

INVITATION FOR BID

SOLICITATION NUMBER: 6982AF23B000018
SOLICITATION TYPE: HUBZONE SET-ASIDE
PROJECT NUMBER: WY FLAP CR CN10-277(1)
PROJECT NAME: WIGGINS CREEK BRIDGE

BID OPENING DATE:

See Page A-1, Item 13A

**This solicitation cites Standard Specifications for
Construction of Roads and Bridges on
Federal Highway Projects, FP-14 US Customary Units**

ISSUING OFFICE:



**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION
12300 W. DAKOTA AVENUE, SUITE 360
LAKEWOOD, CO 80228**

Web site: <https://highways.dot.gov/federal-lands>

E-mail: CFLContracts@dot.gov

PROJECT

WY FLAP CR CN10-277(1)

LOCATION

SHOSHONE NATIONAL FOREST

COUNTY

FREMONT

STATE

WYOMING

LENGTH

SCHEDULE A: 0.10 MILES

TYPE OF IMPROVEMENT

BRIDGE REPLACEMENT, GABION WALL,
GRADING, AND AGGREGATE SURFACE
COURSE.

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SPECIAL CONTRACT REQUIREMENTS (SCRs)

The following Special Contract Requirements amend and supplement the Standard Specification for Construction of Roads and Bridges on Federal Highway Projects

Division 100.....	E-1
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PROJECT OVERVIEW

The project is in Fremont County, Wyoming along the East Fork Road, approximately 6 miles north of the intersection with U.S Highway 26. The nearest town is Dubois Wyoming located approximately 15 miles west of the project location. The project includes removal of a one-lane bridge. A one lane diversion will be required before the removal of the existing bridge can begin as the roadway must remain open throughout the project. The creek is a sensitive resource area for the Yellowstone cutthroat trout and Brown trout. The construction season that is currently anticipated is that most work will be performed in late summer and through the winter to minimize the impact to the fisheries. There will be some level of public scrutiny as there are three private properties that are adjacent to the bridge.

NOTICE TO BIDDERS

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I. PRE-BID INFORMATION

ELECTRONIC BIDS WILL NOT BE ACCEPTED. Submit a printed copy of your bid to the address listed on the SF-1442 (Page A-1, Item 8). Submit the following documents with your Bid Package–

- SF-1442, Solicitation, Offer & Award, Pages A-1 and A-2
- Indication of interest in formal Partnering, Page A-5
- Bid Schedule Pages A-6 through A-11
- Completed an applicable Authority to Bind certificate, pages A-12 through A-16
- Buy American Act & Hazardous Materials, Pages A-17 through A-18
- Bid Guarantee (see FAR Clause 52.228-1), Pages B-1 and B-2. Bid bonds must be originals with original signatures and corporate seals. Photocopies and Faxed copies are NOT acceptable and will make your bid non-responsive.
 - Digital copies may be downloaded at <https://www.gsa.gov/forms-library/bid-bond>
- Completed the VETS-4212 declaration, Page A-ii; Bidders' Information, Pages B-3 through B-6.

Bidders should retain all other pages for their information. Bids should be submitted in a sealed envelope and include the Contractor's Name, Solicitation Number and the Project Number/Name.

It is the responsibility of the bidder to verify that this solicitation document, including the plans, are complete as listed in the table of contents and the index to sheets. Plan sheets can be found at <https://sam.gov> and viewed by individual sections, downloaded by individual sections, or the entire plan set downloaded in a zip file. Physical data relevant to this solicitation may also be viewed or downloaded at the above site.

This solicitation and subsequent contract are governed by the Federal Acquisition Regulations (FAR), agency supplemental regulations, and the Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-14.

The FP-14 was utilized for the design of this project. Paper copies of the FP-14 will not be provided to bidders or the awarded Prime Contractor. The FP-14 is available electronically at <https://flh.fhwa.dot.gov/resources/specs/> and a copy is uploaded with this solicitation. A single paper copy can be obtained from the Research & Technology Distribution Center (RTPDC) by email report.center@dot.gov.

Applicable FAR/TAR 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 <https://www.acquisition.gov/content/regulations>.

NOTICE TO BIDDERS

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Notice of SAM Registration – you must be registered in the System for Award Management (SAM) prior to submission of a bid in response to this solicitation. Failure to register prior to submission of a bid may require award to the next successful registered offeror. See FAR Subpart 4.1102. Register online at www.sam.gov.

Representations and Certifications – This solicitation is issued under **NAICS 237310** – Highway, Street & Bridge Construction with a small business size standard of \$45 million. If your average annual gross receipts for the past 5 years are above \$45 million, you are a large business for this solicitation. If they are below \$45 million you are a small business. Before submitting bids, you must ensure you have completed your annual representations and certifications electronically at the SAM website at www.sam.gov. Include NAICS 237310 in your SAM profile.

Vets-4212 Reporting: - The Contractor must complete the report if required. See reporting requirements at: <https://www.dol.gov/agencies/vets/contractor/instructions-for-electronic-submission-vets-4212-reports>.

- My firm had a qualifying Federal Contract in 2022 and has complied with the reporting requirements.
- My firm did not have a qualifying Federal Contract in 2022 and is therefore exempt from the reporting requirements

Bid Guarantee – Follow the requirements of FAR Clause *52.228-1 Bid Guarantee* and Subpart 102.03 of the FP-14. Bid bonds must be originals and have original signatures and corporate seals. Photocopied and faxed copies of bonds will be rejected and cause your bid to be non-responsive.

Accuracy and Completeness of Bid- The Contractor is fully responsible to verify that all data is correct when an offer is submitted. Failure to properly update your data may cause the offer to be rejected.

Request for Technical Information – Questions relative to the plans and SCRs for this solicitation will only be accepted in writing (see Item 9 on Page A-3).

**TECHNICAL QUESTIONS REGARDING THIS SOLICITATION WILL NOT BE
ACCEPTED AFTER 4 P.M. ON MAY 8, 2023**

Questions can be submitted to CFLContracts@dot.gov. Questions and answers will be posted at <https://sam.gov>

Modifications to Bids - Bids may be modified or withdrawn by regular mail, electronic commerce (email) or facsimile, if such notice is received **prior to the time specified for receipt of bids**. The Government will not be responsible for ANY failure attributable to the transmission or receipt of electronic commerce (email) or facsimile data.

For all modifications, we **STRONGLY ENCOURAGE** you to resubmit the entire bid schedule

NOTICE TO BIDDERS

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with a unit price and amount for every bid item, and a Schedule Total. See FAR Provision 52.214-5, Submission of Bids. Modifications which make the bid ambiguous, indefinite, or uncertain as to any essential requirement of the contract will cause the bid to be rejected as nonresponsive.

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

Email Address to submit modifications to bids for this project is cflcontracts@dot.gov

FAR 36.211 requires a description of the Federal Highway Administration's (FHWA) procedures that apply to definitization of equitable adjustments for change orders under construction contracts. It also requires that FHWA furnish data on the agency's past performance, for the prior 3 fiscal years, regarding the time required to definitize equitable adjustments for change orders under construction contracts.

Change orders as defined in FAR 2.101 are changes to the contract work pursuant to [FAR 52.243-4, Changes](#).

There are no agency-specific additional policies and procedures that exist at this time.

The table below contains data regarding the definitization of equitable adjustments for change orders under construction contracts by fiscal year (FY).

Time to definitize after receipt of an adequate change order definitization proposal under construction contracts	Number of change order proposals definitized under construction contracts		
	FY 2020	FY 2021	FY 2022
0 to 30 days	0	0	0
31 to 60 days	0	0	1
61 to 90 days	0	1	0
91 to 180 days	0	2	2
181 to 365 days	1	1	0
366 or more days	1	4	2
After completion of contract performance via a contract modification addressing all undefinitized equitable adjustments received during contract performance	0	0	0

NOTICE TO BIDDERS

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II. POST AWARD INFORMATION

CFLHD will no longer be providing paper copies of the conformed contract to the Awarded Prime Contractor.

Subcontracting - 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.

Insurance requirements - See Subsection 107.05 of the FP-14.

EEBACS - Contractors shall use the Government's web-based system, *Engineer's Estimating, Bidding, Award, and Construction System (EEBACS)*, to prepare all "*Inspector's Daily Record of Construction Operations*" (*Contractors Daily Reports*) and measurement notes (pay notes).

The Contractor shall be required to attend a training session on the use of EEBACS. The training session will require up to 4 hours. No more than 3 Contractor staff may attend the training unless approved by the CO. The Contractor shall be responsible for training additional staff.

The Contractor shall be required to submit a user account form to gain access to the EEBACS system. See Subsection 108.01.

A user guide, "*EEBACS for Construction Contractors*", is available. An electronic version can be found at <https://highways.dot.gov/federal-lands/estimates/eebacs-guide>

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NUMBER	2. TYPE OF SOLICITATION	3. DATE ISSUED	PAGE OF PAGES
	6982AF23B000018	<input checked="" type="checkbox"/> SEALED BID (IFB) INVITATION FOR BID <input type="checkbox"/> NEGOTIATED (RFP) REQUEST FOR PROPOSAL	04/14/2023	1 of 2

IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.

4. CONTRACT NUMBER	5. REQUISITION/PURCHASE REQUEST NUMBER	6. PROJECT NUMBER
	HFLCEO230226PR	WY FLAP CR CN10-277(1)
7. ISSUED BY Federal Highway Administration Central Federal Lands Highway Division 12300 W. Dakota Ave, Suite 167 Lakewood, CO 80228	CODE 6905001	8. ADDRESS OFFER TO Leslie Karsten, Contract Specialist Federal Highway Administration Central Federal Lands Highway Division 12300 W. Dakota Ave Lakewood, CO 80228

9. FOR INFORMATION CALL: ▶	a. NAME See Page A-3	b. TELEPHONE NUMBER (Include area code) (NO COLLECT CALLS) See Page A-3
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SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying number, date)

Roadway Construction project in strict accordance with:

1. Federal Acquisition and Transportation Acquisition Regulations (FAR & TAR)
2. Department of Labor, Construction Wage Rate Requirements
3. Special Contract Requirements
4. Plans
5. Bid Schedule
6. Standard Specifications for construction of roads and bridges on Federal Highway Projects, FP-14, U.S. Customary Units

See Subsection 104.04 of the FP-14 for governing order of precedence.

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. This performance period is <input checked="" type="checkbox"/> mandatory <input type="checkbox"/> negotiable. (See Subsection 108.1 in SCR's <u> </u>).	12b. CALENDAR DAYS 10
12a. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? (If "YES", indicate within how many calendar days after award in Item 12b.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

13. ADDITIONAL SOLICITATION REQUIREMENTS:

- a. Sealed offers in original and 0 copies to perform the work required are due at the place specified in Item 8 by 1:00 pm (hour) local time 5/16/2023 (date). 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 is, 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 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)	15. TELEPHONE NUMBER (Include area code)
	16. REMITTANCE ADDRESS (Include only if different than Item 14.)
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 within _____ 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

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 NUMBER									
DATE									

20a. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)	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
24. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified) ITEM	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO THE UNITED STATES CODE AT <input type="checkbox"/> 10 U.S.C. 3204(a) () <input type="checkbox"/> 41 U.S.C. 3304(a) ()
26. ADMINISTERED BY	27. PAYMENT WILL BE MADE BY

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) 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 (Contractor is not required to sign this document.) 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 (Type or print)	31a. NAME OF CONTRACTING OFFICER (Type or print)
30b. SIGNATURE	31b. UNITED STATES OF AMERICA
30c. DATE	BY
	31c. DATE

- Item 8:** **LOCATION OF PUBLIC BID OPENING:** Offers must be received by designated date and time as stated in Item 13A.
- Item 9:** **FOR GENERAL INFORMATION:** E-mail us at CFLContracts@dot.gov.
- FOR TECHNICAL INFORMATION (plans and specifications):** Questions must be submitted in writing by e-mail at CFLContracts@dot.gov .
- Item 11:** **COMPLETION DATE:** Work shall be completed on or before the date specified in *Subsection 108.01 of the SCRs*.
- Item 12A:** **PERFORMANCE AND PAYMENT BONDS:** See FAR *Clause 52.228-15 Performance and Payment Bonds-Construction* (Clauses begin on Page C-1) and Subsection 102.06 of the FP-14.
- Item 13B:** **BID BOND AMOUNT:** See FAR Provision *52.228-1 Bid Guarantee* (Provisions begin on Page B-1) and *Subsection 102.03 Bid Guarantee* of the FP-14. All bid guarantees must have original signatures with original corporate seals.
- Item 19:** **ACKNOWLEDGMENT OF AMENDMENTS: FAILURE TO ACKNOWLEDGE AMENDMENTS, IN ITEM 19 OF THE SF-1442, BY THE DESIGNATED DATE AND HOUR SPECIFIED IN THE SOLICITATION MAY RESULT IN REJECTION OF YOUR BID.** If amendments are issued, they will be posted to <https://sam.gov>.
- Item 24:** **SUBMITTING INVOICES:** See *Subsection 109.08 Progress Payments* of the FP-14.

ESTIMATED

PRICE: The price range of the project work is between \$2,000,000 and \$5,000,000.

Bid Schedule Instructions

BIDDERS, PLEASE NOTE: This Bid Proposal is comprised of one schedule. Before preparing the bid, carefully read the Solicitation Provisions and the following:

- Insert a numeric unit bid price for each pay item for which a quantity appears in the bid schedule. Unit bid prices should be quoted no more precisely than the nearest cent (2 decimal places). Unit bid prices quoted more precisely will be rounded up to the nearest cent by the Government
- Multiply the unit price by the quantity for each pay item and show the amount bid. When the words “Lump Sum” appear as a unit bid price, insert an amount for each lump sum pay item.
- Total all amounts bid for each pay item and show the Construction Cost Total on the space provided on the last page of each schedule or option.
- Also show the Construction Cost Total for each schedule/option as well as the combined Total of each Schedule and the Option in the spaces provided on the Bid Summary page.

NOTE: If the amount bid for a pay item is inconsistent with the product of the unit price provided by the bidder and the quantity provided by the Government, the unit price will govern and the Government will determine a corrected amount bid for the pay item by multiplying the unit price by the quantity.

Basis for Award

To be eligible for award of contract, the offeror shall submit prices for each item necessary to complete all contract work in Schedule ..

Accordingly, award of contract, if made, will be made to the lowest responsive, responsible bidder, if funds are available.

Partnering

A Partnership recognizes the Government and the Contractor are both responsible and can affect the successful completion of this project. Partnering is a vehicle to ensure the partnership has structure and quality. It recognizes the strengths of each party and uses those strengths to identify and achieve shared goals. One of the primary objectives of Partnering is to facilitate the resolution of disputes in a timely, professional, and non-adversarial manner with the outcome focused on achieving those shared goals.

CFLHD supports the concepts and tenets of Partnering and as such is encouraging the Contractors and it's subcontractors to establish a Partnering relationship on this project.

A formal Partnering meeting can help facilitate this relationship by helping do document the parties' common purpose and goals, and ensuring alignment. The goals are mutually agreed upon and address effective and efficient performance within the scope of the contract.

Participation in a formal Partnering meeting is voluntary. Costs of implementing and maintaining the partnership would be agreed to by both parties as described in *Subsection 103.05 Partnering* of the FP-14. Costs of partnering would be in addition to the contract award amount.

Please indicate your desire to participate in a formal partnering meeting on this project.

We would like to participate in a formal partnering meeting.

We do not want to participate in a formal partnering meeting.

Bidder/Offeror please note: Before preparing the bid, carefully read the Solicitation Provisions. Insert a unit bid price, in figures, for each pay item for which a quantity appears in the bid schedule. Multiply the unit price by the quantity for each pay item and show the amount bid. Should any mathematical check made by the Government show a mistake in the amount bid, the corrected unit price extension shall govern. When the word "LPSM" (Lump Sum) appears as a unit bid price, insert an amount for each lump sum pay item. When a sum based on a fixed rate appears for any pay item in the amount bid column, include the Government inserted amount bid for the item in the total bid amount. Total all of the amounts bid for each pay item and show the total bid amount.

Bid Schedule

Project No: WY FLAP CR CN10-277(1)

Project Name: Wiggins Creek Bridge

Contract Quantity Pay Items

- 20801-0000 STRUCTURE EXCAVATION
- 20803-0000 STRUCTURAL BACKFILL
- 55201-0200 STRUCTURAL CONCRETE, CLASS A (AE)
- 55401-1000 REINFORCING STEEL
- 55401-2000 REINFORCING STEEL, EPOXY COATED
- 55601-0900 BRIDGE RAILING, STEEL (WYDOT TL-3)
- 61707-0000 STRUCTURE TRANSITION RAILING

Item No.	Pay Item No.	Description	Quantity	Unit	Unit Price	Amount
A0020	15101-0000	MOBILIZATION	ALL	LPSM	\$ __ LPSM __	\$ _____
A0040	15214-1000	SURVEY AND STAKING, BRIDGE	ALL	LPSM	\$ __ LPSM __	\$ _____
A0060	15225-0000	SLOPE, REFERENCE, AND CLEARING AND GRUBBING CONTROL	0.099	MILE	\$ _____	\$ _____
A0080	15236-2000	SURVEY CONTROL, GRADE FINISHING	0.198	MILE	\$ _____	\$ _____
A0100	15301-0000	CONTRACTOR QUALITY CONTROL	ALL	LPSM	\$ __ LPSM __	\$ _____
A0120	15401-0000	CONTRACTOR TESTING	ALL	LPSM	\$ __ LPSM __	\$ _____
A0140	15501-0000	CONSTRUCTION SCHEDULE	ALL	LPSM	\$ __ LPSM __	\$ _____
A0160	15701-0000	SOIL EROSION CONTROL	ALL	LPSM	\$ __ LPSM __	\$ _____
A0180	15720-0000	STORM WATER POLLUTION PREVENTION PLAN	ALL	LPSM	\$ __ LPSM __	\$ _____
A0200	15802-0000	WATERING FOR DUST CONTROL	ALL	LPSM	\$ __ LPSM __	\$ _____
A0220	20101-0000	CLEARING AND GRUBBING	0.693	ACRE	\$ _____	\$ _____

Bid Schedule

Schedule:A

Schedule Type:Base

Project No:WY FLAP CR CN10-277(1)

Project Name:Wiggins Creek Bridge

A0240	20302-0700	REMOVAL OF FENCE	610	LNFT	\$ _____	\$ _____
A0260	20303-1600	REMOVAL OF PAVEMENT, ASPHALT	665	SQYD	\$ _____	\$ _____
A0280	20304-2000	REMOVAL OF BRIDGE	ALL	LPSM	\$ __LPSM__	\$ _____
A0300	20420-0000	EMBANKMENT CONSTRUCTION	710	CUYD	\$ _____	\$ _____
A0320	20801-0000	STRUCTURE EXCAVATION	260	CUYD	\$ _____	\$ _____
A0340	20803-0000	STRUCTURAL BACKFILL	63	CUYD	\$ _____	\$ _____
A0360	20815-0000	COFFERDAMS	ALL	LPSM	\$ __LPSM__	\$ _____
A0380	25101-2400	PLACED RIPRAP, METHOD B, CLASS 4	164	CUYD	\$ _____	\$ _____
A0400	25301-2000	GABIONS, POLYVINYL CHLORIDE COATED	420	SQFT	\$ _____	\$ _____
A0420	25701-0100	CONTRACTOR FURNISHED GABION WALL DESIGN	ALL	LPSM	\$ __LPSM__	\$ _____
A0440	30202-2000	ROADWAY AGGREGATE, METHOD 2	640	TON	\$ _____	\$ _____
A0460	55201-0200	STRUCTURAL CONCRETE, CLASS A (AE)	149	CUYD	\$ _____	\$ _____
A0480	55401-1000	REINFORCING STEEL	21,700	LB	\$ _____	\$ _____
A0500	55401-2000	REINFORCING STEEL, EPOXY COATED	13,000	LB	\$ _____	\$ _____

Bid Schedule

Schedule:A

Schedule Type:Base

Project No:WY FLAP CR CN10-277(1)

Project Name:Wiggins Creek Bridge

A0520	55504-0000	PRE-FABRICATED STEEL BRIDGE (100'x29'-4" MODULAR STEEL VEHICULAR BRIDGE)	ALL	LPSM	\$ __LPSM__	\$ _____
A0540	55601-0900	BRIDGE RAILING, STEEL (WYDOT TL-3)	282	LNFT	\$ _____	\$ _____
A0560	56501-0300	DRILLED SHAFT, 30-INCH DIAMETER	240	LNFT	\$ _____	\$ _____
A0580	61701-4550	GUARDRAIL SYSTEM MGS, TYPE 2, CLASS A WOOD POSTS	75	LNFT	\$ _____	\$ _____
A0600	61702-1500	TERMINAL SECTION, TYPE MGS TANGENT	4	EACH	\$ _____	\$ _____
A0620	61707-0000	STRUCTURE TRANSITION RAILING	100	LNFT	\$ _____	\$ _____
A0640	61901-0000	FENCE (BUCK AND POLE)	220	LNFT	\$ _____	\$ _____
A0660	61901-0800	FENCE, BARBED WIRE, 3 STRAND	390	LNFT	\$ _____	\$ _____
A0680	62201-0200	DUMP TRUCK, 8 CUBIC YARD MINIMUM CAPACITY	10	HOUR	\$ _____	\$ _____
A0700	62201-0950	WHEEL LOADER, 3 CUBIC YARD MINIMUM RATED CAPACITY	10	HOUR	\$ _____	\$ _____
A0720	62201-2850	MOTOR GRADER, 12 FOOT MINIMUM BLADE	10	HOUR	\$ _____	\$ _____
A0740	62301-0000	GENERAL LABOR	40	HOUR	\$ _____	\$ _____
A0760	62302-1000	SPECIAL LABOR, HIRED TECHNICAL SERVICES	10	HOUR	\$ _____	\$ _____

Bid Schedule

Schedule:A

Schedule Type:Base

Project No:WY FLAP CR CN10-277(1)

Project Name:Wiggins Creek Bridge

A0780	62302-1100	SPECIAL LABOR, HIRED SURVEY SERVICES	10	HOUR	\$ _____	\$ _____
A0800	62405-0300	PLACING CONSERVED TOPSOIL, 4-INCH DEPTH	1,150	SQYD	\$ _____	\$ _____
A0820	62511-2000	SEEDING, HYDRAULIC METHOD	1,300	SQYD	\$ _____	\$ _____
A0840	62516-2000	MULCHING, HYDRAULIC METHOD	1,300	SQYD	\$ _____	\$ _____
A0860	62901-1000	ROLLED EROSION CONTROL PRODUCT, TYPE 3.B	2,000	SQYD	\$ _____	\$ _____
A0880	63308-3000	OBJECT MARKER, TYPE 3	4	EACH	\$ _____	\$ _____
A0900	63501-2000	TEMPORARY TRAFFIC CONTROL, TRAFFIC SIGNAL SYSTEM	ALL	LPSM	\$ __LPSM__	\$ _____
A0920	63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3	2	EACH	\$ _____	\$ _____
A0940	63502-1300	TEMPORARY TRAFFIC CONTROL, DRUM	25	EACH	\$ _____	\$ _____
A0960	63502-1600	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE B	4	EACH	\$ _____	\$ _____
A0980	63502-3900	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	16	EACH	\$ _____	\$ _____
A1000	63503-0400	TEMPORARY TRAFFIC CONTROL, CONCRETE BARRIER	860	LNFT	\$ _____	\$ _____
A1020	63503-1000	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE	670	LNFT	\$ _____	\$ _____
A1040	65001-1000	CONSTRUCT AND MAINTAIN DIVERSION	ALL	LPSM	\$ __LPSM__	\$ _____

Bid Schedule

Schedule:A

Schedule Type:Base

Project No:WY FLAP CR CN10-277(1)

Project Name:Wiggins Creek Bridge

Submitted by: _____

Schedule Total: _____

Bid Schedule

Schedule:A

Schedule Type:Base

Project No:WY FLAP CR CN10-277(1)

Project Name:Wiggins Creek Bridge

INSTRUCTIONS: When the offeror/principal is a corporation, include this certification with your offer/bid.

Corporate Certificate

I, _____ (name), certify that I am the

_____ (title), of the corporation named as the
Offeror/Principal herein;

that _____ (name), who signed this
offer and/or bid bond on behalf of _____ (company name) is

_____ (title) of this corporation;

that the offer was duly signed for and on behalf of said corporation by authority and scope of
its governing body, and within the scope of its corporate powers.

_____ (signature)

Affix Corporate Seal

_____ (title)

INSTRUCTIONS: When the offeror/principal is a limited liability corporation, include this certification with your offer/bid.

Limited Liability Certificate

I, _____(name), certify that I am the
_____(title), of the limited liability company

named as the Offeror/Principal herein;

that _____(name), who signed this
offer and/or bid bond on behalf of _____(company name) is
_____(title) of this company;

that the offer was duly signed for and on behalf of said company by authority and scope of its
governing body, and within the scope of its powers.

_____(signature)
_____(title)

Affix Company Seal
(as applicable)

INSTRUCTIONS: When the offeror/principal is a partnership, include this certification with your offer/bid.

Authority to Bind Partnership

This certifies that the names and signatures of all partners are listed below, and that the person signing the proposal has the authority to actually bind the partnership pursuant to its partnership agreement. Each of the partners individually has full authority to enter into and execute contractual instruments on behalf of said partnership, except as follows:

(State "None" or describe limitations, if any)

This authority shall remain in full force and effect until such time as the revocation of authority by any cause whatsoever has been furnished in writing to and acknowledge by the Contracting Officer.

(Include names and signatures of all partners)

<hr/>	<hr/>

INSTRUCTIONS: When the offeror/principal is a joint venture, include this certification with your offer/bid.

Authority to Bind Joint Venture

This certifies that the person signing the proposal has the authority to actually bind the joint venture pursuant to its joint venture agreement, and that each of the named persons listed below individually has full authority to enter into and execute contractual instruments on behalf of said joint venture, except as follows:

(State "None" or describe limitations, if any)

This authority shall remain in full force and effect until such time as the revocation of authority by any cause whatsoever has been furnished in writing to and acknowledge by the Contracting Officer.

(Include names and signatures of all applicable individuals)

<hr/>	<hr/>

INSTRUCTIONS: When the offeror/principal is a sole proprietorship, include this certification with your offer/bid.

Sole Proprietorship Requirement

An Offeror/Principal that is a sole proprietorship must submit an offer/bid and a bond signed by the sole proprietor, or by one duly authorized to sign for the sole proprietor. If the signature is by someone other than the sole proprietor, a copy of the power of attorney authorizing the individual to sign must be provided with the offer/bid.

BUY AMERICAN ACT- CONSTRUCTION MATERIALS

It is understood and agreed that the materials and components listed in Subparts 25.1 and 25.2 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

Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, as amended (42 U.S.C. 6901 et seq.), requires Federal, State, and local procuring agencies using appropriated Federal funds to purchase items composed of the highest percentage of recovered materials practical. Use of recovered materials is strongly encouraged on Federal Lands Highway Projects. Highway construction items covered by the Environmental Protection Agency's *Comprehensive Guidelines for Procurement of Products Containing Recovered Materials* include fly ash, ground granulated blast furnace slag, traffic barricades, traffic cones, hydraulic mulch and compost for mulch.

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.

BID BOND <i>(See instructions on reverse)</i>	DATE BOND EXECUTED <i>(Must not be later than bid opening date)</i>	OMB Control Number: 9000-0045 Expiration Date: 8/31/2025
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Paperwork Reduction Act Statement - This information collection meets the requirements of 44 USC § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 9000-0045. We estimate that it will take 1 hour to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate, including suggestions for reducing this burden, or any other aspects of this collection of information to: General Services Administration, Regulatory Secretariat Division (M1V1CB), 1800 F Street, NW, Washington, DC 20405.

PRINCIPAL <i>(Legal name and business address)</i>	TYPE OF ORGANIZATION <i>("X" one)</i> <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> CORPORATION <input type="checkbox"/> OTHER <i>(Specify)</i>
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 NUMBER
	MILLION(S)	THOUSAND(S)	HUNDRED(S)	CENTS		
20	3	000	000	00	FOR <i>(Construction, Supplies or Services)</i>	6982AF23B000018 Construction

OBLIGATION:

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.

CONDITIONS:

The Principal has submitted the bid identified above.

THEREFORE:

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 the time for acceptance of the bid that the Principal may grant to the Government. Notice to the surety(ies) of extension(s) is 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.

WITNESS:

The Principal and Surety(ies) executed this bid bond and affixed their seals on the above date.

PRINCIPAL			
SIGNATURE(S)	1. _____ <small>(Seal)</small>	2. _____ <small>(Seal)</small>	3. _____ <small>(Seal)</small>
NAME(S) & TITLE(S) <i>(Typed)</i>	1. _____	2. _____	3. _____

INDIVIDUAL SURETY(IES)		
SIGNATURE(S)	1. _____ <small>(Seal)</small>	2. _____ <small>(Seal)</small>
NAME(S) <i>(Typed)</i>	1. _____	2. _____

CORPORATE SURETY(IES)			
SURETY A	NAME & ADDRESS		STATE OF INCORPORATION
	SIGNATURE(S)	1. _____	2. _____
	NAME(S) & TITLE(S) <i>(Typed)</i>	1. _____	2. _____

SURETY B	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.		
SURETY C	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.		
SURETY D	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.		
SURETY E	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.		
SURETY F	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.		
SURETY G	NAME & ADDRESS		STATE OF INCORPORATION	LIABILITY LIMIT (\$)	Corporate Seal
	SIGNATURE(S)	1.	2.		
	NAME(S) & TITLE(S) <i>(Typed)</i>	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 _____ 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 limitations listed therein. The value put into the LIABILITY LIMIT block is the penal sum (i.e., the face value) of the bond, unless a co-surety arrangement is proposed.

 (b) When multiple corporate sureties are 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 identifier corresponding to each of the sureties. Moreover, when co-surety arrangements exist, the parties may allocate their respective limitations of liability under the bond, provided that the sum total of their liability equals 100% of the bond penal sum.

 (c) When 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 capability.
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 HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

BIDDER'S INFORMATION

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			Unique Entity ID (See FAR Provision 52.204-6) *	
_____			_____	
Street			Employer ID Number (EIN)*	
_____			_____	
City	State	Zip Code		
* Necessary for Government reporting purposes only.				

County				

Telephone Number (Include Area Code)				

Fax Number (Include Area Code)			E-mail address	
_____			_____	

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.

9. a. List up to 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, Email 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

Solicitation Provisions

52.203-11 Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. (SEP 2007)

52.203-18 Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements-Representation. (JAN 2017)

52.204-7 System for Award Management. (OCT 2018)

52.204-8 Annual Representations and Certifications. (MAR 2023)

52.204-16 Commercial and Government Entity Code Reporting (AUG 2020)

52.204-17 Ownership or Control of Offeror (AUG 2020)

52.204-20 Predecessor or Offeror (AUG 2020)

52.204-22 Alternative Line Item Proposal (JAN 2017)

52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (NOV 2021)

52.204-26 Covered Telecommunications Equipment or Services-Representation. (OCT 2020)

52.209-5 Certification Regarding Responsibility Matters. (AUG 2020)

52.209-7 Information Regarding Responsibility Matters (OCT 2018)

52.209-11 Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law (FEB 2016)

52.209-13 Violation of Arms Control Treaties or Agreements – Certification (NOV 2021)

52.214-3 Amendments to Invitations for Bids. (DEC 2016)

52.214-4 False Statements in Bids. (APR 1984)

52.214-5 Submission of Bids. (DEC 2016)

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)

52.214-31 Facsimile Bids (DEC 1989)

52.214-34 Submission of Offers in the English Language. (APR 1991)

52.214-35 Submission of Offers in U.S. Currency. (APR 1991)

52.215-5 Facsimile Proposals. (OCT 1997)

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)

52.222-5 Construction Wage Rate Requirements Secondary Site of the Work. (MAY 2014)

52.222-23 Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity for Construction. (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
7.5% - Fremont County, WY	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 office.

(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 is Fremont County, WY.

(End of provision)

52.222-38 Compliance with Veterans' Employment Reporting Requirements. (FEB 2016)

52.223-22 Public Disclosure of Greenhouse Gas Emissions and Reduction Goals—Representation (DEC 2016)

52.225-10 Notice of Buy American Requirement—Construction Materials (MAY 2014)

52.225-20 Prohibition on Conducting Restricted Business Operations in Sudan--Certification. (AUG 2009)

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 **twenty (20%) percent** of the bid price or **\$3,000,000.00**, 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.

52.233-2 Service of Protest. (SEP 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:

***Mr. Joseph Wilson
Contracting Officer
Federal Highway Administration
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)

52.236-27 Site Visit (Construction). (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract

awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) Site visits may be arranged during normal duty hours by contacting: No organized site visit will be held.

(End of provision)

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/these address(es): <http://www.acquisition.gov/far>

(End of provision)

52.252-3 Alterations in Solicitation. (APR 1984)

Portions of this solicitation are altered as follows: **NONE**

(End of provision)

1252.239–92 Information and Communication Technology Accessibility Notice (NOV 2022)

Contract Clauses

52.202-1 Definitions. (JUN 2020)

52.203-3 Gratuities. (APR 1984)

52.203-5 Covenant Against Contingent Fees. (MAY 2014)

52.203-6, Restrictions on Subcontractor Sales to the Government (JUN 2020)

52.203-7 Anti-Kickback Procedures. (JUN 2020)

52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity. (MAY 2014)

52.203-10 Price or Fee Adjustment for Illegal or Improper Activity. (MAY 2014)

52.203-12 Limitation on Payments to Influence Certain Federal Transactions. (JUN 2020)

52.203-13 Contractor Code of Business Ethics and Conduct (NOV 2021)

52.203-14 Display of Hotline Poster(s) (NOV 2021)

(a) *Definition.*

United States, as used in this clause, means the 50 States, the District of Columbia, and outlying areas.

(b) *Display of fraud hotline poster(s).* Except as provided in paragraph (c)—

(1) During contract performance in the United States, the Contractor shall prominently display in common work areas within business segments performing work under this contract and at contract work sites-

(i) Any agency fraud hotline poster or Department of Homeland Security (DHS) fraud hotline poster identified in paragraph (b)(3) of this clause; and

(ii) Any DHS fraud hotline poster subsequently identified by the Contracting Officer.

(2) Additionally, if the Contractor maintains a company website as a method of providing information to employees, the Contractor shall display an electronic version of the poster(s) at the website.

(3) Any required posters may be obtained as follows:

General Fraud	https://www.oig.dot.gov/sites/default/files/files/OIG-generic-2.pdf
---------------	---

(c) If the Contractor has implemented a business ethics and conduct awareness program, including a reporting mechanism, such as a hotline poster, then the Contractor need not display any agency fraud hotline posters as required in paragraph (b) of this clause, other than any required DHS posters.

(d) *Subcontracts*. The Contractor shall include the substance of this clause, including this paragraph (d), in all subcontracts that exceed the threshold specified in Federal Acquisition Regulation [3.1004](#)(b)(1) on the date of subcontract award, except when the subcontract—

- (1) Is for the acquisition of a commercial product or commercial service; or
- (2) Is performed entirely outside the United States.

(End of clause)

52.203-17 Contractor Employee Whistleblower Rights and Requirements to Inform Employees of Whistleblower Rights (JUN 2020)

52.203-19 Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017)

52.204-1 Approval of Contract (DEC 1989)

This contract is subject to the written approval of the *Acquisitions Branch Chief* and shall not be binding until so approved.

(End of Clause)

52.204-4 Printed or Copied Double-Sided on Postconsumer Fiber Content Paper. (MAY 2011)

52.204-9 Personal Identity Verification of Contractor Personnel. (JAN 2011)

52.204-10 Reporting Executive Compensation and First-Tier Subcontract Awards. (JUN 2020)

52.204-13 System for Award Management Maintenance. (OCT 2018)

52.204-14 Service Contract Reporting Requirements (OCT 2016)

52.204-18 Commercial and Government Entity Code Maintenance (AUG 2020)

52.204-19 Incorporation by Reference of Representations and Certifications. (DEC 2014)

52.204-23 Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (NOV 2021)

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (NOV 2021)

52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (NOV 2021)

52.209-10 Prohibition on Contracting With Inverted Domestic Corporations (NOV 2015)

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 ten (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 **{Refer to Subsection 108.01 of the SCRs}**. 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 June 29, 2023. 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. (SEP 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 FP-14 section 108)** 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)

52.211-13 Time Extensions. (SEP 2000)

52.211-18 Variation in Estimated Quantity. (APR 1984)

- 52.214-26 Audit and Records – Sealed Bidding. (JUN 2020)**
- 52.214-27 Price Reduction for Defective Certified Cost or Pricing Data – Modifications – Sealed Bidding. (JUN 2020)**
- 52.214-28 Subcontractor Certified Cost or Pricing Data – Modifications – Sealed Bidding. (JUN 2020)**
- 52.219-3, Notice of Hubzone Set-Aside or Sole Source Award (OCT 2022)**
- 52.219-8 Utilization of Small Business Concerns (OCT 2022)**
- 52.219-14 Limitations on Subcontracting (OCT 2022)**
- 52.219-16 Liquidated Damages -- Subcontracting Plan (SEP 2021)**
- 52.219-28 Post-Award Small Business Program Rerepresentation (MAR 2023)**
- 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. (MAY 2018)**
- 52.222-6 Construction Wage Rate Requirements. (AUG 2018)**
- 52.222-7 Withholding of Funds. (MAY 2014)**
- 52.222-8 Payrolls and Basic Records. (JUL 2021)**
- 52.222-9 Apprentices and Trainees. (JUL 2005)**
- 52.222-10 Compliance with Copeland Act Requirements. (FEB 1988)**
- 52.222-11 Subcontracts (Labor Standards). (MAY 2014)**
- 52.222-12 Contract Termination - Debarment. (MAY 2014)**
- 52.222-13 Compliance with Construction Wage Rate Requirements and Related Regulations. (MAY 2014)**
- 52.222-14 Disputes Concerning Labor Standards. (FEB 1988)**
- 52.222-15 Certification of Eligibility. (MAY 2014)**

- 52.222-21 Prohibition of Segregated Facilities. (APR 2015)**
- 52.222-26 Equal Opportunity. (SEP 2016)**
- 52.222-27 Affirmative Action Compliance Requirements for Construction. (APR 2015)**
- 52.222-35 Equal Opportunity for Veterans. (JUN 2020)**
- 52.222-36 Affirmative Action for Workers with Disabilities. (JUN 2020)**
- 52.222-37 Employment Reports on Veterans (JUN 2020)**
- 52.222-40 Notification of Employee Rights Under the National Labor Relations Act (DEC 2010)**
- 52.222-50 Combating Trafficking in Persons (NOV 2021)**
- 52.222-54 Employment Eligibility Verification (MAY 2022)**
- 52.222-55 Minimum Wages Under Executive Order 13658 (JAN 2022)**
- 52.222-62 Paid Sick Leave Under Executive Order 13706 (JAN 2022)**
- 52.223-2 Affirmative Procurement of Biobased Products Under Service and Construction Contracts (SEP 2013)**
- 52.223-3 Hazardous Material Identification and Material Safety Data. (FEB 2021)**
- 52.223-5 Pollution Prevention and Right-to-Know Information. (MAY 2011)**
- 52.223-6 Drug-Free Workplace. (MAY 2001)**
- 52.223-17 Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts (AUG 2018)**
- 52.223-18 Encouraging Contractor Policies to Ban Text Messaging While Driving. (JUN 2020)**
- 52.223-21 Foams (JUN 2016)**
- 52.224-1 Privacy Act Notification. (APR 1984)**
- 52.224-2 Privacy Act. (APR 1984)**
- 52.225-9 Buy American-Construction Materials (OCT 2022)**

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

Commercially available off-the-shelf (COTS) item—

(1) Means any item of supply (including construction material) that is—

(i) A commercial product (as defined in paragraph (1) of the definition of “commercial product” at Federal Acquisition Regulation (FAR) [2.101](#));

(ii) Sold in substantial quantities in the commercial marketplace; and

(iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and

(2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

"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.

Critical component means a component that is mined, produced, or manufactured in the United States and deemed critical to the U.S. supply chain. The list of critical components is at FAR [25.105](#).

Critical item means a domestic construction material or domestic end product that is deemed critical to U.S. supply chain resiliency. The list of critical items is at FAR [25.105](#).

Domestic construction material means—

(1) For construction material that does not consist wholly or predominantly of iron or steel or a combination of both-

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

(ii) A construction material manufactured in the United States, if-

(A) The cost of its components mined, produced, or manufactured in the United States exceeds 60 percent of the cost of all its components, except that the percentage will be 65 percent for items delivered in calendar years 2024 through 2028 and 75 percent for items delivered starting in calendar year 2029. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic. Components of unknown origin are treated as foreign; or

(B) The construction material is a COTS item; or

(2) For construction material that consists wholly or predominantly of iron or steel or a combination of both, a construction material manufactured in the United States if the cost of foreign iron and steel constitutes less than 5 percent of the cost of all components used in such construction material. The cost of foreign iron and steel includes but is not limited to the cost of foreign iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet), castings, or forgings utilized in the manufacture of the construction material and a good faith estimate of the cost of all foreign iron or steel components excluding COTS fasteners. Iron or steel components of unknown origin are treated as foreign. If the construction material contains multiple components, the cost of all the materials used in such construction material is calculated in accordance with the definition of "cost of components".

Fastener means a hardware device that mechanically joins or affixes two or more objects together. Examples of fasteners are nuts, bolts, pins, rivets, nails, clips, and screws.

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

Foreign iron and steel means iron or steel products not produced in the United States. Produced in the United States means that all manufacturing processes of the iron or steel must take place in the United States, from the initial melting stage through the application of coatings, except metallurgical processes involving refinement of steel additives. The origin of the elements of the iron or steel is not relevant to the determination of whether it is domestic or foreign.

Predominantly of iron or steel or a combination of both means that the cost of the iron and steel content exceeds 50 percent of the total cost of all its components. The cost of iron and steel is the cost of the iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet),

castings, or forgings utilized in the manufacture of the product and a good faith estimate of the cost of iron or steel components excluding COTS fasteners.

Steel means an alloy that includes at least 50 percent iron, between 0.02 and 2 percent carbon, and may include other elements.

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

(b) Domestic preference.

(1) This clause implements [41 U.S.C. chapter 83](#), Buy American, by providing a preference for domestic construction material. In accordance with [41 U.S.C. 1907](#), the domestic content test of the Buy American statute is waived for construction material that is a COTS item, except that for construction material that consists wholly or predominantly of iron or steel or a combination of both, the domestic content test is applied only to the iron and steel content of the construction materials, excluding COTS fasteners. (See FAR [12.505\(a\)\(2\)](#)). 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 information technology that is a commercial product or to the construction materials or components listed by the Government as follows:

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.

(A) *For domestic construction material that is not a critical item or does not contain critical components.*

(1)The cost of a particular domestic construction material subject to the requirements of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than 20 percent;

(2)For construction material that is not a COTS item and does not consist wholly or predominantly of iron or steel or a combination of both, if the cost of a particular domestic construction material is determined to be unreasonable or there is no domestic offer received, and the low offer is for foreign construction material that is manufactured in the United States and does not exceed 55 percent domestic content, the Contracting Officer will treat the lowest offer of foreign construction material that exceeds 55 percent domestic content as a domestic offer and determine whether the cost of that offer is unreasonable by applying the evaluation factor listed in paragraph (b)(3)(i)(A)(1) of this clause.

(3)The procedures in paragraph (b)(3)(i)(A)(2) of this clause will no longer apply as of January 1, 2030.

(B) For domestic construction material that is a critical item or contains critical components.

(1) The cost of a particular domestic construction material that is a critical item or contains critical components, subject to the requirements of the Buy American statute, is unreasonable when the cost of such material exceeds the cost of foreign material by more than 20 percent plus the additional preference factor identified for the critical item or construction material containing critical components listed at FAR [25.105](#).

(2) For construction material that does not consist wholly or predominantly of iron or steel or a combination of both, if the cost of a particular domestic construction material is determined to be unreasonable or there is no domestic offer received, and the low offer is for foreign construction material that does not exceed 55 percent domestic content, the Contracting Officer will treat the lowest foreign offer of construction material that is manufactured in the United States and exceeds 55 percent domestic content as a domestic offer, and determine whether the cost of that offer is unreasonable by applying the evaluation factor listed in paragraph (b)(3)(i)(B)(1) of this clause.

(3) The procedures in paragraph (b)(3)(i)(B)(2) of this clause will no longer apply as of January 1, 2030.

(ii) The application of the restriction of the Buy American statute 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 statute.

(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 statute 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 statute applies, use of foreign construction material is noncompliant with the Buy American statute.

(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) *
<i>Item 1</i>			
Foreign construction material			
Domestic construction material			
<i>Item 2</i>			
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)

52.227-1 Authorization and Consent. (JUN 2020)

52.227-2 Notice and Assistance Regarding Patent and Copyright Infringement. (JUN 2020)

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 Individual Surety - Pledges of Assets. (FEB 2021)

52.228-12 Prospective Subcontractor Requests for Bonds. (DEC 2022)

52.228-14 Irrevocable Letter of Credit (Nov 2014)

52.228-15 Performance and Payment Bonds - Construction. (JUN 2020)

52.229-3 Federal, State, and Local Taxes. (FEB 2013)

52.232-5 Payments under Fixed-Price Construction Contracts. (MAY 2014)

52.232-17 Interest. (MAY 2014)

52.232-23 Assignment of Claims. (MAY 2014)

52.232-27 Prompt Payment For Construction Contracts. (JAN 2017)

52.232-33 Payment by Electronic Funds Transfer – System for Award Management (OCT 2018)

52.232-39 Unenforceability of Unauthorized Obligations (JUN 2013)

52.232-40 Providing Accelerated Payments to Small Business Subcontractors (MAR 2023)

52.233-1 Disputes. (MAY 2014) - Alternate I (DEC 1991)

52.233-3 Protest after Award. (AUG 1996)

52.233-4 Applicable Law for Breach of Contract Claim. (OCT 2004)

52.236-2 Differing Site Conditions. (APR 1984)

52.236-3 Site Investigation and Conditions Affecting the Work. (APR 1984)

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:

- 1) **Soils and Foundations Report No. 06-19 Wiggins Fork Bridge Replacement**
- 2) **Stream Diversion Recommendations for the Replacement of Wiggins Fork Bridge project**

(b) Weather conditions *Contact National Weather Service* .

(c) Transportation facilities – N/A

(End of clause)

52.236-5 Material and Workmanship. (APR 1984)

52.236-6 Superintendence by the Contractor. (APR 1984)

52.236-7 Permits and Responsibilities. (NOV 1991)

52.236-8 Other Contracts. (APR 1984)

52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements. (APR 1984)

52.236-10 Operations and Storage Areas. (APR 1984)

52.236-11 Use and Possession Prior to Completion. (APR 1984)

52.236-12 Cleaning Up. (APR 1984)

52.236-13 Accident Prevention. (NOV 1991)

52.236-15 Schedules for Construction Contracts. (APR 1984)

52.236-17 Layout of Work. (APR 1984)

52.236-21 Specifications and Drawings for Construction. (FEB 1997)

52.236-26 Preconstruction Conference. (FEB 1995)

52.242-13 Bankruptcy. (JUL 1995)

52.242-14 Suspension of Work. (APR 1984)

52.243-4 Changes. (JUN 2007)

52.243-6 Change Order Accounting. (APR 1984)

52.244-6 Subcontracts for Commercial Products and Commercial Services. (MAR 2023)

52.245-1 Government Property (SEP 2021) - Alternate I (APR 2012)

52.245-9 Use and Charges. (APR 2012)

52.246-12 Inspection of Construction. (AUG 1996)

52.247-64 Preference for Privately Owned U.S.-Flag Commercial Vessels (NOV 2021)

52.248-3 Value Engineering - Construction. (OCT 2020)

52.249-2 Termination for Convenience of the Government (Fixed-Price). (APR 2012) - Alternate I (SEP 1996)

52.249-10 Default (Fixed-Price Construction). (APR 1984)

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/these address(es): <http://www.acquisition.gov/far>

(End of clause)

52.252-4 Alterations in Contract. (APR 1984)

Portions of this contract are altered as follows: **NONE**

(End of clause)

52.253-1 Computer Generated Forms. (JAN 1991)

1252.201-70 Contracting Officer's Representative (NOV 2022)

1252.222-72 Contractor Cooperation in Equal Employment Opportunity and Anti-Harassment Investigations (NOV 2022)

1252.223-70 Removal or Disposal of Hazardous Substances – Applicable Licenses and Permits (NOV 2022)

1252.223-71 Accident and Fire Reporting (NOV 2022)

1252.223-73 Seat Belt Use Policies and Programs (NOV 2022)

1252.228-74 Notification of Payment Bond Protection (NOV 2022)

(a) The prime contract is subject to the Bonds statute (historically referred to as the Miller Act) (40 U.S.C. chapter 31, subchapter III), under which the prime contractor has obtained a payment bond. This payment bond may provide certain unpaid employees, suppliers, and subcontractors a right to sue the bonding surety under the Bonds statute for amounts owed for work performed and materials delivery under the prime contract.

(b) Persons believing that they have legal remedies under the Bonds statute should consult their legal advisor regarding the proper steps to take to obtain these remedies. This notice clause does not provide any party any rights against the Federal Government, or create any relationship, contractual or otherwise, between the Federal Government and any private party.

(c) The surety which has provided the payment bond under the prime contract is: On File with the FHWA.

(d) Subcontract flowdown requirements. This clause shall be flowed down to all subcontractors. Prime contractors shall insert this notice clause in all first-tier subcontracts and shall require the clause to be subsequently flowed down by all first-tier subcontractors to all their subcontractors, at any tier. This notice contains information pertaining to the surety that provided the payment bond under the prime contract and is required to be inserted in its entirety to include the information set forth in paragraph (c).

(End of clause)

1252.232-70 Electronic Submission of Payment Requests (NOV 2022)

1252.239-93 Information and Communication Technology Accessibility (NOV 2022)

POST-AWARD EVALUATION OF CONTRACTOR PERFORMANCE

Contractor Performance Evaluations

- a. Interim and final evaluations of contractor performance will be prepared on this contract in accordance with FAR 42.1502 and TAM 1242.1502. The final performance evaluations will be prepared at the time of completion of work.
- b. The Contractor can elect to review the evaluation and submit additional information or provide a rebuttal statement. The contractor will be permitted 60 calendar days to respond from the date of receipt of the evaluation. Contractor response is voluntary. If the contractor does not respond within 60 days, the Government will presume that the Contractor has no comment. Any disagreement between the parties regarding an evaluation will be referred to an individual at a level above the Contracting Officer, whose decision is final.
- c. Copies of the evaluations, Contractor responses, and review comments, if any, will be retained as part of the contract file, and may be used to support future award decisions.

The Federal Highway Administration utilizes the Contractor Performance Assessment Reporting System (CPARS) to record and maintain past performance information. CPARS hosts a suite of web-enabled applications that are used to document contractor performance information that is required by Federal Regulations. The CPARS module assesses performance on contracts for Systems, Services, Information Technology, and Operations Support; Architect-Engineer contracts; and Construction contracts. Reference material can be accessed in CPARS.

The registration process requires the Contractor to identify an individual that will serve as a primary contact. This individual will be authorized access to the evaluation for review and comment. In addition, the Contractor is encouraged to identify a secondary contact in the event the primary contact is unavailable to process the evaluation within the required 60 day time period. After the FHWA Focal Point registers the contract in CPARS, the contractor representative will receive a system generated email notifying him/her that the contract is registered. A system generated email will also provide the Contractor with a User ID if the person does not already have a CPARS User ID.

After a performance evaluation has been prepared and is ready for comment, the Contractor representative will receive a system generated email notification that the performance evaluation is electronically available for review and comment. The Contractor representative will receive an automated email whenever an assessment is completed and can subsequently retrieve the completed assessment from CPARS.

Contractors may access evaluations in CPARS for review and comment.

(End of Clause)

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023

SUWY2022-003 06/09/2022

	Rates	Fringes
CARPENTER.....	\$ 27.00	13.58
CONCRETE FINISHER.....	\$ 26.08	6.59
ELECTRICIAN		
Electrician.....	\$ 33.55	7.88
Equipment Operator		
(Electrical Work Only).....	\$ 42.54	15.30
Ground Man.....	\$ 20.00	5.39
IRONWORKER.....	\$ 46.00	0.00
LABORER		
GROUP 1.....	\$ 18.84	0.00
GROUP 2.....	\$ 20.79	4.65
GROUP 3.....	\$ 23.00	5.44

LABORER CLASSIFICATIONS

GROUP 1: Erector & Installer (fences, guardrail & barrier); Flag persons (traffic control); Form Strippers; General Laborers; Heater Tender; Material Checker; Pick-up Truck Driver; Pilot Car Driver; Pre-watering, Presetting & Pre-irrigation (all work); Riprap Man; Tar & Asphalt Pot Tender.
 GROUP 2: Asphalt Raker and Tamper; Bin Wall Installer; Chain Saw Operator (clearing & grubbing); Concrete Saw (all types); Dump Man; Form Setter (paving); Hand Operated Vibratory Roller; High Scaler; Jackhammer & Pavement Breaker; Landscaper, Landscape Laborer; Maintainer (traffic control); Mortar Man on Stone Riprap; Nozzle Man (air, water, gunite & sandblasting); Painter (brush & spray); Pipe Setter (all pipe types); Tamper Operator (pneumatic, electric, gas & similar)
 GROUP 3: Drill Doctor, Form Setter and Mover, Spader, Spilling and/or Caisson Worker; Miner (driller), Machine Man, Timber

Man; Powderman, Blaster, Tender; Wagon Drill, Air-Trac.
(diamond and other drills for blasting powder or grouting).

POWER EQUIPMENT OPERATOR

GROUP 1.....	\$ 24.41	4.39
GROUP 2.....	\$ 25.75	5.48
GROUP 3.....	\$ 29.74	8.23

POWER EQUIPMENT OPERATOR CLASSIFCATIONS

ALL ELECTRICAL WORK IS EXCLUDED. FOR ELECTRICAL WORK, USE
EQUIPMENT OPERATOR CLASSIFICATION LISTED UNDER ELECTRICAL
CONSTRUCTION

GROUP 1: Air Compressor (all types); Backhoes & Excavators (to
5CY.); Batch Bin Weighman, Sissorman or Hopper; Broom Operator
(all types); Chip Spreader Operator; Conveyor Belt Operator;
Crusher Oiler; Form Grader Operator; Joint Machine Operator;
Longitudinal Float Operator; Oiler, Utility; Power Loader
(belt & bucket type); Pump Operator; Roller Operator, self-
propelled (Dirt); Skid Steer (all attachments); Tire Repairman
(large construction equip. tires); Tractor Operator (farm with
or w/o power attachments); Tugger (all types).

GROUP 2: Articulated Rock Truck (all capacity); Asphalt Plant
Operator; Backhoe, Excavator & Shovel (6 CY. & larger); Batch
Plant Operator; Bituminous Laydown Machine Operator; Concrete
Batch Plant Operator; Concrete Finish Machine Operator;
Concrete Spreader & Paver Operator; Concrete Multi Blade Span
Saw (Hunt process); Crusher Operator; Dozer Operator (all
sizes & power attachments); Draglines, Cranes, Piledriver &
Truck Mounted Cranes (Mfg. Rating: less than 3.5 CY., and /or
less than 50 Tons, all attachments); Drilling Machine,
Integrated (all types); Front End Loaders (1.5 to and
including 10 CY.); Hydro-type Crane (to 50 tons); Mixer
Operator, Concrete (over 1yd.); Motor Patrol Operator (all
excluding finish); Mulching Machine Operator; Oiler (crane &
shovels); Pavement Breaker, Hydro-Tamper & similar; Roller
Operators, Asphalt (steel & pneumatic); Roto-Milling Machine
(under 8 ft. wide); Scraper Equipment (all types and sizes);
Screed Operator; Trenching Machine Operator.

GROUP 3: Draglines, Cranes, Piledrivers & Truck Mounted Cranes
(Mfg. Rating: 3.5 CY. or larger and/or 50 tons & larger, all
attachments); Front End Loaders (over 10 CY.); Heavy Duty
Mechanic, Machine Doctor; Hoist Operator (two or more drums,
shafts, or raises); Mixer Operator (dual drum); Motor Patrol
Operator (finish); Roto-Milling Machine (8 ft. & larger).

TRUCK DRIVER

GROUP 1.....	\$ 24.11	4.46
GROUP 2.....	\$ 24.11	5.06

GROUP 1: ?A? Frame Truck Driver; Coring Machine (self
propelled); Dump Truck
Driver (to and including 13 CY.); Flat Rack Material Truck
Driver (to 5 tons); Fuel
Service Truck Driver; Gang Truck Driver; Gravel Spreader;

Greaseman, Tireman,
 Serviceman; Oil Distributor Driver (to & including 3,600 gal.); Snow Plow Driver (the CY. rate of the truck); Transit Mix or Wet Mix Truck Driver; Utility Winch Truck Driver; Water Truck Driver (to & including 3,600 gal.).
 GROUP 2: Dump Truck Driver (14 to 45 CY.); Flat Rack Material Truck Driver (over 5 tons); Low Boy & Tandem Axle Float Driver; Multiple Axle Type Truck (semi); Oil Distributor Driver (over 3,600 gal.); Truck Mechanics; Water Truck Driver (over 3,600 gal.); Winch Trailer Truck Driver.

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

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

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)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical

order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union

average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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 National Office because National Office has 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.

=====

END OF GENERAL DECISIO"

SPECIAL CONTRACT REQUIREMENTS

The following Special Contract Requirements amend and supplement the *Standard Specifications for Construction of Roads and Bridges, on Federal Highway Projects (FP-14)*, U.S. Department of Transportation, Federal Highway Administration.

Section 101. – TERMS, FORMAT, AND DEFINITIONS

101.03 Abbreviations.

(a) Acronyms. Add the following:

EEBACS — Engineer’s Estimating, Bidding, Award, and Construction System
GSA – General Services Administration

(b) US Customary abbreviations and symbols. Delete the text and substitute the following:

°F	— degrees Fahrenheit	temperature
A	— ampere	electric current
ac.	— acre	area
BTU	— British Thermal Unit	energy
cu. in. or in³	— cubic inches	volume
cu. ft., cf, ft³ or CUFT	— cubic feet	volume
cu. yd., cy, yd³ or CUYD	— cubic yards	volume
D	— day	time
deg. or °	— degree	plane angle
Fc	— foot-candles	luminous intensity
fl. oz.	— fluid ounces	volume
ft. or ’	— foot or feet	length
gal. or GAL	— gallon	volume
H	— Henry	inductance
hr. or HR	— hour	time
Hz	— hertz (s ⁻¹)	frequency
in. or ”	— inch or inches	length
K	— kelvin	temperature
lb or LB, lbs	— pound, pounds	mass
Lbf	— pound-force	force
lnft or LNFT	— linear foot	length
mi.	— miles	length
min. or m	— minute	time
min. or ’	— minute	plane angle

oz.	— ounces	mass
Psi	— pounds/square inch	pressure
Q	— cubic feet/second	flow rate
sec. or s	— second	time
sec. or "	— second	plane angle
sq. in. or in²	— square inches	area
sq. ft., sf, ft² or SQFT	— square feet	area
sq. yd., sy, yd² or SQYD	— square yards	area
T	— short ton (2000 lbs)	mass
V	— volt (W/A)	electric potential
W	— watt (J/s)	power
yd or YD	— yard or yards	length
Ω	— ohm V/A	electric resistance

(c) **Metric unit abbreviations and symbols.** Delete the text and substitute the following:

A	— ampere	electric current
Cd	— candella	luminous intensity
°C	— degree Celsius	temperature
D	— day	time
deg. or °	— degree	plane angle
g or gram	— gram	mass
H	— Henry	inductance
Ha	— hectare	area
hr. or HR	— hour	time
Hz	— hertz (s ⁻¹)	frequency
J	— Joule (N·m)	energy
K	— kelvin	temperature
Kg	— kilogram	mass
L	— liter	volume
Lx	— lux	illuminance
M	— meter	length
mm	— millimeter	length
m²	— meter squared	area
m³	— cubic meter	volume
min. or m	— minute	time
min. or '	— minute	plane angle
N	— Newton (kg·m/s ²)	force
Pa	— Pascal (N/m ²)	pressure
sec. or s	— second	time
sec. or "	— second	plane angle
T	— metric ton	Mass
V	— volt (W/A)	electric potential

W	— watt (J/s)	Power
Ω	— ohm V/A	electric resistance

101.04 Definitions.

Add the following:

EEBACS — Engineer’s Estimating, Bidding, Award, and Construction System. A web-based system used by the Government, Construction Contractors, and Subcontractors on this Government contract to prepare “*Inspector’s Daily Record of Construction Operations*” (*Contractors Daily Reports*) and measurement notes (pay notes and field measurement documentation).

Roadway Prism Delete the text and substitute the following:

Roadway Prism – The volume defined by the area between the original terrain cross-section and the final design cross-section multiplied by the horizontal distance between the centroids (geometric center) of the area.

Subcontractor Delete the text and substitute the following:

Subcontractor – An individual or legal entity with which the Contractor sublets part of the work. This includes subcontractors and material suppliers at any tier.

Section 104. — CONTROL OF WORK**104.03 Specifications and Drawings.**

Add the following to (a) General (2) Drawings:

(h) Erosion and sediment control drawings for the SWPPP application.

Section 105. — CONTROL OF MATERIAL**105.01 Source of Supply and Quality Requirements.** Add the following:

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.

Add the following:

Certify, according to Subsection 107.10 (d)(2), that sources of rock, sand, gravel, earth, subsoil, or other natural material imported into the project construction limits are noxious weed free.

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 the Fremont County gravel pit located 1 mile north of Wiggins Creek bridge for a staging area. Obtain a permit for use from Fremont County prior to using this location for staging. Return staging area to original condition.

Use all products according to the manufacturer's recommendations for handling, storage, and disposal. Follow the requirements of FAR Clause 52.236-10 Operations and Storage Areas and FAR Clause 52.236-12 Cleaning Up. Maintain the staging and storage areas in a clean, neat, and orderly condition satisfactory to the CO.

Store construction materials within the limits indicated on the contract drawings. Properly store materials according to the applicable permit and the requirements in Section 107, 157, 203, 204, 624, and 625. Check the storage areas weekly and according to the applicable permit.

Store construction, building and waste materials, and containers in designated areas indoors or protect with a suitable covering.

Submit a site map showing the material storage and stockpile locations at least 14 calendar days prior to the start of construction activities.

Keep the manufacturer's MSDS, an inventory of the material, and emergency numbers near the storage area. Take appropriate measures to ensure that incompatible chemicals are not stored next to each other.

Section 106. — ACCEPTANCE OF WORK

106.01 Conformity with Contract Requirements. Delete (a) and (b) and substitute the following:

(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

(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.

Add the following after (b):

The number of significant figures used in the calculations will be according to ASTM E 29, absolute method.

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.

106.02 Visual Inspection. Delete the Subsection and substitute the following:

106.02 Visual Inspection. Acceptance is based on visual inspection of the work for compliance with the contract requirements. In the absence of specific contract requirements or tolerances, use prevailing industry standards.

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.

Delete the third paragraph and substitute the following:

Check certifications before incorporating the material into the work to ensure that the requirements of the contract have been met. Mark the certifications with the following information:

- Project number and name;
- Pay item number and description;
- Contractor signed certification stating “to the best of our knowledge the materials certified by the attached certification represent the materials incorporated into the work of this contract”; and
- Date.

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
302	Minor Crushed Aggregate	Crushed Aggregate	Source, Quality and Gradation	1 per source	1 per source
312	Dust Palliative	Calcium Chloride Magnesium Chloride, Lignosulfonate,	As specified	1 per shipment	First shipment
403	Asphalt Concrete	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, Masonry and Mortar Cement	AASHTO M 85, M 240, ASTM C 91 and ASTM C1392 as applicable	1 per shipment	1 per 100 tons
702.01	Asphalt Material	Asphalt Cement	AASHTO M 226 or M 320, as applicable	1 per shipment	1 per shipment
702.02	Asphalt Material	Emulsified Asphalt	AASHTO M 140 or M 208 as applicable	1 per shipment	1 per shipment
702.03	Asphalt Material	Asphalt Materials used for Damproofing and Waterproofing	As specified for each type of asphalt material	1 per shipment	-----

Section	Description	Material	Material Property Or Specification	Frequency	
				Certification	Sample
		Concrete and Masonry Surfaces			
702.05	Antistrip	As specified	As applicable	1 per shipment	-----
706	Concrete and Plastic Pipe	As specified	As applicable	1 per shipment	-----
707	Metal Pipe	As specified	As applicable	1 per shipment	-----
708	Plastic Pipe	As specified	As applicable	1 per shipment	-----
709	Reinforcing and Prestressing Steel	As specified	As applicable	1 per shipment	For 709.01 submit 3, 1- yard (1-meter) bars of each size and grade of bar furnished. 709.02 submit 1 6-foot (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	Geosynthetic Material (all)	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 Material (all)	As specified	As applicable	1 per shipment	-----
719	Paint	As specified	As applicable	1 per batch\lot	1 sample for quantities

Section	Description	Material	Material Property Or Specification	Frequency	
				Certification	Sample
					> 25 gallons (100L)
720	Structural Wall and Stabilized Embankment Material (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

107.01 Laws to be Observed. Add the following:

Section 401 and 404 of the Clean Water Act.

Comply with the terms and conditions of any permits that authorize the discharge of dredged or fill material in waters of the U.S., including Section 404 permits and Section 401 water quality certifications at the links below.

General NWP for Omaha District

<https://www.nwo.usace.army.mil/Missions/Regulatory-Program/Nation-Wide-Permit-Information/>

NWP 14

<https://usace.contentdm.oclc.org/utis/getfile/collection/p16021coll7/id/19778>

Wyoming 401 for NWP

<https://www.nwo.usace.army.mil/Missions/Regulatory-Program/Wyoming/Nationwide-Permits/>

<https://usace.contentdm.oclc.org/utis/getfile/collection/p16021coll11/id/5039>

Wyoming Water Quality Rules and Regulations

Comply with the requirements of Section 23, Chapter 1 of the Wyoming Water Quality Rules and Regulations and the corresponding Turbidity Implementation Policy to receive a temporary waiver for increases in turbidity during construction. Submit an application found at the link below to the Wyoming Department of Environmental Quality at least 30 days before any ground disturbance near Wiggins Creek begins and provide a copy of the waiver to the CO.

<https://deq.wyoming.gov/water-quality/watershed-protection/cwa-section-401-turbidity-wetland/>

107.02 Protection and Restoration of Property and Landscape.

Add the following at the end of this subsection:

The locations of the utilities shown in the plans have been certified to a Quality Level B according to the CFLHD Utility Data Quality Certification requirements:

<http://flh.fhwa.dot.gov/resources/row/cfl/documents/UtilityDataQualityLevelCertification.doc>

**Table 107-1
Status of Utilities**

	Company	Utility Type	Contact Name	Phone Number	Status 1, 2, 3, or 4
1	Dubois Telephone Exchange (DTE)	Phone	Larry Woodington	(307)347-7000	4
2	High Plains Power, Inc	Power	Doug Cooley	(307)455-2475	4

Status 1: The utilities are in conflict with the project and require relocation by others during construction.

Status 2: The utilities are in conflict with the project and require relocation by the Contractor during construction.

Status 3: The utilities are in conflict with the project and require relocation by others before construction.

Status 4: The utilities are located within the project rights of way but require no relocation.

107.05 Responsibility for Damage Claims. Delete the first sentence of the third paragraph and substitute the following:

Before work begins, submit “*certificates of insurance*” certifying that the policies will not be changed or canceled until 30 days written notice has been given to the Government.

107.10 Environmental Protection.

(a) Federal Water Pollution Control Act (Clean Water Act) 33 USC § 1251 et seq. Add the following:

- (4) Do not ford running streams with construction equipment. Obtain approval from the CO to use temporary bridges or other structures whenever crossings are necessary.
- (5) Immediately clear ephemeral drainages, intermittent and perennial streams, lakes and reservoirs of all work items, debris or other obstructions placed by or resulting from construction operations.
- (6) Locate machinery servicing and refueling areas away from streambeds and washes to reduce the possibility and minimize the impacts of accidental spills or discharges.

(b) Oil and hazardous substances. Add the following to the end of the third paragraph:

Sand or soils are not approved absorbent materials.

Add the following to the end of the fourth paragraph:

Report the spill to the appropriate federal, state, and local authorities as required by the SPCC plan or hazardous spill plan.

(c) Dirt, plant, and foreign material. Add the following:

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. Allow the CO to inspect each piece of equipment before entering the project. Provide the cleaning and inspection records to the CO. Equipment found operating on the project that has not been inspected or has oil leaks will be shut down and subject to citation.

(d) Clearances for Contractor-selected, noncommercial areas. Add the following to the end of the first paragraph:

Use rock, sand, gravel, earth, subsoil, or other natural materials from a Contractor-selected non-commercial materials source that has been certified free of noxious weeds. Materials imported into the project limits which do not include a noxious weed free certification may be rejected and ordered by the CO to be removed from the project limits. The CO has the discretion of requesting inspection of certified materials by a third party and rejecting the use of the source if noxious weeds or seeds thereof are found to be present.

Add the following:

(5) Any required Certifications.

Add the following:

(e) Project-specific commitments.

- (1) Remove the existing Wiggins Fork Bridge manufacturer's plaque prior to demolition of the bridge and provide the plaque to the CO.
- (2) Schedule vegetation and bridge removal before April 15 or after August 31. If this is not feasible, retain a qualified biologist (at least 3 years of prior experience surveying for nesting birds), at no additional cost to the government, to perform a preconstruction survey for active nests in the construction limits within 1 week before vegetation and bridge removal activities. Notify the CO within 24 hours of the results. If active nest(s) are discovered, delay vegetation and bridge removal until the nest is determined no longer active, as confirmed by the biologist, and upon approval by the CO.
- (3) Inspect the bridge, particularly the underside, before removal or initiating any work on the bridge to determine the presence of nesting birds or roosting bats. If any nesting or roosting activity is observed, notify the CO immediately and do not begin work on the bridge until the CO provides notification that work can proceed.
- (4) Store food scraps or other trash or garbage in covered or closed trash containers and remove them from the work area on a daily basis.
- (5) Complete all in-water work between August 1 and September 14 and/or between December 1 and May 14.

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

The CO will order the suspension of operations when conditions are unsafe as determined by the CO and the land management agency.

Section 108. — PROSECUTION AND PROGRESS

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

Limit operations according to Subsection 107.10(e) and Section 156.

No work, other than to maintain the diversion, temporary traffic control, and erosion control devices will be allowed from October 30 to April 1. The site is to be prepared for winter shutdown with an operational diversion and temporary traffic control with signals.

During the listed Federal holidays and surrounding days as shown in Table 108-2, perform no work except to maintain traffic control devices, erosion control devices, the roadway driving surface, and to control dust.

Table 108-2
Federal Holidays and Surrounding Days

Federal Holiday	Time	Remarks

Birthday of Martin Luther King, Jr.	12:00 Noon Friday to 6:00 am Tuesday	-
Washington's Birthday	12:00 Noon Friday to 6:00 am Tuesday	-
Memorial Day	12:00 Noon Friday to 6:00 am Tuesday	-
Juneteenth National Independence Day	12:00 Noon June 18 to 6:00 am June 20	-
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	12:00 Noon Friday to 6:00 am Tuesday	-
Columbus Day	12:00 Noon Friday to 6:00 am Tuesday	-
Veterans Day	12:00 Noon November 10 to 6:00 am November 12	-
Thanksgiving	12:00 Noon Wednesday to 6:00 am Monday	-
Christmas / New Year's	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. Notify the CO at least 2 weeks before changing the scheduled days off.

The CO may grant written approval for exemptions to scheduled days off for specific project operations and for periods of limited duration.

Add the following:

The CO will issue a Notice to Proceed before commencement of any work. The contract completion date is October 24, 2024.

Add the following:

Use the Government's web-based system, *Engineer's Estimating, Bidding, Award, and Construction System (EEBACS)*, to prepare all "*Inspector's Daily Record of Construction Operations*" (*Contractors Daily Reports*) and measurement notes (pay notes and field measurement documentation).

Attend a training session on the use of EEBACS. The training session will require up to 4 hours. No more than 3 Contractor staff may attend the training unless approved by the CO. The Contractor shall be responsible for training additional staff.

Complete and electronically submit "*EEBACS User Account Form*" (Form EEBACS-001) for each individual requiring EEBACS access. Submit forms to the CO at the preconstruction conference or at least 10 days prior to the start of any contract work or EEBACS training. As needed, request additional system access using Form EEBACS-001 and allow 7 days for system access.

Maintain active EEBACS accounts for all contractor staff who use EEBACS and ensure that the CO is notified within 24 hours after an account holder is reassigned or no longer employed by the Contractor. Within 24 hours after an account holder is reassigned or no longer employed by the Contractor, submit an EEBACS-001 form requesting that the account be disabled.

The electronic version of EEBACS-001 is available at:

<https://highways.dot.gov/federal-lands/estimates/forms>

108.02 Subcontracting. Delete the third paragraph and substitute the following:

Within 14 days of subcontract award, submit a completed SF 1413 and 1413S. Complete Part I for each Subcontractor, and include Part II when the Subcontractor performs on-site work. Complete other forms that may be required by the Government to show the work subcontracted and the total dollar amount of the subcontract. Submit the above required information for each Subcontractor at lower tiers.

108.04 Failure to Complete Work on Time.

Delete Table 108-1 and substitute the following:

Table 108-1
Charge for Liquidated Damages for Each Day
Work Is Not Substantially Completed

Original Contract Price		Daily Charge
From More Than —	To and Including —	
\$ 0	\$ 1,000,000	\$ 1,600

Original Contract Price		Daily Charge
From More Than —	To and Including —	
\$ 1,000,000	\$ 2,000,000	\$ 2,400
\$ 2,000,000	\$ 5,000,000	\$ 4,100
\$ 5,000,000	\$ 10,000,000	\$ 5,600
\$ 10,000,000	and more	\$ 6,500

Section 109. — MEASUREMENT AND PAYMENT

109.01 Measurement of Work. Add the following after the sixth paragraph:

Prepare, sign, and submit electronic measurement notes (pay notes and supporting field documentation) using EEBACS. Measurement notes will be reviewed by the CO. Unacceptable measurement notes will be electronically rejected and returned. Correct rejected measurement notes and resubmit electronically.

109.02 Measurement Terms and Definitions.

(c) **Cubic yard (Cubic meter).**

(1) **Cubic yard (Cubic meter) in-place.** Delete this subsection and substitute the following:

Measure the solid volumes by a method approved by the CO, or by a surface to surface method approved by the CO. (o) **Square foot and Square yard (Square meter).** Add the following:

Do not measure overlaps.

Section 152. — CONSTRUCTION SURVEY AND STAKING

Construction Requirements

152.04 General. Add the following to the second paragraph:

The Government will establish basic survey control points for vertical and horizontal control of the project.

The Government will furnish the following for mainline and roadway diversion:

- (1) 3D coordinates and offset distance from centerline for subgrade and surface course finishing stakes at 25-foot (10-meter) intervals and miscellaneous intermediate stations.
- (2) Slope stake data containing centerline grade and slope staking information at 25-foot (10-meter) station intervals and miscellaneous intermediate stations.
- (3) Computer listings containing: horizontal alignment, vertical alignment, earthwork quantities, and staking details showing superelevation template data and slope information.

Perform additional conversions and calculations as necessary for convenient use of Government-furnished data. The Contractor is responsible for the accuracy of all information converted from the Government-furnished data. Provide immediate notification of apparent errors in the furnished data.

Delete the last sentence of the fourth paragraph from the bottom of the subsection and substitute the following:

Reestablish missing control points and stakes before slope staking begins.

Delete the last sentence of the fourth paragraph from the bottom of the subsection and substitute the following:

Reestablish missing control points and stakes before slope staking begins.

152.05 Survey and Staking Requirements.

(f) Grade-finishing stakes. Delete (1) AMG method.

(g) Culverts. Delete the text and substitute the following:

Verify and set culvert locations at the inlet, outlet, and inlet basin points according to the plans. Plot the centerline of the proposed culvert at a 1:20 scale. Show the natural ground, the flow line, the roadway section, and the culvert including end treatments and other appurtenances. Provide the elevations, grade, culvert length, degree of elbow, catch points, and hinge points on the plot.

Perform the following if the culvert design shown in the plans does not fit field conditions, when the CO requires adjustment to a culvert location, or when a culvert design isn't provided for a new culvert, culvert replacement, or culvert extension:

- (1) Recommend a revised culvert location and alignment if needed.
- (2) Survey and record the ground profile along the culvert centerline;

- (3) Determine the slope catch points at the inlet and outlet;
- (4) Set reference points and record information necessary to determine culvert length and end treatments;
- (5) Plot to scale the profile along the culvert centerline. Show the natural ground, the flow line, the roadway section, and the culvert including end treatments and other appurtenances. Show elevations, grade, culvert length, and degree of elbow.
- (a) For single skewed culverts, submit a plotted field-design cross-section normal to roadway centerline and at each end section. Plot the offset and elevation of natural ground at the end section and at proposed template break points between centerline and the end section. Ensure the template design embankment slope is not exceeded;
- (b) For multiple skewed culverts, submit a plotted field design cross-section normal to roadway centerline and at the end sections (left and right) nearest to the shoulder. Plot the offset and elevation of natural ground at the end section and at proposed template break points between centerline and the end section. Ensure the template design embankment slope is not exceeded;
- (c) Submit the plotted field-design cross-section for approval of final culvert length and alignment. Plot at a clear and readable scale;
- (d) Set inlet, outlet, and reference stakes when the field design has been approved. Stake inlet and outlet ditches to make sure the culvert and end treatments (such as drop inlets) are functional; and
- (e) Adjust slope, reference, and clearing stakes as necessary to provide for culvert inlet treatments in cut slopes. Readjust slope, reference, and clearing stakes as necessary when culvert inlets are moved from their plan locations. Review slope adjustments with the CO and obtain approval.

(i) Retaining walls and reinforced soil slopes. Delete the Subsection and substitute the following:

(i) Retaining walls. Survey and record profile measurements along the face of the proposed wall at 5 feet (1.5 meters), 10 feet (3 meters), and in front of the wall face. Take cross-sections every 25 feet (8 meters) along the length of the wall and at major breaks in terrain within the limits designated by the CO. Measure and record points every 25 feet (8 meters) and at major breaks in terrain for each cross-section. Set additional references and control points to perform the work.

Measurement

152.07 Delete the third paragraph and substitute the following:

Do not measure miscellaneous survey and staking.

152.07 Add the following to the fourth paragraph:

Reestablishing missing control points and stakes will be measured under Special labor, Hired survey services when it is paid by the hour.

Section 153. — CONTRACTOR QUALITY CONTROL**Description****153.01** Add the following:

This work also consists of using EEBACS to prepare electronic “*Inspector’s Daily Record of Construction Operations*” (*Contractors Daily Reports*) and measurement notes (pay notes), including entering labor, equipment, subcontractors, and inspection records into the system.

Construction Requirements**153.02 Qualifications.****(a) Quality control manager (QCM)** Delete the first sentence and substitute the following:

Provide a QCM according to (2) below.

(2) Part-time, on-site QCM. Delete the paragraph and substitute the following:

Furnish a QCM who has at least two years of experience in highway construction, inspection, quality control, material testing, and (NICET) Level III certification, or equivalent, in highway construction or highway material.

153.03 Quality Control Plan (QCP).**(b) Quality control procedures**

(2) Add the following: List the material to be tested by pay item, tests to be conducted, the location of sampling, and the frequency of testing.

Add the following:

(d) Subcontractors and suppliers. Include the work of all subcontractors. If a subcontractor is to perform work under this Section, explain how the subcontractor’s inspection plan will interface with the Prime Contractor first tier subcontractors and lower tier subcontractors and organizations, and the CO. Include the work of major suppliers and suppliers of structural and geotechnical services and materials.

Add the following:

Modifications or additions may be required to any part of the plan that is not adequately covered. Acceptance of the quality control plan will be based on the inclusion of the required information. Acceptance does not imply any warranty by the Government that the plan will result in consistent contract compliance. It remains the responsibility of the Contractor to demonstrate such compliance.

153.04 Prosecution of Work. Delete this Subsection and substitute the following:

Address each of the subjects shown for each phase of construction:

(a) Preparatory phase.

- (1) In a preparatory phase meeting, review the contract requirements for the work; the process for constructing the work; and the plan for inspecting, testing, measuring, and reporting the work. Include the project superintendent, the quality control manager (QCM), the foreman for the work to be performed, and the CO in the meeting. Schedule and conduct a preparatory meeting for each type of work to be performed at least one week prior to beginning the work.
- (2) Review and coordinate certifications, submittals, plans, drawings, and permits.
- (3) Verify the capabilities of equipment, material, and personnel. Provide training as necessary.
- (4) Establish a detailed testing schedule based on the production schedule.
- (5) Ensure preparatory testing and inspection is accomplished.
- (6) Review accuracy of the surveying and staking.

(b) Start-up phase.

- (1) In a start-up phase meeting, review the contract requirements and the processes for constructing the work with the personnel who will be performing the work. Invite the CO, project superintendent, QCM, testers, and inspectors of the work being performed, and the personnel directly supervising and performing the work. Review the planned testing, inspection, and reporting requirements with the quality control personnel responsible for the testing and inspection. Explain the reporting procedures to be used when defective work is identified. Conduct a start-up meeting for each type of work to be performed upon beginning the work.
- (2) Inspect, test, and report start-up work according to the QCP and ensure the work conforms to the contract.

(c) Production phase.

- (1) Inspect, test, and report according to the QCP and evaluate the acceptability of the work produced.
- (2) Identify and correct deficiencies.
- (3) Request Government inspection and acceptance.
- (4) Provide feedback on processes and deficiencies. Identify root causes of deficiencies and make timely and effective changes to work processes to prevent repeated deficiencies.

(d) Construction progress meeting.

(1) Schedule and facilitate a weekly construction progress meeting. Invite the CO, project superintendent, QCM, and any other personnel directly supervising or managing the project. At a minimum, discuss the Working Schedule according to Subsection 155.06(f).

153.05 Sampling and Testing. Delete the text and substitute the following:

153.05 Sampling and Testing.

Perform sampling and testing required by the accepted QCP. As a minimum perform process control testing according to the Sampling, Testing and Acceptance Requirements tables at the end of each Section where applicable. Where no minimums are specified, submit proposed tests to be performed and the proposed sampling and testing frequencies.

(a) Sample Splitting. Schedules and times or locations for obtaining on-site split samples for Government use will be provided by the CO using a procedure for random sampling. Sample any material that appears defective or inconsistent with similar material being produced, unless such material is voluntarily removed and replaced or otherwise corrected according to Subsection 106.01

(b) Testing. 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 perform the work. Perform 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 for 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 repaired or replaced and shown by subsequent inspection to perform as required. Maintain records documenting laboratory equipment inspections. Provide certification(s) stating the equipment conforms to testing requirements and provide evidence of current inspection. Keep laboratory facilities clean and maintain equipment in proper working condition. Allow the CO unrestricted access to the laboratory for inspection and review.

The CO may require a demonstration of proficiency in sampling and testing capabilities. One or more proficiency samples may be provided by the Government to verify basic qualifications. Provide the results of the proficiency samples to the CO within 48 hours of

receipt of the material.

153.06 Certifications. Delete the text and substitute the following:

For materials or work accepted by certification according to Subsection 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. According to FAR Subpart 46.407, materials or work without proper certification will be rejected in writing, and payment for such material or work will be withheld until proper certification has been provided to the CO.

153.07 Records and Control Charts. Delete the first sentence and substitute the following:

Maintain complete testing and inspection records by pay item number and make them accessible to the CO.

(a) Quality control and construction operations reports. Delete the text and substitute the following:

For each day of the contract, prepare an “*Inspector’s Daily Record of Construction Operations*” (*Contractors Daily Reports (CDR)*) using EEBACS. Enter initial data for Labor/Equipment and Subcontractors prior beginning any work. Maintain and update the Labor/Equipment and Subcontractors data to reflect ongoing changes as they occur. Report operations or items of work separately, with manpower and equipment assigned to each operation separately. Detail inspection results, including deficiencies observed and corrective actions taken. Complete a CDR for each contractor and subcontractor working that day.

When submitting test results 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.

Enter the following data into EEBACS:

(1) Subcontractors data.

(2) Labor/Equipment.

(a) All manpower and equipment, including contractor and subcontractors. Complete all data fields.

(b) Labor: Type/classification, move-in date, move-out date, hourly rate, the contractor or subcontractor, and name.

(c) Equipment: Type/classification, move-in date, move-out date, make, model, and year of equipment manufacture.

Certify all CDR’s using the following statement:

“I certify that the information contained in this record is accurate and that work documented herein complies with the contract. Exceptions to this certification are documented as a part of this record.”

Submit certified CDR’s that have been signed by a person who has both responsibility for the inspection system and signature authority.

Submit the record and certification within 24 hours of the work being performed. If the CDR is incomplete, in error, or otherwise misleading, the CDR will be rejected and returned within EEBACS with corrections noted. Correct rejected CDRs and resubmit the revised CDR within 24 hours. When chronic errors or omissions occur, correct the procedures by which the records are produced.

153.08 Acceptance. Add the following:

Performance of the work may be stopped according to Subsection 108.05, either in whole or in part, for failure to comply with the requirements of this Section. The Government may charge to the Contractor the cost of any additional inspections required when the work being inspected is found not to comply with contract requirements during the initial inspection. Work stop orders, due to recurring deficiencies of work required by this Section, will be rescinded after the Contractor demonstrates to the CO that changes were made to the quality control plan and system which resulted in the correction of those deficiencies. There will be no adjustment in the contract time, or payments to the Contractor for any impacts, delays or other costs due to any periods of work stoppage resulting from failure to comply with the requirements of this Section.

EEBACS electronic documentation will be evaluated under Subsection 106.02.

153.09 Measurement and Payment. Delete the text and substitute the following:

Measurement

153.09 Measure contractor quality control according to Subsection 109.02.

Do not measure EEBACS electronic documentation for payment.

Payment

153.10 The accepted quantities will be paid at the contract price per unit of measurement for the Section 153 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Progress payments for Contractor quality control will be paid as follows:

- (1) 25 percent of the item amount, not to exceed 0.5 percent of the original contract amount, will be paid after the contractor quality control plan is accepted; all testing facilities are in place; qualified quality control supervisor, inspection, and sampling and

testing personnel are in position to provide quality control activities; and the work being inspected or tested has started.

(2) 65 percent of the total lump sum will be prorated for payment based on the completed portion of the total work not including the original 25 percent completed under (1) above.

(3) Payment of the remaining 10 percent of the lump sum will be paid when all inspections, test results, submittals, and reports are complete and accepted.

Section 154. — CONTRACTOR SAMPLING AND TESTING

Construction Requirements

154.03 Sampling. Add the following:

Perform the initial curing of all concrete test cylinders. Provide for transporting the government verification 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.

154.04 Testing Add the following:

Where Process Control Sampling and Testing frequencies are identical to the Sampling, Testing, and Acceptance Tables at the end of each Section for all applicable work, the Process Control Samples may be used for acceptance.

154.04B 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

155.04 Preliminary Construction Schedule.

Add the following:

(j) A list of the permits required for the contract. See Section 107.

155.05 Initial and Baseline Construction Schedule.

Delete (a) (1) (c) and substitute the following:

(c) Show activities in the order the work will be performed, including submittals, submittal reviews, permit applications, permit reviews, fabrication, and delivery.

Delete the second sentence of (b) (2) (g) and substitute the following:

Non-construction activities include mobilization, drawing and sample submittals by pay item number, permit applications, and the fabrication and delivery of key material.

Add the following to the end of (b) (2) (g):

Refer to the permitting agencies to determine an appropriate duration for permit application review, permit approval, and distribution of permits.

(f) Submission and approval. Add the following to the end of the second paragraph:

No progress payments will be made until an initial construction schedule is approved by the CO.

155.06 Baseline Schedule Updates. Delete the second paragraph and substitute the following:

Unless previously approved by the CO, changes to the construction schedule for the work that is still to be completed, can only be changed with a Time Impact Analysis according to Subsection 108.03, and a Baseline Construction Schedule revision according to Subsection 155.07. Receipt of a baseline construction schedule update with negative float does not constitute agreement by the Government of the revised completion date.

Add the following:

(f) Working Schedule. At each construction progress meeting, provide the CO with a written summary detailing the work completed in the previous week and the proposed work activities for the following two weeks. Provide detail of proposed operations that will affect traffic flow, residents and businesses adjacent to the project. Provide the CO with a schedule revision if the written summary significantly differs from the baseline construction schedule or the latest construction schedule revision.

155.07 Baseline Schedule Revision. Delete the first paragraph and substitute the following:

Submit a time impact analysis when requesting approval of a baseline schedule revision. Submitting a proposed baseline schedule revision is not considered a notification of delay or of other basis for change. Continue to submit monthly schedule updates according to Subsection 155.06 until a baseline construction schedule revision is approved.

Section 156. — PUBLIC TRAFFIC

Construction Requirements

156.04 Accommodating Traffic During Work. Delete the first paragraph and substitute the following:

Accommodate traffic according to the MUTCD, contract traffic control drawings, Section 635, and this Section. Submit a traffic control plan for approval according to Subsection 104.03. Submit a traffic control plan at least 30 days before intended use.

156.05 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.

156.07 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 (3 meters).
For two-way traffic, provide a minimum roadway width of 22 feet (6.7 meters).

(i) Delete the text and substitute the following:

Limit construction-caused delays to public traffic to a maximum of 30 minutes per passage through the project including during winter shut down.

Add the following:

(j) Maintain access to residential properties on East Fork Road at all times

156.09 Traffic Control Supervisor. Delete the second sentence and substitute the following:

The superintendent may serve as the traffic control supervisor provided the requirements of Subsection 156.03 are met.

Section 157. — SOIL EROSION AND SEDIMENT CONTROL

Delete the Section and substitute the following:

Section 157. — SOIL EROSION CONTROL, SEDIMENT CONTROL, AND POLLUTION PREVENTION

Description

157.01 This work consists of preparing and managing a Stormwater Pollution Prevention Plan (SWPPP) including non-stormwater pollution prevention. This work also consists of implementing the SWPPP including but not limited to furnishing, constructing, and maintaining soil erosion and sediment control devices to eliminate or minimize pollutants in stormwater discharges from the project.

Material

157.02

Conform to the following Subsections:

Backfill material	704.03
Concrete masonry unit	725.07(c)

Fertilizer	713.03
Fiber rolls and socks	713.12
Floating turbidity curtains	713.21
Gravel bags	713.13
Mulch	713.05
Plastic lining	725.12
Prefabricated filter insert	713.20
Riprap	705.02
Rock mulch	705.07
Sandbags	713.14
Sediment filter bags	713.19
Seed	713.04
Separation and stabilization geotextile and geotextile filter	714.01(a)
Silt fence	713.16
Tackifiers	713.11(a)
Temporary culvert pipe	713.15
Temporary plastic fence	710.11
Temporary rolled erosion control products	713.17
Turf reinforcement mats	713.18
Water	725.01(b)

Construction Requirements

157.03 General. Develop, submit, and manage a Stormwater Pollution Prevention Plan (SWPPP) according to the Construction General Permit requirements for project location. Contract permits amend the requirements of this Section. Submit SWPPP to the CO at least 7 days prior to the Pre-construction meeting. Allow 14 days for CO review prior to submission to regulatory agency(ies).

When soil erosion and sediment pollution control measures are not functioning as intended, take immediate corrective action to eliminate or minimize pollutants in stormwater discharges from the project.

Additional product limitations may be included within contract requirements.

- 1) Provide certified weed free devices.
- 2) Do not use plastic netted fiber rolls or plastic netted rolled erosion control products.

157.04 Stormwater Team. Submit the following names and qualifications for approval 7 days prior to preconstruction meeting with SWPPP submittal:

- SWPPP Developer.
- Erosion Control Supervisor.
- On-Site Stormwater Lead.

Minimum Qualifications. Provide documentation that personnel meet the qualifications set forth in the Construction General Permit of the state(s) that the project is located in, or the qualifications below, whichever is more stringent.

(a) SWPPP Developer with the following qualifications:

- 1) Have completed 40 hours of stormwater management training.
- 2) Have 5 years of highway or equivalent experience developing stormwater pollution prevention plans and designing site specific best management practices.
- 3) Be registered or certified in the state(s) in which the project is located for at least one of the following:
 - a. Registered civil engineer with stormwater plan experience;
 - b. Registered professional geologist or engineering geologist with stormwater plan experience;
 - c. Licensed landscape architect with stormwater plan experience;
 - d. Registered professional hydrologist with stormwater plan experience;
 - e. Other state or nationally recognized certification program for erosion and sediment control professionals.

Erosion Control Supervisor with the following qualifications:

- 1) Have completed 24 hours of stormwater management training.
- 2) Have 3 years of highway or equivalent construction experience that included oversight of erosion, sediment, and pollution control best management practices; or
- 3) One of the following:
 - a. Meet requirements of SWPPP Developer above, or
 - b. be registered or certified as a stormwater inspector from a state or nationally recognized certification program for stormwater inspectors.

Stormwater Lead(s) with the following qualifications:

- 1) Have completed 8 hours of stormwater management training.
- 2) Have 1 years of highway construction experience including stormwater management duties.
or
- 3) One of the following:
 - a. Meet requirements of Erosion Control Supervisor, or
 - b. be registered or certified as a stormwater inspector from a state or nationally recognized certification program for stormwater inspectors, or
 - c. demonstrate equivalent training and experience if not certified.

Roles and Responsibilities. Furnish a Stormwater Team that is qualified to perform the following roles and responsibilities:

(b) SWPPP Developer. Develop and approve the Storm Water Pollution Prevention Plan

(SWPPP) for the project based on requirements in the Construction General Permit, contract plans, and specifications. Show construction phasing of erosion, sediment, and pollution prevention best management practices for all construction activities on a site plan to meet water quality regulations. Review field changes to determine if a SWPPP amendment is required. Provide amendments to the SWPPP when substantial changes are needed.

Erosion Control Supervisor. Implement the SWPPP, which includes but is not limited to scheduling installation and maintenance of all BMPs, job site inspections, and other activities for pollution prevention. Review all inspection reports and ensure that SWPPP and Site Plan are implemented and updated.

Stormwater Lead. Install or lead crew to install and maintain BMPs, conduct site inspections, water quality monitoring, reporting, and performing all on-site activities required to comply with the Construction General Permit. Inform the Erosion Control Supervisor when changes are made. The Stormwater Lead is required to be on the project site during working hours, and available during non-work hours to do inspections before, during, and after qualifying rain events.

157.05 Controls and Limitations on Work. Prior to the start of a construction activity, implement appropriate pollution prevention measures for the activity. No soil disturbing construction activity may begin on the project until the SWPPP has been reviewed and the NOI has been accepted by the permitting agency and is active.

157.06 Stormwater Pollution Prevention Plan (SWPPP). Prepare, submit, and implement a Construction Stormwater Pollution and Prevention Plan (SWPPP) following the SWPPP template of the state in which the project is located. If the state does not provide a template, follow the SWPPP template for Wyoming located at:

http://deq.wyoming.gov/media/uploads/swppp_template_2016_rev_fillable.pdf

The Wyoming Construction General permits are located at:

<http://deq.wyoming.gov/wqd/storm-water-permitting/resources/construction-general-permits/>

The Wyoming Construction General Permit expires on 2/01/2020, but will be administratively extended until a new permit is issued. When the new permit is issued, update the SWPPP to meet all new conditions of the permit.

Provide a SWPPP according to the Stormwater Construction General Permit (CGP) and the following manual: “The Stormwater Practitioners Guide by the Federal Highway Administration, Central Federal Lands Highway Division.” Provisions in the SWPPP are incorporated by reference into the contract. Provide an electronic copy of the SWPPP and obtain approval from

the CO prior to mobilization.

The Stormwater Practitioners Guide and Appendix A State Requirements is available at:
<https://highways.dot.gov/federal-lands/construction/cfl-stormwater-guide>

Based on the approved SWPPP, provide the CO a list of the planned pollution prevention devices for each of the following: erosion controls, sediment controls, and non-stormwater controls.

Implement the SWPPP as required throughout the construction period. Modify the erosion, sediment, and non-stormwater pollution control details and SWPPP plans as necessary to accommodate project site conditions and proposed construction operations. Update the SWPPP when modifying erosion, sediment, and non-stormwater pollution controls. Provide a copy of the updated SWPPP monthly to the CO for review.

157.07 Soil Erosion Control. Apply erosion control measures to stabilize soils and to control temporary concentrated flows throughout the duration of the project. Construct and maintain measures according to manufacturer's recommendations, the project requirements, and according to the following manual: "The Stormwater Practitioners Guide by the Federal Highway Administration, Central Federal Lands Highway Division."

157.08 Sediment Control. Apply sediment control measures to intercept, slow and detain the flow of stormwater throughout the duration of the project. Construct and maintain measures according to manufacturer's recommendations, the project requirements, and according to the following manual: "The Stormwater Practitioners Guide by the Federal Highway Administration, Central Federal Lands Highway Division."

157.09 Non-Stormwater Controls. Apply non-stormwater measures as needed and as required in the SWPPP to control non-stormwater discharges, and to prevent or limit potential pollutants at their source from contact with stormwater throughout the duration of the project. Construct and maintain measures according to manufacturer's recommendations, the project requirements, and according to the following manual: "The Stormwater Practitioners Guide by the Federal Highway Administration, Central Federal Lands Highway Division."

157.10 Schedule of Values. Based on the approved SWPPP, prepare separate quantity take-offs for estimating erosion controls, sediment controls, and non-stormwater controls. Submit to the CO a proposed schedule of values for the Erosion Control lump sum item. Include in the proposed schedule of values the estimated quantities and cost of: furnishing and installing BMPs, inspection and reporting requirements, maintenance of BMPs, and the removal of BMPs if applicable. The CO and Contractor will agree on a payout schedule for the lump sum item based on the schedule of values and in some cases a cost-loaded CPM schedule. If updates to the SWPPP affect the quantity or type of items in the schedule of values, submit to the CO proposed revisions to the schedule of values to reflect the changes and request approval of a revised payout schedule.

157.11 Acceptance. Material for erosion, sediment, and non-stormwater pollution control

measures will be evaluated under Subsections 106.02 and 106.03.

Construction, maintenance, and removal of erosion control, sediment control, and non-stormwater controls will be evaluated under Subsections 106.02 and 106.04.

Separation and stabilization geotextile and geotextile filter will be evaluated under Section 207.

Measurement

157.12 Measure the Section 157 pay items listed in the bid schedule according to Subsection 109.02.

Do not measure replacement erosion, sediment, or non-stormwater pollution control measures.

Do not measure additional or changed erosion, sediment, or non-stormwater pollution control measures required when planned controls are not functioning as intended and corrective actions are taken, unless the CO has approved a revised schedule of values and payout schedule.

Payment

157.13 The accepted quantities will be paid at the contract price per unit of measurement for the Section 157 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Progress payments for SWPPP will be paid as follows:

- 1) 25 percent of the pay item amount will be paid on the approval of the SWPPP by the CO and upon receipt of authorization from the permitting agency that the project permit is active.
- 2) An additional 50 percent of the pay item amount will be prorated based on total work completed.
- 3) The remaining portion of the pay item amount will be paid when a copy of the final SWPPP and all accompanying documentation is submitted and accepted by the CO.

Progress payments for erosion control, sediment control and non-stormwater control will be paid as follows:

- 1) 25 percent of the pay item amount will be paid upon installation of planned temporary controls based on the agreed upon schedule of values.
- 2) An additional 50 percent of the pay item amount will be prorated based on total work complete.
- 3) The remaining portion of the pay item amount will be paid when temporary controls are removed or at final acceptance.

Section 203. — REMOVAL OF STRUCTURES AND OBSTRUCTIONS**Construction Requirements****203.05 Disposing of Material.**

(a) **Remove from Project.** Add the following:

Secure clearances according to Subsection 107.10.

(b) **Burn.** Delete the subsection.

(c) **Bury.** Delete the subsection.

Section 204. — EXCAVATION AND EMBANKMENT**Description**

204.01. Add the following: Construct roadway Diversion embankment from station 52+25 to 53+25 (stream crossing) with Granular Backfill.

Materials

204.03. Add the following:

Granular Backfill

703.03(c)

Construction Requirements

204.05 Conserved Topsoil. Delete the first sentence and substitute the following:

Conserve topsoil from the roadway excavation and from embankment foundation areas as shown in the plans or as directed by the CO.

204.14 Disposal of Unsuitable or Excess Material. Add the following:

Secure environmental clearances according to Subsection 107.10(d).

Measurement

204.16**(c) Embankment construction.** Delete the text and substitute the following:

Measure embankment construction in its final position. Do not make deductions from the embankment construction quantity for the volume of minor structures. Do not measure embankment construction necessary for installation of roadway diversion, see Section 650.

(1) Include the following volumes in embankment construction:

- (a) Roadway embankments;
- (b) Material used to backfill holes, pits, and other depressions; and
- (c) Material used for dikes, ramps, mounds, and berms.

(2) Do not include the following volumes in embankment construction:

- (a) Preparing foundations for embankment construction;
- (b) Adjustments for subsidence or settlement of the embankment or of the foundation on which the embankment is placed;
- (c) Material used to round fill slopes;
- (d) Material used to backfill subexcavated areas; and
- (e) Material used to restore obliterated roadbeds to original contours.

Section 211. — ROADWAY OBLITERATION**Description****211.01 (a) Method 1.** Add the following:

Blend obliteration areas into the adjacent natural ground along the horizontal and vertical planes by gradually transitioning obliteration slopes to remove noticeable breaks.

Section 253. - GABIONS AND REVET MATTRESSES**Material****253.02** Add the following:

Select granular backfill

704.08

Construction Requirements

253.03 General. Delete the first sentence and substitute the following:

Survey according to Section 152 and verify the limits of the structure.

253.05 Structure Erection. Add the following to the first paragraph:

For gabion structures, grade the foundation for a width equal to the width of the gabion plus 2 feet (0.6 meters). Where gabions are set on rocky foundations, place 6 inches (150 mm) of select granular backfill under the baskets.

Section 257. — CONTRACTOR-DESIGNED RETAINING STRUCTURES**Description**

257.01 This work consists of designing various types of retaining structures, including walls, reinforced soil slopes, and rockeries.

Material**257.02 Conform to the following Sections:**

Driven piles	551
Gabions	253
GRS retaining wall	262
Micropiles	567
Minor concrete	601
MSE walls	255
Permanent ground anchors	256
Reinforced concrete retaining walls	258
Reinforced soil slopes	261
Reinforcing steel	554
Rockery	252
Soldier pile retaining wall	263
Soil nail retaining walls	259
Structural concrete	552

Construction Requirements

257.03 Qualifications. Provide information from potential suppliers for review and evaluation of wall components and proprietary systems. Allow 10 days for review and evaluation and an additional 7 days for re-submittals.

Provide the following information:

- (a) Examples of at least 3 similar retaining structure designs, which have been successfully constructed, and are providing acceptable in-service performance. Include the name, address, and telephone number of an owner contact person;
- (b) Photos of existing walls with narrative descriptions;
- (c) Advantages, limitations and constraints of the proposed wall system;
- (d) Details of wall elements and a step-by-step construction sequence; and
- (e) Document compliance with specified design guidelines.

257.04 Submittals. Submit the following according to Subsection 104.03:

(a) Plan and elevation drawings for each structure containing the following:

(1) A plan view of the structure showing:

- (a)* Horizontal offset from the construction centerline to the face of the structure at defining points along the base, including start and end stations;
- (b)* Location, length, coverage ratio, and type of reinforcement/anchorage as applicable (such as strip, mesh, grid, geosynthetic fabric, anchor);
- (c)* Centerline and size of drainage structures, drainage pipe, and other utilities behind, passing through, or passing under the structure; and
- (d)* Location, length and offset from the face of wall to guardrail or guardwall features or parapet structures;

(2) An elevation view of the structure showing:

- (a)* Elevation and station at horizontal and vertical break points and at least every 50 feet along the top of the structure at the face;
- (b)* Elevation and station at the top of leveling pads and footings, at the top and tip of piling, and at least every 50 feet along the structure base;
- (c)* Length and type of reinforcement, anchorage, structure module, and lagging;
- (d)* Distance and elevation along the structure face to all steps in the base, footings, leveling pads, or lagging;
- (e)* Distance along the structure face to where changes in reinforcement or anchor lengths occur;
- (f)* Construction joints; and
- (g)* Original and final ground-line;
- (h)* 1H:1V scale; and
- (i)* Location, length, minimum slope for drainage, and type of structure underdrain system.

(3) A typical cross-section view showing:

- (a)* Type and depth of facing elements and structural connections to reinforcing and anchorage elements;
- (b)* Structure batter or face slope;

- (c)* Length, spacing, and type of reinforcement, anchorage, structure module and corresponding limits of excavation, and reinforced fill placement zones;
 - (d)* Location of guardrail or guardwall features or parapet structures, including embedment depths, offset from structure facing, and connection details with structure reinforcement/anchorage, including blockouts or other provisions to prevent damage to wall elements during guardrail construction;
 - (e)* Original and final ground-line, including right-of-way limits; and
 - (f)* Estimated or known location of subsurface soil and rock units.
- (4)** General construction notes;
- (5)** Horizontal and vertical curve data affecting the structure, including match lines or other details to relate structure stationing to centerline stationing; and
- (6)** Material list and summary of quantities. Include the gradation for facing rock or unit fill. Facing rock should be sufficiently sized to prevent migration of the rock through the facing basket for the chosen wall system. Unit fill should be sufficiently sized to prevent migration between the blocks, be readily compacted, and free draining.
- (b)** Dimensions and schedules of reinforcing steel including reinforcing bar bending details, dowels, studs, or both for attaching the facing;
- (c)** Details and dimensions for foundations and leveling pads including steps in the footings or leveling pads;
- (d)** Details and dimensions for:
- (1)** Panels, modules, soldier piles, and lagging necessary to construct the structure;
 - (2)** Reinforcing steel in structural elements;
 - (3)** Details of proposed splices in reinforcements;
 - (4)** Location of mesh, strip attachment, or anchor devices embedded in facing panels; and
 - (5)** Anchors and soldier piling including the spacing and size of piles and the spacing and angle of anchors.
- (e)** Details for the installation of structure drainage features, including strip, sheet, edge, blanket and underdrain systems, and associated piping;
- (f)** Details for constructing structures around drainage features, utilities, lighting foundations, traffic barriers, and other obstructions;
- (g)** Details for terminating structures and adjacent slope construction;
- (h)** Architectural treatment details;

- (i) Design notes including a description of symbols, terminology, and computer programs used in the design of the structure; specify the bearing pressure beneath the structure footing, stabilized earth mass, or soldier piles;
- (j) Verification of design criteria and soil, rock and reinforcement parameters for each structure; include results from creep, durability, construction induced damage, and junction strength tests as applicable; and
- (k) Design calculations, including assessment of temporary excavation stability and internal and external stability of earth retaining structures and reinforced soil slopes. Include joint, splice, and facing connection capacity calculations. Include the relevant references used for design.

Include a checklist showing each of the items specified in these requirements have been addressed in the design. Submit 1 digital set or 3 physical sets of drawings and calculations signed and stamped by a professional engineer licensed to practice in the state where the project is located. One set will be returned with corrections if necessary. If revisions are required, make corrections and resubmit in the same manner.

257.05 General.

The designer/supplier providing the proposed retaining wall is responsible for the stability of the structure. Do not qualify the responsibility for the design or restrict the use of the drawings or calculations for the proposed alternate. Indemnify the Government from claims for infringement of proprietary rights by others without the consent of the patent holders or licensees.

Verify the limits of structure installation.

Arrange and conduct a pre-design conference following selection of the structure designer/supplier and before design work starts to discuss structure selection, constructability, design parameters, methods and limitations. Include the CO, subcontractors, supplier, and the supplier's design engineer.

257.06 Design and Construction.

Unless otherwise stated, design retaining structures according to the current version AASHTO LRFD Bridge Design Specifications. Design and construct walls according to the approved drawings, and the following as applicable:

- (a) **Gabions.** Construct according to Section 253.
- (b) **MSE walls.** Construct according to Section 255.
- (c) **Permanent ground anchors.** Construct according to Sections 256 and 552.
- (d) **Reinforced concrete retaining walls.** Construct according to Section 258.
- (e) **Soil nail retaining walls.** Construct according to Section 259.

(f) Reinforced soil slopes. Design according to FHWA-NHI-10-025 “Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes – Volume II”. Construct according to Section 261.

(g) Micropiles. Construct according to Section 567.

(h) Soldier pile retaining walls. Construct according to Section 263.

(i) GRS retaining walls. Design according to FHWA-HRT-17-080 “Design and Construction Guidelines for Geosynthetic Reinforced Soil Abutments and Integrated Bridge Systems”. Construct according to Section 262.

(j) Rockery. Design according to Rockery Design and Construction Guidelines, FHWA-CFL/TD-06-006, November 2006. Construct according to Section 252.

Update drawings when plan dimensions are revised due to field conditions or for other reasons.

257.07 Acceptance.

Design of the retaining structures will be evaluated under Subsection 106.02 and the applicable Sections listed in Subsection 257.06.

Measurement

257.08 Measure the Section 257 pay items listed in the bid schedule according to Subsection 109.02.

Payment

257.09 The accepted quantities will be paid at the contract price per unit of measurement for the Section 257 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

Progress payments for Contractor-designed retaining walls will be paid as follows:

(a) 50 percent of the pay item amount will be paid when the design submittal is approved.

(b) An additional 25 percent of the pay item amount will be paid when 50 percent of the retaining wall construction is complete.

(c) The remaining portion of the pay item amount will be paid when 100 percent of the retaining wall construction is complete.

Section 302. — MINOR CRUSHED AGGREGATE

302.06 Acceptance. Add the following to the second paragraph:

Sample material at the frequency shown in Table 302-1. Materials that do not meet the approved certification will be considered unacceptable.

Delete Table 302-1 and substitute the following:

**Table 302-1
Sampling, Testing, and Acceptance Requirements**

Material or Product (Subsection)	Type of Acceptance (Subsection)	Characteristic	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time	Remarks
Production								
Crushed aggregate ⁽¹⁾	Measured and tested for conformance (106.04)	Moisture-Density	AASHTO T 180, Method D ⁽³⁾	1 per aggregate supplied	Production output or stockpile	Yes	Before using in work	—
		Gradation ⁽²⁾	AASHTO T11 and T27	1 per 500 tons (450 metric tons)	From the windrow or roadbed after processing.	Yes	Before placing next layer	
		Density	AASHTO T310 or other approved procedures	1 per 500 tons (450 metric tons)	In-place after compaction	No	Before placing next layer	For Method 2 compaction only
Crushed aggregate	Process control (153.03)	Moisture content (in-place)	AASHTO T310 or other approved procedures	1 per 500 tons (450 metric tons)	In-place after compaction	No	Before placement of next layer or as requested	—
Finished Product								
Crushed aggregate	Measured and tested for conformance (106.04)	Surface tolerance & grade	Subsection 301.06	Determined by the CO	Surface of final course	No	Before placement of next layer or as requested	—

⁽¹⁾ Sampling and testing required for roadway aggregate.

⁽²⁾ Use only sieves indicated for the specified gradation.

⁽³⁾ Minimum of 5 points per proctor.

Section 552. — STRUCTURAL CONCRETE

Material

552.02 Add the following:

Precast concrete units and accessories

725.09

Construction Requirements

552.03 Composition (Concrete Mix Design). Delete the first two paragraphs and substitute the following:

Design and produce concrete mixtures that conform to Tables 552-1, 552-2, and 552-3 as required for the class specified.

Submit concrete mix designs on FHWA Form 1608, *552 Structural Concrete Mix Design Submittal* and determine the required average concrete compressive strength (f_{cr}) with $\bar{X} \geq f_{cr}$.

Delete the first sentence of the third paragraph and substitute the following:

Verify mixture design with trial mixes from proposed sources or with previous concrete production data for the mixture design submitted from proposed sources.

(w) Delete the paragraph and substitute the following:

Specified design strength (f'_c) and required average concrete compressive strength (f'_{cr}) for the concrete mixture at 28 days as determined by the process and associated calculations outlined on FHWA Form 1608, pages 4 and 5. Pending 28-day strength results, a mix design may be approved on the basis that 7-day compressive strength results meet or exceed 85 percent of the required average strength (f'_{cr}) at 28 days;

552.09 Quality Control of Mix. Add the following:

Prosecution of work: At least 2 weeks prior to the start of concrete placement operations, arrange a pre-concrete placing conference. Coordinate attendance with the CO and any applicable subcontractors. Be prepared to discuss and/or submit the following:

- (1) Proposed concrete placement schedule.
- (2) Review approved concrete mix design and determination of batch weights.
- (3) Discuss Section 153, Contractor Quality Control and the minimum frequency schedule for process control sampling and testing (to be performed by the Contractor).
- (4) Discuss batching, mixing, placing, and curing requirements.
- (5) Discuss Subsections 106.03, Certification, and 106.05, Statistical Evaluation of Material for Acceptance.

552.11 Handling and Placing Concrete.

(e) **Underwater placement.** Delete line (1) and substitute the following:

(1) Tremies. Use watertight tremies, with a diameter sufficient to ensure that aggregate-induced blockages will not occur. Use multiple tremies as required. Make tremies capable of being rapidly lowered to retard or stop the flow of concrete.

Seal the discharge end and fill the tremie tube with concrete at the start of concrete placement. Keep the tremie tube full of concrete to the bottom during placement. If water enters the tube, withdraw the tremie and reseal the discharge end. Maintain continuous concrete flow until the placement is completed.

Section 555. — STEEL STRUCTURES

Construction Requirements

555.07 Fabrication. Delete the text of the first sentence of the first paragraph and substitute the following:

Fabricate the structural steel in a fabricating plant that is certified in Cbr (Major Steel Bridges), under the AISC Quality Certification Program.

555.18 Erection. Delete the text of the second sentence of the first paragraph and substitute the following:

Erect steel according to category CASE (Certified Advanced Steel Erector) under the AISC Quality Certification Program.

Section 602. — CULVERTS AND DRAINS

Description

602.01 Add the following:

This work also consists of embedding diversion culverts a minimum of 1-foot below the stream bottom and backfilling with streambed material.

Measurement

602.09 Add the following:

Do not measure embedding and backfilling diversion culverts for payment.

Section 617. — GUARDRAIL**Description****617.01**

(a) Add the following:

MGS — Midwest Guardrail System (MGS)

(d) Add the following:

MGS Flared	- Straight flared MGS W-beam terminal
MGS Tangent	- Tangent MGS W-beam terminal
SBL-FAT	- Flared SBL anchor terminal

Construction Requirements

617.03 General. Add the following:

Use tangent terminals meeting MASH Test Level 2. When proprietary terminals are required, submit the installation manual from the manufacturer for the terminal, including inspection checklists.

617.04 Post Installation. Delete the fifth and sixth paragraphs and substitute the following:

When a post cannot be placed at its normal location due to an impenetrable object an additional blockout may be added. If the post cannot be offset, follow the post in rock detail, the long span detail, or omit a post as shown in the plans.

Use the post length as shown in the plans. Do not change the post length or spacing in terminal sections.

617.07 Connection to Structure. Add the following:

Do not change the post length or spacing in structure transition rail sections.

Section 619. — FENCES, GATES, CATTLE GUARDS AND BOLLARD POSTS**Material**

Add the following:

Buck and Pole Fence

710.04(a)

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 furnishing qualified personnel to perform technical work ordered by the CO and not otherwise provided for under the contract.

Construction Requirements

623.02 Workers and Equipment. Furnish competent workers and appropriate hand tools for the work. Provide a crew of sufficient size and qualifications necessary to accomplish the required surveying services within acceptable tolerances.

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.

623.03 Surveying Services. Furnish personnel, equipment, and material that conform to the requirements of Subsection 152.01. Survey according to Section 152.

Survey and establish controls within the tolerances shown in Table 152-1, or within other tolerances as established by the CO.

Prepare field notes in an approved format. Furnish calculations. All field notes, supporting documentation, and calculations become the property of the Government upon completion of the work.

623.04 Technical Services. Furnish qualified engineering personnel experienced in highway construction and design, capable of performing in a timely and accurate manner. Provide personnel with a minimum of NICET Level II certification in highway design and construction, or State (SHA) or industry certification-related design and construction equivalent to their intended responsibilities. Personnel with 2 years or more of recent job experience in the type of highway design and construction provided for under the contract may be used in lieu of certifications. Provide the names and relevant experience of all personnel. Furnish supporting tools and equipment (e.g., calculator, computer, and software, and appropriate and commonly-used drafting tools for the assigned task).

All calculations, notes, and supporting documentation become the property of the government upon completion of the work.

623.05 Acceptance. General labor work will be evaluated under Subsection 106.02.

Additional surveying services will be evaluated under Section 152.

Hired technical services will be evaluated under Subsections 106.02 and 106.04

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.

Measure surveying service by the crew hour regardless of crew size. Do not measure time spent in making preparations, performing calculations, plotting cross-sections, processing computer or other data, and other efforts necessary to successfully accomplish the ordered survey services.

Do not measure time for worker's transportation 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 processing computer or other 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 625. — TURF ESTABLISHMENT

Construction Requirements

625.03 General. Delete the first sentence and substitute the following:

Apply turf establishment between the time frost leaves the ground in the spring and June 15, or September 1 and before frost enters the ground in the fall.

Measurement

625.11 Delete the second sentence and substitute the following:

When measuring turf establishment and supplemental applications by the acre (hectare) or square yard (square meter), measure on the ground surface.

Section 629. — ROLLED EROSION CONTROL PRODUCTS AND CELLULAR CONFINEMENT SYSTEMS

Construction Requirements

629.05 (a) Slope Installations. Delete the text and substitute the following:

(a) Slope Installations. At the top of the slope, anchor the RECP by using an anchor trench.

(1) Anchor trench. Construct a 6- by 6-inch (150- by 150-millimeter) trench. Extend the upslope terminal end of the RECP 36 inches (900 millimeters) past the trench. Use staples on 12-inch (300-millimeter) centers to fasten the RECP into the trench. Backfill the trench and compact the soil. Secure the terminal end with a single row of staples on 12-inch (300-millimeter) centers and cover the end with soil. Apply turf establishment to trench.

Securely fasten all RECP to the soil by installing staples according to the manufacturer's recommendations.

Section 635. — TEMPORARY TRAFFIC CONTROL

Description

635.01 Delete the second paragraph and substitute the following:

Arrow board, portable changeable message sign, barricade, and warning light types are designated in the MUTCD.

Material

635.02 Delete the Subsection and substitute the following:

635.02 Conform to the MUTCD and the following Sections and Subsections:

Concrete barrier (temporary)	618
Delineator and object marker retroreflectors	718.08
Guardrail (temporary)	617
Retroreflective sheeting	718.01
Sign panels	718.03
Sign posts	718.04
Sign hardware	718.06
Temporary plastic fence	710.11
Temporary pavement markings	718.16

Construction Requirements

635.07 Construction Signs. Delete the first paragraph and substitute the following:

Fabricate and install sign panels according to Subsection 633.05. Use Type III, IV, VIII, IX, or XI prismatic retroreflective sheeting. Use fluorescent sheeting for orange signs. For roll-up signs, use fluorescent Type VI retroreflective sheeting.

Add the following:

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

Use crashworthy posts within the traversable area adjacent to traffic.

Measurement

635.24Delete the second paragraph and substitute the following:

When measuring temporary traffic control pay items, measure only one time even if relocated or replaced.

Add the following Section:

Section 650. – CONSTRUCT AND MAINTAIN DIVERSION

Description

650.01 This work consists of constructing and maintaining a roadway diversion, as shown on the plans, or as directed by the CO. This work also includes maintaining erosion and sediment control devices, temporary traffic control, and implementing stream diversion. Removing the diversion is defined as returning the diversion subgrade to the pre-construction elevation and applying seed and mulch to disturbed areas, except in areas where overlap with mainline fill construction occurs. In areas where overlap occurs, remove excess material to achieve mainline subgrade of fill slopes.

Material

650.02 Conform to the following Subsections:

Minor crushed aggregate	302
Culverts and drains	602
Seed and mulch	625

Granular Backfill
Water

703.03(c)
725.01

Construction Requirements

650.03 General. Submit Diversion plan to the CO for approval. See Subsection 107.10 (e) for environmental commitments. Construct roadway diversion to at least the minimum dimensions as shown on the plans, unless otherwise directed by the CO. Complete construction of the diversion prior to use by public traffic. The design speed is 25 miles per hour.

Maintain erosion and sediment control devices according to Section 157.

Divert the stream flow as necessary. Install Contractor selected drainage structure(s) to pass the Q2 flow (500cfs) as approved by the CO. Install pipe culverts and box culverts according to Section 602.

Conserve topsoil according to Section 624.

Construct embankments according to Section 204. Use Granular Backfill for embankment construction from station 52+25 to 53+25 (stream crossing).

Maintain temporary traffic control according to Section 635.

650.04 Maintenance. Maintain the diversion the entire time it can be used for one-way public traffic. Maintain a roadway surface of similar quality as the existing roadway. Maintain all erosion control and temporary traffic control devices.

650.05 Removal. Remove the diversion once the mainline is open to the public and can accommodate one-way traffic. Remove the diversion according to Section 211. Place conserved topsoil, seed and mulch disturbed areas according to Section 625.

650.06 Acceptance. Constructing and maintaining the roadway diversion will be evaluated under Subsection 106.02.

Measurement

650.07 Measure the Section 650 items listed in the bid schedule according to Subsection 109.02.

Except for temporary erosion control and temporary traffic control items, do not measure individual items required to construct, maintain, and remove the roadway diversion for payment.

Payment

650.08 The accepted quantities will be paid at the contract price per unit of measurement for the Section 650 pay item listed in the bid schedule. Payment will be full compensation for the work prescribed in this section. See Subsection 109.05.

Progress payments will be paid as follows:

- (a) 25 percent of the item amount, not to exceed 0.5 percent of the original contract amount, will be paid after the diversion is installed and open to public traffic.
- (b) 50 percent of the item amount, will be paid for the remaining portion of the item amount will be prorated based on the total work completed.
- (c) The remaining 25 percent of the item amount, will be paid for the removal and restoration of the diversion.

Payment for all or part of this item may be retained if the diversion is not adequately maintained or removed.

Section 703. — AGGREGATE

703.01 Add the following:

703.01 Fine Aggregate for Concrete.

- (c) Sand equivalent value, AASHTO T 176, 75 min.
Alternate Method No. 2

703.03 Granular Backfill. Add the following:

- (c) **Embankment for stream crossing.** Furnish granular backfill conforming to AASHTO M80, Class E and AASHTO M43, Size Number 3, 4, 5, 57, 67 or 7.

703.06 Crushed Aggregate. Add the following to the end of the paragraph:

When aggregate is used as a surface course, furnish an aggregate with a Plasticity index (AASHTO T 90) conforming to Table 703-3a.

Table 703-3a
Surface Course Gradation and Plasticity Index

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T 27 and T 11)
¾ inch (19 mm)	100
No. 4 (4.75 mm)	41-71
No. 40 (425 µm)	12-28
No. 200 (75 µm)	5-20
Plasticity Index (PI)	4-12

Section 704. – SOIL**704.04 Structural Backfill.** Delete line (c) and add the following:

- | | |
|---|---------|
| (c) Plastic index, AASHTO R 58 and T 90 | 6 max. |
| (d) Liquid limit, AASHTO R 58 and T 89 | 30 max. |

704.07 Select Borrow. Delete line (b) and add the following:

- | | |
|---|---------|
| (b) Liquid limit, AASHTO R 58 and T 89 | 30 max. |
| (c) Plastic index, AASHTO R 58 and T 90 | 6 max. |

704.08 Select Granular Backfill.**(a) Quality requirements.** Delete lines (2) and (4) and substitute the following:

- | | |
|---|----------|
| (2) Peak shear maximum angle of internal friction
on the portion passing the No. 4 sieve, AASHTO T 236 | 34° min. |
| (4) Plastic index, AASHTO R 58 and T 90 | 6 max. |

(a) Quality requirements. Add line (6):

- | | |
|--|---------|
| (6) Liquid limit, AASHTO R 58 and T 89 | 30 max. |
|--|---------|

Section 710. — FENCE AND GUARDRAIL**710.04 Fence Posts and Bollards.****(a) Wood.** Add the following:

For Buck and Pole fence use wood treated with alkaline copper quaternary (AQC), copper boron azol (CBA), or equivalent; or untreated Cedar may also be used.

710.06 Rail Elements.**(a) Metal beam rail.** Delete the first sentence and substitute the following:

Furnish metal beam rail conforming to the Task Force 13 *Guide to Standardized Roadside Safety Hardware*.

710.07 Guardrail Posts. Delete the first sentence and substitute the following:

Furnish guardrail posts conforming to the Task Force 13 *Guide to Standardized Roadside Safety Hardware*.

710.10 Guardrail Hardware. Delete the first sentence and substitute the following:

Furnish hardware conforming to the Task Force 13 *Guide to Standardized Roadside Safety Hardware*.

Add the following:

Furnish a flexible hinged guardrail delineator which allows the reflector to fold down and spring back to an upright position after impact. Furnish retroreflective sheeting conforming to ASTM D4956, including supplementary requirements. Use type IV or XI retroreflective sheeting permanently adhered to 0.090-inch minimum thick body.

Section 713. — ROADSIDE IMPROVEMENT MATERIAL

713.04 Seed. Add the following:

Use the following seed mix:

Table 625-1

Name of Seed	Seeding Rate
	Pounds per 1 Acre
Tall Fescue (Endophyte-Free)	9
Smooth Brome	8
Slender Wheatgrass	5
Orchardgrass	2
Tetraploid Perennial Rye	1
Total Seed	25

713.16 Silt Fence. Delete Subsection (a) and substitute the following:

(a) **Geotextile.** Conform to Table 8 of AASHTO M 288.

Section 718. — TRAFFIC SIGNING AND MARKING MATERIAL

718.01 Retroreflective Sheeting. Add the following:

Furnish fluorescent type sheeting for all signs and all devices specifying an orange or a yellow background.

Section 725. — MISCELLANEOUS MATERIAL

725.04 Pozzolans. Delete line (a) and substitute the following:

(a) Fly ash. Conform to AASHTO M 295 Class C or Class F. When used to mitigate alkali-silica reactivity, also available alkalies as equivalent Na ₂ O	4.5 percent max
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