute the following:

Furnish plain, grade 420 bars conforming to AASHTO M 31M or M 42M with M14 rolled threads or M16 cut threads.