

Department of Transportation  
Federal Highway Administration  
Central Federal Lands Highway Division

CO PRA/NPS IMR-PRES-1(08)  
Pavement Preservation  
Canyonlands National Park  
San Juan County, Utah

**INVITATION FOR BID**

This invitation for bid cites Federal Highway Administration  
Specifications FP-03, 2003, U.S. Customary Units

Cut and Paste on Bid Submittal Envelope

**Contractor** \_\_\_\_\_  
**Street Address** \_\_\_\_\_  
**City/State/Zip** \_\_\_\_\_

**OF-17 (cflhd7/03)** FAR (48) CFR 53.214(g)  
**OFFER LABEL** FAR (48) CFR 53.215-1(h)

**NOTICE TO OFFEROR**

1. THIS LABEL MAY ONLY BE USED ON ENVELOPES LARGER THAN 156 mm (6 ½ INCHES) IN HEIGHT AND 292 mm (11 ½ INCHES) IN LENGTH.
2. Print or type your name and address in the UPPER left corner of the envelope containing your offer.
3. Complete the bottom portion of this form and paste it on the lower left corner of the envelope, unless the envelope is 156 mm by 292 mm (6 ½ inches by 11 ½ inches) or smaller.

**OFFER**

**SOLICITATION NO.**

**DATE FOR RECEIPT OF OFFERS**

**TIME FOR RECEIPT OF OFFERS**

**OFFICE DESIGNATED TO RECEIVE OFFERS**

State: Utah

County: San Juan County

Location: Schedule A: Canyonlands National Park  
Option X: Arches National Park  
Option Y: Natural Bridges National Monument  
Option Z : Hovenweep National Monument

Length: Schedule A = 52.32 miles  
Option X = 26.52 miles  
Option Y = 9.64 miles  
Option Z = 1.05 miles

Type of Improvement: Restoration & Rehabilitation

## NOTICE TO LARGE BUSINESSES:

Large businesses must submit a Small Business Subcontracting Plan with their bid package. Bid packages without a subcontracting plan may be rejected.

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## NOTICE TO BIDDERS AND OFFERORS

Before mailing your offer, please check the following:

- Your offer sets forth full, accurate, and complete information as required by this solicitation, including representations and certifications/bidders qualifications and acknowledgement of any amendments that may have been issued.
- You have completed the bid schedule and checked your bid figures, including calculations on your work sheets.
- You have provided the required minimum Bid guarantee in proper form and amount including Power of Attorney Affidavit. See FAR Provision 52.228-1.
- You have completed and signed all required documents.

### INVITATION FOR BID BOOKLET

It is the responsibility of the bidder to verify that this solicitation booklet is complete as listed in the table of contents. Also, the bidder is responsible for submitting all required forms and documents with the bid.

Applicable FAR provisions and clauses in this IFB are incorporated by reference or full text. FAR provisions and clauses incorporated by reference can be accessed on the Internet at [www.arnet.gov/far/](http://www.arnet.gov/far/). Bidders are strongly encouraged to review the provisions and clauses referenced in this document before submitting a bid.

Bidders **must** fill out and submit with their offers: (1) Pages A-1 and A-2; (2) Pages B-1 through B-14, (3) Sections C and D in their entirety; (4) Subcontracting Plan, and (5) Page F-3 of the Contract Clauses indicating Bidder's option to waive the price evaluation preference for HUBZone Certified Firms. The remaining pages should be retained by the bidder for their information.

## NOTICE TO BIDDERS AND OFFERORS

### BONDING

FAR Provision 52.228-1, Bid Guarantee, requires a bid guarantee of not less than 20 percent of the amount of the bid (see page A-3). A bid bond from a corporate surety must be from a surety acceptable to the Government as appearing on the Department of the Treasury's list of approved sureties. The bid bond must have an original signature and an embossed seal for the surety. If a Power of Attorney is required with the bid bond, an original, photocopy or facsimile of an original Power of Attorney is sufficient evidence of authority to bind the surety. If the Power of Attorney form contains any language stating that the Power of Attorney can be revoked at any time, the document must contain an original signature or an embossed seal in the certification section.

Small business concerns, including minority business enterprises, may obtain assistance in securing necessary bonding for this project by contacting the office of the Small Business Administration located in their State.

**ATTENTION:** Minority, Women-owned, and Disadvantaged Business Enterprises (DBEs). The Department of Transportation (DOT), offers working capital financing and bonding assistance for transportation related contracts. DOT's Bonding Assistance Program (BAP) offers bid, performance and payment bonds on contracts up to \$1,000,000. DOT's Short-Term Lending Program (STLP) offers lines of credit to finance accounts receivable. Maximum line of credit is \$500,000 with interest at the prime rate. For further information, call (800) 532-1169. Internet address: <http://osdbuweb.dot.gov>.

### INDIVIDUAL SURETIES

See FAR contract clause 52.228-11, Pledges of Assets.

### UTILIZATION OF SMALL BUSINESS, HUBZone SMALL BUSINESS, SMALL DISADVANTAGED BUSINESS, WOMEN-OWNED SMALL BUSINESS, VETERAN OWNED, AND SERVICE-DISABLED VETERAN OWNED SMALL BUSINESS CONCERNS SUBCONTRACTING PROGRAM

FAR Clause 52.219-8, Utilization of Small Business Concerns states that Prime Contractors afford small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns the maximum practicable opportunity to participate in performing contracts let by any Federal agency.

FAR Clause 52.219-9, Small Business Subcontracting Plan, Alternate I, requires that the large business concern who is the successful low bidder on a Federal project with an anticipated award amount exceeding \$1 million, is required to submit a subcontracting plan prior to contract award. The subcontracting plan expresses goals in terms of percentages of total planned subcontracting dollars for the use of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as subcontractors. To view and download a sample plan for subcontracting requirements, visit <http://www.cflhd.gov/procurement/construction/reference-links.cfm>. If the apparent successful low bidder fails to submit a subcontracting plan acceptable to the CO within the

## NOTICE TO BIDDERS AND OFFERORS

allowable time, that bidder may be ineligible for award of the contract.

A list of currently known business concerns owned and controlled by socially and economically disadvantaged individuals and/or women-owned small business concerns that have indicated an interest in participating in highway construction is available at <http://www.ccr.gov>

### PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS

The award of this contract is subject to a 10% Price Evaluation Preference for HUBZone Small Business Concerns (SBC). Refer to FAR Clause 52.219-4. This price evaluation preference can apply to any qualified HUBZone SBC certified by the Small Business Administration. For any HUBZone SBC electing to waive the preference, see Page F-3 of this solicitation.

### NOTICE TO POTENTIAL HUBZONE SBC BIDDERS

In the event this full and open competition results in a contract award to a qualified HUBZone SBC after a price evaluation preference, FAR Clause 52.236-1, Performance of Work by the Contractor, on page F-4, does not apply.

§126.700 of the Code of Federal Regulations (Title 13, Part 126, Subpart G), stated below, will replace the performance of work requirements stated in the above mentioned FAR clause.

A qualified HUBZone SBC receiving a contract under this solicitation for general construction must spend at least 50% of the cost of the contract incurred for personnel on its own employees or employees of other qualified HUBZone SBCs. This requirement may be met by expending at least 50% of the cost of the contract incurred for personnel on its employees or it may subcontract at least 35% of the cost of the contract performance incurred for personnel to one or more qualified HUBZone SBCs. A qualified HUBZone SBC prime contractor may not, however, subcontract more than 50% of the cost of the contract incurred for personnel to non-qualified HUBZone SBCs.

### PROGRESS PAYMENTS

The DFARS 204.7302, NASA, DOT and Treasury FAR Supplements, requires prospective bidders be registered in Central Contractor Registration (CCR) system prior to the award of a contract, basic agreement, basic ordering agreement, or blanket purchase agreement (Refer to FAR Clause 52.204-7, Central Contractor Registration). The DOT has partnered with the Department of Defense (DOD) to use the CCR system to obtain contractor financial electronic funds transfer (EFT) information.

## NOTICE TO BIDDERS AND OFFERORS

FAR Clause 52.232-33, Payment by Electronic Funds Transfer -- Central Contractor Registration requires that the EFT information in the CCR must be accurate in order for contractors' invoices to be considered proper invoices for the purpose of prompt payment. Contractors must input and maintain their current EFT information.

To register in CCR, access the following DOD web site: [www.ccr.gov](http://www.ccr.gov) .

FAR Clause 52.232-5, Payments Under Fixed-Price Construction Contracts, states reimbursement will be made for premiums paid by the Contractor to obtain performance and payment bonds as required under this contract. As specified in the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP), Section 151, Mobilization, payment for performance and payment bond premiums will be included in the mobilization item and shall not be in addition to the contract price.

FAR Clause 52.232-27, Prompt Payment for Construction Contracts, states the due date for progress payments shall be the 14th day after receipt of a proper payment request by the Government's designated billing office. Bidders are advised to review Subsection 109.08, Progress Payments and Subsection 109.05, Scope of Payment of the FP concerning direct and indirect payments.

### FACSIMILE OR TELEGRAPHIC BIDS ARE NOT AUTHORIZED FOR THIS SOLICITATION

Bids may be modified or withdrawn by facsimile or telegraphic notice, if such notice is received by the time specified for receipt of bids. The Government will not be responsible for ANY failure attributable to the transmission or receipt of telegraphic or facsimile data. See FAR Provision 52.214-5, Submission of Bids.

**FAX Number to submit modifications to bids for this project is (720) 963-3360.**

**A-1**

<b>SOLICITATION, OFFER AND AWARD</b> <i>(Construction, Alteration or Repair)</i>	1. SOLICITATION NO.  DTFH68-08-B-00020	2. TYPE OF SOLICITATION <input checked="" type="checkbox"/> SEALED BID ( <i>IFB</i> ) <input type="checkbox"/> NEGOTIATED ( <i>RFP</i> )	3. DATE ISSUED  June 24, 2008	PAGE OF PAGES  1 OF 2
<b>IMPORTANT - THE "OFFER SECTION ON THE REVERSE MUST BE FULLY COMPLETED BY OFFEROR.</b>				
4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO.	6. PROJECT NO.  CO PRA/NPS IMR-PRES-1(08)		
7. ISSUED BY:  FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS DIVISION 12300 WEST DAKOTA AVENUE, SUITE 167 LAKEWOOD, COLORADO 80228		CODE: 69050001	8. ADDRESS OFFER TO: Federal Highway Administration Central Federal Lands Highway Division Attn: Tiffany Atchison 12300 W Dakota Ave, Ste 360 Lakewood, CO 80228	
9. FOR INFORMATION CALL SEE PAGE A-3	A. NAME: SEE PAGE A-3		B. TELEPHONE NO. ( <i>Include area code</i> ) SEE PAGE A-3	
<b>SOLICITATION</b>				
<i>NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder."</i>				
10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS:  CONSTRUCTION OF CO PRA/NPS IMR-PRES-1(08), PAVEMENT PRESERVATION, IN STRICT ACCORDANCE WITH:				
1. <b>FEDERAL ACQUISITION AND TRANSPORTATION ACQUISITION REGULATIONS (<i>FAR &amp; TAR</i>)</b> 2. <b>DEPARTMENT OF LABOR, DAVIS BACON MINIMUM WAGE RATES (<i>See Section G</i>)</b> 3. <b>SPECIAL CONTRACT REQUIREMENTS (<i>See Section I</i>)</b> 4. <b>PLANS</b> 5. <b>BID SCHEDULE (<i>See Section B</i>)</b> 6. <b>STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, FP-03, 2003, U.S. Customary Units</b> 7. <b>SUBCONTRACTING PLAN (IF APPLICABLE)</b>				
See Subsection 104.04 of the FP for governing order of precedence				
*All work must be complete by September 19, 2008				
11. The Contractor shall begin performance within <u>10</u> calendar days and complete it within <u>*</u> calendar days after receiving <input type="checkbox"/> award <input checked="" type="checkbox"/> notice to proceed. The performance period is <input checked="" type="checkbox"/> mandatory <input type="checkbox"/> negotiable.				
12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? ( <i>If "YES," indicate within how many calendar days after award in Item 12B.</i> ) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				12B. CALENDAR DAYS 10
13. ADDITIONAL SOLICITATION REQUIREMENTS:				
A. Sealed offers in original and <u>0</u> copies to perform the work required are due at the place specified in Item 8. by <u>1:00 p.m.</u> local time on <u>July 24, 2008</u> . If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.				
B. An offer guarantee <input checked="" type="checkbox"/> is <input type="checkbox"/> is not required.				
C. All offers are subject to the (1) work requirements and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.				
D. Offers providing less than <u>60</u> calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.				

**OFFEROR (Must be fully completed by offeror)**

14. NAME AND ADDRESS OF OFFEROR <i>(Include ZIP Code)</i>	15. TELEPHONE NO. <i>(Include area code)</i>
	16. REMITTANCE ADDRESS <i>(Include only if different than Item 14)</i>
CODE	FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing with      calendar days after the date offers are due. *(Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)*

AMOUNTS	SEE INDIVIDUAL BID SCHEDULE(S)
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18. The offeror agrees to furnish any required performance and payment bonds.

**19. ACKNOWLEDGMENT OF AMENDMENTS**  
*(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)*

AMENDMENT NO.										
DATE										

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>	20B. SIGNATURE	20C. OFFER DATE
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**AWARD (To be completed by Government)**

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA
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24. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 27 <i>(4 copies unless otherwise specified)</i>	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO <input type="checkbox"/> 15 U.S.C. 637( ) <input type="checkbox"/> 41 U.S.C. 253(c)( )
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26. ADMINISTERED BY CODE: _____	27. PAYMENT WILL BE MADE BY FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION 12300 W. DAKOTA AVENUE, SUITE 167 LAKEWOOD, COLORADO 80228
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**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT <i>(Contractor is required to sign this document and return _____ copies to issuing office.)</i> Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract.	<input type="checkbox"/> 29. AWARD <i>(Contractor is not required to sign this document.)</i> Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN <i>(Type or print)</i>	31A. NAME OF CONTRACTING OFFICER <i>(Type or print)</i>
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30B. SIGNATURE	30C. DATE	31B. UNITED STATES OF AMERICA BY	31C. AWARD DATE
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ADDITIONAL SOLICITATION INFORMATION

Block 9: DATA AVAILABLE FOR REVIEW

The following materials are available electronically:

Manual of Uniform Traffic Control Devices for Streets and Highways, (Current Edition published by U.S. Government Printing Office found at <http://mutcd.fhwa.dot.gov> .

AASHTO Manuals found at <http://fhwapap04.fhwa.dot.gov/index.jsp> under the Standard Specifications and Supplements link.

FP-03, Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, 2003, found at <http://www.cflhd.gov/design/index.cfm#> under the Construction Specs tab.

Contractor Guidelines for Quality Control Plans and example QC Plans found at <http://www.cflhd.gov/design/index.cfm#> under the Construction Specs tab.

**For amendments, bid results and tabulations or other procurement information please visit our website at [www.cflhd.gov/procurement/construction](http://www.cflhd.gov/procurement/construction)**

Block 13: A bid guarantee of not less than 20 percent of the amount of the bid or \$3 million, whichever is less, is required. If the bidder fails to provide the required bid guarantee in the proper form and amount, such failure may result in rejection of the bid. See FAR Provision 52.228-1, Bid Guarantee. If the bid guarantee is a bid bond, it must be submitted on Standard Form 24. Also refer to Subsections 102.03 and 102.04 of the FP for additional information.

Block 26: The Contractor shall submit invoices to:

FHWA, CFLHD, Project Engineer's Office (Address to be designated at preconstruction conference), for submission to the designated billing office shown in Block 7.

Final billing shall be submitted directly to the address shown in Block 7.

Other: The estimated price range of the project work is between \$3,000,000 and \$7,000,000.

For questions regarding access to the Federal Business Opportunities (FBO) website or how to obtain plans and other solicitation documents, please contact either Tiffany Atchison at (720) 963-3354 or Brenda McGehee at (720) 963-3353.

**As explained in FAR Provision 52.214-6, any explanation or interpretation of the solicitation, drawings, specifications, etc must be requested in writing to one of the following:**

E-mail address: [CFLContracts@fhwa.dot.gov](mailto:CFLContracts@fhwa.dot.gov)  
FAX Number: 720-963-3360  
Mailing Address: Federal Highway Administration  
Central Federal Lands Highway Division  
Attention: Acquisition and Contracting  
12300 W. Dakota Avenue, Suite 360  
Lakewood, Colorado 80228

Responses will be provided to the individual questioner and also be posted on our website at <http://www.cflhd.gov/procurement/construction/advertised-projects.cfm> under the project link. Potential Offerors are advised to check this site on a regular basis to assure the most current and up-to-date information.

All amendments resulting from this solicitation will be uploaded to the FBO website at [http://www.fbo.gov/spg/DOT/FHWA/68/postdatePrevDays\\_1.html](http://www.fbo.gov/spg/DOT/FHWA/68/postdatePrevDays_1.html) and posted on our website at <http://www.cflhd.gov/procurement/construction/advertised-projects.cfm> under Current Solicitations.

**BIDDERS PLEASE BE ADVISED THAT QUESTIONS RELATIVE TO THIS  
IFB WILL NOT BE ACCEPTED AFTER 4:00 P.M. MDT ON JULY 21, 2008.**

## Bid Schedule Instructions

BIDDERS, PLEASE NOTE: Before preparing the bid, carefully read the Solicitation Provisions.

This Bid Proposal is comprised of one schedule and three options as follows:

Schedule A – Restoration and rehabilitation on 52.32 miles of roadway

Option X – Restoration and rehabilitation on 26.52 miles of roadway

Option Y – Restoration and rehabilitation on 9.64 miles of roadway

Option Z – Restoration and rehabilitation on 1.05 miles of roadway

- Insert a numeric unit price for each pay item for which there is a quantity
- When the words “Lump Sum” appear as a unit price, insert an amount for each lump sum pay item.
- Multiply the unit price by the quantity for each pay item and show the amount bid.
- Total all amounts bid for each pay item and show the Total on line provided on Page B-3 for Schedule A; Page B-6 for Option X; Page B-9 for Option Y; and Page B-11 for Option Z.
- Complete the Summary Sheet on Page B-12.

## Evaluation Factors for Award

To be eligible for award of a contract, the bidder shall submit prices for each item necessary to complete all contract work in Schedule A, Option X, Option Y, and Option Z.

Evaluation for award of a contract will consist of Schedule A. Accordingly, contract award will be made to the lowest responsible bidder conforming to the solicitation, provided funds are available.

The Government has the right to exercise an option or all three options no later than 30 days from contract award (FAR Clause 52.217-7, Option for Increased Quantity—Separately Priced Line Item, March 1989).

**All work for Schedules A, Option X, Option Y, and Option Z must be completed by September 19, 2008.**

**Large Businesses must submit a Subcontracting Plan in accordance with FAR 52.219-9, Small Business Subcontracting Plan (Apr 2008), with their bid proposal. The clause and a sample plan are available at <http://www.cflhd.gov/procurement/construction/reference-links.cfm>.**

The following is a list of recourses available for small business subcontracting opportunities:

- Central Contracting Registration—contractors can search for certified small businesses
- SUB-NET—contractors are able to post their need for small business contractors  
(<http://web.sba.gov/subnet/search/index.cfm>)
- State Small Business Administration—to locate contractors
- Local newspaper—place ads

# **Schedule A**

**CO PRA/NPS IMR-PRES-1(08)  
Pavement Preservation**

## Bid Schedule

Project: IMR-PRES-1(08)  
CANYONLANDS NATIONAL PARK

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101-0000	MOBILIZATION ALL	Lump Sum	\$ _____
15401-0000	CONTRACTOR TESTING ALL	Lump Sum	\$ _____
15501-0000	CONSTRUCTION SCHEDULE ALL	Lump Sum	\$ _____
40910-0300	SURFACE TREATMENT, DESIGNATION 1C 728,235 SQYD	\$ _____	\$ _____
40920-1000	FOG SEAL, EMULSIFIED ASPHALT GRADE CSS-1 OR CSS-1H, SS-1 OR SS-1H 375 TON	\$ _____	\$ _____
40940-1300	EMULSIFIED ASPHALT, GRADE CRS-2P 810 TON	\$ _____	\$ _____
41002-3000	MICRO-SURFACING, TYPE 3 20,040 SQYD	\$ _____	\$ _____
41105-0000	BLOTTER 20 TON	\$ _____	\$ _____
41301-0100	ASPHALT PAVEMENT MILLING, 3/4-INCH DEPTH 421,170 SQYD	\$ _____	\$ _____
42801-0100	FLEXIBLE PAVEMENT, FULL DEPTH PATCH, TYPE 1 1,155 SQYD	\$ _____	\$ _____

Bid Schedule A

Project: IMR-PRES-1(08)  
CANYONLANDS NATIONAL PARK

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62201-0050	DUMP TRUCK, 5 CUBIC YARD MINIMUM CAPACITY 40 HOUR	\$ _____	\$ _____
62201-0450	BACKHOE LOADER, 4 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 18-INCH WIDTH 40 HOUR	\$ _____	\$ _____
62301-0000	GENERAL LABOR 60 HOUR	\$ _____	\$ _____
63404-0200	PAVEMENT MARKINGS, TYPE B 3,690 GAL	\$ _____	\$ _____
63405-0050	PAVEMENT MARKINGS, SYMBOLS 90 EACH	\$ _____	\$ _____
63501-1000	TEMPORARY TRAFFIC CONTROL, TRAFFIC AND SAFETY SUPERVISOR ALL	Lump Sum	\$ _____
63502-0700	TEMPORARY TRAFFIC CONTROL, CONE 60 EACH	\$ _____	\$ _____
63502-1400	TEMPORARY TRAFFIC CONTROL, VERTICAL PANEL 210 EACH	\$ _____	\$ _____
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C 60 EACH	\$ _____	\$ _____
63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN 2 EACH	\$ _____	\$ _____
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN 270 SQFT	\$ _____	\$ _____
63505-1500	TEMPORARY TRAFFIC CONTROL, VEHICLE POSITIONING GUIDES 75.0 MILE	\$ _____	\$ _____

Bid Schedule A

Project: IMR-PRES-1(08)  
CANYONLANDS NATIONAL PARK

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER 1,260 HOUR	\$ _____	\$ _____
63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR 630 HOUR	\$ _____	\$ _____

**TOTAL**      \$ \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Name of Bidder

Bid Schedule A

Project:    IMR-PRES-1(08)  
              CANYONLANDS NATIONAL PARK

# **Option X**

**CO PRA/NPS IMR-PRES-1(08)  
Pavement Preservation**

## Bid Schedule

Project: IMR-PRES-1(08)  
ARCHES NATIONAL PARK

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101-0000	MOBILIZATION ALL	Lump Sum	\$ _____
15401-0000	CONTRACTOR TESTING ALL	Lump Sum	\$ _____
40920-1000	FOG SEAL, EMULSIFIED ASPHALT GRADE CSS-1 OR CSS-1H, SS-1 OR SS-1H 180 TON	\$ _____	\$ _____
40940-1300	EMULSIFIED ASPHALT, GRADE CRS-2P 405 TON	\$ _____	\$ _____
41105-0000	BLOTTER 20 TON	\$ _____	\$ _____
42801-0100	FLEXIBLE PAVEMENT, FULL DEPTH PATCH, TYPE 1 1,740 SQYD	\$ _____	\$ _____
62201-0050	DUMP TRUCK, 5 CUBIC YARD MINIMUM CAPACITY 25 HOUR	\$ _____	\$ _____
62201-0450	BACKHOE LOADER, 4 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 18-INCH WIDTH 25 HOUR	\$ _____	\$ _____
62301-0000	GENERAL LABOR 60 HOUR	\$ _____	\$ _____
63404-0200	PAVEMENT MARKINGS, TYPE B 1,965 GAL	\$ _____	\$ _____

Bid Schedule X

Project: IMR-PRES-1(08)  
ARCHES NATIONAL PARK

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63405-0050	PAVEMENT MARKINGS, SYMBOLS 75 EACH	\$ _____	\$ _____
63501-1000	TEMPORARY TRAFFIC CONTROL, TRAFFIC AND SAFETY SUPERVISOR ALL	Lump Sum	\$ _____
63502-0700	TEMPORARY TRAFFIC CONTROL, CONE 60 EACH	\$ _____	\$ _____
63502-1400	TEMPORARY TRAFFIC CONTROL, VERTICAL PANEL 105 EACH	\$ _____	\$ _____
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C 45 EACH	\$ _____	\$ _____
63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN 2 EACH	\$ _____	\$ _____
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN 270 SQFT	\$ _____	\$ _____
63505-1500	TEMPORARY TRAFFIC CONTROL, VEHICLE POSITIONING GUIDES 45.0 MILE	\$ _____	\$ _____
63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER 630 HOUR	\$ _____	\$ _____
63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR 315 HOUR	\$ _____	\$ _____

Bid Schedule X

Project: IMR-PRES-1(08)  
ARCHES NATIONAL PARK

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15501-0000	CONSTRUCTION SCHEDULE		
	ALL	Lump Sum	\$ _____
40910-0300	SURFACE TREATMENT, DESIGNATION 1C		
	345,540		
	SQYD	\$ _____	\$ _____
41002-3000	MICRO-SURFACING, TYPE 3		
	19,800		
	SQYD	\$ _____	\$ _____

**TOTAL** \$ \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Name of Bidder

# **Option Y**

**CO PRA/NPS IMR-PRES-1(08)  
Pavement Preservation**

## Bid Schedule

Project: IMR-PRES-1(08)  
NATURAL BRIDGE

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101-0000	MOBILIZATION ALL	Lump Sum	\$ _____
15401-0000	CONTRACTOR TESTING ALL	Lump Sum	\$ _____
15501-0000	CONSTRUCTION SCHEDULE ALL	Lump Sum	\$ _____
40910-0300	SURFACE TREATMENT, DESIGNATION 1C 65,295 SQYD	\$ _____	\$ _____
40920-1000	FOG SEAL, EMULSIFIED ASPHALT GRADE CSS-1 OR CSS-1H, SS-1 OR SS-1H 30 TON	\$ _____	\$ _____
40940-1300	EMULSIFIED ASPHALT, GRADE CRS-2P 75 TON	\$ _____	\$ _____
41002-3000	MICRO-SURFACING, TYPE 3 5,040 SQYD	\$ _____	\$ _____
41105-0000	BLOTTER 20 TON	\$ _____	\$ _____
42801-0100	FLEXIBLE PAVEMENT, FULL DEPTH PATCH, TYPE 1 50 SQYD	\$ _____	\$ _____
62201-0050	DUMP TRUCK, 5 CUBIC YARD MINIMUM CAPACITY 25 HOUR	\$ _____	\$ _____

Bid Schedule Y

Project: IMR-PRES-1(08)  
NATURAL BRIDGE

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62201-0450	BACKHOE LOADER, 4 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 18-INCH WIDTH 25 HOUR	\$ _____	\$ _____
62301-0000	GENERAL LABOR 60 HOUR	\$ _____	\$ _____
63404-0200	PAVEMENT MARKINGS, TYPE B 315 GAL	\$ _____	\$ _____
63405-0050	PAVEMENT MARKINGS, SYMBOLS 25 EACH	\$ _____	\$ _____
63501-1000	TEMPORARY TRAFFIC CONTROL, TRAFFIC AND SAFETY SUPERVISOR ALL	Lump Sum	\$ _____
63502-0700	TEMPORARY TRAFFIC CONTROL, CONE 60 EACH	\$ _____	\$ _____
63502-1400	TEMPORARY TRAFFIC CONTROL, VERTICAL PANEL 105 EACH	\$ _____	\$ _____
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C 60 EACH	\$ _____	\$ _____
63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN 2 EACH	\$ _____	\$ _____
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN 270 SQFT	\$ _____	\$ _____
63505-1500	TEMPORARY TRAFFIC CONTROL, VEHICLE POSITIONING GUIDES 15.0 MILE	\$ _____	\$ _____
63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER 630 HOUR	\$ _____	\$ _____

Bid Schedule Y

Project: IMR-PRES-1(08)  
NATURAL BRIDGE

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR 315 HOUR	\$ _____	\$ _____

**TOTAL** \$ \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Name of Bidder

Bid Schedule Y

Project: IMR-PRES-1(08)  
NATURAL BRIDGE

# **Option Z**

**CO PRA/NPS IMR-PRES-1(08)  
Pavement Preservation**

## Bid Schedule

Project: IMR-PRES - 1(08)  
HOVENWEEP NATIONAL MONUMENT

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101-0000	MOBILIZATION ALL	Lump Sum	\$ _____
15401-0000	CONTRACTOR TESTING ALL	Lump Sum	\$ _____
15501-0000	CONSTRUCTION SCHEDULE ALL	Lump Sum	\$ _____
41002-3000	MICRO-SURFACING, TYPE 3 14,670 SQYD	\$ _____	\$ _____
42801-0100	FLEXIBLE PAVEMENT, FULL DEPTH PATCH, TYPE 1 90 SQYD	\$ _____	\$ _____
62201-0050	DUMP TRUCK, 5 CUBIC YARD MINIMUM CAPACITY 25 HOUR	\$ _____	\$ _____
62201-0450	BACKHOE LOADER, 4 CUBIC FOOT MINIMUM RATED CAPACITY BUCKET, 18-INCH WIDTH 25 HOUR	\$ _____	\$ _____
62301-0000	GENERAL LABOR 40 HOUR	\$ _____	\$ _____
63404-0200	PAVEMENT MARKINGS, TYPE B 90 GAL	\$ _____	\$ _____
63405-0050	PAVEMENT MARKINGS, SYMBOLS 15 EACH	\$ _____	\$ _____

Bid Schedule Z

Project: IMR-PRES - 1(08)  
HOVENWEEP NATIONAL MONUMENT

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63501-1000	TEMPORARY TRAFFIC CONTROL, TRAFFIC AND SAFETY SUPERVISOR		
	ALL	Lump Sum	\$ _____
63502-0700	TEMPORARY TRAFFIC CONTROL, CONE		
	30 EACH	\$ _____	\$ _____
63502-1400	TEMPORARY TRAFFIC CONTROL, VERTICAL PANEL		
	30 EACH	\$ _____	\$ _____
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C		
	15 EACH	\$ _____	\$ _____
63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN		
	2 EACH	\$ _____	\$ _____
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN		
	270 SQFT	\$ _____	\$ _____
63505-1000	TEMPORARY TRAFFIC CONTROL, PAVEMENT MARKINGS		
	3.0 MILE	\$ _____	\$ _____
63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER		
	210 HOUR	\$ _____	\$ _____
63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR		
	105 HOUR	\$ _____	\$ _____

**TOTAL**      \$ \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Name of Bidder

Bid Schedule Z

Project:   IMR-PRES - 1(08)  
 HOVENWEEP NATIONAL MONUMENT



Continuation of Bid Schedule

**BUY AMERICAN ACT - CONSTRUCTION MATERIALS  
UNDER TRADE AGREEMENTS**

It is understood and agreed that the materials and components listed in Subpart 25.1 of the FAR are a part of this contract and are deemed to be Domestic Construction Material for the purposes of this contract.

**Note to Contractor:**

The following information and any applicable supporting data is required for evaluation of requests under FAR Clause 52.225-9 Paragraph (c) & (d) and FAR Provision 52.225-10 Paragraph (b).

Material and/or Component

Construction Material Description	Unit of Measure	Quantity	*Cost Delivered to Job Site
Foreign Construction Material			
Comparable Domestic Material			

Material and/or Component

Construction Material Description	Unit of Measure	Quantity	*Cost Delivered to Job Site
Foreign Construction Material			
Comparable Domestic Material			

*[\* Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]  
[Please include name, address, telephone number and contact for suppliers surveyed. Attach copy of response; if oral, attach summary. Include all applicable supporting information.]*

## HAZARDOUS MATERIALS

As required by FAR Clause 52.223-3, Hazardous Materials Identification and Safety Data -Alternate I, the apparent low bidder must submit prior to award a Material Safety Data Sheet (MSDS) for all hazardous materials that the bidder identifies in paragraph (b) of the FAR clause and defined under the latest version of Federal Standard No. 313.

Hazardous Material	Identification Number

## USE OF RECOVERED MATERIALS ON FEDERAL LANDS HIGHWAY PROJECTS

Use of fly ash and ground granulated blast furnace slag and construction materials containing fly ash and ground granulated blast furnace slag on Federal Lands Highway projects:

- It is the policy of the United States Government that fly ash and ground granulated blast furnace slag and materials containing fly ash and ground granulated blast furnace slag shall have maximum practicable opportunity for incorporation into its construction projects.
- The Contractor agrees to investigate the use of fly ash and ground granulated blast furnace slag and materials containing fly ash and ground granulated blast furnace slag to the fullest extent consistent with the efficient performance of this contract. Both the contractor and the subcontractors are urged to seek out suppliers of fly ash and ground granulated blast furnace slag, cement and concrete containing fly ash and ground granulated blast furnace slag and to solicit bids for these materials.
- Names of firms that supply fly ash and ground granulated blast furnace slag and materials containing fly ash and ground granulated blast furnace slag are available from the American Coal Ash Association and the National Slag Association.

**C-1**

<b>BID BOND</b> (See instructions on reverse)		DATE BOND EXECUTED (Must not be later than bid opening date)			OMB NO. 9000-0045	
Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the FAR Secretariat (MVR), Federal Acquisition Policy Division, GSA, Washington, D.C. 20405.						
PRINCIPAL (Legal name and business address)				TYPE OF ORGANIZATION (X one)		
				<input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> CORPORATION		STATE OF INCORPORATION
SURETY(IES) (Name and business address)						
PENAL SUM OF BOND				BID IDENTIFICATION		
PERCENT OF BID PRICE	AMOUNT NOT TO EXCEED			BID DATE	INVITATION NO. <b>CO PRA/NPS IMR-PRES-1(08), Pavement Preservation</b>	
20 PERCENT	MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS	FOR (Construction, Supplies or Services)	CONSTRUCTION
<b>OBLIGATION:</b>						
We, the Principal and Surety(ies) are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.						
<b>CONDITIONS:</b>						
The Principal has submitted the bid identified above.						
<b>THEREFORE:</b>						
The above obligation is void if the Principal - (a) upon acceptance by the Government of the bid identified above, within the period specified therein for acceptance (sixty (60) days if no period is specified), executes the further contractual documents and gives the bond(s) required by the terms of the bid as accepted within the time specified (ten (10) days if no period is specified) after receipt of the forms by the principal; or (b) in the event of failure to execute such further contractual documents and give such bonds, pays the Government for any cost of procuring the work which exceeds the amount of the bid.						
Each Surety executing this instrument agrees that its obligation is not impaired by any extension(s) of time for acceptance of the bid that the Principal may grant to the Government. Notice to the surety(ies) of extension(s) are waived. However, waiver of the notice applies only to extensions aggregating not more than sixty (60) calendar days in addition to the period originally allowed for acceptance of the bid.						
<b>WITNESS:</b>						
The Principal and Surety(ies) executed this bid bond and affixed their seals on the above date.						
<b>PRINCIPAL</b>						
SIGNATURE(S)	1.  (Seal)	2.  (Seal)	3.  (Seal)	Corporate  Seal		
NAMES(S) & TITLE(S) (Typed)	1.	2.	3.			
<b>INDIVIDUAL SURETY(IES)</b>						
SIGNATURE(S)	1.  (Seal)	2.  (Seal)				
NAME(S) (Typed)	1.	2.				
<b>CORPORATE SURETY(IES)</b>						
SURETY A	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT \$	Corporate  Seal
	SIGNATURE(S)	1.	2.			
	NAMES(S) & TITLE(S) (Typed)	1.	2.			

CORPORATE SURETY(IES) (Continued)					
SURETY B	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAMES(S) & TITLE(S) (Typed)	1.	2.		
SURETY C	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAMES(S) & TITLE(S) (Typed)	1.	2.		
SURETY D	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAMES(S) & TITLE(S) (Typed)	1.	2.		
SURETY E	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAMES(S) & TITLE(S) (Typed)	1.	2.		
SURETY F	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAMES(S) & TITLE(S) (Typed)	1.	2.		
SURETY G	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT \$	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAMES(S) & TITLE(S) (Typed)	1.	2.		

**INSTRUCTIONS**

1. This form is authorized for use when a bid guaranty is required. Any deviation from this form will require the written approval of the Administrator of General Services.
2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
3. The bond may express penal sum as a percentage of the bid price. In these cases, the bond may state a maximum dollar limitation (e.g., 20% of the bid price but the amount not to exceed 3,000,000.00 dollars).
4. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form, insert only the letter identification of the sureties.  
  
 (b) Where individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28), for each individual surety, shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning its financial capacity.
5. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal"; and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
6. Type the name and title of each person signing this bond in the space provided.
7. In its application to negotiated contracts, the terms "bid" and "bidder" shall include "proposal" and "offeror."

FEDERAL ACQUISITION REGULATION

SOLICITATION PROVISIONS

REPRESENTATIONS AND CERTIFICATIONS

Effective January 2005, offerors/bidders must submit Representations and Certifications online at [www.bpn.gov](http://www.bpn.gov). All offerors/bidders should submit/update this information at least annually. Refer to the Federal Acquisition Provision 52.204-8 Annual Representations and Certifications below. If you have previously accomplished your on-line registration and the NAICS code for this solicitation is different than the code listed in your online profile, please note the amended changes on the lines provided in the Provision below.

REFER TO CFLHD'S WEBSITE AT <http://www.cflhd.gov/procurement/construction/reference-links.cfm> FOR ON-LINE REGISTRATION INSTRUCTIONS

**52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (JAN 2006)**

- (a) (1) The North American Industry Classification System (NAICS) code for this acquisition is 237310.
- (2) The small business size standard is 31.0 million or fewer.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) (1) If the clause at 52.204-7, Central Contractor Registration, is included in this solicitation, paragraph (c) of this provision applies.

(2) If the clause at 52.204-7 is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA electronically, the offeror may choose to use paragraph (c) instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (c) applies.

(ii) Paragraph (c) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [*offeror to insert changes, identifying change by clause number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR CLAUSE	TITLE	DATE	CHANGE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on ORCA.

(End of Provision)



FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

BIDDER'S QUALIFICATIONS

INSTRUCTIONS: Answer all questions on this form inserting "none" or "not applicable" where appropriate. If more space is required attach additional sheets. Return the signed, dated and completed form with the bid to the address shown in the invitation for bids on or before the time set for bid opening. The prospective bidder shall provide any additional information requested by the Government during evaluation of the bids.

If the prospective bidder is a joint venture or general partnership, a separate Bidder's Qualifications form shall be provided individually for each joint venture participant or partner.

1. Name and address of business:

Name _____			DUNS Number (See FAR Provision 52.204-6)* _____
Street _____			Home Office Congressional District (Insert District #) * _____
City _____	State _____	Zip Code _____	* Necessary for Government reporting purposes
County _____			
Telephone Number (Include Area Code) _____			
Fax Number (Include Area Code) _____			

2. a. Type of organization (check appropriate box):

<input type="checkbox"/> Individual	<input type="checkbox"/> Non-profit organization	<input type="checkbox"/> Corporation
<input type="checkbox"/> Partnership	<input type="checkbox"/> Joint Venture	<input type="checkbox"/> Incorporated in: _____

If a Foreign entity:

<input type="checkbox"/> Individual	<input type="checkbox"/> Non-profit organization	<input type="checkbox"/> Corporation
<input type="checkbox"/> Partnership	<input type="checkbox"/> Joint Venture	<input type="checkbox"/> Registered in: _____

b. Size and type of Business Concern (check appropriate boxes):

<input type="checkbox"/> Large Business Concern	<input type="checkbox"/> Small Disadvantaged Business Concern	<input type="checkbox"/> Emerging Small Business
<input type="checkbox"/> Small Business Concern	<input type="checkbox"/> Women-Owned Small Business	<input type="checkbox"/> SBA 8(a) Certified
<input type="checkbox"/> HUB Zone Business Concern	<input type="checkbox"/> Veteran Owned Business Concern	<input type="checkbox"/> Service-Disabled Veteran-Owned Business Concern

3. If a joint venture or general partnership:

- a. Provide the name under which the project will be bid, the home office address, and name of the principal who will represent the company with regard to this project if different from "1." above.

Principal \_\_\_\_\_  
 \_\_\_\_\_  
 Business Name \_\_\_\_\_  
 \_\_\_\_\_  
 Street \_\_\_\_\_  
 \_\_\_\_\_  
 City State Zip Code \_\_\_\_\_

- b. Provide the name and home office addresses of each of the joint venture partners; indicate which partner is the sponsoring partner. Attach a separate sheet for additional partners.

Sponsoring Partner _____			Other Partner _____		
Street _____			Street _____		
City	State	Zip Code	City	State	Zip Code

4. Date organization established: \_\_\_\_\_

5. Name of succeeded business, if any: \_\_\_\_\_

6. How many years have you been in business as:

- a. General contractor \_\_\_ years.  
 b. Subcontractor \_\_\_ years.

7. a. Furnish the following information concerning the owner, partners, officers and directors:

Name	Title	Percent of Business Owned	Years of Business Experience	
			Contracting	Other

- b. Attach resumes of these key personnel as well as the on-site project manager(s) and superintendent(s), and specifically identify the following:
- Present position, responsibility, and length of employment.
  - Amount and type of construction experience.
  - Amount and type of highway construction experience, including position, responsibility, and a brief project description of each period of employment.
  - Formal education and training, professional or technical registrations or licenses.

8. a. Contracts in force. (Attach additional sheets if necessary)

Project Name and Contract Numbers	Owner's Name, Address, and Contact Name and Telephone #	Scope of Work Performed	Contract Amount	Estimated Completion Date	Name of Surety

b. Are there any unresolved claims or lawsuits associated with these projects? If so, state the amount in dispute, parties involved, nature and circumstances of the dispute, and status of the matter on a separate sheet.

9. a. List at least five of the largest jobs you have completed in the last five years which are similar in project work scope to this project. (Attach additional sheets if necessary)

Project Name and Contract Numbers	Owner's Name, Address, Contact Name and Telephone #	Scope of Work Performed	Original and Final Contract Amounts	Original and Final Completion Dates	Names of On-site Project Manager and Superintendent	Name of Surety

b. Are there any unresolved claims or lawsuits associated with these projects? If so, state the amount in dispute, parties involved, nature and circumstances of the dispute, and status of the matter on a separate sheet.

FEDERAL ACQUISITION REGULATIONSOLICITATION PROVISIONSInstructions to Bidders**52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)**

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also the full text of a solicitation provision may be accessed electronically at this address:

<http://www.arnet.gov/far/>.

(End of Provision)

- 52.204-5 WOMEN-OWNED BUSINESS OTHER THAN SMALL BUSINESS (MAY 1999)
- 52.211-6 BRAND NAME OR EQUAL (AUG 1999)
- 52.214-3 AMENDMENTS TO INVITATIONS FOR BIDS (DEC 1989)
- 52.214-4 FALSE STATEMENTS IN BIDS (APR 1984)
- 52.214-5 SUBMISSION OF BIDS (MAR 1997)
- 52.214-6 EXPLANATION TO PROSPECTIVE BIDDERS (APR 1984)
- 52.214-7 LATE SUBMISSIONS, MODIFICATIONS, AND WITHDRAWALS OF BIDS (NOV 1999)
- 52.214-18 PREPARATION OF BIDS - CONSTRUCTION (APR 1984)
- 52.214-19 CONTRACT AWARD - SEALED BIDDING - CONSTRUCTION (AUG 1996)
- 52.214-34 SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
- 52.214-35 SUBMISSION OF OFFERS IN U.S. CURRENCY (APR 1991)
- 52.217-3 EVALUATION EXCLUSIVE OF OPTIONS (APR 1984)
- 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

**52.211-4 AVAILABILITY FOR EXAMINATION OF SPECIFICATIONS NOT LISTED  
IN THE GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND  
COMMERCIAL ITEM DESCRIPTIONS (JUN 1988)**

Specifications cited in this solicitation which are not available for distribution may be examined at the following location:

Federal Highway Administration  
Central Federal Lands Highway Division  
12300 West Dakota Avenue, Suite 360  
Lakewood, Colorado 80228  
Contact: Tiffany Atchison @ (720) 963-3354 or Brenda McGehee @ (720) 963-3353

(End of Provision)

**52.216-1 TYPE OF CONTRACT (APR 1984)**

The Government contemplates award of a firm-fixed price contract resulting from this solicitation.

(End of Provision)

**52.222-23 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO  
ENSURE EQUAL EMPLOYMENT OPPORTUNITY (FEB 1999)**

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation for each trade	Goals for female participation for each trade
10.2% (San Juan) 10.2% (Grand County)	6.9%

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the -

- (1) Name, address, and telephone number of the subcontractor;
- (2) Employer's identification number of the subcontractor;
- (3) Estimated dollar amount of the subcontract;
- (4) Estimated starting and completion dates of the subcontract; and
- (5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" San Juan and Grand Counties, Utah.

(End of Provision)

**52.225-10 NOTICE OF BUY AMERICAN ACT REQUIREMENT -  
CONSTRUCTION MATERIALS (MAY 2002)**

(a) Definitions. Construction material, domestic construction material, and foreign construction material, as used in this provision, are defined in the clause of this solicitation entitled "Buy American Act--Construction Materials" (Federal Acquisition Regulation (FAR) clause 52.225-9).

(b) Requests for determinations of inapplicability. An offeror requesting a determination regarding the inapplicability of the Buy American Act should submit the request to the Contracting Officer in time to allow a determination before submission of offers. The offeror shall include the information and applicable supporting data required by paragraphs (c) and (d) of the clause at FAR 52.225-9 in the request. If an offeror has not requested a determination regarding the inapplicability of the Buy

American Act before submitting its offer, or has not received a response to a previous request, the offeror shall include the information and supporting data in the offer.

(c) Evaluation of offers.

(1) The Government will evaluate an offer requesting exception to the requirements of the Buy American Act, based on claimed unreasonable cost of domestic construction material, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(3)(i) of the clause at FAR 52.225-9.

(2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on unreasonable cost.

(d) Alternate offers.

(1) When an offer includes foreign construction material not listed by the Government in this solicitation in paragraph (b)(2) of the clause at FAR 52.225-9, the offeror also may submit an alternate offer based on use of equivalent domestic construction material.

(2) If an alternate offer is submitted, the offeror shall submit a separate Standard Form 1442 for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of the clause at FAR 52.225-9 for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.

(3) If the Government determines that a particular exception requested in accordance with paragraph (c) of the clause at FAR 52.225-9 does not apply, the Government will evaluate only those offers based on use of the equivalent domestic construction material, and the offeror shall be required to furnish such domestic construction material. An offer based on use of the foreign construction material for which an exception was requested--

(i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding; or

(ii) May be accepted if revised during negotiations.

(End of Provision)

**52.228-1 BID GUARANTEE (SEP 1996)**

(a) Failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids, may be cause for rejection of the bid.

(b) The bidder shall furnish a bid guarantee in the form of a firm commitment, e.g., bid bond supported by good and sufficient surety or sureties acceptable to the Government, postal money order, certified check, cashier's check, irrevocable letter of credit, or, under Treasury Department

regulations, certain bonds or notes of the United States. The Contracting Officer will return bid guarantees, other than bid bonds, (1) to unsuccessful bidders as soon as practicable after the opening of bids, and (2) to the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted.

(c) The amount of the bid guarantee shall be 20 percent of the bid price or \$3,000,000, whichever is less.

(d) If the successful bidder, upon acceptance of its bid by the Government within the period specified for acceptance, fails to execute all contractual documents or furnish executed bond(s) within 10 days after receipt of the forms by the bidder, the Contracting Officer may terminate the contract for default.

(e) In the event the contract is terminated for default, the bidder is liable for any cost of acquiring the work that exceeds the amount of its bid, and the bid guarantee is available to offset the difference.

(End of Provision)

**52.233-2 SERVICE OF PROTEST (SEPT 2006)**

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Kevin R. Black  
Contract Development Engineer  
Central Federal Lands Highway Division  
12300 West Dakota Avenue, Suite 360  
Lakewood, Colorado 80228

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of Provision)

**52.252-3 ALTERATIONS IN SOLICITATION (APR 1984)**

Portions of this solicitation are altered as follows:

None.

(End of Provision)

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**52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also the full text of a clause may be accessed electronically at this address:

<http://www.arnet.gov/far/>.

(End of Clause)

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- 52.204-7      CENTRAL CONTRACTOR REGISTRATION (JUL 2006)
- 52.209-6      PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING  
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- 52.211-18     VARIATION IN ESTIMATED QUANTITY (APR 1984)
- 52.214-26     AUDIT AND RECORDS--SEALED BIDDING (OCT 1997)
- 52.214-27     PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA -  
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- 52.214-28     SUBCONTRACTOR COST OR PRICING DATA - MODIFICATIONS -  
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- 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (MAY 2004)
- 52.219-9 SMALL BUSINESS SUBCONTRACTING PLAN (NOV 2007) -- ALTERNATE I (OCT 2001)
- 52.219-16 LIQUIDATED DAMAGES-SUBCONTRACTING PLAN (JAN 1999)
- 52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (JUN 2007)
- 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)
- 52.222-3 CONVICT LABOR (JUN 2003)
- 52.222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS ACT - OVERTIME COMPENSATION (JUL 2005)
- 52.222-6 DAVIS-BACON ACT (JUL 2005)
- 52.222-7 WITHHOLDING OF FUNDS (FEB 1988)
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- 52.222-9 APPRENTICES AND TRAINEES (JUL 2005)
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- 52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997) -- ALTERNATE I (JUL 1995) (**See Buy American Act, Section B**)
- 52.223-6 DRUG-FREE WORKPLACE (MAY 2001)
- 52.223-14 TOXIC CHEMICAL RELEASE REPORTING (AUG 2003)
- 52.224-1 PRIVACY ACT NOTIFICATION (APR 1984)
- 52.224-2 PRIVACY ACT (APR 1984)
- 52.227-1 AUTHORIZATION AND CONSENT (DEC 2007)
- 52.227-2 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (DEC 2007)
- 52.227-4 PATENT INDEMNITY - CONSTRUCTION CONTRACTS (DEC 2007)
- 52.228-2 ADDITIONAL BOND SECURITY (OCT 1997)
- 52.228-5 INSURANCE-WORK ON A GOVERNMENT INSTALLATION (JAN 1997)
- 52.228-11 PLEDGES OF ASSETS (FEB 1992)
- 52.228-12 PROSPECTIVE SUBCONTRACTOR REQUESTS FOR BONDS (OCT 1995)
- 52.228-15 PERFORMANCE AND PAYMENT BONDS—CONSTRUCTION (NOV 2006)
- 52.229-3 FEDERAL, STATE, AND LOCAL TAXES (APR 2003)
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- 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION (OCT 2003)
- 52.233-1 DISPUTES (JUL 2002) -- ALTERNATE I (DEC 1991)
- 52.233-3 PROTEST AFTER AWARD (AUG 1996)
- 52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004)
- 52.236-1 PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) 50%
- 52.236-2 DIFFERING SITE CONDITIONS (APR 1984)
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- 52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)
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- 52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)
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**52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK  
(APR 1984)--ALTERNATE I (APR 1984)**

The Contractor shall be required to (a) commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than **September 19, 2008**. The time stated for completion shall include final cleanup of the premises.

The completion date is based on the assumption that the successful offeror will receive the notice to proceed by **August 11, 2008**. The completion date will be extended by the number of calendar days after the above date that the Contractor receives the notice to proceed, except to the extent that the delay in issuance of the notice to proceed results from the failure of the Contractor to execute the contract and give the required performance and payment bonds within the time specified in the offer.

(End of Clause)

**52.211-12 LIQUIDATED DAMAGES - CONSTRUCTION (SEPT 2000)**

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of (See Page 41 of the FP-03, Table 108-1 under Subsection 108.04) for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

(End of Clause)

**52.222-39 NOTIFICATION OF EMPLOYEE RIGHTS CONCERNING  
PAYMENT OF UNION DUES OR FEES (DEC 2004)**

(a) *Definition.* As used in this clause—

“United States” means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.

(b) Except as provided in paragraph (e) of this clause, during the term of this contract, the Contractor shall post a notice, in the form of a poster, informing employees of their rights concerning union membership and payment of union dues and fees, in conspicuous places in and about all its plants and offices, including all places where notices to employees are customarily posted. The notice shall include the following information (except that the information pertaining to National Labor Relations Board shall not be included in notices posted in the plants or offices of carriers subject to the Railway Labor Act, as amended (45 U.S.C. 151-188)).

## Notice to Employees

Under Federal law, employees cannot be required to join a union or maintain membership in a union in order to retain their jobs. Under certain conditions, the law permits a union and an employer to enter into a union-security agreement requiring employees to pay uniform periodic dues and initiation fees. However, employees who are not union members can object to the use of their payments for certain purposes and can only be required to pay their share of union costs relating to collective bargaining, contract administration, and grievance adjustment.

If you do not want to pay that portion of dues or fees used to support activities not related to collective bargaining, contract administration, or grievance adjustment, you are entitled to an appropriate reduction in your payment. If you believe that you have been required to pay dues or fees used in part to support activities not related to collective bargaining, contract administration, or grievance adjustment, you may be entitled to a refund and to an appropriate reduction in future payments.

For further information concerning your rights, you may wish to contact the National Labor Relations Board (NLRB) either at one of its Regional offices or at the following address or toll free number:

National Labor Relations Board  
Division of Information  
1099 14th Street, N.W.  
Washington, DC 20570  
1-866-667-6572  
1-866-316-6572 (TTY)

To locate the nearest NLRB office, see NLRB's website at <http://www.nlr.gov>.

(c) The Contractor shall comply with all provisions of Executive Order 13201 of February 17, 2001, and related implementing regulations at 29 CFR part 470, and orders of the Secretary of Labor.

(d) In the event that the Contractor does not comply with any of the requirements set forth in paragraphs (b), (c), or (g), the Secretary may direct that this contract be cancelled, terminated, or suspended in whole or in part, and declare the Contractor ineligible for further Government contracts in accordance with procedures at 29 CFR part 470, Subpart B—Compliance Evaluations, Complaint Investigations and Enforcement Procedures. Such other sanctions or remedies may be imposed as are provided by 29 CFR part 470, which implements Executive Order 13201, or as are otherwise provided by law.

(e) The requirement to post the employee notice in paragraph (b) does not apply to—

(1) Contractors and subcontractors that employ fewer than 15 persons;

(2) Contractor establishments or construction work sites where no union has been formally recognized by the Contractor or certified as the exclusive bargaining representative of the Contractor's employees;

(3) Contractor establishments or construction work sites located in a jurisdiction named in the definition of the United States in which the law of that jurisdiction forbids enforcement of union-security agreements;

(4) Contractor facilities where upon the written request of the Contractor, the Department of Labor Deputy Assistant Secretary for Labor-Management Programs has waived the posting requirements with respect to any of the Contractor's facilities if the Deputy Assistant Secretary finds that the Contractor has demonstrated that—

(i) The facility is in all respects separate and distinct from activities of the Contractor related to the performance of a contract; and

(ii) Such a waiver will not interfere with or impede the effectuation of the Executive order;  
or

(5) Work outside the United States that does not involve the recruitment or employment of workers within the United States.

(f) The Department of Labor publishes the official employee notice in two variations; one for contractors covered by the Railway Labor Act and a second for all other contractors. The Contractor shall—

(1) Obtain the required employee notice poster from the Division of Interpretations and Standards, Office of Labor-Management Standards, U.S. Department of Labor, 200 Constitution Avenue, NW, Room N-5605, Washington, DC 20210, or from any field office of the Department's Office of Labor-Management Standards or Office of Federal Contract Compliance Programs;

(2) Download a copy of the poster from the Office of Labor-Management Standards website at <http://www.olms.dol.gov>; or

(3) Reproduce and use exact duplicate copies of the Department of Labor's official poster.

(g) The Contractor shall include the substance of this clause in every subcontract or purchase order that exceeds the simplified acquisition threshold, entered into in connection with this contract, unless exempted by the Department of Labor Deputy Assistant Secretary for Labor-Management Programs on account of special circumstances in the national interest under authority of 29 CFR 470.3(c). For indefinite quantity subcontracts, the Contractor shall include the substance of this clause if the value of orders in any calendar year of the subcontract is expected to exceed the simplified acquisition threshold. Pursuant to 29 CFR part 470, Subpart B—Compliance Evaluations, Complaint Investigations and Enforcement Procedures, the Secretary of Labor may direct the Contractor to take such action in the enforcement of these regulations, including the imposition of sanctions for noncompliance with respect to any such subcontract or purchase order. If the Contractor becomes involved in litigation with a subcontractor or vendor, or is threatened with such involvement, as a result of such direction, the Contractor may request the United States, through the Secretary of Labor, to enter into such litigation to protect the interests of the United States.

(End of Clause)

**52.225-9 Buy American Act—Construction Materials (Jan 2005)**

(a) Definitions. As used in this clause—

“Component” means an article, material, or supply incorporated directly into a construction material.

“Construction material” means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

“Cost of components” means—

(1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

(2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

“Domestic construction material” means—

(1) An unmanufactured construction material mined or produced in the United States; or

(2) A construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic.

“Foreign construction material” means a construction material other than a domestic construction material.

“United States” means the 50 States, the District of Columbia, and outlying areas.

(b) Domestic preference.

(1) This clause implements the Buy American Act ([41 U.S.C. 10a - 10d](#)) by providing a preference for domestic construction material. The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.

- (2) This requirement does not apply to the construction material or components listed by the Government as follows:

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[Contracting Officer to list applicable excepted materials or indicate “none”]

(3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that—

(i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American Act is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;

(ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or

(iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

- (c) Request for determination of inapplicability of the Buy American Act.

(1)

(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including—

(A) A description of the foreign and domestic construction materials;

(B) Unit of measure;

(C) Quantity;

(D) Price;

(E) Time of delivery or availability;

(F) Location of the construction project;

(G) Name and address of the proposed supplier; and

(H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

(ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American Act applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American Act applies, use

of foreign construction material is noncompliant with the Buy American Act.

(d) Data. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction Material Description	Unit of Measure	Quantity	Price (Dollars)*
Item 1:			
Foreign construction material	_____	_____	_____
Domestic construction material	_____	_____	_____
Item 2:			
Foreign construction material	_____	_____	_____
Domestic construction material	_____	_____	_____

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

[\* Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]

(End of clause)

**52.236-4 PHYSICAL DATA (APR 1984)**

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations by \_\_\_\_\*\_\_\_\_\_.

(b) Weather conditions: Contact National Weather Service.

(c) Transportation facilities NA\_\_\_\_\_.

(d) \_\_\_\_\_\*\_\_\_\_\_.

\* See continuation of Standard Form 1442.

(End of Clause)

**52.252-4 ALTERATIONS IN CONTRACT (APR 1984)**

Portions of this contract are altered as follows:

None.

(End of Clause)



## Power equipment operators:

Backhoe, Tire & Track, over 5 cu. yds.....	\$ 21.35	5.33
Backhoe, Tire & Track, under 5 cu. yds.....	\$ 18.05	6.99
Batch plant, concrete/asphalt.....	\$ 14.20	5.10
Blade, Smooth/Finish.....	\$ 18.09	6.29
Bulldozer, all sizes.....	\$ 17.32	6.00
Cranes, all sizes.....	\$ 19.05	7.63
Grade Setter.....	\$ 17.15	7.08
Heavy Duty Repairman.....	\$ 17.95	7.13
Loader, 2 1/2 to 10 cu. yds.....	\$ 18.05	6.41
Loader, under 2 1/2 to 10 cu. yds.....	\$ 13.04	
Lube and Service Engineer...	\$ 16.71	5.80
Oiler.....	\$ 14.32	2.71
Paver, Concrete/Asphalt.....	\$ 13.81	4.97
Roller, Asphalt.....	\$ 15.82	5.70
Roller, Grade/Compaction....	\$ 14.11	5.17
Scraper, Single engine.....	\$ 18.35	7.63
Screedman.....	\$ 15.88	5.65
Tractor, small rubber tire with attachments.....	\$ 19.52	7.08
Tractor, small rubber tire..	\$ 17.93	7.22

Truck Driver, Dump (Dump  
Trucks - Water level capacity  
(Bottom, End and Side),  
Including Dumpster Truck,  
Turnawagons, Turnarockers and  
Dumpcrete:)

8 cu. yds. and less than 14 cu. yds.....	\$ 14.69	4.47
14 cu yds and less than 35 cu yds, double.....	\$ 16.39	5.72
14 cu yds and less than 35 cu yds.....	\$ 15.30	4.96
Less than 8 cu. yds.....	\$ 16.38	5.88

## Truck Driver

Pickup Truck.....	\$ 15.67	5.87
Water, Fuel and Oil trucks:		
1,200 gallons to less than 2,500 gallons.....	\$ 14.01	3.35
2,500 gallons to less than 4,000 gallons.....	\$ 15.46	6.12
4,000 gallons to less than 6,000 gallons.....	\$ 16.59	6.12
6,000 gallons to less than 10,000 gallons.....	\$ 16.54	5.87
10,000 gallons to less than 150,000 gallons.....	\$ 17.09	6.12

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project

description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

## SPECIAL CONTRACT REQUIREMENTS

IMR-PRES-1(08)  
Canyonlands National Park

The following Special Contract Requirements amend and supplement the *Standard Specifications for Construction of Roads and Bridges, on Federal Highway Projects (FP-03) U.S. Customary Version*, U.S. Department of Transportation, Federal Highway Administration.

### Section 101. – TERMS, FORMAT, AND DEFINITIONS

#### 101.03 Abbreviations.

(b) SI symbols. Add the following:

##### US Customary symbols.

<b>A</b>	— ampere	electric current
<b>ac.</b>	— acre	Area
<b>BTU</b>	— British Thermal Unit	Energy
<b>cu. in. or in<sup>3</sup></b>	— cubic inches	Volume
<b>cu. ft., cf, ft<sup>3</sup> or CUFT</b>	— cubic feet	Volume
<b>cu. yd., cy, yd<sup>3</sup> or CUYD</b>	— cubic yards	Volume
<b>D</b>	— day	Time
<b>deg. or °</b>	— degree	plane angle
<b>Fc</b>	— foot-candles	luminous intensity
<b>fl. oz.</b>	— fluid ounces	Volume
<b>ft. or '</b>	— foot or feet	Length
<b>gal. or GAL</b>	— gallon	Volume
<b>H</b>	— Henry	Inductance
<b>hr. or HR</b>	— hour	Time
<b>Hz</b>	— hertz (s <sup>-1</sup> )	Frequency
<b>in. or "</b>	— inch or inches	Length
<b>K</b>	— kelvin	Temperature
<b>lb or LB, lbs</b>	— pound, pounds	Mass
<b>Lbf</b>	— pound-force	Force
<b>lnft or LNFT</b>	— linear foot	Length
<b>mi.</b>	— miles	Length
<b>min. or m</b>	— minute	Time
<b>min. or '</b>	— minute	plane angle
<b>°F</b>	— degrees Fahrenheit	Temperature
<b>oz.</b>	— ounces	Mass
<b>Psi</b>	— pounds/square inch	Pressure
<b>Q</b>	— cubic feet/second	flow rate
<b>sec. or s</b>	— second	Time

sec. or "	— second	plane angle
sq. in. or in <sup>2</sup>	— square inches	Area
sq. ft., sf, ft <sup>2</sup> or SQFT	— square feet	Area
sq. yd., sy, yd <sup>2</sup> or SQYD	— square yards	Area
Sta.	— station	Length
T	— short ton (2000 lbs)	Mass
V	— volt (W/A)	electric potential
W	— watt (J/s)	Power
YD	— yard or yards	Length
Ω	— ohm V/A	electric resistance

## Section 102. - BID, AWARD, AND EXECUTION OF CONTRACT

**102.03 Bid Guarantee.** Delete the text.

## 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 Material Sources

**(b) Contractor-located sources.** Add the following to the end of the first paragraph:

For Contractor-located, non-commercial sources, secure environmental clearances according to Subsection 107.10.

**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 may use all staging areas outlined in the plans for the storage of materials and stockpiles etc.

Provide erosion control at the all stock pile sites around all areas utilized for storage of materials. Do not expand the existing footprint of any stock pile areas site.

**Section 106. - ACCEPTANCE OF WORK**

**106.01 Conformity with Contract Requirements.** Delete the text and substitute the following:

Follow the requirements of FAR Clause 52.246-12 Inspection of Construction.

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids.

Perform all work to the lines, grades, cross-sections, dimensions, and processes or material requirements shown on the plans or specified in the contract.

Incorporate manufactured materials into the work according to the manufacturer's recommendations or to these specifications, whichever is more strict.

Plan dimensions and contract specification values are the values to be strived for and complied with as the design values from which any deviations are allowed. Perform work and provide material that is uniform in character and reasonably close to the prescribed value or within the specified tolerance range. The purpose of a tolerance range is to accommodate occasional minor variations from the median zone that are unavoidable for practical reasons.

When standard manufactured items are specified (such as fence, wire, plates, rolled shapes, pipe conduits, etc., that are identified by gauge, unit mass, section dimensions, etc.), the identification will be considered to be nominal masses or dimensions. Unless specific contract tolerances are noted, established manufacturing tolerances will be accepted.

The Government may inspect, sample, or test all work at any time before final acceptance of the project. When the Government tests work, copies of test reports are furnished to the Contractor upon request. Government tests may or may not be performed at the work site. If Contractor testing and inspection is verified by the Government, the Contractor's results may be used by the Government to evaluate work for acceptance. Do not rely on the availability of Government test results for process control.

Acceptable work conforming to the contract will be paid for at the contract unit bid price. Four methods of determining conformity and accepting work are described in Subsections 106.02 to 106.05 inclusive. The primary method of acceptance is specified in each Section of work.

However, work may be rejected at any time if it is found by any of the methods not to comply with the contract.

Remove and replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted, at no cost to the Government.

**(a) Disputing Government test results.** If the accuracy of Government test results is disputed, promptly inform the CO. If the dispute is unresolved after reasonable steps are taken to resolve the dispute, further evaluation may be obtained by written request. Include a narrative describing the dispute and a proposed resolution protocol that addresses the following:

- (1) Sampling method
- (2) Number of samples
- (3) Sample transport
- (4) Test procedures
- (5) Testing laboratories
- (6) Reporting
- (7) Estimated time and costs
- (8) Validation process

If the evaluation requires additional sampling or testing be performed, mutually agree with the Government on witnessing procedures and on sampling and testing by a third party laboratory. Use a third party laboratory accredited by the AASHTO accreditation program. Provide proof of the laboratory's accreditation for the test procedures to be used. Do not use the same laboratory that produced the disputed Government test results or that produced the test results used as a basis for the dispute.

The CO will review the proposed resolution protocol and may modify it before final approval and execution.

The Government will use the approved resolution protocol test results to determine the validity of the disputed testing. If the Government test results are validated, the Contractor will be responsible for all costs associated with developing and performing the resolution protocol. If the Government test results are not validated, the Government will be responsible for all costs associated with developing and performing the resolution protocol. If the validity of the Government test results cannot be determined, the Contractor and Government will equally share all costs associated with developing and carrying out the resolution protocol.

**(b) Alternatives to removing and replacing non-conforming work.** As an alternative to removal and replacement, the Contractor may submit a written request to:

- (1) Have the work accepted at a reduced price; or
- (2) Be given permission to perform corrective measures to bring the work into conformity.

The request must contain supporting rationale and documentation. Include references or data justifying the proposal based on an evaluation of test results, effect on service life, value of

material or work, quality, aesthetics, and other tangible engineering basis. The CO will determine disposition of the nonconforming work.

Where sample/testing procedures make reference to AASHTO, ASTM, or other standards (designated as FLH T), the procedure as modified in the Materials Manual shall govern. Where the specifications make reference to AASHTO Test T11, "Procedure B - Washing Using a Wetting Agent" shall be the procedure followed.

Where the specifications make reference to AASHTO Test T310, "Direct Transmission Method of In-Place Nuclear Density and Moisture Content" shall be the procedure followed.

Reference to the Materials Manual means the Federal Lands Highway "Field Materials Manual, U.S. Department of Transportation, Federal Highway Administration," Publication No. FHWA-FL-91-002, dated March 1991, revised March 1994, and all amendments and supplements thereto. Copies are available from the Materials Engineer, Federal Highway Administration, Central Federal Lands Highway Division, Materials Branch, P.O. Box 25246, Denver, Colorado 80225-0246, Telephone: (720) 963-3537.

**106.03 Certification.** Add the following after the second paragraph:

See Table 106-3 for schedule for full or partial acceptance by material certification. Submit certification and sample of material for testing as required.

**106.05 Statistical Evaluation of Work and Determination of Pay Factor (Value of Work).**

**(b) Acceptance.** Delete the last sentence of the second paragraph and substitute the following:

If a lot is concluded or terminated with fewer than three samples, the samples will be combined with those of an adjacent lot. In the event there is no adjacent lot, the material will be accepted according to Subsection 106.04.

**Table 106-2 Pay Factor.**

The Pay Factor 1.03, category I row: Delete the value 84 in the n=9 column and substitute the value 94.

The Pay Factor 0.75, category II row: Delete the value 35 in the n=3 column and substitute the value 25.

**Table 106-3 Schedule For Full or Partial Acceptance by Materials Certification.** Add Table 106-3 following Table 106-2.

**Table 106-3**  
**Schedule For Full or Partial Acceptance by Materials Certification**

Section	Description	Material	Material Property Or Specification	Frequency	
				Certification	Sample
306	Dust Palliative	Magnesium Chloride, Emulsified Asphalt, Lignin Sulfonate, Calcium Chloride	As specified	1 per shipment	First shipment
308	Minor Crushed Aggregate	Crushed Aggregate	Source, Quality and Gradation	1 per source	1 per source
404 and 417	Minor Hot Asphalt Concrete, Minor Cold Asphalt Mix	Aggregate Asphalt Mix	Source quality, Gradation, Stability, and Grade	1 per mix	1 per source
634 and 635	Permanent Pavement Markings, Temporary Traffic Control	634.02 as applicable, 635 as applicable	As specified	1 per source	-----
701	Hydraulic Cement	Portland Cement, Blended Hydraulic Cement and Masonry Cement	AASHTO M 85, M 240, and ASTM C 91	1 per shipment	1 per 100 tons
702.01	Asphalt Material	Asphalt Cement	AASHTO M 20, M 226, MP 1 or as applicable	1 per shipment	1 per shipment
702.02	Asphalt Material	Cut-back Asphalt	AASHTO M 81 or M 82 as applicable	1 per shipment	1 per shipment
702.03	Asphalt Material	Emulsified Asphalt	AASHTO M 140 or M 208 as applicable	1 per shipment	1 per shipment
702.05	Asphalt Material	Asphalt Materials used for Damproofing and Waterproofing Concrete Surfaces	As specified for each type of asphalt material	1 per shipment	-----
702.06	Recycling Agent	As specified	As applicable	1 per shipment	1 per shipment
702.08	Antistrip	As specified	As applicable	1 per shipment	-----
706	Concrete and Plastic Pipe	As specified	As applicable	1 per shipment	-----
707	Metal Pipe	Metal Pipe as specified	As applicable	1 per shipment	-----
708	Paint	As specified	As applicable	1 per batch\lot	1 sample for quantities >100L
709	Reinforcing Steel and Wire Rope	As specified	As applicable	1 per shipment	For 709.01 & 709.03 submit 3, 1-meter bars of each size and

Section	Description	Material	Material Property Or Specification	Frequency	
				Certification	Sample
					grade of bar furnished.  709.02 submit 1, 2-meter length for each size furnished
710	Fence and Guardrail	As specified	As applicable	1 per shipment	-----
711	Concrete Curing Material and Admixtures	As specified	As applicable	1 per material source per material type	-----
712	Joint Material (all)	As specified	As applicable	1 per shipment	-----
713	Roadside Improvement Materials (all)	As specified	As applicable	1 per shipment	-----
714	Geotextile and Geocomposite Drain	As specified	As applicable	1 per shipment	1 per project per type
715	Piling	As specified	As applicable	1 per shipment	-----
716	Material for Timber Structures	Timber and Hardware	As applicable	1 per shipment	-----
717	Structural Metal	As specified	As applicable	1 per shipment	717.01(e) minimum 6 per shipment for each size used.  717.10 1 per project
718	Traffic Signing and Marking (all)	As specified	As applicable	1 per shipment	-----
720	Structural Wall and Stabilized Materials (all)	As specified	As applicable	1 per shipment per material type	-----
721	Electrical and Illumination Material (all)	As specified	As applicable	1 per shipment per material type	-----
722	Anchor Material	As specified	As applicable	1 per shipment per material type	-----
725	Miscellaneous materials	As specified	As applicable	1 per shipment per material type	-----

**Section 107. - LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC**

**107.02 Protection and Restoration of Property and Landscape.** Delete the sixth paragraph and substitute the following:

Before beginning work in an area, contact the local Utility Locator Service, at the phone number shown in the plans, to have all utilities located. Protect utilities from construction operations. Cooperate with utility owners to expedite the relocation or adjustment of their utilities to minimize interruption of service, duplication of work, and delays.

**107.03 Bulletin Board.** Add the following:

(g) “Beck” poster, according to FAR Clause 52.222-39 Notification of Employee Rights Concerning Payment of Union Dues or Fees.

**107.08 Sanitation, Health, and Safety.** Add the following:

Separate construction waste into recyclable materials, green waste, and other debris and place in refuse containers daily and dispose of weekly. Maintain odor control and cleanliness at all times. Use recycled, toxic-free, and environmentally sensitive materials, equipment, and products whenever possible.

Keep work areas in an orderly condition, dispose of all refuse properly, and obtain permits for the construction and maintenance of all construction camps, warehouses, latrines, and other structures in accordance with applicable requirements. Do not store any food, toiletries, scented items (i.e. bug spray), or trash in a location accessible to scavengers. Use only lockable bear proof dumpsters for food related garbage disposal. Verify lids are secure at the close of each work day. Store all food in lockable bear proof food storage containers. Designate an individual to monitor the worksite daily for proper disposal of waste, wrappers, and food packaging. Check all vehicles daily to ensure that no items that may attract bears remain inside an unattended vehicle. Do not leave canned food, drinks, soap, cosmetics, toiletries, domestic trash, recyclable food containers, ice chests, grocery bags, and unwashed items used for preparing or eating meals in vehicles. Clearly mark all large open top waste bins or dumpsters “No Food or Trash”. Instruct all Contractor personnel on proper food storage and disposal of food related items upon entry onto the construction site.

**107.10 Environmental Protection.** Delete the text and substitute the following:

(a) **Spills of Petroleum Products or Hazardous Materials.** Properly clean up, mitigate, and remedy, if necessary, all spills of petroleum products, hazardous materials, or other chemical or biological products released from construction, fleet, or other support vehicles, or stationary sources. Respond in accordance with federal, state, and local regulations.

Immediately report to the CO any spill of petroleum products or a hazardous material. Report the spill to the appropriate federal, state, and local authorities, if the spill is a reportable quantity.

**(b) Water pollution.** Do not operate mechanized equipment or discharge or otherwise place any material within the wetted perimeter of any waters of the U.S. within the scope of the Clean Water Act (33 USC § 1251 et seq.). This includes wetlands unless authorized by a permit issued by the U.S. Army Corps of Engineers according to 33 USC § 1344, and, if required, by any State agency having jurisdiction over the discharge of material into the waters of the U.S. In the event of an unauthorized discharge:

- (1) Immediately prevent further contamination;
- (2) Immediately notify appropriate authorities; and
- (3) Mitigate damages as required.

**Comply with the terms and conditions of any permits that are issued for the performance of work within the wetted perimeter of the waters of the U.S.**

Separate work areas, including material sources, by the use of a dike or other suitable barrier that prevents sediment, petroleum products, chemicals, or other liquid or solid material from entering the waters of the U.S. Use care in constructing and removing the barriers to avoid any discharge of material into, or the siltation of, the water. Remove and properly dispose of the sediment or other material collected by the barrier.

**(c) Vehicles and equipment. All vehicles and equipment entering the project area must be clean of noxious weeds and free from oil leaks and are subject to inspection. Wash all construction equipment to thoroughly remove all dirt, plant, and other foreign material prior to entering the project. Particular attention must be shown to the under carriage and any surface where soil containing exotic seeds may exist. These efforts are critical to prevent the introduction and establishment of non-native plant species into the project area. Make arrangements for the CO to inspect each piece of equipment before entering the project. The CO will maintain records of inspections. Equipment found operating on the project that has not been inspected, or has oil leaks will be shut down and subject to citation.**

In general, when gasoline, diesel fuel, antifreeze, hydraulic fluid or any other chemical contained within the vehicle is released to the pavement or ground, proper corrective, clean-up, and safety actions specified in the SWPPP must be immediately implemented. All vehicles with load rating of 2 tons or greater should carry, at minimum, enough absorbent materials to effectively immobilize the total volume of fluids contained within the vehicle.

Repair oil leaks immediately on discovery. Do not use equipment that is leaking. Have oil pans and absorbent material in place prior to beginning repair work. Have the “on scene” capability of catching and absorbing leaks or spillages of petroleum products including antifreeze from breakdowns or repair actions with approved absorbent materials. Keep a supply of acceptable absorbent materials at the job site in the event of spills, as defined in the SWPPP. Sand or soil are not approved absorbent materials.

Use oil pans and absorbent materials to prevent leaks, spills and draining petroleum fluids from falling onto bare ground and paved surfaces during servicing of equipment. Dig up soils

contaminated with such fluids, place in appropriate safety containers, and dispose of according to state and/or federal regulations.

**(d) Environmental Clearances.**

**(1) Contractor-Selected, Non-Commercial Areas.** Contractor-selected, non-commercial areas include, but are not limited to, material sources, disposal sites, waste areas, haul roads, and staging areas. (A commercial source is a current operating concern, which has in the recent past provided same-type materials or services). These requirements do not apply for areas identified by the FHWA as having previously received clearance.

Prior to construction activities in Contractor-selected, non-commercial areas, provide the following to the CO and the FHWA Environmental Section (12300 West Dakota Avenue, Lakewood, CO 80228/Fax 720-963-3610):

(a) A report with documentation, according to the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation, to determine if prehistoric or historic buildings, structures, sites, objects, or districts listed or eligible for listing in the National Register of Historic Places (NRHP) are present and if they will be affected by the proposed activity. Include information identifying the location, total land area, and type of activity proposed. The FHWA will review this documentation. The FHWA will coordinate with the State Historic Preservation Officer (SHPO) and other parties, which will require the following time frames:

- (1) Coordination on a "no effect" determination may require 30 days or longer.
- (2) Coordination on eligibility and affects may require 45 days or longer.
- (3) Coordination on mitigation of adverse effects may require 60 days or longer.

(b) Written documentation that such activities will not affect any "Waters of the U.S." as defined by the U.S. Army Corps of Engineers. Provide documentation by an individual capable of performing wetland delineations according to the 1987 Corps of Engineers' manual. Documentation of effects to wetlands or other Waters of the U.S. will be submitted to the CO and to the FHWA Environmental section. If wetlands are affected, coordination with the Corps of Engineers may require 45 days or longer.

(c) Written documentation that such activities will not affect any species protected under the Endangered Species Act (ESA). Provide documentation prepared by a biological specialist. The written documentation will include a "no effect," a "may affect-is not likely to adversely affect," or a "may affect-is likely to adversely affect," determination according to Section 7 of the Endangered Species Act. Submit the documentation to the CO and the FHWA Environmental Section. If the determination is "may affect-is not likely to adversely affect" or "may affect-is likely to adversely affect," the FHWA will coordinate with the U.S. Fish and Wildlife Service (FWS), which will require the following time frames:

- (1) "May affect-is not likely to adversely affect" may require 45 days or longer.

(2) “May affect-is likely to adversely affect” may require 150 days or longer.

Contract time will not be increased due to the submittal and approval process for the above three items.

**107.11 Protection of Forests, Parks, and Public Lands.** Add the following:

The following National Park Service fire prevention plan involving emergency curtailment of operations is in effect on this project. The CO will order the suspension of burning and other operations when directed to do so by the National Park Service. No adjustment in the contract completion date will be made for partial or total suspensions of burning operations.

**FIRE PREVENTION AND PROTECTION**

**Responsible Person:** A capable and qualified person shall be placed in charge of fire protection. The responsibilities shall include locating and maintaining fire protective equipment and establishing and maintaining safe torch cutting and welding procedures.

**Hazard Control:** Take all necessary precautions to prevent fire during construction. Do not store flammable or combustible liquids in any existing structure. Provide adequate ventilation during use of volatile or noxious substances.

**Spark Arresters:**

1. Written determinations of periods and areas of potential fire hazard will be issued by Contracting Officer.
2. Equip all gasoline or diesel powered equipment used during periods of potential fire hazards or in potential forest and grass fire locations with spark arresters approved by the USDA National Park Service.

**Service and Refueling Areas:** Locate areas a minimum of 50 feet from buildings. Shut down equipment before refueling.

**Smoking:** Smoking within buildings or temporary storage sheds is prohibited.

**Welding:** Cutting by torch or welding shall be performed only when adequate fire protection is provided.

**Fire Extinguishers:** Provide fire extinguishers with a minimum UL rating of 2 A:10 B:C. Protection Equipment Required.

1. Buildings:

- a. Furnish a minimum of one extinguisher for each 1,500 square feet of area or major fraction thereof.
  - b. Travel distance from any work station to the nearest extinguisher shall not exceed 75 feet.
2. Vehicles and Equipment: Provide one extinguisher on each vehicle or piece of equipment.
  3. Welding Operations: Provide one extinguisher within 10 feet of all welding operations

### **WORK IN FOREST-COVERED, BRUSH-COVERED, OR GRASS-COVERED LAND**

During any time of the year when burning permits are required in an area as described below, no person shall use or operate any motor, engine, boiler, stationary equipment, welding equipment, cutting torches, tar pots, or grinding devices from which a spark, fire or flame may originate. This shall apply for work on or near any forest-covered land, brush-covered land, or grass-covered land. The Park Fire Prevention authorities require that both of the following be done:

1. First clear away all flammable material, including snags from the area around such operation for a distance of 10 feet.
2. Maintain one serviceable round point shovel with an overall length of not less than forty-six (46) inches and one backpack pump water-type fire extinguisher fully equipped and ready for use at the immediate area during the operation.
3. This section does not apply to portable power tools and other portable tools powered by a gasoline-fueled internal combustion engine.

### **Section 108. - PROSECUTION AND PROGRESS**

#### **108.01 Commencement, Prosecution, and Completion of Work: Add the following:**

Limit operations as follows:

Bridges View Drive at Natural Bridges is a one lane road. The Contractor will be allowed to close half of this road at a time to perform the construction. The open portion will be used to accommodate two-way traffic, allowing visitors to view at least 50% of the Park. Public traffic will be allowed to Route 908, Kachina Bridge Parking, required to turn around in the parking area, and return to the Park Entrance.

Perform no work except to maintain traffic control devices, erosion control devices, the roadway driving surface, and to control dust during the listed Federal holidays and surrounding days:

- Memorial Day Weekend: 12:00 Noon Friday to 6:00 am Tuesday.
- Independence Day: 12:00 Noon July 3 to 6:00 am July 5.  
If July 4 falls on a weekend, Friday, or Monday, do not work the weekend.
- Labor Day Weekend: 12:00 Noon Friday to 6:00 am Tuesday.
- Thanksgiving: 12:00 Noon Wednesday to 6:00 am Monday.
- Christmas/New Years Holiday: 12:00 Noon December 23 to 6:00 am January 2.  
If December 23 or January 1 falls on a Monday, do not work the adjacent weekend and do not work on December 23. If January 1 falls on a Friday, do not work the weekend.

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.

Add the following:

A Notice to Proceed must be issued before commencement of any work. The count of contract time will begin upon issuance of the Notice to Proceed and shall run continuously until final construction completion.

## **Section 109. - MEASUREMENT AND PAYMENT**

### **109.02 Measurement Terms and Definitions.**

**(m) Square yard.** Delete the text and substitute the following:

**(m) Square yard.** 9 square feet. Measure on a plane parallel to the surface being measured. No deductions from the area computation will be made for individual fixtures having an area of 9 square feet or less. Do not measure overlaps.

**109.08 Progress Payments.**

**(b) Closing date and invoice submittal date.** Delete the last sentence and substitute the following:

Submit invoices to the designated billing office by the 7th day after the closing date. Invoices received by the designated billing office after the 16th day following the closing date will not be accepted for payment processing that month. Include late, unprocessed invoice submittals in the following month's invoice.

**(e) Processing progress payment requests.**

**(1) Proper invoices.** Delete the title and text and substitute the following:

**(1) Invoices received by the 7th day following the closing date.**

*(a) Proper invoices.* If the invoice meets the requirements of Subsection 109.08(c), and the quantities and unit prices shown on the Contractor's invoice agree with the corresponding quantities and unit prices shown on the Government's receiving report, the invoice will be paid.

*(b) Defective invoices.* If the invoice does not meet the requirements of Subsection 109.08(c), or if any of the quantities or unit prices shown on the Contractor's invoice exceed the corresponding quantities and unit prices shown on the Government's receiving report, the invoice will be deemed defective and the Contractor so notified according to FAR Clause 52.232-27(a)(2). Defective invoices will not be corrected by the Government and will be returned to the Contractor within 7 days after the Government's designated billing office receives the invoice.

Revise and resubmit returned invoices by the 18th day following the closing date. The CO will evaluate the revised invoice. If the invoice still does not meet the requirements of Subsection 109.08(c), the Contractor will be so notified according to FAR Clause 52.232-27(a)(2), and no progress payment will be made that month. Correct the deficiencies and resubmit the invoice the following month.

If the revised invoice meets the requirements of Subsection 109.08(c), but still had quantities or unit prices exceeding the corresponding quantities and unit prices shown on the Government's receiving report, the Government's data for that item or work will be used. The Contractor's invoice, as revised by the Government's receiving report, will be forwarded for processing by the 23rd day following the closing date. The Contractor will be notified by the 23rd day following the closing date of the reasons for any changes to the invoice.

**(2) Defective invoices.** Delete the title and text and substitute the following:

**(2) Invoices received between the 8th and 16th day following the closing date.**

*(a) Proper invoices.* If the invoice meets the requirements of Subsection 109.08(d), and the quantities and unit prices shown on the Contractor's invoice agree with the corresponding quantities and unit prices shown on the CO's receiving report, the invoice will be deemed proper and forwarded for processing within 7 days of receipt.

*(b) Defective invoices.* If the invoice does not meet the requirements of Subsection 109.08(d), the invoice will be deemed defective, the Contractor so notified according to FAR Clause 52.232-27(a)(2), and no progress payment will be made that month. Correct the deficiencies and resubmit the invoice the following month.

If the invoice meets the requirements of Subsection 109.08(d), but has quantities or unit prices exceeding the corresponding quantities and unit prices shown on the Government's receiving report, the Government's data for that item of work will be used. The Contractor's invoice, as revised by the Government's receiving report, will be forwarded for processing within 7 days of the Government's receipt of the invoice. The Contractor will be notified of the reasons for any changes to the invoice.

**(f) Partial payments.** Add the following after the first paragraph:

Partial payments for stockpiled manufactured material (aggregates) will be based on Contractor process control test results. If test results show the material to be out-of-specification, or in "reject" where statistical evaluation procedures are used, no payment for stockpiled materials will be made.

## **Section 153. - CONTRACTOR QUALITY CONTROL**

### **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.

For aggregates and/or aggregate/asphalt mixtures accepted under Subsection 106.03, sample and test for conformity with the Certification a minimum of one time per pay item.

**(b) Inspection/control procedures.****(3) Production phase.** Add the following:

(d) Inspect the work, materials or assemblies accepted under Subsection 106.03 to ensure that **all** the work and materials comply with contract requirements. Furnish the results of the work inspection, along with the product certification or commercial certification as applicable, to the CO prior to incorporating the materials into the work.

**(c) Description of records.** Add the following:

Identify the format for reporting test results, materials certifications and the procedures to be used to maintain inspection records.

**(d) Personnel qualifications.****(1)** Add the following:

Designate a Quality Control Supervisor (QCS) whose primary responsibility is managing the inspection system. The QCS will not be the Contractor's Superintendent. Designate a QCS who is experienced to perform and supervise all work inspection, sampling and testing. The QCS will monitor all phases of the work and identify deficiencies and take appropriate corrective action.

Add the following:

**(3)** Personnel assigned to sampling or testing will have 1 year or more of recent job experience in the type of sampling and testing required by the contract, and the following:

(a) NICET Level II certification in highway materials, or State (SHA) or industry certification-related sampling and testing equivalent to their intended responsibilities.

(b) WAQTC or other nationally accepted certification program for intended sampling and testing responsibilities.

or

(c) Current or previous employment by an AASHTO accredited laboratory performing sampling and testing equivalent to their intended responsibilities.

(d) Demonstrated proficiency or successful testing of one or more proficiency samples may be substituted for basic qualifications pending verification of test results.

**153.03 Testing.** Delete the title and text and substitute the following:

**153.03 Sampling and Testing.** Perform the work required by Table 153-1 and by the accepted Quality Control Plan.

**(a) Acceptance sampling.** Acceptance sampling schedules and times or locations will be provided by the CO. Use a procedure for random sampling. In addition, sample any material that appears defective or inconsistent with similar material being produced, unless such material is voluntarily removed and replaced or otherwise corrected.

**(b) Testing.** If the Government-furnished field laboratory option is not exercised by the CO, furnish a laboratory equipped with all test equipment necessary to satisfy the requirements of the contract. Ensure test equipment has been checked, calibrated, standardized and/or otherwise verified in accordance with AASHTO and ASTM standards by an individual qualified to do this work. Ensure mobile laboratories receive an equipment inspection after the laboratory has been moved to its permanent location on the project site and anytime it is moved thereafter. Inspect equipment within 45 days of actual use in project testing and at least once a year thereafter. Do not use equipment that has not been inspected or is found to be deficient. Mark deficient equipment and take it out-of-service until it is repaired or replaced and shown by subsequent inspection to perform as required. Maintain records documenting these inspections in the laboratory. Provide certification(s) stating the equipment conforms to testing requirements and provide evidence of current inspection.

The CO may require the Contractor to perform testing to demonstrate acceptable equipment and an acceptable level of technician competence. The CO may also check equipment and inspection records to verify condition. Repair or replace equipment not meeting applicable requirements. Keep laboratory facilities clean and maintain equipment in proper working condition. Provide the CO unrestricted access to the laboratory for inspection and review.

**(c) Certifications.** For materials accepted by certification in accordance with 106.03, review all certifications to insure compliance with the requirements of the contract prior to incorporating materials into the work and provide a signed copy of the reviewed certification(s) to the CO.

**153.04 Records.** Add the following to the first paragraph:

When tests are on material being incorporated into the work, report test results within the reporting times indicated in the sampling and testing requirements at the end of each section or as specified in the contract.

Add the following to the second paragraph:

Detailed inspection results including deficiencies observed and corrective actions taken.

**153.05 Acceptance.** Add the following:

If chronic deficiencies are noted in the Contractor's inspection or testing systems, the CO may order supplemental inspection and/or testing to be performed. The Government will charge to the Contractor all costs associated with such supplemental inspection or testing.

Delete the text for Measurement and Payment and substitute the following:

**Measurement**

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section(s): 204, 208, 209.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Embankment Construction  Composition of Roadbed in Cuts	Classification and Moisture/Density	AASTHO M 145 AASHTO T 99 or AASHTO T 180 (minimum of 5 proctor points).	1 per material/type.	Source of material.
	In-place density and moisture content	AASHTO T 310	2 per lift, but not less than 2 every 1000 cubic yards.	Compacted embankment, subgrade as applicable.
	R-value	AASHTO T 190 (Tested by FHWA Central Lab).	1 per 2500 feet, or change in material type.	Sample depth: 0-12 inches.
Bedding/Backfill for Structures and Culvert Pipe	Classification and Moisture/Density	AASTHO M 145 AASHTO T 99 or AASHTO T 180 (minimum of 5 proctor points).	1 per material/type.	Source of material.
	In-place density and moisture content	AASHTO T 310	1 per 50 feet/lift. Minimum 2 per lift.	Compacted bedding or backfill as applicable.

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section(s): 255.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Select wall backfill 704.13(a) and Wall backfill 704.13(b)	Gradation and liquid limit	AASHTO T 11 AASHTO T 27 AASHTO T 89 AASHTO T 90	1 per material/type	Source of material
	Moisture Density	AASHTO T99, Method C <sup>(1)</sup>	1 per material/type	Source of material
	In-place density and moisture content	AASHTO T 310	For MSE walls: 1 per 1-foot lift per 250-feet of wall length (minimum of 2 per lift)	Compacted backfill

<sup>(1)</sup> A minimum of 5 points are required for moisture density test.

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section(s): 301, 303, 304, 305, 306, 308.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Subbase, Base Course Aggregate	Gradation (301)	AASTHO T 11 AASTHO T 27	1 per day	Crusher belt
	Moisture/Density	AASHTO T 99 or AASTHO T 180 (minimum of 5 proctor points)	1 per source of material	Source of material
Stabilization and Aggregate Topsoil Courses	In-place density and moisture content	AASHTO T 310 or ASTM D2950	1 per patch	Compacted aggregate
	Plasticity index (aggregate surfacing only)	AASHTO T 90	1 per day	Crusher belt
	Gradation (304 materials processed in place)	AASHTO T 11 AASHTO T 27	1 per day	Processed material
Magnesium Chloride and Calcium Chloride	Specific Gravity	Hydrometer	1 per shipment	Transport vehicle

Note: Density and Moisture calculations AASHTO T 310...Density corrections based on moisture for recycled materials containing asphalts, or aggregates containing MgCl or CaCl will be made based on samples taken from each test site and oven-dried in the laboratory.

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section: 401.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Superpave Hot Asphalt Concrete Pavement	Gradation	AASTHO T 11 AASHTO T 27	2 per day per stockpile	Crusher belt (during production) and Cold Feed or Hot Bins (as applicable during production of hot mix)
	Moisture content of aggregates	AASHTO T 255	1 per day	Cold Feed (during production of hot mix)
	Compaction	ASTM D2950	Test strip, first day of production to establish roller pattern: 12 per 1500 feet, then 3 per 1500 feet	In place, after compaction
	Placement temperature	Thermometer	As directed	Behind laydown machine
	Surface tolerance	Straight edge and FLH T 504	During and after compaction	See Subsection 401.16
Aggregate	Fine aggregate angularity	AASHTO T 304, Method A	1 per day	Cold Feed

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section(s): 402, 403, 404, 405, 408.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Asphalt Concrete Pavement	Gradation	AASTHO T 11 AASHTO T 27	1 per day	Crusher belt (during production) and Cold Feed or Hot Bins (as applicable during production of hot mix)
Open-Graded Asphalt Friction Course	Moisture content of aggregates	AASHTO T 255	1 per day	Cold Feed (during production of hot mix)
Asphalt Base Course	Compaction	ASTM D2950	1 per patch	In place, after compaction
	Placement temperature	Thermometer	As directed	Behind laydown machine
	Surface tolerance	Straight edge and FLH T 504	During and after compaction	See Subsection 401.16

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section(s): 409, 410.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Chip seal aggregate	Gradation	AASHTO T 11 AASHTO T 27	2 per day	Production belt or spreader discharge
Slurry seal aggregate	Moisture content of aggregates	AASHTO T 255	1 per day	Stockpile or spreader discharge
Asphalt binder Emulsified asphalt	Placement temperature	Thermometer	Prior to each days production, followed by 2 each day	Distributor truck

**Table 153-1**  
**Schedule of Minimum Sampling and Testing For Process Control**  
(to be performed by the Contractor)

**Section(s): 416, 418.**

<b>Material</b>	<b>Property or Characteristic</b>	<b>Test Method or Specification</b>	<b>Frequency</b>	<b>Sampling Point</b>
Continuous Cold Recycled Asphalt Base Course  Foamed Asphalt Stabilized Base Course	Gradation	AASTHO T 27 (maximum size only)	1 per 1500 feet	Recycled material prior to compaction
	Moisture content	FLH T 515	Minimum 1 per 1500 feet alternating lanes (as necessary to comply with contract requirements)	In place after compaction <b>and</b> prior to compaction to determine total moisture.
	In-place density	ASTM D2950	1 per 1500 feet, alternating lanes (1 value will be equal to the mean of 3 in-place tests, and as necessary to comply with contract requirements)	In place after compaction

Note: Density and Moisture calculations ASTM D 2950...Density corrections based on moisture for recycled materials containing asphalts, or aggregates containing MgCl or CaCl will be made based on samples taken from each test site and oven-dried in the laboratory.

**Section 154. - CONTRACTOR SAMPLING AND TESTING****Construction Requirements****154.02 Sampling.** Add the following:

Perform the initial curing of all concrete test cylinders. Provide for transporting the cylinders to the FHWA-Central Federal Lands Highway's Laboratory unless other testing facilities are authorized by the CO.

Label each concrete mold with the name and number of the Project, the cylinder number, date molded, location of the sample, and the test age (i.e. – 7, 14, or 28 days). Label the mold after casting and the cylinder after stripping to ensure the sample can be identified throughout the entire curing process.

Provide the required cylinder molds.

**154.03 Testing** Add the following:

Where Process Control Sampling and Testing frequencies in Table 153-1 are identical to the Sampling and Testing Tables for all applicable work the Process Control Samples may be used for acceptance.

**154.03B Field Laboratory (Contractor-Furnished).** Furnish a laboratory equipped with all test equipment necessary to satisfy the requirements of the contract.

The sampling and testing services of a commercial laboratory meeting or exceeding the requirements described herein may be used if all contract sampling and testing requirements are satisfied by the use of the commercial facility.

Ensure test equipment has been checked, calibrated, standardized and/or otherwise verified in accordance with AASHTO and ASTM standards by an individual qualified to do this work. Ensure mobile laboratories receive an equipment inspection after the laboratory has been moved to its permanent location on the project site and anytime it is moved thereafter. Inspect equipment within 45 days of actual use in project testing and at least once a year thereafter. Do not use equipment that has not been inspected or is found to be deficient. Mark deficient equipment and it take out-of-service until it is repaired or replaced and shown by subsequent inspection to perform as required. Maintain records documenting these inspections in the laboratory. Provide certification(s) stating the equipment conforms to testing requirements and provide evidence of current inspection.

The CO may require the Contractor to perform testing to demonstrate acceptable equipment and an acceptable level of technician competence. The CO may also check equipment and inspection

records to verify condition. Repair or replace equipment not meeting applicable requirements. Keep laboratory facilities clean and maintain equipment in proper working condition. Provide the CO unrestricted access to the laboratory for inspection and review.

## **Section 155. - SCHEDULES FOR CONSTRUCTION CONTRACTS**

### **Construction Requirements**

#### **155.05 Written Narrative.** Add the following:

(j) List anticipated monthly and cumulative contract earnings (including, for schedule updates, any contract modifications) for each month from the beginning of construction operations through the completion of the work. Calculate and list each month's anticipated earnings through the close of business on the date provided by the CO as the cut-off date for monthly project pay estimates.

## **Section 156. - PUBLIC TRAFFIC**

### **Construction Requirements**

#### **156.03 Accommodating Traffic During Work.** Delete the last two sentences of the first paragraph and substitute the following:

Submit situation-specific traffic control implementation drawings and alternate traffic control proposals according to Subsection 104.03 for acceptance at least 14 days before intended use. The contractor will submit traffic control proposals according to the proposed construction schedule.

Submit a construction schedule at least 7 days prior to the beginning of the next workweek indicating.

- Proposed work
- Road Closures
- Effective date and duration of work and closures

Prepare notices and information for public information flyers and Park press releases and provide to the CO on a minimum of a weekly basis at least 72 hours in advance of construction operations.

#### Add the following:

Provide a written back-up plan to open up at least one lane of any closed sections of road to Public Traffic during potential emergencies within the Park. Emergencies within the Park may include major traffic accidents, landslides, flooding, fires, or other events that shutdown Public

Access along a road within the Park or impede emergency vehicles. Address materials and equipment to be kept on-site including steel plates to bridge over trenches, roadway aggregate to fill in open trenches and holes, temporary traffic signs and barricades, and loaders or other construction equipment.

Maintain access to all approach roads, access roads, parking areas, pullouts, and trails during construction except as described in 156.06 or when construction operations create a safety hazard to the general public

#### **156.04 Maintaining Roadways During Work.**

**(a) Add the following:**

Do not construct diversions outside of the clearing limits or use alternate route detours without the approval of the CO.

#### **156.06 Limitations on Construction Operations.**

**(c) Delete the first sentence and substitute the following:**

For alternate one-way traffic control, provide a minimum lane width of 10 feet. For two-way traffic, provide a minimum roadway width of 22 feet.

**(i) Delete the text and substitute the following:**

Limit construction-caused delays to public traffic to a maximum of 15 minutes per passage through the project.

**(j) Add the following:**

Limit the length of area affected as approved by the CO. See Subsection 108.01 for limitations on work.

Allow for the immediate passage of emergency vehicles (ambulance, fire, police, ranger) in emergency related situations.

**(l)** Sequence construction operations in a manner that minimizes construction caused closures and delays to public traffic.

**(m)** Coordinate traffic control measures with other construction projects in the area.

**(n)** It is the Contractor's responsibility to facilitate the delivery of all construction material, equipment and personnel to and from the project in a safe manner around the queue of public traffic waiting for passage into the Park and through the project. No direct compensation will

be made for this purpose (e.g. no flagger or pilot car hours will be measured). Include details of the proposed method to accomplish said deliveries in the Traffic Control Plan submittal to the CO.

- (o) Do not leave construction equipment running while standing by for work.

**156.07 Nighttime Operations.** Add the following:

No night work is allowed when within one-quarter mile distance to the nearest residence, hotel, occupied building, or campsite. Night work is allowed where operations are not within one-quarter mile distance to the nearest residence, hotel, occupied building, or campsite.

**156.08 Traffic and Safety Supervisor.**

Delete the first paragraph and substitute the following:

Provide a traffic and safety supervisor who is certified by the State highway agency or other acceptable certification program. Furnish the traffic safety supervisor's name, address, and 24-hour telephone number(s) at the preconstruction conference. At all times during the contract, including periods of suspensions and work stoppages, perform all of the following:

- (i) Prepare a Transportation Plan to ensure safe and efficient pedestrian and vehicular circulation (including Park operations and emergency vehicles) during construction. Determine phasing and sequencing of signage to route visitors around construction areas and to day use parking and other appropriate locations. Submit plan for CO and Park review and approval 14 days prior to any construction activities impacting public traffic.

- (j) Ensure Park visitors are kept out of active construction areas and in designated public pathways.

- (k) Ensure Park visitors are not exposed to noxious materials or contaminants.

- (l) Minimize impacts to wildlife and wildlife habitats.

- (m) Provide a description of how pedestrians and bicyclists, and safe vehicle passage is provided through the use of signs, flaggers, and pilot cars. Address access for emergency vehicles, police, rangers, fire, and disaster units.

- (n) Include closures of trails to public access in the traffic control plans.

- (o) the traffic control supervisor will not be permitted to operate a pilot car, work as a flagger, laborer, or operator, except to relieve flaggers or pilot car drivers for short periods of time (i.e. a lunch or coffee break), but will be onsite and available at all times to perform the duties as described in this section.

**Section 307. – STOCKPILED AGGREGATES****Description****307.01** Add the following:

This work consists of placing aggregate in a stockpile at an existing pavement location.

Canyonlands National Park: Staging areas include all pullouts along routes and the following Parking Lots: Island in the Sky locations are at the Whale Rock (route 908), Willow Flats road at the bend (route 113). The location for the Needles Area will be at Indian Creek parking lot (route 910) off of route 10 at mile post 7.6.

Arches National Park: Staging areas include all pullouts along routes and at the Balanced Rock boneyard and a dirt road off main park road and across from Balance Rock parking (route 915).

Natural Bridges National Monument: Staging areas include all pullouts along routes.

Hovenweep National Monument: Staging area is located 0.1 miles before park road begins on the BLM location off of county road and a portion of the parking lot.

Natural Bridges National Park: The staging area is located at a large gravel pad on south side of route 10A near the beginning of the park boundary.

Other stockpile locations will require approval by the CO in consultation with the Park. Provide information a minimum of two weeks before hauling begins. So that National Park Service can resolve any issues with proposed stockpile locations.

**Material****307.02** Add the following:

The material will be the aggregates used for the chip seal application.

**Construction Requirements****307.03 Stockpile Site.** Add the following:

Stockpile only at approved locations and obtain approval of the site by the CO in consultation with the Park.

Prepare site by installing construction fence as shown in the plans and at locations to protect the public and Park resources as required by the CO in consultation with the Park.

If the stockpile location is accessible by public traffic, close the site to public traffic by installing type 3 barricades with the MUTCD R11-2 sign "Road Closed" posted on the barricade and visible to public traffic at all times.

Clean the stockpile site thoroughly of all foreign debris including vegetative matter.

**307.04 Stockpile.** Add the following:

Separate the chips into separate stockpiles to prevent mixing of the gradations.

Do not stockpile aggregates where traffic runs through the piles. Avoid tracking dirt into the stockpile.

**Section 308. - Minor Crushed Aggregate**

**308.02 Material** Delete the subsection and substitute the following:

Crushed aggregate	703.05
Water	725.01

Asphalt milled during pavement removal for patching may be used in lieu of crushed aggregate as long as it is reduced to a maximum size of 2 inches.

**308.06 Acceptance** Delete the second paragraph and substitute the following:

Construction of roadway aggregate courses will be evaluated under Subsection 106.02 and 106.04. Method 2 compaction will be evaluated under Section 106.04. Sample material from the windrow or roadbed after processing but prior to compaction at the frequency shown in Table 308-1. Submit samples to the CO for verification. Materials that do not meet the approved certification will be considered unacceptable.

**Table 308 -1 Sampling and Testing Requirements.** Delete Table 308-1 and substitute the following:

**Table 308-1  
Sampling and Testing Requirements**

Material or Product	Type of Acceptance (Subsection)	Property or Characteristic	Test Methods or Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Crushed aggregate <sup>(1)</sup>	Measured and tested for conformance (106.04)	Moisture-Density	AASHTO T180 method D <sup>(3)</sup>	1 for each aggregate supplied.	Production output or stockpile.	---	Before using in work
		Gradation <sup>(2)</sup>	AASHTO T11 and T27	1 for each 1000 t.	From the windrow or roadbed after processing.	---	Before placing next layer
		In-place density and moisture content	AASHTO T310 or other approved procedures	1 for each 1000 t.	In-place completed compaction layer.	---	Before placing next layer

<sup>(1)</sup> Sampling and testing required for roadway aggregate.

<sup>(2)</sup> Use only sieves indicated for the specified gradation.

<sup>(3)</sup> Minimum of 5 points per proctor.

#### Section 404. - MINOR HOT ASPHALT CONCRETE

**Table 404-1 Sampling and Testing Requirements.**

Add footnote (1) after Compaction in the “Property or Characteristic” column:

- (1) When directed, verify density by taking core samples from the compacted pavement according to AASHTO T230 Method B. Fill and compact the sample holes with asphalt concrete mixture.

#### Section 409. — ASPHALT SURFACE TREATMENT

Delete the Section and substitute the following:

#### Section 409. — ASPHALT SURFACE TREATMENT

##### Description

**409.01** This work consists of constructing a single or multiple asphalt surface treatment with aggregate or precoated aggregate. This work also includes constructing an asphalt fog seal without aggregate.

Surface treatment aggregate designation is designated as shown in Tables 409-1, 409-2, and 409-3.

Provide emulsified asphalt grade CRS-2P or equivalent meeting the requirements of Table 702-4.

## Material

**409.02** Conform to the following Subsections:

Aggregate	703.10
Asphalt binder	702.01
Blotter	703.13
Emulsified asphalt	702.03

## Construction Requirements

**409.03 Qualifications.** Submit the following information for approval at least 28 days before placement.

Companies and individuals involved with the placement of asphalt surface treatments must conform to the:

- (a) Demonstrate satisfactory completion of at least 10 comparable projects.
- (b) Provide Superintendent or Foremen experience in surface treatment construction on at least 10 comparable projects.

**409.04 Composition.** Submit the following information and samples for approval at least 21 days before placement:

- (a) **Aggregate samples.** 80 pounds from each stockpile produced and the gradation range represented by each.
- (b) **Aggregate gradation target values.** The proposed percentage of each stockpile to be used and the proposed target value for each sieve size.
- (c) **Asphalt samples.** 2 1-quart samples of asphalt binder or emulsified asphalt from the same source and of the type to be used for the surface treatment.
- (d) **Asphalt temperature.** Apply asphalt at temperatures according to Table 702-1.
- (e) **Spread rates.** The proposed spread rate for the aggregate and asphalt material.

**409.05 Equipment.** Furnish equipment as follows:

**(a) Asphalt distributor.**

- (1) Capable of heating asphalt evenly.
- (2) Adjustable full circulation spray bar to 15-foot width.
- (3) Positive controls including tachometer, pressure gauge, volume measuring device, or calibrated tank to uniformly deposit asphalt over the full width within 0.02 gallons per square yard of the required rate.
- (4) Thermometer for measuring the asphalt temperature in the tank.

**(b) Vacuum Sweeper.** Furnish a minimum of two vacuum sweepers both with the following capabilities:

- (1) Self-propelled.
- (2) Capable of controlling the vertical broom pressure.
- (3) Capable of removing excess aggregate particles.

**(c) Pneumatic-tire rollers.** Furnish a minimum of two pneumatic-tire rollers both with the following capabilities:

- (1) Self-propelled.
- (2) Minimum compacting width - 5 feet.
- (3) Gross weight adjustable within the range of 200 to 360 pounds per inch of compaction width.

**(d) Aggregate spreader.**

- (1) Self-propelled.
- (2) Minimum of 4 pneumatic tires on 2 axles.
- (3) Positive controls to uniformly deposit the aggregate over the full width of asphalt within 10 percent by mass of the required rates.

**(e) Other equipment.** Other equipment of proven performance may be used in addition to or in lieu of the specified equipment when approved by the CO. Provide two-way communication

between the asphalt distributor and the aggregate spreader if the roadway alignment does not permit visual contact.

**409.06 Surface Preparation.** On existing asphalt surfaces, ensure that the surface is dry. Immediately before placing the layer of chips, remove loose dirt and other objectionable material from the surface by approved methods. Fog seal patches using a slow setting emulsion diluted with an equal part water. Apply the diluted emulsion at a rate of 0.15 gallons per square yard.

**409.07 Weather Limitations.** Apply surface treatment or fog seal according to the following:

(a) Apply single or multiple asphalt surface treatments when:

- (1) Between June 15<sup>th</sup> and September 4<sup>th</sup> unless other dates are approved by the CO.
- (2) Ambient air temperature is above 68°F and rising and surface temperatures are between 80°F and 140°F
- (3) Weather is not foggy or rainy, and when rain or temperatures below 40°F are not anticipated for at least 24 hours after application.
- (4) Winds are less than or equal to 10 miles per hour.
- (5) Complete surface treatment application at least 2 hours before sunset.

(b) Apply fog seal when:

- (1) Ambient air and surface temperatures are above 50°F and rising.
- (2) Weather is not foggy or rainy, and when rain or temperatures below 40°F are not anticipated for at least 24 hours after application.
- (3) Complete fog seal applications at least 2 hours before sunset.

**409.08 Production Start-Up Procedures for Surface Treatments.** At least 10 days before the start of constructing all surface treatments containing aggregate, arrange for a pre-surface treatment conference. Coordinate attendance with the CO and any applicable subcontractors. Be prepared to discuss or submit the following:

(a) Proposed schedule of operations.

(b) List of all personnel involved in the production and construction of the work including equipment calibration, sampling, and testing.

(c) List of equipment, quantity, and description to be used in the production and construction of the work.

(d) Proposed traffic control plan.

(e) Discuss Section 153, minimum frequency schedule for process control sampling and testing (to be performed by the Contractor).

(f) Discuss Subsections 409.08; 409.09, and 409.10.

(g) Discuss spill prevention and safety contingency plan.

Provide 7 days advance notice before constructing all asphalt surface treatments containing aggregate. Also use these start-up procedures when resuming production after termination due to nonconforming work.

On the first day of placement of each surface treatment layer, or whenever there is a change in the surface texture or aggregate gradation, construct a minimum of three 50-foot control strips that are one-lane wide. Each control strip will have different application rates of emulsion and/or surface aggregate. The CO will indicate which strip of the will serve as the approved project control strip. Coordinate location of the control strips with the CO.

Construct the control strip using material, lay-down, and compaction procedures intended for the remainder of the surface treatment. Cease production after construction of the control strip until the material and the control strip are evaluated and accepted.

Acceptable control strips may remain in place and will be accepted as a part of the completed surface treatment.

Repeat the control strip process until an acceptable control strip is produced.

**409.09 Asphalt Application.** Calibrate the asphalt distributor spray bar height, nozzle angle, pump pressure and check the longitudinal and transverse spread rates daily, before start up, and as directed by the CO according to ASTM D 2995. If different asphalt distributors are used, calibrate each before use on the project. Ensure that the length of the spread is no more than can be covered with aggregate immediately after application. Document all calibration and application rates and provide to the CO at the end of each days production.

Protect the surfaces of nearby objects to prevent spattering or marring. Spread building paper on the surface for a sufficient distance from the beginning and end of each application so the flow through the distributor nozzles may be started and stopped on the paper.

Apply the asphalt uniformly with an asphalt distributor at the optimum application rate determined from the test strip. Move distributor forward at the proper application speed at the

time the spray bar is opened. Stop application if any nozzles are plugged or if triple nozzle spray coverage is not occurring. Use care not to apply excess asphalt at the junction of spreads.

Correct skipped areas or deficiencies. Remove and dispose of paper or other material used.

**409.10 Aggregate Application.** When using asphalt binder, the aggregate surface should be dry. When using emulsified asphalt, the aggregate surface should be moist. Verify aggregate stockpiles moisture daily during production with visual inspection.

Apply the aggregate uniformly with an aggregate spreader immediately after the asphalt is applied at the optimum application rate determined from the test strip. Check and record spread rate daily, before start up, and as directed by the CO. Operate aggregate spreader so the asphalt is covered with the aggregate before wheels pass over it. During part-width construction, leave uncovered a strip of sprayed asphalt approximately 6 inches wide to permit an overlap of asphalt material.

Immediately correct excesses and deficiencies by brooming or by the addition or removal of aggregate until a uniform texture is achieved. Use hand methods in areas not accessible to power equipment.

When precoated aggregates are used, they may be mixed on the job or at a central mixing plant. Uniformly coat the aggregate with 1.0 to 2.0 percent residual asphalt, by weight of aggregate. Maintain the flow qualities of the precoated aggregate, so it is satisfactorily spread with an aggregate spreader.

Operate rollers at a maximum speed of 5 miles per hour. Do not permit the aggregate to be displaced by pickup or sticking of material to the tire surface. Roll the surface to uniformly and thoroughly bond the aggregate over the full width. Complete rolling within 1 hour after asphalt is applied to the surface.

**409.11 Fog Seal.** A fog seal consists of applying slow-setting emulsified asphalt diluted with water onto an existing asphalt surface. Unless otherwise noted on the plans, dilute the specified emulsion one part water to one part emulsified asphalt. Apply the diluted emulsified asphalt according to Subsection 409.09 at a rate of 0.10 to 0.15 gallons per square yard depending on the condition of the existing surface. Allow the fog seal to penetrate undisturbed for at least 2 hours or until the emulsified asphalt breaks and is substantially absorbed into the existing surface. Then lightly cover remaining spots of excess asphalt with blotter according to Section 411 before opening the surface to traffic.

**409.12 Single-Course Surface Treatment.** A single-course surface treatment consists of applying asphalt material onto an existing surface immediately followed by a single, uniform application of aggregate. Apply the asphalt and aggregate according to Subsections 409.09 and 409.10 at the approximate rates shown in Table 409-1. Application rates shown in Table 409-1 should be used for estimating purposes only. The contractor shall determine aggregate and

asphalt application rates that may fall outside the ranges shown in Table 409-1. Before curing, the emulsion should rise just below the top of the aggregate. After curing, embedment depth of the aggregate in the residual asphalt should be approximately 60% of the nominal maximum size. Determine the exact rates based on approved control strips.

Use a pilot car according to Section 635 to limit traffic speeds. During the initial 45 minutes after completion of rolling, limit the traffic speeds to 10 miles per hour. Limit traffic speeds to 20 miles per hour for 24 hours.

Lightly broom the aggregate surface on the morning after construction. Maintain the surface for 4 days by distributing blotter according to Section 411 to absorb any free asphalt and by repairing areas deficient in aggregate. Remove excess material from the surface using a rotary broom. Do not displace embedded material. Do not broom the surface where the air temperature is above 90°F.

**Table 409-1**

**Approximate Quantities of Material for  
Single-Course Surface Treatment**

Designation	Nominal Maximum Size of Aggregate	Aggregate Gradation <sup>(1)</sup>	Estimated Quantity of Aggregate <sup>(2)</sup> pounds/yd <sup>2</sup>	Estimated Quantity of Emulsified Asphalt gallons/yd <sup>2</sup>	Estimated Quantity of Asphalt Binder gallons/yd <sup>2</sup>
<b>1A</b>	¾ inch	B	44 – 53	0.48 – 0.65	0.31 – 0.43
<b>1B</b>	½ inch	C	29 – 33	0.39 – 0.53	0.27 – 0.36
<b>1C</b>	⅜ inch	D	24 – 28	0.27 – 0.43	0.17 – 0.29
<b>1D</b>	No. 4	E	18 – 24	0.22 – 0.29	0.14 – 0.19
<b>1E</b>	Sand	F	13 – 18	0.17 – 0.24	0.12 – 0.17

<sup>(1)</sup> See Table 703-7 for aggregate gradations.

<sup>(2)</sup> Aggregate masses are for aggregates having a bulk specific gravity of 2.65, as determined by AASHTO T 84 and AASHTO T 85. Make proportionate corrections when the aggregate furnished has a bulk specific gravity above 2.75 or below 2.55.

**409.13 Acceptance.** Asphalt binder, and emulsified asphalt, will be evaluated under Subsections 106.03, 106.04 and 702.09. Furnish a production certification for the grade of emulsified asphalt specified in Subsection 409.01.

Aggregate gradation for asphalt surface treatment will be evaluated under Subsection 106.05.

See Table 409-4 for sampling and testing requirements.

The upper and lower specification limits are equal to the calculated mean of all test results plus or minus the allowable deviations shown in Table 703-7, except as follows:

**(a)** If the calculated mean value for any tested sieve exceeds the maximum gradation value shown in Table 703-7, the upper specification is equal to the maximum gradation value plus the allowable deviation, and the lower specification is equal to the maximum gradation value minus the allowable deviation.

**(b)** If the calculated mean value for any tested sieve is less than the minimum gradation value shown in Table 703-7, the upper specification is equal to the minimum gradation value plus the allowable deviation and the lower specification is equal to the minimum gradation value minus the allowable deviation.

Construction of asphalt surface treatment course will be evaluated under Subsections 106.02 and 106.04.

Prime coat and blotter will be evaluated under Section 411.

### **Measurement**

**409.14** Measure the Section 409 items listed in the bid schedule according to Subsection 109.02 for each day's production and the following as applicable.

Measure and provide temperature volume corrections for emulsified asphalt and asphalt binder to 60°F.

Measure surface treatment aggregate in the hauling vehicle prior to stockpiling or prior to placement if not stockpiled.

Measure fog seal including water added for dilution.

Indicate a breakdown of total emulsion and water added on the load invoices supplied to the CO for payment.

Measure blotter under Section 411.

### **Payment**

**409.15** The accepted quantities will be paid at the contract price per unit of measurement for the Section 409 pay items listed in the bid schedule except the aggregate surface treatment contract price unit bid price will be adjusted according to Subsection 106.05. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

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**Table 409-4**  
**Sampling, Testing and Acceptance Requirements**

<b>Material or Property</b>	<b>Type of Acceptance (subsection)</b>	<b>Characteristic</b>	<b>Category</b>	<b>Test Methods Specifications</b>	<b>Sampling Frequency</b>	<b>Point of Sampling</b>	<b>Split Sample</b>	<b>Reporting Time</b>
Aggregate Surface treatment aggregate <sup>(1)</sup> (703.10)	Measured and tested for conformance (106.04 & 105)	LA abrasion	---	AASHTO T 96	1 per type & source of material	Source of Material	Yes, when requested	Before using in work
		Sodium sulfate soundness loss (coarse & fine)	---	AASHTO T 104	"	"		"
		Fractured faces	---	ASTM D 5821	"	"		"
		Flat & elongated particles	---	ASTM D 4791	"	"		"
		Adherent coating	---	ASTM D 5711	"	"		"
		Clay lumps & friable particles	---	AASHTO T 112	"	"		"
Aggregate surface treatment aggregate <sup>(1)</sup>	Statistical (106.05)	Gradation. See Table 703-7 for applicable sieves.	I	AASHTO T 27 & T 11	1 per 750 tons	Production belt or spreader discharge	Yes	24 hours

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	Measured and tested for conformance (106.04 & 106.05)	Fractured faces	---	ASTM D 5821	1 per 750 tons	Production belt or spreader discharge	Yes	24 hours
		Liquid limit <sup>(2)</sup>	---	AASHTO T 89	“	“	“	“
Asphalt binder <sup>(3)</sup> (702.01) or emulsified asphalt <sup>(3)</sup> (702.03)	Measured and tested for conformance (106.04)	Quality	---	Subsection 409.13	1 per tanker truck including trailer	Point of shipment delivery	2 1-quart samples	---

(1) Applies to each aggregate grade furnished.

(2) For blotter material only.

(3) Applied to each asphalt material furnished.

**Section 410. – SLURRY SEAL**

Delete the Section and substitute the following:

**Section 410. — MICRO-SURFACING****Description**

**410.01** This work consists of applying a polymer modified micro-surfacing mix on an existing pavement surface.

Micro-surfacing Type III as shown in Table 703-8 is to be used on this project. The residual asphalt content specified is  $7.5 \pm 2$  percent by dry total weight of aggregate.

**410.02** Conform to the following Subsections:

Aggregate	703.11
Emulsified asphalt, polymer modified	702.03(d)
Mineral Filler	725.05
Water	725.01(c)

**Construction Requirements**

**410.03 Composition of Mix (Job-Mix Formula).** Furnish a micro-surfacing mixture of aggregate, water, polymer modified emulsified asphalt and additives according to ASTM 6372-05. Conform to the Type III aggregate gradation in Table 703-8 and the residual asphalt content in Subsection 410.01.

Submit a written job-mix formula for approval at least 14 days before production that meets the mix design requirements in ISSA A143 for micro-surfacing. Submit the following:

- (a) **Aggregate gradation values.** The representative value for each sieve size for the aggregate blend.
- (b) **Emulsified asphalt content.** The residual asphalt content, as a percent by mass of dry aggregate.
- (c) **Polymer modifier.** Type and amount of polymer modifier solids based on the residual asphalt content.
- (c) **Aggregate samples.** 100-pound sample of each aggregate.

- (d) **Emulsified asphalt sample.** Source of and 5-gallon sample of the emulsified asphalt to be used in the mix.
- (e) **Mineral filler samples.** 50-pound sample of each proposed mineral filler.
- (f) **Qualifications.** Demonstrate satisfactory completion of at least 5 comparable projects. Provide Superintendent or Foreman experience in micro-surfacing on at least 5 comparable projects.

The job-mix formula will be evaluated for approval.

**410.04 Equipment.** Furnish with the following capabilities.

**(a) Mixing equipment.**

- (1) Self-propelled;
- (2) Continuous-flow mixing,
- (3) Calibrated controls;
- (4) Easily readable metering devices that accurately measure all raw material before entering the pugmill;
- (5) Automated system for sequencing in all raw material to ensure constant slurry mix;
- (6) Mixing chamber to thoroughly blend all ingredients together;
- (7) Fines feeders with an accurate metering devices for introducing additives into the mixer;
- (8) A pressurized water system with a fog-type spray bar capable of fogging the surface immediately ahead of the spreading equipment at a rate of 0.03 to 0.06 gallons per square yard;
- (9) Proportioning system that is accurate for measuring all material independent of engine speed;
- (10) Minimum speed of 60 feet per minute and maximum speed of 180 feet per minute;
- (11) Minimum storage capacity of 7 tons; and

(12) Capable according to ISSA Performance Guidelines A143.

**(b) Mechanical-type single squeegee spreader box.**

- (1) Attaches to the slurry seal mixer;
- (2) Flexible squeegee in contact with the surface to prevent loss of slurry;
- (3) Adjustable to ensure a uniform spread over varying grades and crowns;
- (4) Adjustable in width with a flexible strike-off; and
- (5) Augers for uniform flow to edges.

**(c) Auxiliary equipment.** Furnish hand squeegees, shovels, and other equipment necessary to perform the work. Provide cleaning equipment including, but not limited to, power brooms, air compressors, water flushing equipment, and hand brooms for surface preparation.

**410.05 Surface Preparation.** Clean the existing surface of all loose material, dirt, or other deleterious substances by approved methods. Protect all service entrances such as manholes, valve boxes and drop inlets from the micro-surfacing by a method suitable to the CO. Protect all concrete work, rock walls and other objects from the micro-surfacing with a method suitable to the CO.

**410.06 Weather Limitations.** Apply the mixture when the air temperature in the shade and the surface temperature are at least 45°F and rising and when the weather is not foggy, rainy, or overcast. Do not apply when there is a danger that the finished product will freeze within 24 hours.

**410.07 Production Start-Up Procedures for Surface Treatments.** At least 10 days before the start of constructing the micro-surfacing, arrange for a pre-micro-surfacing conference. Coordinate attendance with the CO and any applicable subcontractors. Be prepared to discuss or submit the following:

- (a) Proposed schedule of operations.
- (b) List of all personnel and equipment involved in the production and construction of the work including equipment calibration, sampling, and testing.
- (c) Proposed traffic control plan.
- (e) Discuss Section 153, minimum frequency schedule for process control sampling and testing (to be performed by the Contractor).

(f) Discuss Subsections 410.05, 410.06, 410.07 and 410.08.

(g) Discuss spill prevention and safety contingency plan.

Provide 7 days advance notice before constructing all micro-surfacing. Also use these start-up procedures when resuming production after termination due to nonconforming work.

On the first day of placement, construct a 300-foot test strip, one lane wide. The CO will approve the test strip before production begins. Coordinate location of the control strips with the CO.

Construct the control strip using material and lay-down procedures intended for the remainder of the micro-surfacing. Cease production after construction of the control strip until the material and the control strip are evaluated and accepted.

Acceptable control strips may remain in place and will be accepted as a part of the completed surface treatment.

Repeat the control strip process until an acceptable control strip is produced.

**410.08 Application.** Mix the materials using a slurry seal mixer and according to ISSA Performance Guideline A 143. Fog the surface with water immediately preceding the spreader.

Blend the additives with the aggregate using the fines feeders. Pre-wet the aggregate in the pugmill immediately before mixing with the polymer-modified emulsified asphalt.

Mix the surfacing materials a maximum of 4 minutes. Ensure the mix is of the desired consistency as it leaves the mixer and conforms to the approved job-mix formula. Adjustment of the mineral filler and the emulsified asphalt content during construction may be approved to adjust for variations in field conditions.

Carry sufficient mix in the spreader to completely cover the surface. Spread the mix with a mechanical-type squeegee spreader box. In areas not accessible to the spreader box, use hand squeegees to work the mix.

Allow treated areas to completely cure before opening to traffic. Cure is complete when clear water can be pressed out of the mix with a piece of paper without discoloring the paper.

Prior to starting application of micro-surfacing, calibrate each mixing unit to be used on the project in accordance with ASTM D 6372 and in the presence of the CO or designated representative. Clean spreader box prior to start of each work shift.

Transverse joints: Use a butt joint. Use building paper placed over previously placed slurry seal or other suitable method to avoid double placement of slurry seal. Ridges or bumps in the finished surface are not permitted.

Longitudinal joints: Place longitudinal joints on lane lines. Half passes and odd-width passes can be used only in turnouts and parking areas. When half passes are used, they shall not be the last pass of any paved area. Overlap longitudinal joints no more than 3 inches. Keep elevation difference at joints less than  $\frac{1}{4}$  inch.

Roll parking areas and turnouts with a self-propelled, 10-ton pneumatic roller with a tire pressure of 50 psi and equipped with a water spray system. Subject surfaced areas to a minimum of 2 full-coverage passes with the roller. Do not commence rolling until micro-surfacing has cured to the point where it will not pick up on the tires of the roller.

No streaks or transverse ripples as defined by ISSA Performance Guidelines A 143 are allowed in the finished surface. Ensure straight lines along curb and shoulders. No runoff on these areas is permitted. Mask off surface areas at the project start, end, and as directed by the CO to provide straight and neat starting and ending joints.

Clean up all material spills; remove from the park, and dispose of in accordance with all local, state, and federal regulations. On a daily bases remove all debris associated with the performance of the work from the park, and dispose of in accordance with all local, state, and federal regulations.

**410.09 Acceptance.** See Table 410-1 for sampling and testing requirements.

Polymer modified emulsified asphalt will be evaluated under Subsections 106.03 and 702.09.

Aggregate for surfacing mixture will be evaluated under Subsections 106.02 and 106.04.

Construction of surfacing will be evaluated under Subsections 106.02 and 106.04.

Construction of asphalt surface treatment course will be evaluated under Subsections 106.02 and 106.04.

### **Measurement**

**410.10** Measure the Section 410 items listed in the bid schedule according to Subsection 109.02 for each day's production.

### **Payment**

**409.11** The accepted quantities will be paid at the contract price per unit of measurement for the Section 410 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

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**Table 410-1**  
**Sampling, Testing and Acceptance Requirements**

<b>Material or Property</b>	<b>Type of Acceptance (subsection)</b>	<b>Characteristic</b>	<b>Category</b>	<b>Test Methods Specifications</b>	<b>Sampling Frequency</b>	<b>Point of Sampling</b>	<b>Split Sample</b>	<b>Reporting Time</b>
Aggregates for surfacing mixture (703.11)	Measured and tested for conformance (106.04)	Gradation	---	AASHTO T 27 & T 11	1 per 500 tons	Stockpile	Yes, when requested	Before using in work
		LA abrasion	---	AASHTO T 96	1 per aggregate	Aggregate source		"
		Soundness	---	AASHTO T 104	"	"		"
		Sand equivalent	---	AASHTO T 176, alternate method no.2, reference method	"	Stockpile		"

Add the following Section:

**SECTION 428 - - FLEXIBLE PAVEMENT RESTORATION**

**Description**

**428.01.** This work consists of the restoration of asphalt concrete pavement by removal of the existing pavement and patching.

**Material**

**428.02.** Conform to the following Sections and Subsections:

Excavation and Embankment	204
Aggregate Base	308
Asphalt Tack Coat	412
Minor Hot Asphalt Concrete	404
Underdrains, Sheet Drains, and Pavement Edge Drains	605
Bituminous Materials	702
Biaxial Geogrid	714.03(a)

**Construction Requirements**

**428.03. General.** Place asphalt concrete pavement in accordance with Section 404 and place granular backfill material in accordance with Section 301. Remove all material not suitable for use on the project and dispose of legally off Government property. Sawcut and remove existing asphalt concrete pavement according to Section 203 or by milling.

**428.04. Personnel.** Accomplish asphalt pavement restoration with personnel experienced in this type of work. The experience shall be relevant to anticipated conditions and special techniques required. Demonstrate to the satisfaction of the CO the techniques and equipment to be used and submit documentation of projects on which this type of work has been performed at the preconstruction conference.

**428.05. Equipment.** Use equipment and tools designed and built to perform the work and obtain approval from the CO for their use.

**428.06. Asphalt pavement full depth patch, Type 1 (FDP-1).** This work consists of repairing distressed areas of pavement by removing and replacing the pavement and the underlying material to a depth of 12 inches.

(a) Patch Areas. Extend the repair area one foot beyond the distressed area. If patch cuts are within 2 feet of the pavement edge, extend the patch limit to the pavement edge. Make the

minimum width dimension of the patch  $\frac{1}{2}$  of a travel lane (5 feet) and the minimum length dimension of the patch 3 feet.

(b) Pavement Removal. Make a neat sawcut completely through the pavement thickness, with one pass around the perimeter of the patch area to the limits shown on the plans or as designated by the CO. Make sawcuts a minimum depth of 4 inches, perpendicular to the roadway surface and at right angles to each other. Remove the pavement to expose subbase or subgrade. All existing pavement, aggregate base and sub grade material within the patch limits will be removed from the park at Contractor's expense. In lieu of this process, a milling machine may be used to remove the pavement material.

(c) Undercut. Remove a minimum of 6 inches of material.

(d) Patching. Place geogrid material at the locations and at the depths indicated in the plans before placing aggregate base. Overlap geogrid material a minimum of one foot. Use metal pins or hooks as necessary to retain the position of geogrid material. Tension the geogrid materials by hand during placement and take care to prevent damage during backfilling. Replace geogrid damaged during placement by the Contractor at the Contractor's expense.

(e) Place and compact aggregate base in 1 lift, 6 inches thick. Apply a tack coat to all asphalt concrete surfaces within the patch area in accordance with Section 412. Place and compact asphalt concrete pavement, in two lifts, so that the patched surface matches the same grade as the adjacent surface. Place a minimum asphalt concrete thickness of 6 inches in the patch.

### **Acceptance**

**428.07.** Construction of asphalt concrete pavement restoration will be evaluated under subsections 106.02 and 106.04.

Aggregate will be evaluated under Section 308.

Tack coat will be evaluated under Subsections 106.02 and 106.04.

Asphalt pavement joint sealing will be evaluated under Subsection 106.04.

Asphalt concrete will be evaluated under Section 404.

Geogrid will be evaluated under subsections 106.02 and 106.03.

### **Measurement**

**428.08.** Measure asphalt pavement full depth patch and asphalt pavement Type 1 patch, by the square yard of the surface area of the patch complete in place and accepted.

**Payment**

**428.09.** The accepted quantities will be paid at the contract price per unit of measurement for section 428 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Schedule. See Subsection 109.05.

**Section 623. – GENERAL LABOR**

Delete the text of this Section and substitute the following:

**Description**

**623.01** This work consists of furnishing workers and hand tools for construction work, survey crews, and/or furnishing qualified personnel to perform technical work ordered by the CO and not otherwise provided for under the contract.

**623.02 Workers and Equipment.** Furnish competent workers and appropriate hand tools for the work.

Obtain approval of the length of a workday and workweek before beginning the work. Keep daily records of the number of hours worked. Submit the records along with certified copies of the payroll.

**Measurement**

**623.06** Measure the Section 623 items listed in the bid schedule according to Subsection 109.02 and the following as applicable.

Round portions of an hour up to the nearest half hour. Measure time in excess of 40 hours per week at the same rate as the first 40 hours.

For surveying services, the minimum field survey crew is two persons. Measure surveying service by the crew hour. Do not measure time spent in making preparations, performing calculations, plotting cross-sections and other data, and processing computer data, and other efforts necessary to successfully accomplish the ordered survey services.

Do not measure time for worker's transportation time to and from the project site.

Measure office technical services by the hour as ordered by the CO for performing calculations, plotting cross-sections and other data, and processing computer data.

## Payment

**623.07** The accepted quantities will be paid at the contract price per unit of measurement for the Section 623 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05.

### Section 634. - PERMANENT PAVEMENT MARKINGS

#### Construction Requirements

**634.03 General.** Delete the last sentence of the first paragraph and substitute the following:

Place the centerline stripe along the existing striped centerline, as recorded under Subsection 152.03(n).

Add the following:

The Contractor may use, upon approval, permanent pavement marking materials and layouts meeting current state approved standards that are practiced in the region of the project in lieu of contract requirements, if the state standards meet the requirements of the MUTCD. The material substituted must be equivalent to that required in the specifications. Obtain the CO's approval before incorporating into the work. When requesting approval, furnish to the CO the applicable state standards (specifications and drawings), manufacturer's name and address, supplier's certification indicating material is produced to state approved specifications, pricing data showing cost difference for labor and materials, and any other available information describing application and performance. When directed, submit samples for approval at the Contractor's expense. Within 14 days, the CO will inform the Contractor as to the acceptance of the request. The unit price for the contract item(s) will be reduced to reflect any cost savings.

### Section 635. - TEMPORARY TRAFFIC CONTROL

**635.01** This work consists of minor traffic control to block staging and construction equipment parking areas and road closure barriers.

**635.07 Construction Signs.** Add the following to the end of the first paragraph:

Provide the same type of sheeting on all post-mounted construction signs that pertain to the project.

Add the following Subsection:

**635.09A Traffic control Supervisor.** Perform service described in Subsection 156.08. Furnish all vehicles and incidentals necessary to perform the work described in Subsection 156.08.

**635.13 Temporary Pavement Markings and Delineation.** Delete the text and substitute the following:

Before opening a pavement surface to traffic, remove all conflicting pavement markings by sandblasting or other methods that do not damage the surface or texture of the pavement. Make removal pattern uneven so it does not perpetuate the outline of the removed pavement markings. Lightly coat sandblasted or removal areas on asphalt surfaces with emulsified asphalt.

Provide pavement markings or delineation and signing according to Section 156, the MUTCD, and project plans. Install and maintain temporary pavement markings that are neat, crack free, true, straight, and unbroken.

For seasonal suspensions, apply permanent pavement marking pattern with temporary traffic paint.

Install permanent pavement markings within 14 days. If permanent pavement markings are not placed within 14 days, provide, at no cost to the contract, additional temporary delineation equivalent to the permanent pavement marking pattern required by the contract. Do not apply temporary traffic paint to the final surface.

For temporary pavement markings, use preformed retroreflective tape, traffic paint, or temporary raised pavement markers as follows:

**(a) Temporary Markings.** For temporary pavement markings, use preformed retroreflective tape, traffic paint, or temporary raised pavement markers as indicated in the plans and as follows:

**(1) Preformed retroreflective tape.** Apply according to the manufacturer's instructions. Remove all loose temporary preformed retroreflective tape before placing additional pavement layers.

**(2) Temporary traffic paint.** Apply temporary traffic paint at a 15-mil minimum wet film thickness (0.9 gallons per 100 square feet). Immediately apply type 1 glass beads on the paint at a minimum rate of 6 pounds per gallon of paint.

**(3) Raised pavement markers.** When chip seals, slurry seals, or tack coats are used after marker placement, protect the markers with an approved protective cover, which is removed after the asphalt material is sprayed.

Remove all temporary pavement markers before placing additional pavement layers. Remove all temporary pavement markings from the surface course before placing permanent pavement markings.

**(b) Delineation for Unmarked Pavements with Vehicle Positioning Guides.** For ADT's greater than 1000, vehicle positioning guides may be used in lieu of temporary markings for the delineation of unmarked pavements for a period of no longer than 3 days. For ADT's of 1000 or

less, vehicle positioning guides may be used in lieu of temporary markings for the delineation of unmarked pavements for the full 14 day temporary marking period.

For unmarked pavements, install signing and vehicle positioning guides as indicated on plan sheet 635-2. Use vehicle positioning guides that meet the requirements of Subsection 718.21(b), raised pavement markers.

Remove all vehicle positioning guides before placing additional pavement layers. Remove all vehicle positioning guides from the surface course before placing permanent pavement markings.

### Measurement

**635.26** Delete the tenth paragraph and substitute the following:

Measure vehicle positioning guides used at the option of the Contractor in lieu of temporary markings as equivalent temporary pavement markings. When vehicle positioning guides exceed the period of use stated in the plans, provide additional temporary or permanent pavement markings at no cost to the Government. Measure vehicle positioning guides by the each by the mile along the centerline of the roadway. Measure as a single measurement, inclusive of all markings, from end to end regardless of material type, gaps or number of lines. Measure only one application of vehicle positioning guides per lift.

### Section 702. - ASPHALT MATERIAL

**702.03 Emulsified Asphalt.** Add the following:

**702.03(d) Polymer modified emulsions.** Delete the title and text of this subsection and substitute the following:

**(d) Polymer modified emulsions.** Mill or blend the polymer material into the asphalt or emulsifier solution prior to or during the emulsification process. AASHTO T 59 will be followed for all test methods, except as noted.

For chip seal application use a polymer cationic rapid set emulsified asphalt conforming to Table 702-4.

**Table 702-4**  
**Chip Seal Emulsion Specification**

Emulsion Grade	CRS-2P <sup>(1)</sup>	
	Minimum	Maximum
Tests on emulsion:		
Viscosity, Saybolt Furol at 140°F, Sfs	100	400
Settlement, 5 days, %	---	5.0
Storage stability test, 24-hour, % <sup>(2)</sup>	---	1.0



(4) Free from organic matter and lumps or balls of clay

**(b) Subgrade or Base aggregate.**

**Table 703-2 Target Value Ranges for Subbase and Base Gradation.** Delete reference to the “436-74(6)” percent by mass passing the 4.75 millimeter sieve for grading E (base) and substitute “36-74 (6)”.

**(c) Surface Course Aggregate.** Delete the text including Table 703-3 and substitute the following:

Furnish hard, durable particles or fragments of crushed stone, crushed slag, or crushed gravel conforming to the following:

- |  |             |
|--|-------------|
| (1) Los Angeles abrasion, AASHTO T 96  | 50% max.    |
| (2) Fractured faces, one or more, ASTM D 5821                                | 50% min.    |
| (3) Free from organic matter and lumps or balls of clay                      |             |
| (4) Liquid Limit, AASHTO T 89  | 35 max.     |
| (5) Dust ratio: $\frac{\% \text{ passing } \#200}{\% \text{ passing } \#40}$ | 2/3 max.    |
| (6) Gradation and plasticity index, AASHTO T 90                              | Table 703-3 |

Do not use material that breaks up when alternately frozen and thawed or wetted and dried.

Obtain the aggregate gradation by crushing, screening, and blending processes as necessary. Fine aggregate, material passing the No. 4 sieve, will consist of natural or crushed sand and fine mineral particles.

Do not furnish material that contains asbestos fibers.



(f) Clay lumps and friable particles, AASHTO T 112 1.0% max.

(g) Adherent coating, ASTM D 5711 0.5% max.

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

**Table 703-7**  
**Target Value Ranges for**  
**Single and Multiple Course Surface Treatment Aggregate Gradation**

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T 27 & T 11)					
	Grading Designation					
	A	B	C	D	E	F
1½ inch	100 <sup>(1)</sup>					
1 inch	90 – 100 (3)	100 <sup>(1)</sup>				
¾ inch	0 – 35 (5)	90 – 100 (3)	100 <sup>(1)</sup>			
½ inch	0 – 8 (3)	0 – 35 (5)	90 – 100 (3)	100 <sup>(1)</sup>		
⅜ inch	---	0 – 12 (3)	0 – 35 (5)	70-90 (3)	100 <sup>(1)</sup>	100 <sup>(1)</sup>
No. 4	---		0 – 12 (3)	0-10 (5)	85 – 100 (3)	85 – 100 (1)
No. 8	---			0-5 (3)	0 – 23 (4)	---
No. 200	0 – ½ (½)	0 – ½ (½)	0 – ½ (½)	0 – ½ (½)	0 – ½ (½)	0 - 10 <sup>(1)</sup>

<sup>(1)</sup> Statistical procedures do not apply.

( ) The value in parentheses is the allowable deviation (±) from the target value.

### 703.11 Micro-Surfacing Aggregate.

**Table 703-8.** Delete Table 703-8 and substitute the following:

**Table 703-8  
Micro-Surfacing Aggregate  
Gradation and Tolerance**

SIEVE SIZE		TYPE II PERCENT PASSING	TYPE III PERCENT PASSING	STOCKPILE TOLERANCE
3/8	(9.5 mm)	100	100	
# 4	(4.75 mm)	90 - 100	70 - 90	± 5%
# 8	(2.36 mm)	65 - 90	45 - 70	± 5%
# 16	(1.18 mm)	45 - 70	28 - 50	± 5%
# 30	(600 um)	30 - 50	19 - 34	± 5%
# 50	(330 um)	18 - 30	12 - 25	± 4%
#100	(150 um)	10 - 21	7 - 18	± 3%
#200	(75 um)	5 - 15	5 - 15	± 2%

## 714 – GEOTEXTILE AND GEOCOMPOSITE DRAIN MATERIAL

Add the following Subsections:

### 714.03 Geogrids

**(a) Biaxial Geogrid** – Furnish a polymeric grid formed by a regular network of integrally connected tensile elements with apertures of sufficient size to allow interlocking with surrounding soil, rock, or earth to function primarily as reinforcement. The biaxial geogrid should meet the requirements of Table 5.8.6.1.2A of the AASHTO Standard Specifications for Highway Bridges” (current edition and interims) and the following:

<i>Property</i>	<i>Test Method</i>	<i>Units</i>	<i>Biaxial Geogrid</i>	
			<i>MD</i>	<i>XD</i>
Rib Shape	Observation	N/A	Rectangular or Square	
Rib Thickness	Callipered	inch	.045	
Aperture Size	I.D. Callipered	inch	1.0	1.3
Junction Efficiency	GRI-GG2	%	93	

Flexural Rigidity	ASTM D1388	mg-cm	750,000	
Ultraviolet Stability	ASTM 4355	hrs.	70% at 500 hrs	
Initial Modulus	ASTM D6637	lb/ft	27,240	44,500
Tensile Strength @ 2%	ASTM D6637	lb/ft	410	590
Tensile Strength @ 5%	ASTM D6637	lb/ft	810	1340
ALL VALUES ARE MINIMUM AVERAGE ROLL VALUES UNLESS A RANGE OR CHARACTERISTIC IS INDICATED				

**Note: Tensar BX1200 is a product that meets this specification.**

Submit the following for geogrid evaluation and approval:

1. Product sample approximately 1-foot by 1 foot or larger.
2. Product data sheet and certification from the Manufacturer that the geogrid product supplied meets the requirements of this Section.
3. Manufacturer's installation instructions and general recommendations.

Geogrid materials not meeting the requirements of this Section may be considered by submitting the following additional information.

1. Full-scale laboratory and in-ground testing of pavement structures reinforced with the specific geogrid that quantifies TBR of the geogrid to the pavement structure. The TBR must meet or exceed that of the design geogrid.
2. Submit a list of 5 comparable projects that are similar in terms of size and application, are located in the United States, and where the results of using the specific geogrid material can be verified after a minimum of 1 year of service life.

## Section 718. - TRAFFIC SIGNING AND MARKING MATERIAL

### 718.14 Waterborne Traffic Paint.

**(g) Daylight reflectance.** (Without glass beads) Delete the text and substitute the following:

- |                         |  |
|-------------------------|--|
| (1) White, ASTM E 1347  | 84% relative to magnesium oxide standard |
| (2) Yellow, ASTM E 1347 | 55% relative to magnesium oxide standard |