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SPECIAL PROVISIONS

CONTRACT NO. 10426

Backsfed.011626

STATE OF MONTANA DEPARTMENT OF TRANSPORTATION BID PACKAGE

Sealed bids for construction of this project will be received by the Montana Department of Transportation, Construction Contracting Section, Room 101, 2701 Prospect, Helena, Montana until 9:00 a.m. on April 30, 2026. All bids will then be publicly opened, reviewed for correctness, and then publicly read.

Federal Aid Project(s):

STPS STWD(743)

S-238/S-300 Ryegate

Bid proposals, Plans, Standard Specifications, Detail Drawings, and Standard Contract Forms are on file for examination and may be obtained from the Construction Contracting Bureau of the Montana Department of Transportation, 2701 Prospect Avenue, P.O. Box 201001, Helena, Montana 59620-1001.

Prime bidders use the Electronic Bid System or bid on-line through Bid Express to produce a bid containing Proposal Forms, Schedule of Items, and Disadvantaged Business Enterprises (DBE) Requirements (if applicable).

**CONTRACT #10426
AWARDED ON: MAY 12, 2026
TO: FACTION CONSTRUCTORS, LLC**

MONTANA DEPARTMENT OF TRANSPORTATION

Loran Frazier, Chairperson
Montana Transportation Commission

Christopher Dorrington
Director of Transportation

Contract No.10426
GL:KH:9800000AWD

CURRENT QUESTIONS & ANSWERS

201 - S-238/S-300 RYEGATE - April 30, 2026

Notifications

No Notices available for this project.

Amendments

No Amendments available for this project.

Clarifications

No Clarifications available for this project.

Questions

-1-

Submitted: Friday 10-APR-2026 03:09 PM

Company: Knife River

Contact: Van Hildreth

Special Provision #36 is Calcium Chloride. Measurement and Payment is indicated to be Misc Item A. Bid form has Item A at 77 lbs Special Provision #37 is Dustpods. Measurement and Payment is indicated to be Misc Item B. Bid form has Item B at 1,438,387 lbs Shouldn't the items be reversed? (Dustpods Measurement and Payment to be Misc Item A, 77 lbs)

Answer

Submitted: Friday 17-APR-2026 11:31 AM

Polymer Stabilization is Bid Item 104 030 090 - MISCELLANEOUS ITEMS A – LB.

Calcium Chloride Stabilization is Bid Item 104 030 095 - MISCELLANEOUS ITEMS B – LB.

Special Provision No. 36, CALCIUM CHLORIDE STABILIZATION, is hereby updated:

CALCIUM CHLORIDE STABILIZATION (See end of Q&A)

Special Provision No. 37, POLYMER STABILIZATION, is hereby updated: **POLYMER STABILIZATION (See end of Q&A)**

-2-

Submitted: Wednesday 22-APR-2026 05:07 PM

Company: Knife River

Contact: Van Hildreth

Special Provision 36. Calcium Chloride Stabilization 5. Mixing and Placement Please provide equipment specifications for what is intended as a "central plant pugmill mixer".

Answer

Submitted: Friday 24-APR-2026 08:08 AM

Special Provision 36 references the same equipment that is required in 301.03.5B for surfacing aggregates. Plan to pugmill the material as you would any MDT surfacing aggregate.

-3-

Submitted: Friday 24-APR-2026 11:10 AM

Company: Mountain West Holding Company

Contact: Chris Connors

The project is requesting a Cable Rail system for the shoulders over Big Coulee Cr at Sta 754+50. I do not see where a minimum deflection requirement is called out to determine the post spacing through the run. It does show a post spacing of 7'-0" for the 3 posts over the culvert which equates to a 8ft deflection system. Does the Department want to continue with a cable system over the culvert that has 8ft of deflection but only 2ft of clearance to the drop off of the culvert? Beyond the culvert, the shoulder widths and steep drop offs will also fall outside of the cable deflection capabilities. The project will also be waiving the minimum length requirements that the cable system was tested with to meet MASH requirements.

Answer

Submitted: 27-APR-2026 3:55PM

CURRENT QUESTIONS & ANSWERS

Cable guardrail will be used over Big Coulee Creek at 754+50 and utilize 7-foot post spacing throughout. Road sheet 12 has been updated noting the required post spacing and can be viewed here: [UPDATED SHEET](#)

1. CALCIUM CHLORIDE STABILIZATION

A. Description. This work is producing and placing one or more courses of calcium chloride stabilized aggregate surfacing on a prepared surface.

B. Materials

1) Aggregates. Furnish Crushed Top Surfacing, Type B, Grade 3 in accordance with Subsection 701.02.1 and 701.02.7.

2) Calcium Chloride

a) Calcium chloride pellet or flake. Furnish calcium chloride pellet or flake conforming to ASTM D98, Type S, Grades N2, N3, or N4, Class A or B.

C. Construction Requirements. Meet the requirements of Section 301 in addition to the following:

1) Proportioning. Determine the maximum density and optimum moisture content according to MT 230 with and without calcium chloride at the target percentage. Use the proctor with calcium chloride to monitor yield and final compaction of the mixture.

The target calcium chloride content is 1.85% by dry mass of aggregate. The target water content is from 2% below optimum moisture content to optimum moisture content.

2) Surface Preparation. Grade the roadway to establish a crown with a minimum 4% cross slope and recompact the existing surfacing material prior to placement of new surfacing. Provide a prepared surface free of organic material and loose gravel. Do not place aggregate surfacing on any of the following:

a) Any surface not meeting the dry density requirements of that surface.

b) A rutted or frozen subgrade or aggregate surface.

c) Any surface not meeting grade or surface smoothness specifications.

d) Unstable or pumping material. Rework or remove and replace the material prior to placing additional lifts or materials.

3) Weather Requirements. Start application operations when the following conditions are met:

a) The mean daily temperature is not expected to fall below 40° F for a 7-day cure period after the calcium chloride is incorporated.

b) The ambient air temperature is 40° F or above and is not expected to fall below 40° F within 48 hours.

c) No precipitation is occurring or forecast within 24 hours.

d) The underlying surface is not frozen or muddy.

4) Control of Mixture. Continuously monitor calcium chloride content, moisture content, and aggregate yield during production and placement. Stop production and provide immediate corrective action if yield calculations, moisture content measurement, or other observations indicate specifications are not being met. Maintain the accuracy of the quantities of calcium chloride, aggregate, and water content within the following tolerances during pugmill and placement:

a) Calcium Chloride. Target value: 1.85% \pm 0.15% by dry mass of aggregate. Use an independent measuring device with display, accurate to \pm 0.05% of the mass of calcium chloride.

b) Water. Target value 1.0% below optimum moisture \pm 1.0% by dry mass of aggregate.

5) Mixing and Placement. Pugmill all surfacing aggregates. Uniformly mix aggregate surfacing, calcium chloride, and water in a central plant pugmill mixer.

a) Do not produce treated aggregate when precipitation is anticipated before the treated aggregate can be placed.

b) Do not use treated aggregate that has been exposed to precipitation before placement without approval.

After pugmilling, transport, place, and spread aggregate surfacing on the roadway. Spread in maximum 8-inch (200 mm) compacted layers to the required grade and typical

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section. Spot fill low areas by scarifying the roadway, spreading aggregate, and compacting to the specified density.

D. Measurement and Payment.

1) Aggregate. Aggregate surfacing will be measured and paid for the Cubic Yard of material placed and accepted.

2) Aggregate Treatment. Calcium Chloride used in the production of aggregate treatment will be measured by the pound (LB) and paid under the bid item – Miscellaneous Item B.

1. POLYMER STABILIZATION

A. Description. This work is producing and placing one or more courses of aggregate surfacing on a prepared surface, followed by in-place blending of Dustpods polymer soil stabilization.

B. Materials

1) Aggregates. Furnish Crushed Top Surfacing, Type B, Grade 3 in accordance with Subsection 701.02.1 and 701.02.7.

2) Dustpods Polymer Solution. Furnish a water solution following the manufacturer's recommendations.

C. Construction Requirements. Meet the requirements of Section 301 in addition to the following:

1) Dustpods Pre-Activity Requirements

a) Manufacturer. The manufacturer can be reached at (704) 682-3343 or wayne@dustpods.com

b) Submittal. At least 14 calendar days prior to the placement of Dustpods stabilization, submit for approval the following information from the manufacturer:

(1) The proposed target application rate of Dustpods polymer material by dry weight of aggregate, and the acceptable minimum and maximum limits allowed during production.

(2) The proposed moisture content in the aggregate surfacing during placement.

(3) Proposed dilution ratio for the Dustpods solution.

(4) Proposed weather restrictions.

(5) Proposed stabilization depth.

(6) Proposed cure requirements for the period before Dustpods placement and after placement, including weather and traffic considerations.

(7) Proposed equipment for placement, mixing, grading, and compaction.

(8) Proposed quality control measures to ensure proper placement and curing.

c) Test Strip. On the first day of Dustpods placement, conduct a pre-placement meeting with the Project Manager, a manufacturer representative, and the Contractor's superintendent to discuss the process, equipment, and methods for Dustpods placement to allow for proper inspection, process control, and measurement of the finished work.

2) Place a maximum 1000 Yd² test strip for inspection by the Project Manager and the manufacturer's representative to ensure proper application rate, process controls, equipment, methods, weather limitations, and curing requirements. Make adjustments as requested and repeat the test strip until an acceptable method is achieved. Proportioning. Determine the maximum density and optimum moisture content according to MT 230 with and without Dustpods at the target percentage recommended by the manufacturer. Use the proctor with Dustpods to monitor yield and final compaction of the mixture.

3) Surface Preparation. Grade the roadway to establish a crown with a minimum 4 % cross slope and recompact the existing surfacing material prior to placement of new surfacing. Provide a prepared surface free of organic material and loose gravel. Do not place aggregate surfacing on any of the following:

a) Any surface not meeting the dry density requirements of that surface.

b) A rutted or frozen subgrade or aggregate surface.

c) Any surface not meeting grade or surface smoothness specifications.

d) Unstable or pumping material. Rework or remove and replace the material prior to placing additional lifts or materials.

4) Control of Mixture. Continuously monitor Dustpods application rate and moisture content during placement. Stop placement and provide immediate corrective action if yield calculations, moisture content measurement, or other observations indicate specifications are not being met. Maintain the accuracy of the quantity of Dustpods during placement.

5) Mixing and Placement. Pugmill, spread, finish, and compact all surfacing aggregates in accordance with 301.03.5(B) prior to placement of Dustpods. After placement of

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surfacing aggregate, uniformly mix aggregate surfacing, Dustpods, and water in-place on the roadway, and finish and compact the completed mixture.

D. Method of Measurement. Measurement shall be in accordance with Subsection 301.04.

E. Basis of Payment

Payment for the completed and accepted quantities is made under the following:

Pay Item	Pay Unit
Pavement Pulverization	Square Yard (Yd ²)
Top Surfacing Gr 3B	Ton (MT)
Miscellaneous Item A	Pound (LB)

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MONTANA DEPARTMENT OF TRANSPORTATION SCHEDULE OF ITEMS

CONTRACT ID: 10426

PROJECT: STPS STWD(743) 9800743000 S-238/S-300 - RYEGATE

SECTION: 0001 - GRAVEL, GUARDRAIL & STRUCTURE REPLACEMENT

PROP LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY
0010	104030010	MISCELLANEOUS WORK	UNIT	35,000.00
0020	104030090	MISCELLANEOUS ITEMS A-LB	LB	77.00
0030	104030095	MISCELLANEOUS ITEMS B-LB	LB	1,438,387.0
0040	108000010	STRUCTURE ANALYSIS	LS	1.00
0050	109200005	MOBILIZATION	LS	1.00
0060	202020040	REMOVE STRUCTURE	EACH	1.00
0070	203020100	EXCAVATION-UNCLASSIFIED	CUYD	239.00
0080	203020185	TEMPORARY CHANNEL DIVERSION	LS	1.00
0090	203080100	TOPSOIL-SALVAGING AND PLACING	CUYD	781.00
0100	206000040	DETOUR-MAINTAIN, REMOVE	LS	1.00
0110	208010015	AQUATIC RESOURCE MONITOR	LS	1.00
0120	208010150	TEMPORARY EROSION CONTROL-LS	LS	1.00
0130	208010200	TEMPORARY EROSION CONTROL-FIXED	UNIT	500.00
0140	208010500	BIOENGINEERED BANK	LS	1.00
0150	209010160	TEMPORARY SHORING	LS	1.00
0160	210020000	GRADER-MOTOR	HOURL	40.00
0170	210020160	MISCELLANEOUS EQUIPMENT	HOURL	38.00
0180	301020450	SPECIAL BACKFILL	CUYD	401.00
0190	301020525	TOP SURFACING GR 3B	TON	43,748.00
0200	301020625	AGGREGATE TREATMENT	SQYD	4,974.00
0210	302000000	PAVEMENT PULVERIZATION	SQYD	13,939.00
0220	551020030	CONCRETE-CLASS GENERAL	CUYD	8.30
0230	603000050	GRANULAR BEDDING MATERIAL	CUYD	221.00
0240	603000060	FOUNDATION MATERIAL	CUYD	94.00
0250	603012555	RCP 24 IN	LNFT	42.00
0260	603012705	RCP 48 IN	LNFT	30.00
0270	603012741	RCP 60 IN	LNFT	63.00
0280	603012769	RCP 72 IN	LNFT	39.00
0290	603013202	RCPA 24 IN EQ DIA	LNFT	34.00
0300	603013322	REIN CONC BOX 24 X 10	LNFT	32.00

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SECTION: 0001 - GRAVEL, GUARDRAIL & STRUCTURE REPLACEMENT

PROP LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY
0310	603017030	DEWATERING	LS	1.00
0320	603587020	REMOVE PIPE CULVERT	LNFT	168.00
0330	606010117	HIGH-TENSION CABLE RAIL	LNFT	262.50
0340	606010118	HIGH-TENSION CABLE RAIL-TERMINAL	EACH	4.00
0350	606010330	MGS GUARDRAIL	LNFT	137.50
0360	606010335	MASH W-BEAM TERMINAL SECTION	EACH	2.00
0370	607100098	FARM FENCE-TYPE F2W F2M-32 IN WW	LNFT	351.00
0380	607100430	FARM GATE-WIRE-TYPE G-2	LNFT	90.00
0390	610100559	REVEGETATION	LS	1.00
0400	610100560	RIPRAP REVEGETATION	SQYD	56.00
0410	610100565	EROSION CONTROL BLANKET-HIGH-	SQYD	330.00
0420	611010025	CATTLE GUARD 24 FT-HEAVY DUTY	EACH	3.00
0430	611010200	REMOVE CATTLE GUARD	EACH	3.00
0440	613100040	RIPRAP-CLASS 2 RANDOM	CUYD	109.00
0450	613100090	CULVERT INFILL	CUYD	117.00
0460	613100105	ANCILLARY ARMOR	CUYD	5.00
0470	618030015	TRAFFIC CONTROL-FIXED	UNIT	500.00
0480	618030080	TRAFFIC CONTROL-LS	LS	1.00
0490	619010090	SIGNS-ALUM REFL SHEET XI	SQFT	404.10
0500	619010230	REMOVE SIGN	EACH	23.00
0510	619010310	POSTS-STEEL U SIGN	LB	287.00
0520	619010450	POLES-TREATED WOOD 4 IN	EACH	20.00
0530	619010460	POLES-TREATED WOOD 5 IN	EACH	18.00
0540	619011090	DELINEATOR TYPE 1	EACH	193.00
0550	619011095	DELINEATOR TYPE 2	EACH	36.00
0560	622011084	GEOTEXTILE STABILIZATION	SQYD	405.00
0570	622011086	SEPARATION GEOTEXTILE - HIGH	SQYD	204.00

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Standard Provisions & Requirements

SPECIAL PROVISIONS
FEDERAL AID PROJECT NO(S). STPS STWD(743)
 (REVISED 4-09-26)

The following special provisions are hereby made part of the contract and supplement and/or supersede any sections of the Standard Specifications of Road and Bridge Construction, adopted by the Montana Department of Transportation and the Montana Transportation Commission and all supplements thereto in conflict therewith.

The following documents are hereby incorporated by reference into this contract:

- "Question and Answer Forum": [Question and Answer Forum](#)
- "Standard Specifications for Road and Bridge construction":

[Standard Specifications January 2026](#)

- The most recent version of the Detailed Drawings: [Detailed Drawings](#)
- Materials Manual of Test Procedures: [Materials Manual November 13, 2025](#)

The latest version of the Standard Specifications, Biannual updates, and revision summaries can be found at the following website: [Standard Specifications](#)

The Question-and-Answer Forum opens at 5:00 p.m. on the bid letting advertisement date and closes at 8:00 a.m. on the Monday before the bid letting. If Monday is a state holiday, the forum will close on Friday before the bid letting at 3:00 p.m. Answers provided by the Department to the questions, clarifications, and notifications can be posted up to 5:00 p.m. on the day before the letting.

The U.S. Department of Transportation (DOT) operates a toll-free number at 1-800-424-9071, 24 hours a day - 7 days a week. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use this number to report such activities. All information will be treated confidentially, and callers may remain anonymous.

The Department attempts to provide reasonable accommodations for any known disability that may interfere with a person participating in any service, program, or activity of the Department. Alternate accessible formats of this document will be provided upon request. If reasonable accommodation is needed to participate in Department bid lettings, call the Civil Rights Bureau at 444-6331 or TTY 406-444-7696 [TTY 1-800-335-7592 (toll free)].

1. PROJECT DESCRIPTION [102]

Gravel Resurfacing, Guardrail, Culvert replacement, and replacing a bridge with a Reinforced Concrete Box (RCB) on the S-238/S-300 Ryegate Project in Golden Valley County. The project is located on S-238 between RP 60.7 and RP 55.2 and on S-300 from RP 8.8 to RP 13.4

2. CONTRACT TIME - COMPLETION DATE [108] (REVISED 1-21-16)

This contract is a completion date contract. The work begins on the effective date stated in the Notice to Proceed (NTP) and all work is to be completed no later than December 11, 2026. Unusually severe weather is not considered as a delay cause. The NTP will be issued with an effective date of July 20, 2026.

3. CONTRACT DOCUMENTS [102] (REVISED 1-15-26)

The following documents are now available within the Contractors Reference Material on the Department's Contracting and Bidding webpage <https://www.mdt.mt.gov/business/contracting/> :

- 1) [Table of Contractor's Submittals](#). (Revised 1-15-26)
- 2) [Traffic Control Rate Schedule](#) (Revised 3-9-23)
- 3) [Erosion Control Rates](#) (Revised 1-09-25)

4. DBE-SBE BIDDING REQUIREMENTS [102] (REVISED 9-18-25)

- A. Rescind Standard Specification 103.10 Subcontractor Report.
- B. Rescind Standard Specification 102.07B and replace it with the following:

Ensure bids submitted using the EBS (Electronic Bidding System) format contain a Proposal guarantee, an EBS generated Proposal, Schedule of Items, and DBE requirements when applicable.

Written changes to the Schedule of Items, or a bidder's non-submission of every page from the AASHTOWare Project Bids™ EBS file, (including all Schedule of Items pages, Bidders List page, and all DBE pages), automatically renders the bid non-responsive, and the bid will not be read or considered.

Acknowledge addenda using the amended EBS project file to generate the Proposal, Schedule of Items and DBE requirements. It is the bidder's responsibility to ensure that they acquire and apply addenda files when applicable.

C. Standard Specification 102.07C Determination of Bid Responsiveness, is modified to include the following:

Bidders List. The bidders list file must be attached and include the required information for the prime contractor, subcontractors and suppliers that provided a quote for this project, as outlined in 49 CFR 26.11.

If using a supplier, complete the linked worksheet to help determine if the supplier is a regular dealer or distributor. Select Supplier – Dealer or Supplier – Distributor when adding an SBE or DBE in AASHTOWare Project Bids. [DBE Regular Dealer/Distributor Form](#)

D. Standard Specification 102.08 Rejection of Bid Proposals, is modified to include the following:

- Failure to provide a Bidders List.

5. LABOR AND CIVIL RIGHTS REQUIREMENTS [102] (REVISED 1-15-26)

Executive Orders 13658 and 13706 do not apply to this contract. Pay the minimum wage rates contained elsewhere in the bid package and comply with the required contract provisions contained in the form FHWA 1273 included with this contract. To obtain more information, contact the Department's Construction Engineering Services Bureau at 2701 Prospect, Helena, MT (406)475-2258, (800)335-7592 (TTY) or (406)444-7297 (Fax).

Ensure bulletin board requirements contained in the FHWA Form 1273 are met. Please see the following webpage for required bulletin board materials:

[Bulletin Board Materials & Requirements](#)

6. BIDDER'S PROPOSED AGGREGATE SOURCE(S) [103] (REVISED 8-07-25)

No later than 7 calendar days after the date of bid-opening (the date of bid opening to count as the first full day), submit to ECCS form MDT-CON-106-02-3 in accordance with Subsection 103.11.

7. PARTNERING [105] (ADDED 1-11-24 M)

In accordance with Subsection 105.05.1, this contract requires Level II facilitation.

8. DOMESTIC MATERIALS REQUIREMENTS [106] (REVISED 11-13-25)

A. Steel and Iron Materials. Furnish iron and steel materials in accordance with subsection 106.09. A manufactured product consisting primarily of steel and iron as defined in 23 CFR 635.410 is accepted under subsection 106.09.

B. Construction Materials. Furnish construction materials manufactured in the United States. Construction materials include articles, materials, or supplies that are or consist primarily of:

- Non-ferrous metals.
- Plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables).
- Glass (including optic glass).
- Fiber optic cable (including drop cable).

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- Optical fiber.
- Lumber.
- Drywall, and
- Engineered wood.

Construction materials exclude cement and cementitious materials, aggregates including stone, sand, or gravel, or aggregate binding agents (e.g., asphalt binder) or additives (e.g., polymer modifiers and admixtures).

Manufacturing processes for the construction material must occur in the United States.

Manufacturing processes for each of the bulleted construction materials above are defined in 2 CFR 184.6 and are summarized below.

- a) Non-ferrous metals: Initial smelting or melting through final shaping, coating, and assembly.
- b) Plastics: Initial combination of plastic, polymer based, or composite materials until item is in its final form.
- c) Glass: Initial batching and melting, annealing, cooling, and cutting.
- d) Fiber Optic Cable: Initial ribboning, buffering, and fiber stranding and jacketing.
- e) Optical Fiber: Initial preform fabrication through completion of draw.
- f) Lumber: Initial debarking, treatment, and planing.
- g) Drywall: Initial blending of gypsum, cutting, and drying of sandwiched panels.
- h) Engineered Wood: Initial combination of constituents until item is in its final form.
- C. Manufactured Products. Furnish manufactured products as defined in 2 CFR

184.3 that meet the requirements of 23 CFR 635.410. Beginning with the letting of November 13, 2025, the final fabrication of all manufactured products must occur in the United States. Beginning with the November 12, 2026 bid letting, the product must be manufactured in the United States and the cost of the components of the manufactured product that are mined, produced or manufactured in the United States must be greater than 55% of the total cost of all components of the manufactured product.

With respect to precast concrete products that are classified as manufactured products, ensure the components of precast concrete products that consist wholly or predominantly of iron or steel or a combination of both meet the requirements of subsection 106.09.

D. General. Domestic materials preference applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to a project. It does not apply to tools, equipment, and supplies brought to the construction site and removed at or before the completion of the project (e.g., temporary aluminum scaffolding). Buy America preference does not apply to equipment and furnishings that are used at or within the finished infrastructure project but are not permanently affixed to the structure (e.g., movable chairs, desks, or computer equipment used at or within the project but are not integral or permanently affixed to a structure).

Refer to the decision tree in Section 3.5 of MT 601 to aid in appropriately categorizing specific materials.

Submit Form MDT-MAT-407 "Manufacturer's Certificate of Compliance" for every material identified as a construction material or manufactured product. Do not incorporate materials covered by Form MDT-MAT-407 into the project until all required documentation is submitted to the Department. Ensure suppliers and manufacturers understand the domestic material and contract requirements to supply the required materials and associated documentation. The Department will not accept items installed until all supporting documentation has been reviewed and is found to be in accordance with the contract requirements. Insufficient or unavailable documentation or documentation showing products containing construction materials of foreign origin are grounds for removal and replacement at the contractor's expense. The Department has designated contract materials as either "construction materials" or "manufactured products" by their respective 9-digit material codes in section MT 601 of the Montana Materials Manual. The Department recognizes there will be situations where a product

or material may not fit the designation indicated in section MT 601. In these cases, submit documentation demonstrating or justifying the supplier or manufacturer's position that their specific item has been misclassified to the Project Manager at least 10 business days in advance of installation. The Department, in conjunction with FHWA, will review the submitted documentation and decide as to how that specific product or material will be classified. These determinations will be final, and the appropriate documentation as defined above is required. The Department further recognizes there will be situations when a product or material may not be addressed in MT 601. In these cases, submit certification of the material's domestic origin appropriate for the material classification to the Project Manager prior to installation. The US DOT has found that it is in the public interest to issue a waiver of domestic preferences in certain situations. For construction materials and manufactured products, the domestic preference may be waived if the total value of non-compliant material is under \$1,000,000 or 5% of the total applicable project costs, whichever is less. Submit actual individual material costs, minus manufacturing costs outside the defined manufacturing processes outlined above, along with justification in the form of invoices, bills of lading, or other appropriate documents to the Department if requesting the waiver. The above waiver does not apply to iron and steel, the existing de minimis standard for iron and steel under subsection 106.09 continues to apply. A project with a total contract value of \$500,000 or less is exempt from all domestic preference regulations including steel and iron.

9. CONSTRUCTION EQUIPMENT ON STRUCTURES [107] (REVISED 9-21-23)

- A. Description: Requirements associated with the operation of equipment on structures.
- B. Definition. The following definition applies to this special provision:
 - 1) Equipment. Any vehicle or machine weighing more than 5000 pounds.
- C. Construction Requirements. Do not use bridges as work platforms, work bridges, or to support or move equipment without the Project Manager's written approval.
 - 1) For bridges having no posted load restrictions and no removal of deck concrete (not milled), provide a full engineering submittal for approval for all equipment utilizing outriggers on the structure and for any equipment not already approved under one of the following conditions:
 - a) Legal Loads. A vehicle that is a legal load as defined by Section 61-10 MCA.
 - b) Pre-Approved Equipment. The equipment is currently listed on MDT's [Approved Construction Equipment List \(ACEL\)](#) and will be operated according to any conditions stated in the ACEL.
 - 2) For bridges with a posted load restriction or if bridge deck concrete is partially milled or removed, submit a full engineering submittal for approval for any of the following cases:
 - a) Equipment weight exceeds 25 tons.
 - b) Vehicle weight and configuration does not satisfy the posted load restriction.
 - c) More than one piece of equipment will be simultaneously located on a span.
 - d) Concrete removal results in significant debonding of the top mat of deck reinforcing steel. The Project Manager, in conjunction with the Bridge Bureau, will determine if significant debonding is present.
 - e) Repairs to bridge beams or truss members are specified in the contract and repairs are not complete.
 - f) Equipment outriggers will be used.
 - 3) Full engineering submittal requirements. Submit an engineering analysis and report performed by a Professional Engineer registered in Montana.
 - a) Engineering analysis. Clearly describe loading conditions and assumptions and provide calculations. Investigate an envelope within which the equipment may function without

damaging the structure or endangering workers or the public. MDT proposes the following topics, at a minimum. Provide additional information when necessary.

(1) Load Cases.

(a) Minimum suggested live load vehicles are Type 3 and Type 3S2 trucks in live load combinations from AASHTO "Manual for Condition Evaluation of Bridges."

(b) Consider all loads on the bridge including axle loads, outriggers, equipment dynamic forces, and wind forces on the load, the boom, and the equipment. Consider deflection and secondary force effects. Include traffic live load if the structure will carry traffic during equipment operations.

(c) Investigate different loading combinations for all configurations. Include the distribution of dead load and changing center-of-gravity of the equipment with and without load at different boom extensions, rotations, and elevations.

(2) Structural Effects. Identify critical members. Determine any conditions under which the equipment cannot safely operate.

(a) Written Report. Provide a report containing a narrative summarizing the results of the analysis. Describe special measures necessary to protect the structure through all phases of the equipment's positioning and use. Include drawings as necessary and indicate any minimum equipment clearances to relevant portions of the structure and to traffic flow. Estimate the work's duration.

D. Method of Measurement. Work associated with this provision is not measured for payment.

E. Basis of Payment. Include all costs associated with the requirements of this provision in the lump sum bid for Structure Analysis. Exception: If a full engineering analysis is required as a result of top mat debonding alone (none of the other criteria listed under C.2 are met) then it will be considered extra work and considered for time extension under 108.07.5.

10. EXPERIMENTAL FEATURE CONTACT

MDT is proposing a monitoring of different types of Gravel Surfacing treatments along S-300 and S-238. These types of treatments are DustPods, Calcium Chloride, and Magnesium Chloride. MDT's Research Section will monitor and report on performance of this experimental feature. Ensure the Department's Experimental Project Manager is invited to the Preconstruction and Partnering meetings. Contact Tamuna Cullison at 444-7203 or email at tcullison@mt.gov

11. DETOUR RECLAMATION

The existing detour by the bridge replacement will be removed after the RCB is installed and open to public travel. The area around the detour shall be returned to conditions that match the surrounding area as determined by the EPM. The detour material (estimated 900cy) shall be taken to Coulee Rd and set as wind rows along the road (see Map below for destination). Contractor will contact the County two calendar days prior to removing detour. The County contact is Eric McLean at 406-608-8380.



12. HIGH-TENSION CABLE GUARDRAIL

A. Description. This work includes the installation of Brifen O-Post 4 Rope System high-tension cable guardrail.

B. Materials. Provide high-tension cable guardrail meeting Manual for Assessing Safety Hardware (MASH 2016 Edition) Test Level 3 criteria. Use removable socketed line posts and the base-plated bolt-down socket option for any line posts placed on top of the box culvert.

C. Construction Requirements. Install new high-tension cable guardrail and line posts 14 feet, left and right, from the centerline of the roadway at stations shown in the Guardrail Summary Frame and detail. Install high-tension cable guardrail, terminal sections and line posts in accordance with the manufacturer's specifications. Construct high-tension cable guardrail parallel to the roadway. The Brifen contact for the manufacture's specifications is John Guevara at john@brifenus.com or (405) 657-8582.

D. Method of Measurement. High-tension cable guardrail is measured by the linear foot, excluding the length of the terminal sections.

E. Basis of Payment. Include all costs associated with high-tension cable guardrail installation, including the terminal sections, in the unit bid price per linear foot for High-Tension Cable Rail.

13. NOTICE TO BIDDERS [108] (ADDED 11-21-08)

This project is funded in whole or in part by funds received from the Federal Highway Administration (FHWA), and its construction is wholly contingent on the state's continued receipt of those federal funds. If the federal funds are reduced or not received, the Department may choose to terminate the contract for convenience under the provisions of Subsection 108.10. Any bidder on this project, by submitting its bid, understands and accepts the possibility of the contract being terminated in the event federal funds are reduced or not available and by submitting a bid, each bidder waives any claims for costs or damages other than as specifically allowed by Subsection 108.10.2. In particular, bidders understand and accept that no payment will be allowed for any claimed anticipated profit for work not performed.

14. BRIDGE DEMOLITION NOTIFICATION

A. Prior to demolition of structures in Montana, including highway bridges, a notification form is required to be submitted to the Montana DEQ Asbestos Control Program. The Montana Demolition Notification form MTACP02 is available through the program internet site at <http://deq.mt.gov/Public/asbestos/Forms>.

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B. An inspection of the bridge has been conducted, including a review of as-built drawings and inspection photos for the bridge structures, and sampling of suspect materials. No asbestos containing materials have been identified. A copy of the asbestos inspection is available from the Department.

C. Submit the completed form to the DEQ and the Project Manager at least 10 calendar days prior to commencement of any bridge demolition activities. Provide a copy of the notification acknowledgement to the Project Manager upon receipt from the DEQ.

15. MOISTURE SENSITIVE SOILS [203] (REVISED 9-11-14)

A. Description. Subsurface investigation for this project indicates that subgrade and/or foundation soils located within the project limits are sensitive to changes in moisture content, and may cause construction difficulties. Use construction methods and equipment appropriate for moisture-sensitive soils.

B. Construction. Unless otherwise specified in the contract or by the Project Manager, limit the length of subgrade exposed to precipitation events to an amount that can be adequately sealed by the contractor within 30 minutes of the start of a precipitation event. Many possibilities are available to facilitate construction and to achieve proper compaction of the subgrade or foundation soils in the project limits. The Department does not direct the use of any of them. However, in preparing bids, identify measures to address the identified conditions. Some possibilities to consider are:

1) Sealing the surface of all exposed subgrade/foundation by rolling with a smooth drum roller whenever work at a particular location is interrupted for 6 or more hours and at the end of each work day;

2) Grading and sloping the surface of all exposed subgrade/foundation to facilitate unimpeded surface drainage away from the work area; and/or,

3) Allowing soils to adequately dry (including after precipitation events) before attempting any type of construction work on the subgrade/foundation soils.

C. Method of Measurement and Basis of Payment. Include all costs for the method(s) chosen to effectively address construction on moisture sensitive soils in the bid item for unclassified excavation/borrow. No additional compensation will be allowed or given for claimed increased costs to address that portion of the work addressed by this provision.

16. ENVIRONMENTAL SPECIFICATIONS [208] (ADDED 9-9-21M)

The Contractor is required to review and meet the specifications of the following subsections:

Migratory Bird Treaty Act Compliance – Vegetation Removal	Subsection 208.03.4A(1)
Migratory Bird Treaty Act Compliance – Structures	Subsection 208.03.4A(2)
Aquatic Resource Protection	Subsection 208.03.2
AIS Watercraft and Equipment Inspection	Subsection 208.03.2D

17. GREATER SAGE-GROUSE CONSERVATION

A. Description. Greater Sage-Grouse is a species of concern under state management actions: Executive Order (E.O.) No.12-2015 and Montana Greater Sage-Grouse Stewardship Act. These management actions established procedures and stipulations for activities in designated greater sage-grouse habitat areas (general, core, and connectivity areas).

The S-238 section of this project occurs in designated general and core habitat for greater sage-grouse. The S-300 section is not within any designated habitats for greater sage-grouse.

B. Requirements.

- 1) Do not perform any construction activity prior to July 15 on S-238 north of Ryegate to comply with E.O stipulations. Traffic control is not subject to this timing restriction. Perform traffic control in accordance with the requirements found elsewhere in the contract.
 - 2) Weed management is required within designated habitat for greater sage-grouse. Reclamation of disturbed areas must include control of noxious weeds and invasive plant species, including cheatgrass (*Bromus tectorum*) and Japanese brome (*Bromus japonicus*).
 - 3) Coordinate with the MSGHCP (<https://sagegrouse.mt.gov/>) on all contractor responsible activities located outside MDT Right-of-Way in designated sage-grouse habitats which require the contractor to obtain a state permit or state authorization prior to conducting work. MDT has completed consultation with the MSGHCP only for proposed work located within MDT Right-of-Way. A copy of the consultation letter from the MSGHCP is available upon request from Environmental Services.
 - 4) Seed any disturbed areas with desirable plant species as soon as practicable after construction to reduce the spread and establishment of noxious weeds and to re-establish permanent vegetation.
- C. Measurement and Basis for Payment. Work described in this provision is not measured for payment. Consider all costs, including any mitigation required by the MSGHCP, associated with this provision incidental to performance of the work. Include the cost in the cost of other items.

18. STORM WATER PERMITTING REQUIREMENTS UNDER THE MT POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) [208] (REVISED 8-10-23)

A. Description. The DEQ regulates storm water discharges under the MPDES program. If the bid package contains blank erosion control plans, a construction storm water discharge permit authorization will be required. If not, a storm water discharge permit authorization may be required for this project depending on Contractor's operations. Sum the disturbance area (as defined by DEQ) identified in the contract with the area of disturbance caused by contractor operations to determine if the permit acreage threshold is exceeded. Contractor operations can include, but are not limited to, the following support activities: staging areas, access roads, material storage areas, temporary concrete, or asphalt batch plants, borrow areas, areas used for fill placement, etc. If the summed disturbance area is one acre or more, use the DEQ authorization to discharge under the MPDES General Permit for Storm Water Discharges Associated with Construction Activity (General Permit) for this project. In order to facilitate permit transfer, separate NOI packages are required for areas within the right-of-way and areas outside of the right-of-way. A NOI package includes a Notice of Intent, with a topographic map, a SWPPP, the erosion control plans, sage grouse consultation letter, if applicable, and supporting documentation.

Blank Erosion Control Plans, and a topographic map, are provided with the plans if the plans include greater than 1 acre of disturbance. Complete the erosion control plans as required by the general permit. Complete the SWPPP using DEQ's most current SWPPP Form.

B. Materials. Follow the requirements described in the Department's *Erosion and Sediment Control Best Management Practices Manual (December 2016)*. Rescind Section 208 detailed drawings. Submit to the Project Manager for review and acceptance BMPs proposed for use that are not included in the Manual.

C. Construction Requirements.

1) MPDES Permit Required.

a) Submit one NOI package and the associated fees to DEQ for ground disturbance areas shown in the plans or within the right-of-way. For ground disturbance areas shown in the plans and any other areas within the right-of-way where Contractor activities causing ground disturbance are planned, the Contractor is the sole permittee until construction is complete and the General Permit is transferred to the Department or another entity.

The Department is not responsible for delays caused by incomplete or inaccurate submittals by the Contractor.

Comply with the requirements of the General Permit and implement the SWPPP. Provide an electronic copy of the NOI Package submitted to DEQ and confirmation for receipt of a complete NOI Package from DEQ to the Project Manager prior to conducting any ground disturbance activities.

Do not begin construction activities until the required copy of the NOI Package submitted to DEQ and confirmation for receipt of a complete NOI Package from DEQ is received by the Project Manager.

b) Furnish and install public signage as required by the General Permit. Include the cost of the required sign(s) in the Temporary Erosion Control Lump Sum bid item. Submit a separate NOI package and the associated fees to DEQ for ground disturbance and support activity areas outside the right-of-way and not shown in the plans. Contractor furnished material sources, staging areas, plant sites, or any other Contractor caused ground disturbance outside the right-of-way and not shown in the plans, are the Contractor's responsibility and must be submitted under a separate NOI package from the ground disturbance within the right-of-way. For all support activities outside the right-of-way which are not part of a larger commercial operation serving multiple unrelated construction activities and will not continue operation beyond the completion of the contracted road construction activity, a notice of intent package must be submitted to DEQ to obtain an authorization under the General Permit. Sand and gravel borrow area operations, gravel pits, and/or concrete batch plants that will continue operation beyond the completion of the contracted road project, are part of a larger commercial operation, or serving multiple unrelated construction activities, must obtain permit coverage under the Multi-Sector General Permit for Storm Water Discharges Associated with Industrial Activity (MSGP) regardless of acreage size of the activity if the activity does not already have MSGP authorization. The Contractor is the sole permittee until stabilization is complete and the General Permit is terminated or transferred to another entity. The Department is not responsible for delays caused by incomplete or inaccurate submittals to DEQ by the Contractor.

Provide copies of all NOI Packages submitted to DEQ and confirmations for receipt of complete NOI Packages from DEQ to the Project Manager prior to conducting any ground disturbance activities.

Be responsible for all temporary erosion, sediment, and pollution prevention controls for Contractor furnished material sources, staging areas, plant sites, or any other Contractor caused ground disturbance outside the right-of-way and not shown in the plans.

c) Complete and document all inspections in accordance with the requirements of the General Permit. Use DEQ's most current self-inspection form available online at:

<https://deq.mt.gov/files/Water/WQInfo/Documents/WPBFForms/2023-Attachment-B-MTR100000.pdf>. Provide a copy of all inspection reports to the Project Manager within 7 calendar days of the inspection.

Report potential noncompliance in accordance with applicable regulations, guidance, and permit conditions. Submit to the Project Manager within 7 calendar days of sending or receiving all correspondence to or from regulatory agencies regarding potential noncompliance or violations. The temporary erosion and sediment control measures and devices to prevent pollution and control sediment transport and soil erosion will be inspected as part of the final inspection to ensure they are maintained and functioning properly. Do not transfer or terminate the General Permit coverage until the BMPs are inspected and accepted and all records required under the permit, including inspection and monitoring reports, are furnished to the Project Manager and authorization is received from the Department. The Department may require that certain BMPs be replaced by another type of BMP as a condition of permit transfer.

Upon approval of site conditions, measures, devices and all pertinent records, the Department will notify the Contractor to begin the Permit Transfer Notification in DEQ FACTS. Once completed, provide verification that all fees have been paid and the permit is ready for transfer

in DEQ FACTS. The Department is not liable for the completeness or accuracy of Contractor records completed prior to the permit transfer. Ensure permit conditions and responsibilities are met until confirmation of the transfer is received from DEQ. Defend and hold the Department harmless from any violations, claims, enforcement actions, penalties or fines issued for Contractor activities or recordkeeping that occurred prior to the transfer of the General Permit. If the Department concurs that final stabilization has been met during the final walk-through, the Contractor may submit a Notice of Termination form to DEQ. Pay the annual fee invoice due at the time of termination. Submit the annual fee invoice to the Project Manager for reimbursement.

2) **MPDES Permit not Required.**

The BMP-Administration item is included in contracts that may not meet either criteria for an MPDES permit but include ground disturbing activities. Complete BMP inspections and install BMPs, if necessary, in accordance with Section 208, if no storm water permit is required. Utilize form MDT-ENV-014, Water Pollution Control Inspection Report. A certified SWPPP Administrator is not required to conduct the inspections if no permit is required.

D. **Method of Measurement.** DEQ MPDES fees and monitoring costs associated with obtaining and maintaining the General Permit for ground disturbance areas both within and outside the right-of-way are not measured separately for payment.

If no permit is necessary, include the cost of all erosion control, devices, and inspections in the BMP-Administration bid item.

E. **Basis of Payment.** No additional payment will be made for the DEQ MPDES fees and monitoring costs associated with the General Permit. Include these costs in the Temporary Erosion Control-Lump Sum bid item.

For project including the BMP-Administration item, include the cost of all erosion control, devices, and inspections in the BMP-Administration bid item. Partial payment for the BMP-Administration will be monthly based on the lump sum contract price in accordance with Table 208-2 in Subsection 208.05.1.

Payment for BMPs required by an event or extra work, and approved by the Project Manager, will be measured and paid for in accordance with the Erosion Control Rate Schedule contained in the contract at a unit price of \$1.00 per unit.

19. **STREAM PROTECTION ACT 124 [208]**

A. **Description.** The proposed project has been authorized by Preconstruction Stream Protection Act (SPA) 124 No.: MDT-R5-01-2026, by the Montana Department of Fish, Wildlife, and Parks (FWP); provided the General and Special Conditions listed below are followed. This Preconstruction SPA 124 authorizes the permanent features at the following locations:

Station	Waterbody
319+21	Alkali Creek
754+53	Big Coulee Creek

B. **General Conditions**

1) Adhere to the general provisions listed in Subsection 208.03.3 edition of the MDT Standard Specifications for Road and Bridge Construction.

2) Comply with all additional agreed upon conditions established by stakeholders as well as the Special Conditions indicated below.

C. **Special Conditions**

1) In-water timing restrictions on Big Coulee Creek: no in-water work May 1 to September 1.

2) In-water timing restriction on Alkali Creek: no in-water work May 1 to June 30.

3) A prequalified Stream Restoration Specialist (SRS) shall provide oversight of construction and guidance to the contractor on all aspects of work on Big Coulee Creek.

D. The proposed work exceeds the scope of the Programmatic Environmental Assessment for an FWP issued Water Quality Discharge Permit (318 Permit) therefore application to the Montana Department of Environmental Quality for 318 Permit is required. Copies of the Preconstruction SPA 124 Authorization are available upon request from Environmental Services.

Contact the Project Manager for coordination with the District Biologist on questions regarding this authorization.

20. CLEAN WATER ACT SECTION 404 PERMIT AND SECTION 401 CERTIFICATION

A. Description. This provision describes the project work that has been authorized under Sections 404 and 401 of the Clean Water Act (CWA) and the associated conditions that must be adhered to for compliance with CWA requirements.

B. Section 404 CWA Nationwide Permit 23 Description. The permanent features of this project are authorized under a US Army Corps of Engineers Nationwide Permit 23 – Approved Categorical Exclusions, (Army Corps File Number NWO-2026-00080-MT).

1) The project is in Golden Valley County on S-238 north of Ryegate and on S-300 south of Ryegate. The section of road on S-238 begins at RP 55.200 within Section (S) 36, Township (T) 09 N, Range (R) 19 E and extends to RP 60.700 within S29, T08 N, R20 E; impacts will occur at Alkali Creek (Latitude 46.443809, Longitude -109.258063). The section of road on S-300 begins at RP 8.810 (S17, T05 N, R20 E) and extends to RP 13.350 (S31, T05 N, R20 E); impacts will occur at Big Coulee Creek (Latitude 46.175718, Longitude -109.258615).

2) The permit for this project authorizes the following project work to be performed within waters of the US

a) Alkali Creek: at Sta 319+21, Alkali Creek (46.443809, -109.258063). Remove existing culvert and riprap and replace with new 60-inch x 25-foot Reinforced Concrete Pipe (RCP) into 72-inch x 39-foot RCP with Dissipation Rings, concrete edge protection, and new riprap basin. Impacts will occur to 0.010-acre of wetland (Wetland 1 a-c).

b) Big Coulee Creek: at Sta 754+53, Big Coulee Creek (46.175718, -109.258615). Replace the existing bridge at RP 10.415 with a 24-ft x10-ft box culvert. Impacts will occur to 32 linear feet of stream bed (0.002-acre) and 0.016-acre of wetland (Wetland 2 a-b).

3) This authorization is valid until March 15, 2031

4) Obtain the Nationwide Permit 23 Fact Sheet that fully describes the Nationwide Permit 23 and lists the General Conditions that must be adhered to for this authorization to remain valid. Adhere to the General Conditions.

C. Section 404 CWA Nationwide Permit 33 Description. Obtain authorization for the temporary features of this project (e.g. work bridges, work pads, cofferdams, diversions, etc.) under US Army Corps of Engineers Nationwide Permit 33 – Temporary Construction, Access, and Dewatering.

1) Acquire an additional Section 404 Permit and 401 Certification authorization for temporary discharges that are:

a) Located within 100 feet of the water source in natural spring areas;

b) Within the following waterways and their impoundments: Bitterroot River, Clark Fork River (tributary to the Columbia River), East Rosebud Creek, Flathead Lake, Flathead River, Kootenai River, Milk River, Yellowstone River, or Missouri River;

c) Within Special River Management Zone of the Upper Yellowstone River; or

d) Within the boundaries of any Tribal Reservation or Tribal trust lands.

Prepare and submit a joint application in accordance with Section 208.03.3. MDT is not responsible for delays caused by incomplete or inaccurate submittals by the Contractor.

2) For all other temporary discharges, submit a written description to the Project Manager detailing the temporary facilities planned for the project, along with the associated

restoration plan. Allow 5 working days for the Project Manager to review the plan and confirm CWA 404 pre-construction notification is not required. For temporary discharges authorized under Nationwide Permit 33 without pre-construction notification, the authorization is valid until March 15, 2031.

3) Obtain the Nationwide Permit 33 Fact Sheet that fully describes the Nationwide Permit 33 and lists the General Conditions that must be adhered to for this authorization to remain valid. Adhere to the General Conditions.

D. CWA Section 404 Regional Conditions. Obtain the 2026 Nationwide Permits Regional Conditions, Omaha District, State of Montana, Effective March 15, 2026, that also apply to this project and must be adhered to for these authorizations to remain valid. Adhere to the Regional Conditions, including but not limited to the following:

1) Temporary Measures: Temporary controls (e.g., silt fences, netting, mats) must be removed and disposed of once they have served their purpose.

2) Permanent Measures: Permanent controls used in or near waters of the U.S. must be made of 100% biodegradable, non-plastic materials (such as jute, sisal, or coir). Plastic alternatives (including any degradable or oxo-degradable materials) are not authorized.

E. CWA Section 401 Water Quality Certification is granted for Nationwide Permit 23 by the Montana Department of Environmental Quality (DEQ), provided that certain general and special conditions are met. Obtain the water quality certification requirements issued by DEQ on December 15, 2026. Adhere to those general and special conditions.

F. Copies of the 2026 Nationwide Permit Fact Sheets for Nationwide Permits 23 and 33, the 2026 Nationwide Permit Regional Conditions for the State of Montana, and DEQ's 401 Water Quality Certification Requirements for the 2026 Nationwide Permits are available upon request from Environmental Services or on the web at:

<http://www.mdt.mt.gov/business/contracting/environmental/cwa.shtml>.

Coordinate with the Engineering Project Manager if you have questions regarding this authorization. Proposed changes to the permanent structures should be directed to the Engineering Project Manager for coordination with the District Environmental Project Engineer in the Environmental Services Bureau. Temporary facility permitting and/or general permit questions should be directed to the project manager for coordination with the District Environmental Engineering Specialist.

21. STREAM RESTORATION SPECIALIST – MDT (SRS)

A. Description. The Montana Department of Transportation (MDT) has contracted with a Stream Restoration Specialist (SRS) to provide construction oversight and guidance to the Contractor during the construction phase of the project at Big Coulee Creek. The SRS will ensure that construction activities and associated features at Big Coulee Creek are performed in accordance with contract design specifications and SPA 124 Authorization Special Conditions.

Specific to this contract, the Required SRS Oversight Activities include but is not limited to:

- 1) Attend pre-construction, on-site prep-work, and postconstruction meetings.
- 2) Review, approve or modify the staking of stream channel(s) and associated features prior to initiation of and/or during performance of the work.
- 3) Oversight (on-site) and guidance to the contractor at Big Coulee Creek for all channel work, bridge removal, culvert installation, and bank revegetation activities.
- 4) Ensure all work associated with Big Coulee Creek is completed as specified in the plans and specifications.

B. Requirements.

- 1) The Contractor is required to perform all work identified in A. above under the oversight and guidance of the SRS. The SRS is to familiarize themselves with the general morphological characteristics of the stream in the project area prior to construction.

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2) The Contractor is required to coordinate with the SRS to attend pre-construction, on-site prep-work, on-site Required SRS Oversight Activities related, and postconstruction meetings.

3) The Contractor is required to coordinate with the SRS for scheduling of stream construction and restoration related activities, meetings, and all activities that require SRS oversight.

4) The Contractor is required to coordinate with the SRS and the Engineering Project Manager (EPM) on all changes to the project construction schedule related to the Required SRS Oversight Activities prior to MDT approval.

5) The Contractor is required to coordinate with the SRS and EPM for review and approval or modification of the staking of stream channel(s) and associated features prior to initiation of and/or during work.

6) The SRS is to familiarize themselves with the general morphological characteristics of the stream in the project area prior to construction.

7) The SRS and EPM will coordinate with the MDT District Biologist prior to implementing any field changes to the specified in the plans or specifications, or any other major alterations related to structure installation or construction of the stream channel(s) and associated features to be constructed under oversight and guidance of the SRS. Permit modifications may be required prior to continuance of the work.

8) The SRS reports to the EPM regarding all proposed changes with the MDT District Biologist prior to doing any proposed work as permit modifications may be required prior to continuing work.

9) The Contractor is required to report any issues or problems related to the construction of the stream work and associated features to the SRS and the Project Manager. The Project Manager will coordinate with the SRS and MDT District Biologist to determine an acceptable solution as needed.

All contacts and communications with resources agencies must go through the Project Manager and MDT Environmental.

C. Measurement and Payment. Stream Restoration Specialist is not measured for payment.

22. BIOENGINEERED BANK

A. Description. This work consists of furnishing materials and installing Bioengineered Bank to the dimensions and locations indicated in the plans.

B. Materials. Furnish all materials and equipment required to perform this work.

1) Furnish and install coir logs meeting the following requirements:

Type	Minimum Density	Outer Net	Inner Core
12" Coir Log	7 lbs/ft ³	100% Coir twine	100% Coir

2) Furnish High Performance Erosion Control Blanket from the Departments QPL.

3) Seed. Furnish the seed mix from the Revegetation Special Provision.

4) Provide streambed material and salvaged topsoil as indicated on the plans.

C. Construction Requirements.

1) After culvert installation, grade soil to meet existing stream banks. Install bioengineered banks on all disturbed streambank areas.

2) Install coir fiber rolls, topsoil, seed and blanket as shown in the bioengineered bank detail.

3) Contractors must obtain all necessary permits.

4) Conduct work in compliance with aquatic resources protection specification 208.03.2 including temporary facilities permitting and aquatic invasive species inspection requirements.

- D. Method of Measurement & Basis of Payment.
 - 1) Include all costs of bioengineered bank including coir fiber rolls, stakes, erosion control blanket and streambed material in the Lump Sum Bioengineered Bank.
 - 2) Reclamation seed and fertilizer are included in the Lump Sum payment for Revegetation.

23. STREAMBED MATERIAL SALVAGE AND STORAGE

- A. Description. This work includes the salvaging, stockpiling and placement of streambed material in the box culvert at Big Coulee Creek (Sta 754+53).
- B. Construction Requirements.
 - 1) Streambed material is defined as any area within wetland boundaries impacted by the construction limits of the project and within the main channel of the stream in the footprint of the box culvert and underneath the existing bridge.
 - 2) Stake and flag streambed material salvage limits at least seven calendar days prior to streambed material salvage operations. Notify and coordinate with the Project Manager three calendar days prior to initiating salvaging activities. Do not clear and grub or apply herbicide to streambed material.
 - 3) Salvage material to a depth of 4-feet maximum or as directed by the Project Manager. Stockpile streambed material separate from all other construction materials including fill material and regular topsoil.
- C. Method of Measurement and Payment. Measurement and payment is included in the Culvert Infill bid item as described in Culvert Infill and Fish Passage Requirements.

24. DEWATERING

- A. Description. Groundwater may be encountered when excavating for box culverts, pipes, and other drainage structures. Review the project irrigation practices, surface water conditions, and soil boring logs and make appropriate provisions for groundwater and necessary dewatering. Project borings indicate that groundwater may be encountered at shallow depths. However, groundwater levels can fluctuate yearly, seasonally, during precipitation events, or due to other factors. All excavations that encounter groundwater need to be dewatered properly and kept dry at all times.
- B. Submittals. Prior to starting excavation for any box culvert, pipes, or other drainage structure, submit a dewatering plan to the Project Manager. The dewatering plan must include the number, size, and proposed location of pumps and sumps that will be used to dewater the excavation as well as copies of all applicable permits. Allow 10 working days for the Project Manager to review the dewatering plan.
- C. Construction. When groundwater is encountered in excavations provide dewatering methods that will allow placement and compaction of backfill. Dewater the excavation to maintain conditions that allow for proper compaction of foundation materials and bedding in accordance with the requirements of the Contract. Do not allow the excavation to fill with surface water or groundwater at any time.
- D. Method of Measurement and Basis of Payment. Dewatering is measured as Lump Sum. Include all costs associated with providing, designing, installing, maintaining, and removing for dewatering in the lump sum bid item Dewatering.

25. INCREASE IN TURBIDITY [208] (REVISED 10-8-15)

- A. Description. Montana Fish, Wildlife and Parks (FWP) has determined that this project may cause a significant increase in turbidity.
- B. Requirement. Contact the Department of Environmental Quality (DEQ) to determine narrative conditions required to meet short-term (318 Authorization) water quality standards and protect aquatic biota.

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1) Complete and submit the Joint Application for Proposed Work in Montana's Streams, Wetlands, Floodplains, and Other Water Bodies (Application Revised 6-5-2015) and all required attachments, according to the applications instructions. Form can be down loaded from: <http://dnrc.mt.gov/licenses-and-permits/stream-permitting>.

2) Application fees are the responsibility of the Contractor.

3) Do not begin any work that will affect a Montana stream, wetland, floodplain, and/or other water body until a valid 318 Authorization is received from DEQ. Other permits/authorizations may also be required for the proposed work.

C. Basis of payment. Include the cost to obtain this permit in the mobilization bid item.

26. PRECAST REINFORCED BOX CULVERTS [603] (REVISED 1-15-26)

A. Description. Precast reinforced concrete box culvert (RCB) is specified at locations shown on the plans.

B. Materials.

1) RCB. Furnish RCB that meets the requirements HL-93 live loading. RCB must also meet the requirements of ASTM C1577, except the aggregate gradations must meet Subsection 701.01 or a Department approved optimized gradation. Refer to ASTM special design provisions for RCB sizes that are not included in the ASTM table or for any changes in wall thickness. Use AASHTO M 85 Type V cement or an AASHTO M 240 high sulfate resistant blended cement tested in accordance with ASTM C1012 meeting a maximum length change requirement of 0.05% at 6 months or 0.10% at 12 months if the 6-month limit is exceeded.

2) Joint Sealant. Install flexible plastic gaskets between culvert sections meeting the requirements of Subsection 707.02. Provide joint material that is 1.25-inch equivalent diameter (1 inch x 1.23-inch actual dimensions).

3) External Joint wrap. Furnish Type III, chemically bonded adhesive butyl bands for all joints between box sections meeting the requirements of ASTM C877. Use Type A designation with a sealing bandwidth of 12 inches. Apply joint wrap material externally around each joint over semi-liquid paintable butyl rubber-based adhesive primer. Begin each joint wrap at haunch, extend up and over the top of the culvert, and terminate at the other haunch. Extend joint wrap under the haunches as far as possible on each side of the box culvert while maintaining seal with adhesive primer. If two or more pieces are required, lap a minimum of 6 inches. Replace punctured or torn joint wrap damaged by culvert installation at Contractor expense.

4) Bedding material. Use granular bedding material for bedding material. Provide a 12-inch-thick base. Compact granular bedding by proof rolling with vibratory compactor or by using a method approved by the Project Manager.

5) Flared or Tapered End Section. Furnish precast flared or tapered end sections according to the RCB detail.

6) Optional Cutoff Walls. Cast-in-place or precast cutoff walls are acceptable for the ends of RCB.

7) Reinforcing Steel. Use rebar dowels meeting the requirements of AASHTO M 31, Grade 60 (Grade 420).

8) Epoxy Resin Bonding Adhesive. Meet the requirements of AASHTO M 235 Type 4.

C. Construction Requirements.

1) Joint Tolerance. When placing RCB sections in final position, the gaps between sections must not exceed 0.75 inch. Check for misalignment by measuring normal to the walls and slabs. Correct misalignment between sections before adding the next section.

2) Lift Holes. Plug all lift holes and fabrication holes before placing backfill. Use the manufacturer supplied plugs for filling holes in the top slab. Grout all holes in the side and floor slabs.

3) Tie Bolt Holes. Fill the annular area by injecting silicone caulking in tie bolt holes or fill with joint material after installation of the bolt and before placing the washer.

4) Manufacturer's Installation Procedure. Follow the recommended installation procedure provided by the manufacturer. Provide the Project Manager one copy of the recommended procedure ten calendar days before installation.

5) Welding Requirements. Perform all welding on precast member connections in accordance with AWS D1.1 Structural Welding Code.

Alternate Connection – Concrete Edge Protection. Drill holes in RCB end sections at locations shown on the plans. Epoxy bond #6 rebar dowels with 8 inches minimum protrusion. The required depth of embedment is RCB wall thickness minus 2 inches. Minimum distance from edge of RCB to center of hole is 4 inches. Follow adhesive manufacturer's recommendations for hole diameter and other installation requirements.

Precast Concrete Curb Connection. When precast concrete curbs are required at the RCB ends, connect the curbs to the RCB using the precast holes in the curb. Mark the hole locations and drill and epoxy bond #6 x 12-inch rebar dowels into the RCB a depth of 5 inches. Follow manufacturer's recommendations for hole diameter and other installation requirements. Install curb, centering the dowels in the holes and fill the curb holes with non-shrink grout.

Precast Cut-off Wall Connection. If precast cut-off walls are used, connect the RCB end to the cut-off wall using the precast holes provided in the RCB. Drill 1.5-inch diameter x 6 inch holes in the cut-off wall at each location. Clean hole of loose debris, fill hole in cut-off wall with approved non-shrink grout and install #6 x 12-inch-long rebar into the hole keeping the rebar centered. Fill remaining hole in RCB with grout.

Filletts. Reinforce filletts with a minimum of #3 grade 60 rebar at 12-inch centers.

6) Submittals. Submit shop drawings and all supporting hand and computer design calculations for approval prior to fabrication. All design plans and calculations must be signed and sealed by a Professional Engineer registered in the State of Montana. Calculations are to include load rating factors for design vehicle. Calculate rating factors in accordance with the latest version of the AASHTO Manual of Bridge Evaluation. Submit all welding procedure specifications and welder qualification records for approval prior to welding precast connections. Submit epoxy bonding system for approval prior to installation.

D. Method of Measurement. Precast Reinforced Concrete Box Culvert is measured in accordance with Subsection 603.04.

E. Basis of Payment. Include all costs associated with this item, as well as all pumping, bailing, and drainage necessary for foundation preparation, in the unit price bid per foot for Reinforced Concrete Box Culvert.

Payment at the contract unit price is full compensation for all necessary resources to complete the item of work under the contract.

27. CULVERT INFILL & FISH PASSAGE REQUIREMENTS

A. Description. This work includes the installation of the Culvert Infill material, consisting of Streambed Material and Class 2 Riprap inside the culvert at Station 754+53 on Big Coulee Creek.

B. Materials. Culvert Infill material consists of Class 2 Riprap and Streambed Material.

1) Class 2 Riprap. Provide Class 2 Riprap per Subsection 701.06.

2) Streambed Material. Salvage natural streambed material to use as infill when excavating the streambed for RCB placement.

3) No. 2 Filter Material. Provide No. 2 filter material per Subsection 701.05.

4) Fine Material. Provide Fine Material with a gradation of ¾-inch minus.

C. Construction Requirements.

1) The Contractor and operator performing the work must attend a Culvert Infill pre-work meeting on site to discuss the proposed Culvert Infill design and installation. Coordinate

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with the PM to schedule the pre-work meeting, a minimum of 14 calendar days prior to starting the work. The Project Manager will coordinate with the Stream Restoration Specialist, MDT District Biologist and MDT Hydraulics Engineer. Design intent, materials, construction equipment and operation, task sequencing and construction methods will be discussed and finalized before work can commence.

2) Infill RCB in accordance with the details and special provisions included in the plan set.

a) Native streambed material will be used for the transitioning from the Culvert Infill to the natural banks and thalweg. Use a maximum of 20 feet to transition from the infill banks and thalweg locations at the culvert ends to the existing natural banks and thalweg locations outside of culvert.

3) Place Class 2 Riprap to the full limits and dimensions indicated in the plan details and special provisions.

4) Use Streambed Material to fill the riprap voids.

a) Using 6" lifts, place the Streambed Material on the riprap and pressure wash the Streambed Material into the riprap voids.

b) Continue adding Streambed Material and pressure washing to fill riprap voids to 100 percent of the lift thickness and until water pools on top of the infill material.

c) Use No. 2 Filter Material if sufficient Streambed Material quantities are unobtainable.

d) Use Fine Material to completely fill the riprap voids per methods described in line 4) b) above if unable to fill voids to 100 percent of the lift thickness with the other infill material.

5) A three sided box culvert with separate top slab is required to facilitate installation of culvert infill.

a) Contractor will take all necessary precautions when installing culvert infill so the culvert is not damaged.

D. Method of Measurement. The placement of RCB infill material at Station 754+53 on Big Coulee Creek will be measured for payment as the full placement of Class 2 Riprap and Streambed Material in the contract unit bid price per cubic yard of Culvert Infill. The Streambed Material quantity is calculated for the volume needed above the Class 2 Riprap and between the culvert inverts. Additional Streambed Material will be needed to fill the riprap voids and transition from the RCB culvert and excavation limits to existing natural banks and thalweg outside the culvert, which will be considered incidental to the project.

E. Basis of Payment. Include the cost of all materials, handling, equipment, tools, and labor necessary for the salvaging, storing, disposal of unacceptable material, and complete installation of the RCB Infill material in the contract unit bid price per cubic yard of Culvert Infill.

28. STA 754+53 PRECAST REINFORCED BOX CULVERT [603]

A. Description. Precast reinforced concrete box culvert (RCB) is specified as shown on the plans. A 3-sided precast box culvert with a separate top slab is required to facilitate placement of infill material.

B. Materials.

1) RCB. Furnish RCB that meet the requirements HL-93 live loading. RCB must also meet the requirements of ASTM C1577, except the aggregate gradations must meet Subsection 701.01 or a Department approved optimized gradation. Refer to ASTM special design provisions for RCB sizes that are not included in the ASTM table or for any changes in wall thickness. Use AASHTO M 85 Type V cement or an AASHTO M 240 high sulfate resistant blended cement tested in accordance with ASTM C1012 meeting a maximum length change requirement of 0.05% at 6 months or 0.10% at 12 months if the 6-month limit is exceeded.

2) Joint Sealant. Install flexible plastic gaskets between culvert sections including the top slab meeting the requirements of Subsection 707.02. Provide joint material that is 1.25 inch equivalent diameter (1 inch x 1.23 inch actual dimensions).

3) External Joint wrap. Furnish Type III, chemically bonded adhesive butyl bands for all joints between box sections including the top slab meeting the requirements of ASTM C877. Use Type A designation with a sealing bandwidth of 12 inch. Apply joint wrap material externally around each joint over semi-liquid paintable butyl rubber-based adhesive primer. Begin each joint wrap at the haunch, extend up and over the top of the culvert, and terminate at the other haunch. Extend joint wrap under the haunches as far as possible on each side of the box culvert while maintaining seal with adhesive primer. If two or more pieces are required, lap a minimum of 6 inches. Replace punctured or torn joint wrap damaged by culvert installation at Contractor expense.

4) Bedding material. Use granular bedding material for bedding material. Provide a 12-inch thick base. Compact granular bedding by proof rolling with vibratory compactor or by using a method approved by the Project Manager.

5) Tapered Wingwall. Furnish precast tapered wingwalls according to the RCB detail.

6) Cutoff Walls. Furnish precast cutoff walls according to the RCB detail.

7) Sills. Furnish precast sills in the RCB end sections as shown on the plans.

8) Curbs. Furnish precast curbs according to the RCB detail.

9) Reinforcing Steel. Use rebar dowels meeting the requirements of AASHTO M 31, Grade 60 (Grade 420).

10) Epoxy Resin Bonding Adhesive. Meet the requirements of AASHTO M 235 Type 4.

11) Dowels, sleeves, epoxy, joint sealant, and other materials necessary to install the top slab to the walls of the three sided RCB.

C. Construction Requirements.

1) Joint Tolerance. When placing RCB sections in final position, the gaps between sections must not exceed 0.75 inch. Check for misalignment by measuring normal to the walls and slabs. Correct misalignment between sections before adding the next section.

2) Lift Holes. Plug all lift holes and fabrication holes before placing backfill. Use the manufacturer supplied plugs for filling holes in the top slab. Grout all holes in the side and floor slabs.

3) Tie Bolt Holes. Fill the annular area by injecting silicone caulking in tie bolt holes or fill with joint material after installation of the bolt and before placing the washer.

4) Manufacturer's Installation Procedure. Follow the recommended installation procedure provided by the manufacturer. Provide the Project Manager with one copy of the recommended procedure ten calendar days before installation.

5) Welding Requirements. Perform all welding on precast member connections in accordance with AWS D1.1 Structural Welding Code.

6) Precast Concrete Curb Connection. Precast concrete curbs are required at the RCB ends, connect the curbs to the RCB using the precast holes in the curb. Mark the hole locations and drill and epoxy bond #6 x 12 inch rebar dowels into the RCB a depth of 5 inches. Follow manufacturer's recommendations for hole diameter and other installation requirements. Install curb, centering the dowels in the holes and filling the curb holes with non-shrink grout.

7) Precast Cut-off Wall Connection. Connect the RCB end to the cut-off wall using the precast holes provided in the RCB. Drill 1.5 inch diameter x 6 inch holes in the cut-off wall at each location. Clean hole of loose debris, fill hole in cut-off wall with approved non-shrink grout and install #6 x 12 inch long rebar into the hole keeping the rebar centered. Fill remaining hole in RCB with grout.

8) Fillets. Reinforce fillets with a minimum of #3 grade 60 rebar at 12-inch centers.

9) High-Tension Cable Guardrail. Furnish RCB to accommodate high-tension cable guardrail anchored to the top of the box culvert as shown on the details and special provisions. Coordinate installation of the RCB with the high-tension cable guardrail.

D. Submittals. Submit shop drawings and all supporting hand and computer design calculations for approval prior to fabrication. All design plans and calculations must be signed and sealed by a Professional Engineer registered in the State of Montana. Calculations are to include load rating factors for design vehicle. Calculate rating factors in accordance with the latest version of the AASHTO Manual of Bridge Evaluation. Submit all welding procedure specifications and welder qualification records for approval prior to welding precast connections. Submit epoxy bonding system for approval prior to installation.

E. Method of Measurement. Precast Reinforced Concrete Box Culvert is measured in accordance with Subsection 603.04.

F. Basis of Payment. Include all costs associated with this item, as well as all pumping, bailing, and drainage necessary for foundation preparation, in the unit price bid per foot for Reinforced Box Culvert. Payment at the contract unit price is full compensation for all necessary resources to complete the item of work under the contract.

29. CULVERT FOUNDATION TREATMENT – STA. 754+53

A. Description. Prior to box culvert placement, Sta. 754+53, construct the box culvert foundation, consisting of culvert excavation, geotextile placement, and granular bedding placement at the locations shown in the plans or as directed by the Project Manager.

B. Materials.

- 1) Provide Stabilization Geotextile meeting the requirements of Section 716.
- 2) Provide Granular Bedding Material meeting the requirements of Coarse

Aggregate for Concrete, No. 2, in accordance with Subsection 701.01.

C. Construction.

1) Excavate a zone as shown elsewhere in the Contract and 2.0 foot below the bottom elevation of the box culvert.

2) Place geotextile as shown elsewhere in the Contract or as directed by the Project Manager. Overlap any adjoining edges of the geotextile a minimum of 3.0 feet with the edge of the upgrade sheet over the edge of the downgrade sheet.

3) Place bottom 1.0 foot of granular bedding over the geotextile with minimal compaction effort necessary to create a stable base, with the least amount of equipment traffic possible, and otherwise in accordance with Subsection 622.03.

4) Wrap geotextile as shown elsewhere in the Contract.

5) Place top 1.0 foot of granular bedding. Compact by proof rolling with a compactor in a single lift or by using a method approved by the Project Manager.

6) Do not use vibratory, studded, or sheepfoot rollers.

D. Method of Measurement.

1) Granular Bedding Material is measured in accordance with Subsection 603.04.

2) Geotextile is measured in accordance with Subsection 622.04.

E. Basis of Payment. Payment is full compensation for all labor, tools, equipment and other incidentals necessary to complete the work in accordance with the specifications and as directed by the Project Manager.

1) Granular Bedding Material is paid in accordance with Subsection 603.05.

2) Geotextile is paid in accordance with Subsection 622.05.

30. CULVERT FOUNDATION TREATMENT (REVISED 2-2-2022)

A. Description. Prior to culvert placement, construct the culvert foundation, consisting of culvert excavation, geotextile placement, and foundation material placement at the locations shown in the plans or as directed by the Project Manager.

B. Materials.

1) Provide Stabilization Geotextile meeting the requirements of Section 716.

2) Provide Culvert Foundation Material with a maximum of 15% passing the #200 sieve in addition to the requirements of Subsection 701.04.2.

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- C. Construction.
 - 1) Excavate a zone as shown elsewhere in the Contract and 2.0 feet below the bottom of the planned bedding elevation.
 - 2) Place geotextile as shown elsewhere in the Contract or as directed by the Project Manager. Overlap any adjoining edges of the geotextile a minimum of 3.0 feet with the edge of the upgrade sheet over the edge of the downgrade sheet.
 - 3) Place the first 16 inches of Foundation Material over the geotextile with minimal compaction effort necessary to create a stable base, with the least amount of equipment traffic possible, and otherwise in accordance with Subsection 622.03.
 - 4) Do not use vibratory, studded, or sheepsfoot rollers on the first 16 inches.
 - 5) Place subsequent lifts in accordance with Subsection 622.03.
- D. Method of Measurement.
 - 1) Culvert Foundation Material is measured in accordance with Subsection 603.04.
 - 2) Geotextile is measured in accordance with Subsection 622.04.
- E. Basis of Payment. Payment is full compensation for all labor, tools, equipment and other incidentals necessary to complete the work in accordance with the specifications and as directed by the Project Manager.
 - 1) Culvert Foundation Material is paid in accordance with Subsection 603.05.
 - 2) Geotextile is paid in accordance with Subsection 622.05.

31. SPECIAL BACKFILL FOR CULVERTS (REVISED 2-2-2022)

- A. Description. Place special backfill at the locations shown on the project plans and cross sections. Place special backfill to the bottom of the surfacing course section or as shown in the plans.
- B. Materials. Provide backfill material meeting the AASHTO M 145 requirements for A-1-b group classification or better, with 100% passing the 6 inch sieve.
- C. Construction. Compact Special Backfill in accordance with Section 203, limiting the lift thickness to 6 inches.
- D. Method of Measurement. Special Backfill is measured by the cubic yard in place.
- E. Basis of Payment. Special Backfill is paid at the contract unit price bid per cubic yard complete and in place.

32. SALVAGE PIPE

- A. Description. Salvage the specified items for the Department. Dispose of items that are damaged or that have deteriorated to the point of becoming unusable
- B. Construction Requirements. Follow all structure removal provisions specified in the Standard Specifications. Salvage the 48-inch polymeric coated CMP at RP 59.54 (Sta. 280+81) on S-238.
- 1) Coordinate salvage and delivery with the following contact:

Steve Bracha	Lewistown Maintenance – Ryegate Section Supervisor	406-568-2380
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- 2) Deliver salvaged items to 109 4th Avenue E, Ryegate MT 59074
- C. Basis of Payment. Include all costs associated with salvaging, stockpiling, and delivering the specified items in the cost of other items.

33. TEMPORARY CHANNEL DIVERSION

- A. Description. This work is for the temporary diversion of Big Coulee Creek and Alkali Creek while performing in-stream work.
- B. Construction Requirements. The Contractor will determine the means and methods of the stream diversion. The Contractor is responsible for determining the design flow

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rate for the diversion. For information purposes only, the average monthly flows using USGS regression calculations (Streamstats) for Big Coulee Creek are listed in the table below. The Contractor should be aware of potential flash flooding in the area. For information purposes only, the estimated 2, 5, 10, 25, 50 and 100 year flood frequency flows for Big Coulee Creek are listed in the table below.

BIG COULEE CREEK CALCULATED MONTHLY MEAN FLOW (CFS)											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
7.7	12.0	22.5	26.4	30.5	25.6	7.8	4.5	5.2	8.0	8.4	6.9
BIG COULEE CREEK CALCULATED PEAK STORM FLOW (CFS)											
2-YEAR		5-YEAR		10-YEAR		25-YEAR		50-YEAR		100-YEAR	
284(CFS)		597(CFS)		889(CFS)		1,360(CFS)		1,750(CFS)		2,150(CFS)	

- 1) The Contractor is responsible for permitting temporary impacts to aquatic resources according to Section 208.03.2.
- 2) Perform this work in accordance with all environmental permitting requirements.
- 3) Any pipe or other materials used in the diversion must be removed from the project after construction.
- 4) If pumping is proposed and permitted as the primary method of diverting Big Coulee Creek or Alkali Creek, ensure the proposed pumping system is safe for fish and has a fully redundant backup system. If pumping is selected, limit noise levels on site to 70 dB and noise levels at the nearest residence to 55 dB.
- 5) Restore stream flow to the main channel slowly and deliberately in a manner to prevent damage or erosion to the infill placed as part of the culvert installation.
- 6) Reset native streambed material and streambank material. Contour to match the initial channel shape and channel bottom elevations as surveyed prior to in-stream construction in the area of the temporary channel diversion and areas of other temporary stream impacts.
- 7) Protect and/or revegetate upland and wetland areas in accordance with Revegetation special provisions.
- C. Submittal. At least 2 weeks before beginning construction, submit to the Project Manager and Stream Restoration Specialist for approval a written plan and working drawings detailing the methods, materials, equipment, and personnel to be used to perform the Temporary Channel Diversion. Include environmental stream permitting commitments. Do not begin work without an approved submittal.
- D. Method of Measurement. All work associated with the temporary diversion of Big Coulee Creek and Alkali Creek is measured by the lump sum.
- E. Basis of Payment. Include all costs associated with this item in the lump sum price of TEMPORARY CHANNEL DIVERSION. Payment at the contract unit price is full compensation for all necessary resources to complete the item of work under the contract.

34. TEMPORARY SHORING – BOX CULVERT

- A. Description. Provide temporary shoring for the construction of a box culvert, Sta. 754+53.
- B. Available Information. Available information developed by the Department or by the Department's duly authorized representative includes the following items:
 - 1) The project Geotechnical Report, dated January, 6, 2026, includes a discussion of temporary shoring and encountered subsurface conditions.
 - 2) Boring Logs that were obtained in the area of the box culvert(s) are included in the Special Provisions. The Contractor should review the report, project boring logs, all available soil and groundwater information, surface water conditions, and local irrigation practices.

C. Construction Requirements. Install temporary shoring meeting the requirements of Subsection 207.03.

D. Submittals. Prior to starting excavation for the box culvert(s), submit a temporary shoring proposal to the Project Manager. Include drawings and design calculations stamped and signed by a Professional Engineer licensed to practice in Montana. Allow 20 working days for review of the submittal.

E. Method of Measurement and Basis of Payment. Temporary Shoring is measured as Lump Sum. Include all costs associated with providing, designing, installing, maintaining and removing temporary shoring in the lump sum bid item Temporary Shoring.

35. CRUSHED TOP SURFACING (CTS) BY THE TON

A. Description. Reserved

B. Material. Meet the requirements for Crushed Top Surfacing Type "B" in 701.02.7.

C. Construction Requirements. Submit a survey plan in accordance with 105.08.2A. Verify placement of the planned section of CTS. In addition to Subsection 301.04.1, perform a cross-sectional survey before CTS placement and then immediately after CTS placement at the same location to verify width and depth. At a minimum, perform one cross-section in a random location for each ½ mile segment of the project, or for each days production if less than ½ mile. Record this information and provide to the Project Manager by the end of each days placement and at the completion of CTS placement.

D. Method of Measurement. Crushed Top Surfacing will be measured by the ton as detailed in 301.04. Weights will be taken after pug milling the optimal amount of water into the material.

E. Basis of Payment. Payment at the contract unit price includes all costs necessary to furnish, weigh, haul, place and finish grade the CTS.

36. CALCIUM CHLORIDE STABILIZATION

~~A. Description. This work is producing and placing one or more courses of calcium chloride stabilized aggregate surfacing on a prepared surface.~~

~~B. Materials~~

~~1) Aggregates. Furnish Crushed Top Surfacing, Type B, Grade 3 in accordance with Subsection 701.02.1 and 701.02.7.~~

~~2) Calcium Chloride~~

~~a) Calcium chloride pellet or flake. Furnish calcium chloride pellet or flake conforming to ASTM D98, Type S, Grades N2, N3, or N4, Class A or B.~~

~~C. Construction Requirements. Meet the requirements of Section 301 in addition to the following:~~

~~1) Proportioning. Determine the maximum density and optimum moisture content according to MT 230 with and without calcium chloride at the target percentage. Use the proctor with calcium chloride to monitor yield and final compaction of the mixture. The target calcium chloride content is 1.85% by dry mass of aggregate. The target water content is from 2% below optimum moisture content to optimum moisture content.~~

~~2) Surface Preparation. Grade the roadway to establish a crown with a minimum 4 % cross slope and recompact the existing surfacing material prior to placement of new surfacing. Provide a prepared surface free of organic material and loose gravel. Do not place aggregate surfacing on any of the following:~~

~~a) Any surface not meeting the dry density requirements of that surface.~~

~~b) A rutted or frozen subgrade or aggregate surface.~~

~~c) Any surface not meeting grade or surface smoothness specifications.~~

~~d) Unstable or pumping material. Rework or remove and replace the material prior to placing additional lifts or materials.~~

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3) ~~Weather Requirements. Start application operations when the following conditions are met:~~

a) ~~The mean daily temperature is not expected to fall below 40° F for a 7-day cure period after the calcium chloride is incorporated.~~

b) ~~The ambient air temperature is 40° F or above and is not expected to fall below 40° F within 48 hours.~~

c) ~~No precipitation is occurring or forecast within 24 hours.~~

d) ~~The underlying surface is not frozen or muddy.~~

4) ~~Control of Mixture. Continuously monitor calcium chloride content, moisture content, and aggregate yield during production and placement. Stop production and provide immediate corrective action if yield calculations, moisture content measurement, or other observations indicate specifications are not being met. Maintain the accuracy of the quantities of calcium chloride, aggregate, and water content within the following tolerances during pugmill and placement:~~

a) ~~Calcium Chloride. Target value: 1.85% \pm 0.15% by dry mass of aggregate. Use an independent measuring device with display, accurate to \pm 0.05% of the mass of calcium chloride.~~

b) ~~Water. Target value 1.0% below optimum moisture \pm 1.0% by dry mass of aggregate.~~

5) ~~Mixing and Placement. Pugmill all surfacing aggregates. Uniformly mix aggregate surfacing, calcium chloride, and water in a central plant pugmill mixer.~~

a) ~~Do not produce treated aggregate when precipitation is anticipated before the treated aggregate can be placed.~~

b) ~~Do not use treated aggregate that has been exposed to precipitation before placement without approval.~~

~~After pugmilling, transport, place, and spread aggregate surfacing on the roadway.~~

~~Spread in maximum 8-inch (200 mm) compacted layers to the required grade and~~

~~typical section. Spot fill low areas by scarifying the roadway, spreading aggregate, and compacting to the specified density.~~

D. ~~Measurement and Payment.~~

1) ~~Aggregate. Aggregate surfacing will be measured and paid for the Cubic Yard of material placed and accepted.~~

2) ~~Aggregate Treatment. Calcium Chloride used in the production of aggregate treatment will be measured by the pound (LB) and paid under the bid item – Miscellaneous Item A.~~

37. POLYMER STABILIZATION

A. ~~Description. This work is producing and placing one or more courses of aggregate surfacing on a prepared surface, followed by in-place blending of Dustpods polymer soil stabilization.~~

B. ~~Materials~~

1) ~~Aggregates. Furnish Crushed Top Surfacing, Type B, Grade 3 in accordance with Subsection 701.02.1 and 701.02.7.~~

2) ~~Dustpods Polymer Solution. Furnish a water solution following the manufacturer's recommendations.~~

C. ~~Construction Requirements. Meet the requirements of Section 301 in addition to the following:~~

1) ~~Dustpods Pre-Activity Requirements~~

a) ~~Manufacturer. The manufacturer can be reached at (704) 682-3343 or wayne@dustpods.com~~

b) ~~Submittal. At least 14 calendar days prior to the placement of Dustpods stabilization, submit for approval the following information from the manufacturer:~~

SPECIAL PROVISIONS

CONTRACT NO. 10426

- (1) The proposed target application rate of Dustpods polymer material by dry weight of aggregate, and the acceptable minimum and maximum limits allowed during production.
 - (2) The proposed moisture content in the aggregate surfacing during placement.
 - (3) Proposed dilution ratio for the Dustpods solution.
 - (4) Proposed weather restrictions.
 - (5) Proposed stabilization depth.
 - (6) Proposed cure requirements for the period before Dustpods placement and after placement, including weather and traffic considerations.
 - (7) Proposed equipment for placement, mixing, grading, and compaction.
 - (8) Proposed quality control measures to ensure proper placement and curing.
 - c) Test Strip. On the first day of Dustpods placement, conduct a pre-placement meeting with the Project Manager, a manufacturer representative, and the Contractor's superintendent to discuss the process, equipment, and methods for Dustpods placement to allow for proper inspection, process control, and measurement of the finished work.
 - 2) Place a maximum 1000 Yd² test strip for inspection by the Project Manager and the manufacturer's representative to ensure proper application rate, process controls, equipment, methods, weather limitations, and curing requirements. Make adjustments as requested and repeat the test strip until an acceptable method is achieved.
 - 3) Proportioning. Determine the maximum density and optimum moisture content according to MT 230 with and without Dustpods at the target percentage recommended by the manufacturer. Use the proctor with Dustpods to monitor yield and final compaction of the mixture.
 - 4) Surface Preparation. Grade the roadway to establish a crown with a minimum 4 % cross slope and recompact the existing surfacing material prior to placement of new surfacing. Provide a prepared surface free of organic material and loose gravel. Do not place aggregate surfacing on any of the following:
 - a) Any surface not meeting the dry density requirements of that surface.
 - b) A rutted or frozen subgrade or aggregate surface.
 - c) Any surface not meeting grade or surface smoothness specifications.
 - d) Unstable or pumping material. Rework or remove and replace the material prior to placing additional lifts or materials.
 - 5) Control of Mixture. Continuously monitor Dustpods application rate and moisture content during placement. Stop placement and provide immediate corrective action if yield calculations, moisture content measurement, or other observations indicate specifications are not being met. Maintain the accuracy of the quantity of Dustpods during placement.
 - 6) Mixing and Placement. Pugmill, spread, finish, and compact all surfacing aggregates in accordance with 301.03.5(B) prior to placement of Dustpods. After placement of surfacing aggregate, uniformly mix aggregate surfacing, Dustpods, and water in-place on the roadway, and finish and compact the completed mixture.
 - D. Method of Measurement. Measurement shall be in accordance with Subsection 301.04.
 - E. Basis of Payment
- Payment for the completed and accepted quantities is made under the following:

Pay Item	Pay Unit
Pavement Pulverization	Square Yard (Yd ²)
Top Surfacing Gr 3B	Ton (MT)
Miscellaneous Item B	Pound (LB)

38. AGGREGATE TREATMENT-TOPICAL APPLICATION

- A. Description. Furnish Magnesium Chloride for aggregate treatment as directed in Section 301.

SPECIAL PROVISIONS

CONTRACT NO. 10426

39. TIMBER SIGN POSTS – MEASUREMENT [619](ADDED 4-9-26)

Rescind Subsection 619.04.3 and replace it with the following:

Treated timber poles and posts are measured by each.

40. REVEGETATION

A. Description. This work consists of providing the necessary equipment and materials to accomplish revegetation of all areas disturbed by construction activities, and/or as directed by the project manager.

B. Materials.

1) Furnish 10-15 lbs. of Nitrogen and 30-35 lbs. of P205 per acre, for all areas.

2) Furnish the following seed mix. Use substitute species only if the recommended species is not available and substitution is approved by MDT's reclamation specialist.

Reclamation Seed Mix			Drill Seeding Rate		
Scientific Name	Common Name	Variety	PLS / sq. ft.	% of Mix	Pounds PLS/ acre
<i>Elymus trachycaulus</i>	Slender wheatgrass	Pryor	6	8	2.0
<i>Pascopyrum smithii</i>	Western wheatgrass	Rosana	6	8	3.0
<i>Elymus lanceolatus</i>	Thickspike wheatgrass	Critana	11	13	3.0
<i>Nassella viridula</i>	Green needlegrass	Lodorm	13	15	3.0
<i>Poa secunda</i>	Canby bluegrass	Canbar	21	25	1.0
<i>Sporobolus cryptandrus</i>	Sand dropseed	VNS	13	16	0.1
<i>Ratibida columnifera</i>	Prairie coneflower	Stillwater	7	8	0.5
<i>Cleome serrulata</i>	Rocky Mtn beeplant	VNS	6	7	4.0
GRAND TOTAL			83	100	16.6

C. Construction Requirements.

1) Salvage sufficient quantities of topsoil to place an average 4-inch loose depth over all disturbed areas.

2) Condition, fertilize and drill seed in accordance with Subsection 610.03.2.

3) Areas that are too steep, narrow or otherwise inaccessible to drill seeding equipment can be broadcast seeded at double (33.2 lbs. PLS/acre) the drill seeding rates. Prior to, and following broadcast seeding, scarify the areas to incorporate the seed into the upper ¼ to ½ inch of soil.

4) Install erosion control blankets in the locations indicated in the plans.

D. Method of Measurement and Basis of Payment. Topsoil salvage and placement, seeding and fertilizer are paid for as Lump Sum Revegetation.

41. RIPRAP REVEGETATION

A. Description. This work is the incorporation of infill material between riprap voids and revegetating material on riprap surfaces.

B. Materials

1) Riprap infill material. Provide Filter Material No. 2, or native material of a similar gradation approved by the Project Manager.

MDT NONDISCRIMINATION AND DISABILITY ACCOMMODATION NOTICE

Montana Department of Transportation ("MDT") is committed to conducting all of its business in an environment free from discrimination, harassment, and retaliation. In accordance with State and Federal law MDT prohibits any and all discrimination and protections are all inclusive (hereafter "protected classes") by its employees or anyone with whom MDT does business:

Federal protected classes

Race, color, religion, national origin, sex, age, disability, and genetic information.

State protected classes

Race; color; national origin; familial or marital status; pregnancy, childbirth, or medical conditions related to pregnancy or childbirth; creed; social origin or condition; genetic information; sex, sexual orientation, gender identification or expression; ancestry; age; mental or physical disability; political or religious affiliations or ideas; military service or veteran status; vaccination status or possession of immunity passport.

For the duration of this contract/agreement, the PARTY agrees as follows:

(1) Compliance with Regulations: The PARTY (hereinafter includes consultant) will comply with all Acts and Regulations of the United States and the State of Montana relative to Non-Discrimination in Federally and State-assisted programs of the U.S. Department of Transportation and the State of Montana, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

(2) Non-discrimination:

- a. The PARTY, with regard to the work performed by it during the contract, will not discriminate, directly or indirectly, on the grounds of any of the protected classes in the selection and retention of subcontractors, including procurements of materials and leases of equipment, employment, and all other activities being performed under this contract/agreement.
- b. PARTY will provide notice to its employees and the members of the public that it serves that will include the following:
 - i. Statement that PARTY does not discriminate on the grounds of any protected classes.
 - ii. Statement that PARTY will provide employees and members of the public that it serves with reasonable accommodations for any known disability, upon request, pursuant to the Americans with Disabilities Act as Amended (ADA).

- iii. Contact information for PARTY's representative tasked with handling non-discrimination complaints and providing reasonable accommodations under the ADA.
- iv. Information on how to request information in alternative accessible formats.
- c. In accordance with Mont. Code Ann. § 49-3-207, PARTY will include a provision, in all of its hiring/subcontracting notices, that all hiring/subcontracting will be on the basis of merit and qualifications and that PARTY does not discriminate on the grounds of any protected class.

(3) Participation by Disadvantaged Business Enterprises (DBEs):

- a. If the PARTY receives federal financial assistance as part of this contract/agreement, the PARTY must comply with applicable federal and state laws regarding the DBEs, including but not limited to 49 CFR Part 26.
- b. By signing this agreement the PARTY assures that:
The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.
- c. PARTY must include the above assurance in each contract/agreement the PARTY enters.

(4) Solicitation for Subcontracts, Including Procurement of Materials and Equipment:

In all solicitations, either by competitive bidding, or negotiation, made by the PARTY for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the PARTY of the PARTY's obligation under this contract/agreement and all Acts and Regulations of the United States and the State of Montana related to Non-Discrimination.

(5) Information and Reports: The PARTY will provide all information and reports required by the Acts, Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information and its facilities as may be determined by MDT or relevant US DOT Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the PARTY will so certify to MDT or relevant US DOT Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

(6) Sanctions for Noncompliance: In the event of a PARTY's noncompliance with the Non-discrimination provisions of this contract/agreement, MDT will impose such sanctions as it

or the relevant US DOT Administration may determine to be appropriate, including, but not limited to:

- a. Withholding payments to the PARTY under the contract/agreement until the PARTY complies; and/or
- b. Cancelling, terminating, or suspending the contract/agreement, in whole or in part.

(7) Pertinent Non-Discrimination Authorities:

During the performance of this contract/agreement, the PARTY, for itself, its assignees, and successor in interest, agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Federal

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601 *et seq.*), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Sections 162 and 301(g) of the Federal-Aid Highway Act of 1973, (Public Law No. 93-87, 87 Stat. 250, codified at 23 U.S.C. § 324), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Section 520 of the Airport and Airways Improvement Act of 1982, (49 U.S.C. § 47123), (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (Public Law No. 100-259), (broadened the scope, coverage, and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975, and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients, and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, (42 U.S.C. §§ 12131 through 12189), which prohibits discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and

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certain testing entities as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;

- Title IX of the Education Amendments of 1972, as amended, which prohibits discrimination on the basis of sex in education programs or activities (20 U.S.C. § 1681 *et seq.*).

State

- Mont. Code Ann. § 49-3-205 Governmental services;
- Mont. Code Ann. § 49-3-206 Distribution of governmental funds;
- Mont. Code Ann. § 49-3-207 Nondiscrimination provision in all public contracts.

(8) Incorporation of Provisions: The PARTY will include the provisions of paragraphs one through seven in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and/or directives cited therein. The PARTY will take action with respect to any subcontract or procurement as MDT or the relevant US DOT Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the PARTY becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the PARTY may request MDT to enter into any litigation to protect the interests of MDT. In addition, the PARTY may request the United States to enter into the litigation to protect the interests of the United States.

MDT Boring Log Descriptive Terminology

Key to Soil Symbols and Terms

01/18/12



SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL
			GRAPH	LETTER	DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	Well-graded gravels, gravel sand mixtures, little or no fines.
				GP	Poorly graded gravels, gravel-sand mixtures, little or no fines.
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	Silty gravels, gravel-sand-silt mixtures.
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	Well-graded sands, gravelly sands, little or no fines.
				SP	Poorly graded sands, gravelly sands, little or no fines.
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	Silty sands, sand-silt mixtures.
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
				OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
				CH	Inorganic clays of high plasticity, fat clays.
				OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS				PT	Peat and other highly organic soils.

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

Notes

See Soil Boring Information Special Provision.

SPT (Standard Penetration Test-ASTM D1586):

The number of blows of a 140 lb (63.6 kg) hammer

falling 2.5 ft (750 mm) used to drive a 2 in (50 mm)

O.D. Split Spoon sampler for a total of 1.5 ft (0.45 m) of penetration.

Written as follows:

first 0.5 ft (0.15 m) - second 0.5 ft (0.15 m) - third 0.5 ft (0.15 m)

(ex: 1-3-9)

Note: if the number of blows exceeds 50 before 0.5 ft (0.15 m) of penetration is achieved, the actual penetration rounded to the nearest 0.1 ft (0.03 m) follows the number of blows in parentheses (ex: 12-24-50 (0.09 m), 34-50 (0.4 ft), or 100 (0.3 ft)). WR denotes a zero blow count with the weight of the rods only.

WH denotes a zero blow count with the weight of the rods plus the weight of the hammer.

MC=Moisture Content, LL=Liquid limit, PL=Plastic Limit

-200%=percent soil passing 200 sieve, DD=Dry Density

Soil Classifications are Based on the Unified Soil Classification System, ASTM D2487 and D2488. Also included are the AASHTO group classifications (M145). Descriptions are based on visual observation, except where they have been modified to reflect results of laboratory tests as deemed appropriate.

Example soil description: Sandy FAT CLAY (CH), soft, wet, brown. (A-7)

Order of Descriptors

- Group Name
- Consistency or Relative Density
- Moisture Condition
- Color
- Particle size descriptor(s) (coarse grained soils only)
- Angularity of coarse grained soils
- Other relevant notes

Criteria For Descriptors Consistency of Fine Grained Soils

Consistency	N-Value (uncorrected)
-------------	-----------------------

Very Soft	< 2
Soft	2 - 4
Medium Stiff	5 - 8
Stiff	9 - 15
Very Stiff	16 - 30
Hard	> 30

Relative Density	N-Value (uncorrected)
------------------	-----------------------

Very Loose	< 4
Loose	4 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

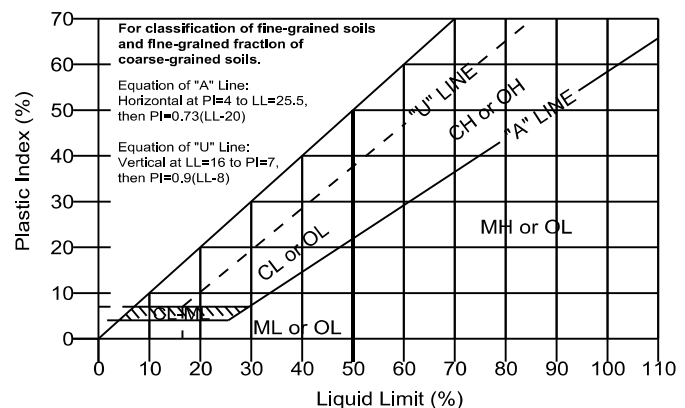
Moisture Condition

- | | |
|-------|--|
| Dry | -Absence of moisture, dusty, dry to the touch. |
| Moist | -Damp, but no visible water. |
| Wet | -Visible free water. |

Definition of Particle Size Ranges

Soil Component	Size Range
Boulder	> 12 in (300 mm)
Cobble	3 in (75 mm) - 12 in (300 mm)
Gravel	No. 4 Sieve (4.75 mm) to 3 in (75 mm)
Sand	No. 200 (0.075 mm) to No. 4 Sieves (4.75 mm)
Silt	< No. 200 Sieve (0.075 mm)*
Clay	< No. 200 Sieve (0.075 mm)*

*Atterberg limits and chart below to differentiate between silt and clay.



Angularity of Coarse-Grained Particles

- | | |
|------------|--|
| Angular | -Particles have sharp edges and relative plane sides with unpolished surfaces. |
| Subangular | -Particles are similar to angular description, but have rounded edges. |
| Subrounded | -Particles have nearly plane sides, but have no edges. |
| Rounded | -Particles have smoothly curved sides and well-rounded corners and edges. |

MDT Boring Log Descriptive Terminology

Key to Rock Symbols and Terms

01/18/12



Rock Type	Symbol	Rock Type	Symbol	Rock Type	Symbol
Argillite		Dolomite		Quartzite	
Basalt		Gneiss		Rhyolite	
Bedrock (other)		Granitic		Sandstone	
Breccia		Limestone		Schist	
Claystone		Siltstone		Shale	
		Conglomerate			

Order of Descriptors

- Rock Type
- Color
- Grain size (if applicable)
- Stratification/Foliation (as applicable)
- Field Hardness
- Other relevant notes

Criteria For Descriptors

Grain Size

Description	Characteristic
Coarse Grained	-Individual grains can be easily distinguished by eye
Fine Grained	-Individual grains can be distinguished with difficulty

Stratum Thickness

Thickly Bedded	3-10 ft (1-3 m)
Medium Bedded	1-3 ft (300 mm - 1 m)
Thinly Bedded	2-12 in (50-300 mm)
Very Thinly Bedded	< 2 in (50 mm)

Rock Field Hardness

Very Soft	-Can be carved with knife. Can be excavated readily with point of rock hammer. Can be scratched readily by fingernail.
Soft	-Can be grooved or gouged readily by knife or point of rock hammer. Can be excavated in fragments from chips to several inches in size by moderate blows of the point of a rock hammer.
Medium	-Can be grooved or gouged 0.05 in (2 mm) deep by firm pressure of knife or rock hammer point. Can be excavated in small chips to pieces about 1 in (25 mm) maximum size by hard blows of the point of a rock hammer.
Moderately hard	-Can be scratched with knife or pick. Gouges or grooves to 0.25 in (6 mm) can be excavated by hard blow of rock hammer. Hand specimen can be detached by moderate blows.
Hard	-Can be scratched with knife or pick only with difficulty. Hard hammer blows required to detach hand specimen.
Very Hard	-Cannot be scratched with knife or sharp rock hammer point. Breaking of hand specimens requires several hard blows of a rock hammer.

Notes:

UCS = Unconfined Compressive Strength obtained from laboratory testing at the given depth.

See Soil Boring Information Special Provision.

Miscellaneous Soil/Rock Symbols and Terms

	Concrete
	Asphalt
	Water
	Boulders and Cobbles
	Coal
	Fill
	Millings
	Topsoil

Explanation of Text Fields in Boring Logs:

Material Description: Lithologic Description of soil or rock encountered.

Remarks: Comments on drilling, including method, bit type, and problems encountered. Unless stated on logs as being surveyed by district survey, all locations are considered approximate.

General Notes

- Descriptions on these boring logs apply only at the specific boring, and at the time the borings were made. These logs are not warranted to be representative of subsurface conditions at other locations or times.
- Water level observations apply only at the specific boring, and at the time the borings were made. Due to the variability of groundwater measurements given the type of drilling used, and the stratification of the soil in the boring, these logs are not warranted to be representative of groundwater conditions at other locations or times.
- Other terms may be used as descriptors, as defined by the profession.

-Soil and Rock descriptions are based on visual observation, except where they have been modified to reflect results of laboratory tests as deemed appropriate.

Operation Types:

	Auger
	Casing Advancer
	Core Barrel
	Drive Casing

Sample Types:

	Split Spoon
	Shelby
	Bulk Sample
	Grab Sample
	Cone Penetrometer
	Vane Shear
	Special Samplers
	Testpit

Example Rock Log

SANDSTONE, gray, fine grained, thickly bedded, hard field hardness.

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LOG OF BORING

Boring 9800000-1

Sheet 1 of 1

Project: S-238/S-300-RYEGATE		Rig: CME 850	Boring Location N: 702246.4 ft	Station:
Project Number: STPS STWD(742)		Hammer: Auto	Coordinates E: 2029671.3 ft	Offset:
UPN: 9800000		Boring Diameter: 8"	System: MT S.P. (E)	Ground Elevation: 3764.4 ft
Date Started: 9/25/23	Date Finished: 9/25/23	Drilling Fluid: None	Datum: NAD83	Elevation Source: Surveyed, Corected
Driller: Boyd		Notes:		PLS TRS-QQ: 5N 20E 18 - DD
Logger: Kettner		Abandonment: Cuttings + Bentonite		

Depth (ft) Elev. (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft) Elev. (ft)	MC (%)	LL	PL	-200 (%)	Qu (psi)	DD (pcf)	Remarks and Other Tests
5 3759.4			100		WH - WH - WH		TOPSOIL, SILT (ML), moist to wet, gray to brown, [A-4]. Frequent organics. Trace lean clay content. Sandy SILT (ML), very loose, moist to wet, gray, [A-4].	1.0 3763.4							Hollow stem augers with finger bit.
			75		2 - 2 - 2		Silty SAND with gravel (SM), very loose to medium dense, wet, gray to tan, fine to coarse grained, subangular to rounded, [A-2].	4.5 3759.9				NP 18			
10 3754.4			75		1 - 2 - 3										
			75		1 - 5 - 9										Heaving sand.
			75		1 - 5 - 12										
15 3749.4			75		11 - 31 - 50/0.4ft		Silty SHALE, dark gray, very soft to soft field hardness. Frequent evaporites.	13.8 3750.6							
								16.4 3748.0							

Boring Depth: 16.4 ft, Elevation: 3748.0 ft

(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ

Water Level Observations		During Drilling: 4.2 ft (3760.2 ft)	Remarks: Cave in at 6.5' after auger removal.
End of Drilling: 10.9 ft (3753.5 ft) +0.25 hrs. Augers In	After Drilling: 2.4 ft (3762.0 ft) +0.5 hrs. Augers Out		

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LOG OF BORING

Boring 9800000-2

Sheet 1 of 1

Project: S-238/S-300-RYEGATE		Rig: CME 850	Boring Location N: 702246.3 ft	Station:
Project Number: STPS STWD(742)		Hammer: Auto	Coordinates E: 2029586.9 ft	Offset:
UPN: 9800000		Boring Diameter: 8"	System: MT S.P. (E)	Ground Elevation: 3764.3 ft
Date Started: 9/26/23	Date Finished: 9/26/23	Drilling Fluid: None	Datum: NAD83	Elevation Source: Surveyed, Corrected
Driller: Boyd		Notes:		PLS TRS-QQ: 5N 20E 18 - DD
Logger: Kettner		Abandonment: Cuttings + Bentonite		

Depth (ft) Elev. (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft) Elev. (ft)	MC (%)	LL	PL	-200 (%)	Qu (psi)	DD (pcf)	Remarks and Other Tests
5 3759.3			75		WH - WH - WH		TOPSOIL, SILT (ML), moist to wet, gray to brown, [A-4]. Frequent organics. Trace lean clay content.	1.0 3763.3							Hollow stem augers with finger bit.
			100		WH - WH - WH		SILT with sand (ML), very loose, moist to wet, gray, [A-4].					NP 73			
10 3754.3			50		3 - 2 - 2		Silty SAND with gravel (SM), very loose to loose, wet, gray to tan, fine to coarse grained, subangular to rounded, [A-1].	7.0 3757.3							
			50		2 - 2 - 3							NP 18			
15 3749.3			75		1 - 2 - 4		Silty SAND (SM), loose, wet, gray, fine to coarse grained, subangular to rounded, [A-2]. Trace gravel.	12.8 3751.5							
			75		1 - 5 - 14		Silty SHALE, dark gray, very soft to soft field hardness.	16.0 3748.3							
			100		9 - 30 - 50/0.4ft			18.9 3745.4							

Boring Depth: 18.9 ft, Elevation: 3745.4 ft

(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ

Water Level Observations	During Drilling: 3.5 ft (3760.8 ft)	Remarks: Cave in at 9.3' after auger removal.
End of Drilling: 9.8 ft (3754.5 ft) +0.25 hrs. Augers In	After Drilling: 2.2 ft (3762.1 ft) +0.5 hrs. Augers Out	

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LOG OF BORING

Boring 9800000-3

Sheet 1 of 1

Project: S-238/S-300-RYEGATE		Rig: CME 850	Boring Location N: 702126.9 ft	Station:
Project Number: STPS STWD(742)		Hammer: Auto	Coordinates E: 2029597.1 ft	Offset:
UPN: 9800000		Boring Diameter: 8"	System: MT S.P. (E)	Ground Elevation: 3764.8 ft
Date Started: 9/26/23	Date Finished: 9/26/23	Drilling Fluid: None	Datum: NAD83	Elevation Source: Surveyed, Corrected
Driller: Boyd		Notes:		PLS TRS-QQ: 5N 20E 19 - AA
Logger: Kettner		Abandonment: Cuttings + Bentonite		

Depth (ft) Elev. (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft) Elev. (ft)	MC (%)	LL	PL	-200 (%)	Qu (psi)	DD (pcf)	Remarks and Other Tests
			50		WH - WH - WH		TOPSOIL, SILT (ML), very loose, moist to wet, gray to brown, [A-4]. Frequent organics. Trace lean clay content.	0.8 3764.0				NP 100			Hollow stem augers with finger bit.
			75		WH - WH - 1		Sandy SILT (ML), very loose, moist to wet, gray, [A-4].	3.2 3761.6							
5 3759.8			75		1 - 2 - 2		Silty SAND (SM), very loose, wet, gray, fine to coarse grained, subangular to rounded, [A-2]. Trace gravel.				NP 13				
			50		3 - 3 - 4		Poorly-Graded SAND with silt and gravel (SP), loose, wet, gray to tan, fine to coarse grained, subangular to rounded, [A-1].	7.0 3757.8			NP 12				
10 3754.8			75		1 - 2 - 3		Silty SAND (SM), loose to medium dense, wet, gray, fine to coarse grained, subangular to rounded, [A-2]. Trace gravel.	9.5 3755.3							
			75		4 - 5 - 7										
15 3749.8			100		4 - 10 - 18										Heaving sand.
							Silty SHALE, dark gray, very soft to soft field hardness.	16.0 3748.8							
								16.5 3748.3							
Boring Depth: 16.5 ft, Elevation: 3748.3 ft															

(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ

Water Level Observations		During Drilling: 4.8 ft (3760.0 ft)	Remarks: Cave in at 4.1' after auger removal.
End of Drilling: 2.9 ft (3761.9 ft) +0.25 hrs. Augers In	After Drilling: 1.7 ft (3763.1 ft) +0.5 hrs. Augers Out		



LOG OF BORING

Boring 9800000-4

Sheet 1 of 2

Project: S-238/S-300-RYEGATE				Rig: CME 55		Boring Location N: 702201 ft				Station:			
Project Number: STPS STWD(742)				UPN: 9800000		Hammer: Auto		Coordinates E: 2029607 ft				Offset:	
Date Started: 8/28/24				Date Finished: 8/29/24		Boring Diameter: 8"		System: MT S.P. (E)				Ground Elevation: 3768.4 ft	
Drilling Fluid: Water				Location Source: Scaled from Plans		Datum: NAD83				Elevation Source: Plans			
Driller: Lewis				Notes:				PLS TRS-QQ: 5N 20E 19 - AA					
Logger: Lewis/Kluth								Abandonment: Cuttings					

Depth (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft)	MC (%)	LL	PL	-200 (%)	Qu (psi)	DD (pcf)	Remarks and Other Tests
5							FILL, Clayey GRAVEL with sand (GC), dry to moist, light brown to brown, fine to coarse grained, angular to subrounded, [A-2].	3.0							Hollow stem augers with PGT conical bit.
3763.4			80		1 - 4 - 5		FILL, Sandy Lean CLAY with sand (CL), stiff, moist, light brown to brown, [A-6]. Trace gravel.	6.5	15	28	17	72			
							Sandy, Silty CLAY (CL-ML), moist to wet, brown to gray, [A-4].	10.0							
10			70		1 - 2 - 2		Silty SAND with gravel (SM), loose to very loose, wet, brown, fine to coarse grained, angular to rounded, [A-2].	18.0							
3758.4															
15			80		3 - 3 - 5							25			Switched to HQ3 coring with surface set bit and water. RQD was not recorded.
3753.4			70		4 - 4 - 5										
					3 - 4 - 5										
20			45		WH - 2 - 5										
3748.4			80		7 - 19 - 33		Silty SHALE, dark gray, very soft to soft field hardness.								
25			90		9 - 40 - 50/0.4ft										
3743.4															
30															
3738.4															

Water Level Observations				<div> During Drilling: 6.4 ft (3762.0 ft) </div> <div> After Drilling: 5.3 ft (3763.1 ft) +1.5 hrs. Augers Out </div>		Remarks: 10.9' During Drilling, Augers In, 08/29, a.m. / End Drilling, Augers In not measured. / Cave in at 13.5'.	
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(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ

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LOG OF BORING

Boring 9800000-4

Sheet 2 of 2

Project: S-238/S-300-RYEGATE				Rig: CME 55		Boring Location N: 702201 ft				Station:		
				Hammer: Auto		Coordinates E: 2029607 ft				Offset:		
Project Number: STPS STWD(742)			UPN: 9800000		Boring Diameter: 8"		System: MT S.P. (E)				Ground Elevation: 3768.4 ft	
Date Started: 8/28/24			Date Finished: 8/29/24		Drilling Fluid: Water		Location Source: Scaled from Plans				Elevation Source: Plans	
Driller: Lewis			Notes:				PLS TRS-QQ: 5N 20E 19 - AA					
Logger: Lewis/Kluth							Abandonment: Cuttings					

Depth (ft) Elev. (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft) Elev. (ft)	MC (%)	LL	PL	-200 (%)	Qu (psi)	DD (pcf)	Remarks and Other Tests
35 3733.4							Medium to moderately hard field hardness.						5352	155	
40 3728.4													3899	156	
													3876	154	
Boring Depth: 44.6 ft, Elevation: 3723.8 ft								44.6 3723.8							

Water Level Observations		<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">▽</div> During Drilling: 6.4 ft (3762.0 ft) </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">▽</div> After Drilling: 5.3 ft (3763.1 ft) +1.5 hrs. Augers Out </div>	Remarks: 10.9' During Drilling, Augers In, 08/29, a.m. / End Drilling, Augers In not measured. / Cave in at 13.5'.
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(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ



LOG OF BORING

Boring 9800000-5

Sheet 1 of 2

Project: S-238/S-300-RYEGATE				Rig: CME 55		Boring Location N: 702189 ft		Station:	
Project Number: STPS STWD(742)				UPN: 9800000		Hammer: Auto		Coordinates E: 2029651 ft	
Date Started: 8/27/24				Date Finished: 8/28/24		Boring Diameter: 8"		System: MT S.P. (E)	
Date Started: 8/27/24				Date Finished: 8/28/24		Drilling Fluid: Water		Datum: NAD83	
Driller: Lewis				Notes:				PLS TRS-QQ: 5N 20E 19 - AA	
Logger: Lewis/Kluth								Abandonment: Cuttings	
Depth (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft)	MC (%)
Elev. (ft)								LL	PL
								-200 (%)	Qu (psi)
								DD (pcf)	Remarks and Other Tests
5			100		3 - 11 - 9		FILL, Poorly-Graded GRAVEL with clay and sand (GP-GC), medium dense, dry to moist, light brown, fine to coarse grained, angular to subrounded, [A-2].	8	
3762.9			65		4 - 5 - 4			1.5	
			65		4 - 1 - 2		FILL, Clayey GRAVEL with sand (GC), loose, dry to moist, light brown to brown, fine to coarse grained, angular to subrounded, [A-2].	9	
			65		2 - 2 - 2			3.0	
			65		WH - WH - WH		FILL, Sandy Lean CLAY with gravel (CL), soft, moist, light brown to brown, [A-6].	13	
			100		WH - WH - WH		Sandy, Silty CLAY (CL-ML), soft to very soft, moist to wet, light brown to gray, [A-4].	16	
10			100		1 - 3 - 3			19	
3757.9			65		1 - 3 - 5		Silty SAND with gravel (SM), loose, wet, gray to tan, fine to coarse grained, subangular to subrounded, [A-2].	25	19
			75		2 - 3 - 3			62	
15			65		1 - 2 - 5			19	
3752.9			100		7 - 19 - 35				
			100		15 - 35 - 50/0.4ft		Silty SHALE, dark gray, very soft to soft field hardness. Frequent evaporites.	10.7	
			100		15 - 48 - 50/0.3ft			3757.2	
20			100		35 - 50/0.2ft				
3747.9			100		39 - 50/0.3ft			17.8	
			100					3750.1	
25			100						
3742.9			100						
			100						
30			100						
3737.9									
Water Level Observations							During Drilling: 6.3 ft (3761.6 ft)		
End of Drilling:							After Drilling: 6.2 ft (3761.7 ft) +1.5 hrs. Augers Out		
(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ							Remarks: End Drilling, Augers In not measured. / Cave in at 18.8'		

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LOG OF BORING

Boring 9800000-5

Sheet 2 of 2

Project: S-238/S-300-RYEGATE				Rig: CME 55		Boring Location N: 702189 ft				Station:			
Project Number: STPS STWD(742)				UPN: 9800000		Hammer: Auto		Coordinates E: 2029651 ft				Offset:	
Date Started: 8/27/24				Date Finished: 8/28/24		Boring Diameter: 8"		System: MT S.P. (E)				Ground Elevation: 3767.9 ft	
Drilling Fluid: Water				Location Source: Scaled from Plans				Elevation Source: Plans					
Driller: Lewis				Notes:				PLS TRS-QQ: 5N 20E 19 - AA					
Logger: Lewis/Kluth								Abandonment: Cuttings					

Depth (ft)	Operation	Sample Type	Recovery (%)	RQD (%)	Blow Count	Lithology	Material Description	Depth (ft)	MC (%)	LL	PL	-200 (%)	Qu (psi)	DD (pcf)	Remarks and Other Tests
Elev. (ft)								Elev. (ft)							
35							Medium to moderately hard field hardness.								
3732.9															
40															
3727.9															
45															
3722.9															
50															
3717.9															
Boring Depth: 50.0 ft, Elevation: 3717.9 ft								50.0							
								3717.9							

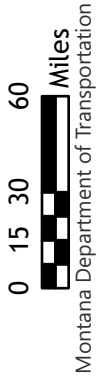
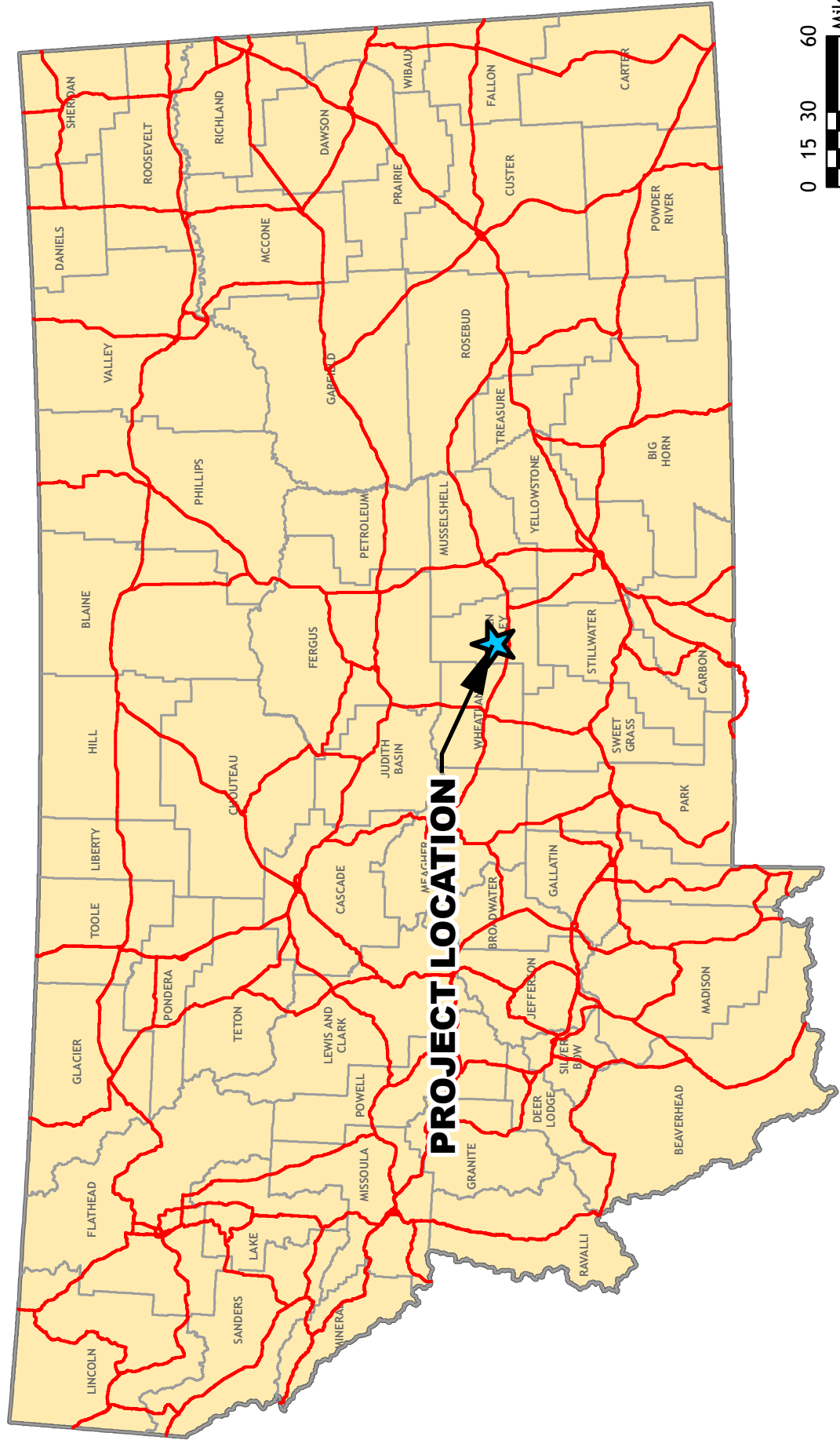
Water Level Observations		<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">▽</div> <div>During Drilling: 6.3 ft (3761.6 ft)</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">▽</div> <div>After Drilling: 6.2 ft (3761.7 ft) +1.5 hrs. Augers Out</div> </div>	Remarks: End Drilling, Augers In not measured. / Cave in at 18.8'
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(2) MDT LOG OF BORING - MDT, 2016+WELL, V1, GDT - 6/26/25 10:14 - W:\PROJECTS\2018+PROJECTS\9800000.GPJ

**FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION STATE MAP - MONTANA**



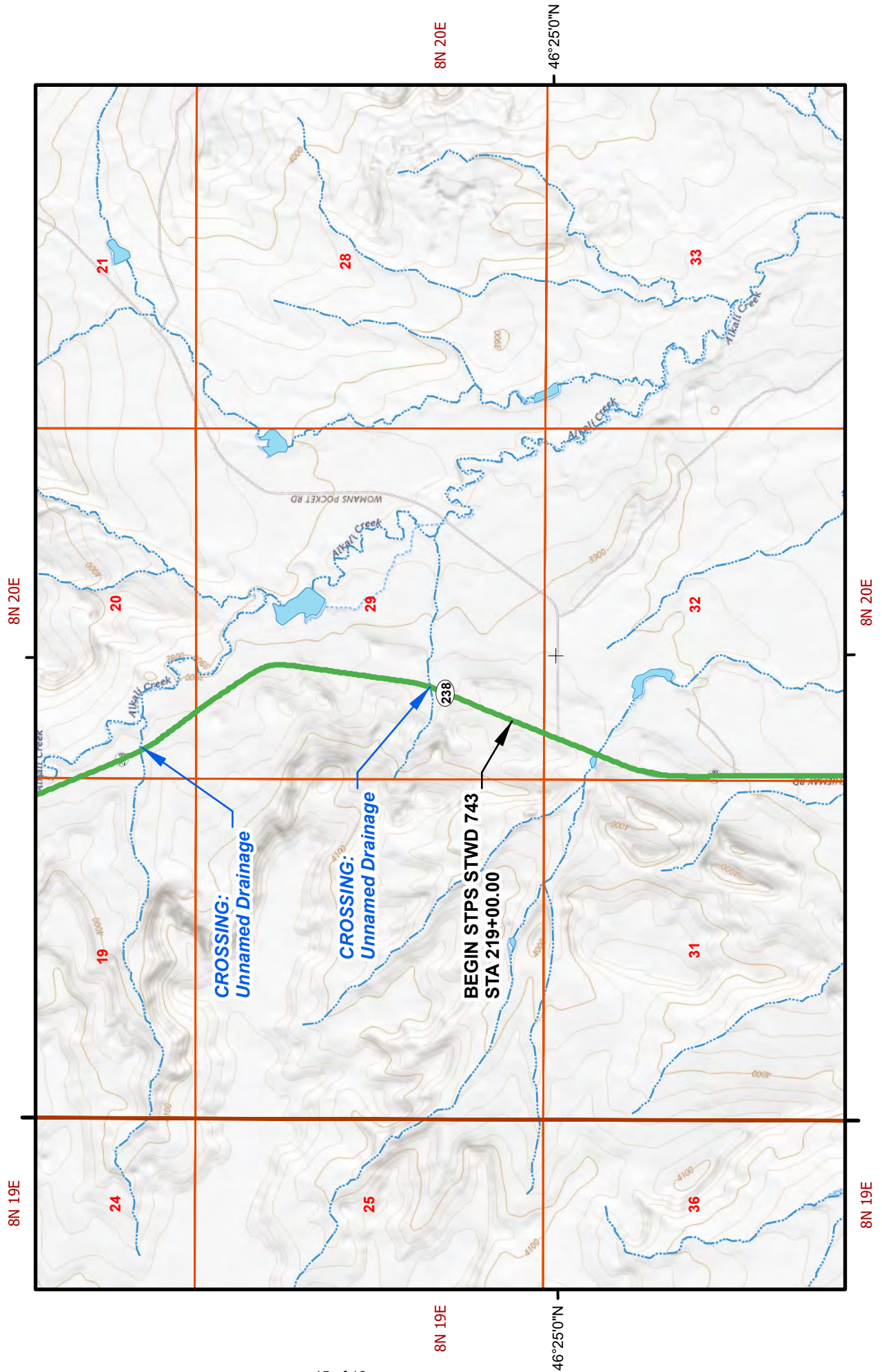
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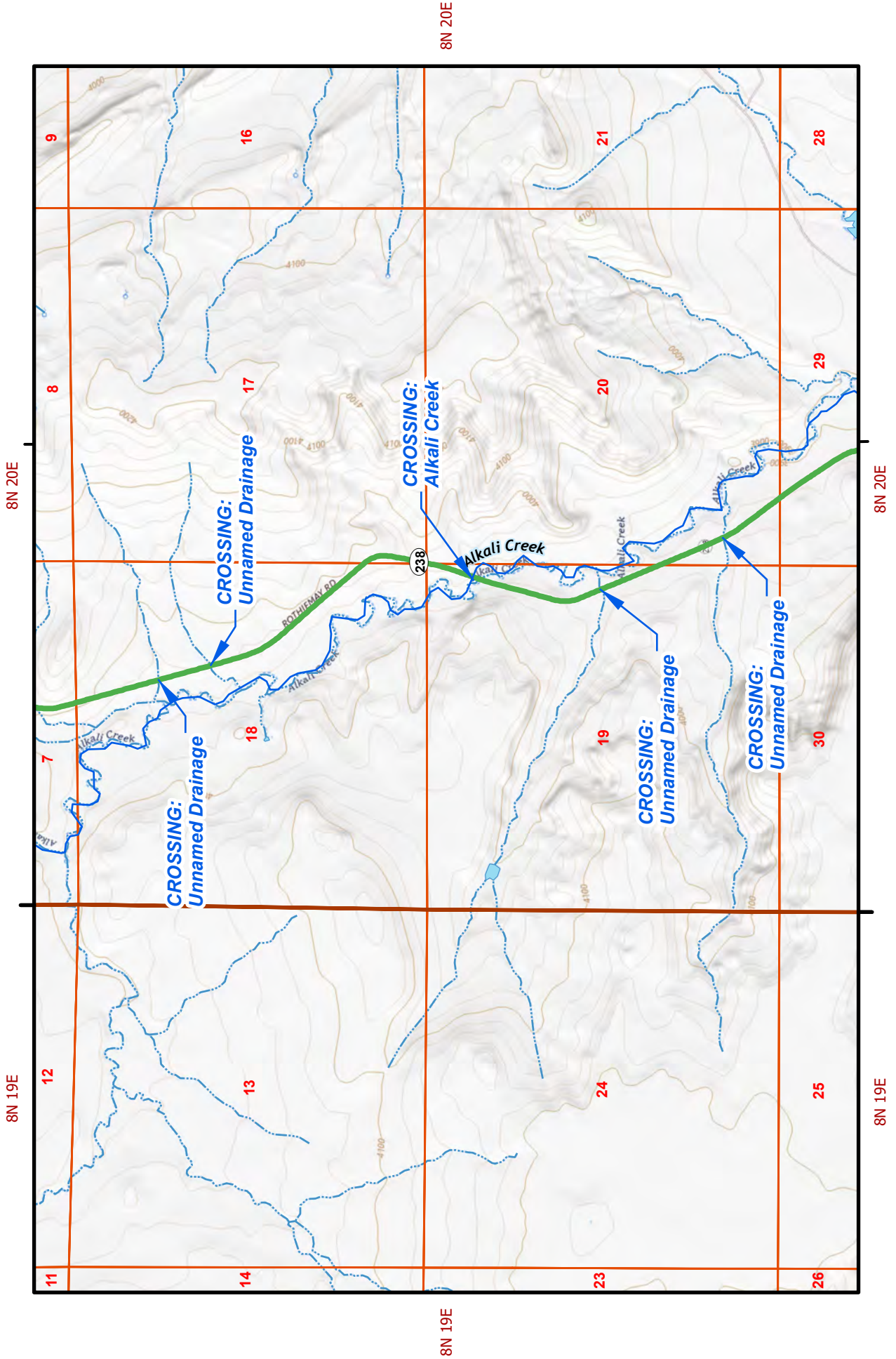
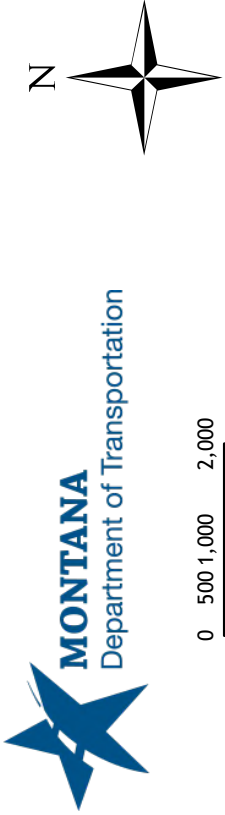


Department of Transportation

**FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION QUAD MAP -
GOLDEN VALLEY COUNTY 1 OF 5**

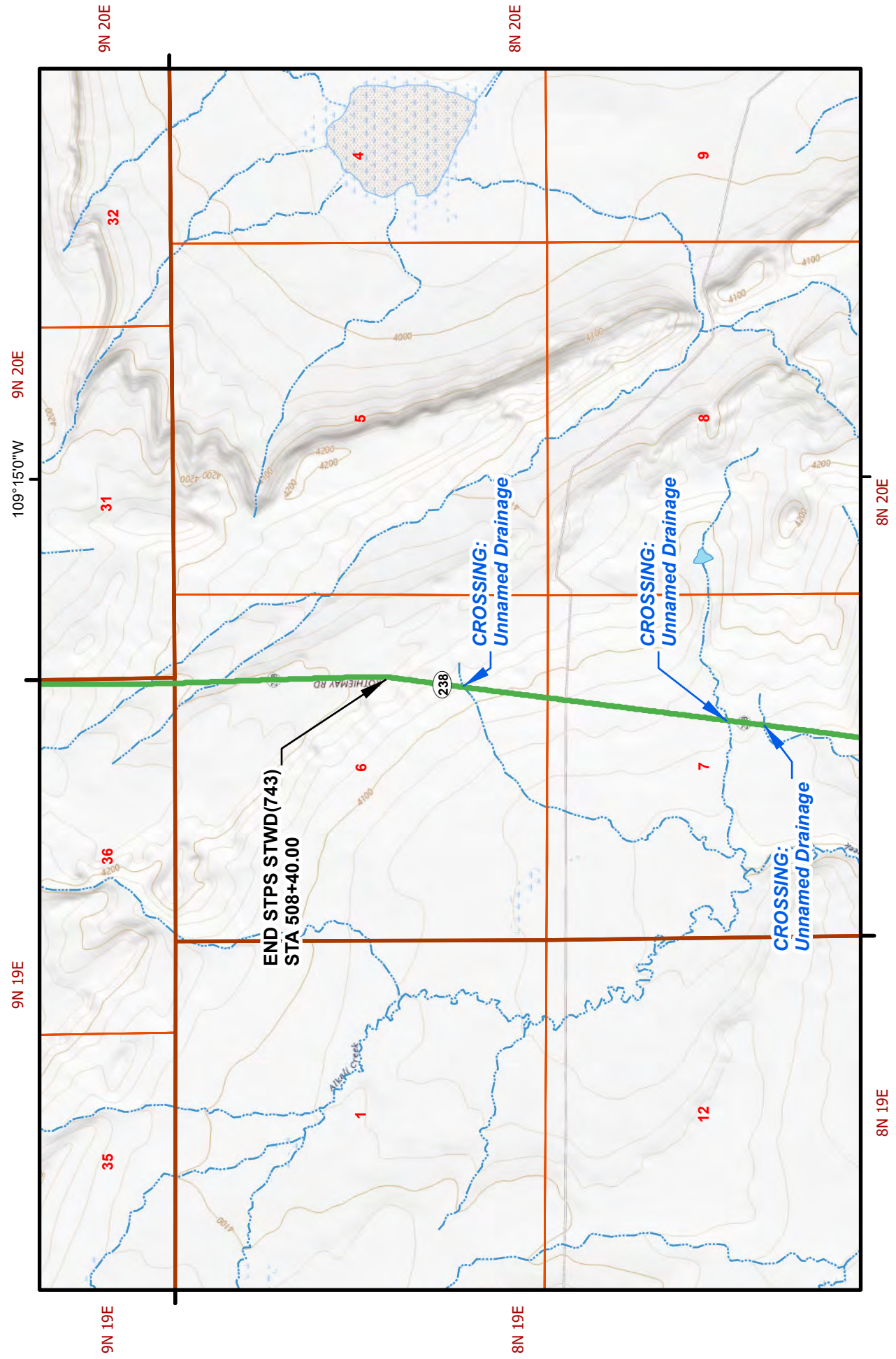
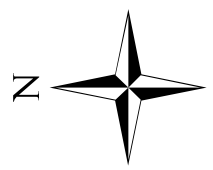


FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION QUAD MAP -
GOLDEN VALLEY COUNTY 2 OF 5

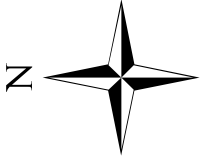




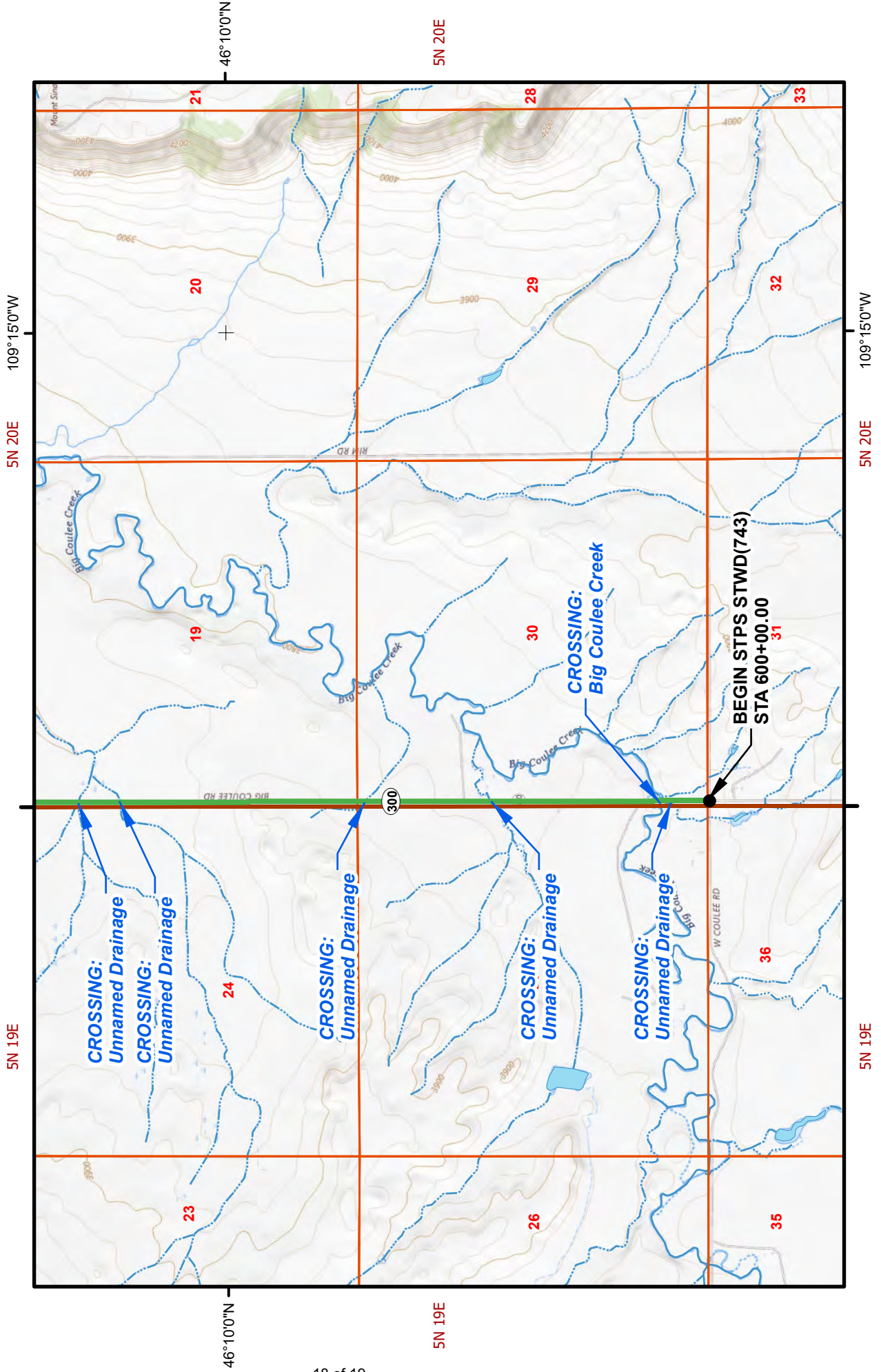
**FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION QUAD MAP -
GOLDEN VALLEY COUNTY 3 OF 5**



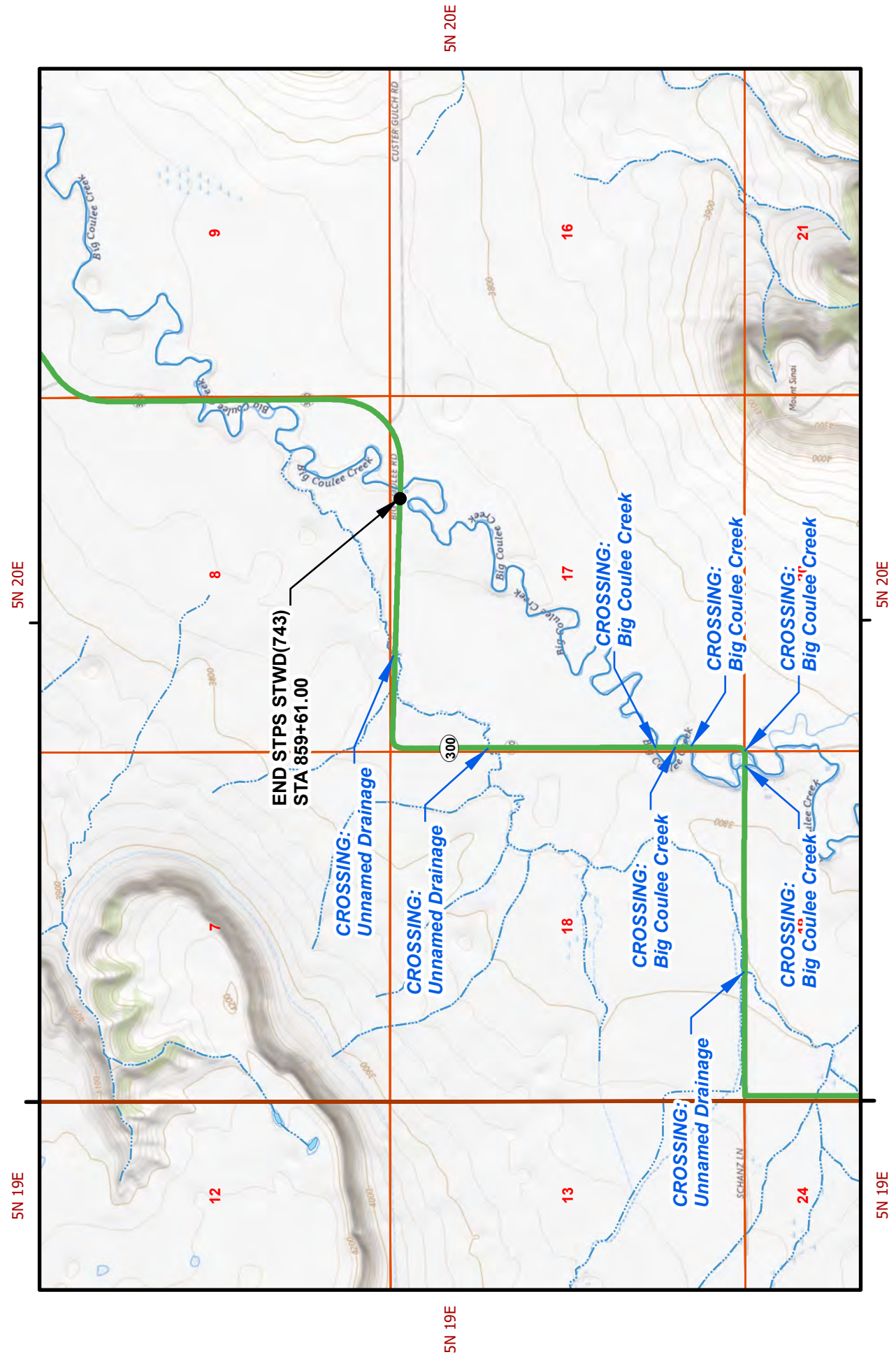
FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION QUAD MAP -
GOLDEN VALLEY COUNTY 4 OF 5



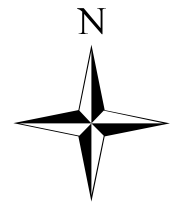
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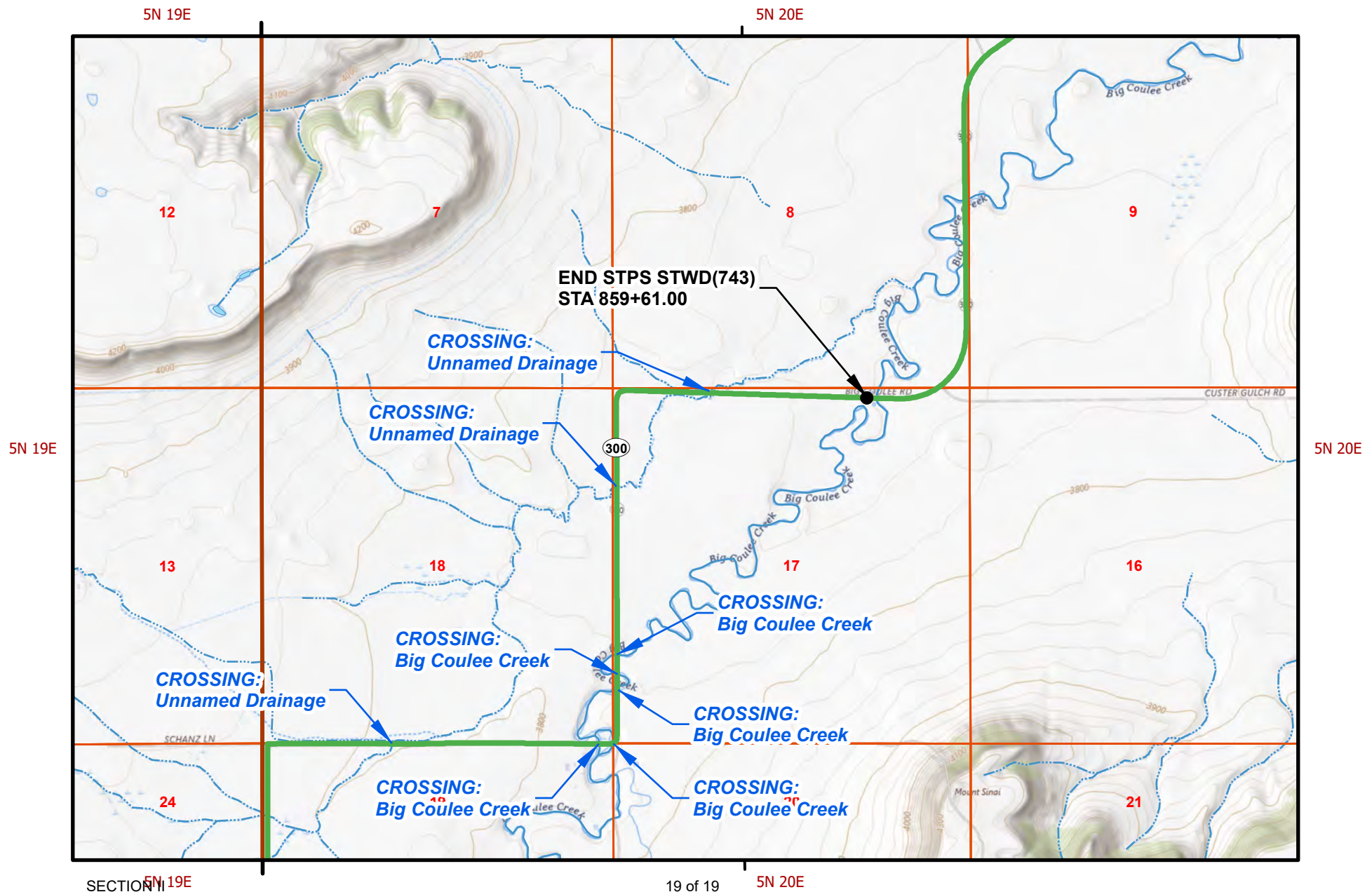
**FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION QUAD MAP -
GOLDEN VALLEY COUNTY 5 OF 5**



FEDERAL AID PROJECT STPS STWD(743)
GRAVEL, GUARDRAIL, STRUCTURE REPLACEMENT
S-238/S-300 - RYEGATE
CONTROL NUMBER 9800000
PROJECT LOCATION QUAD MAP -
GOLDEN VALLEY COUNTY 5 OF 5



0 500 1,000 2,000
Feet



STANDARD PROVISIONS INDEX**FEDERAL AID PROJECTS****CONTAINS**

Federal Wage Rates (Rev. 1-16-2026).....	5 Pages
Requirements & Acknowledgement for Working on Railroad R/W	1 Page
Required Contract Provisions Federal-Aid Const. Contracts (FORM FHWA-1273) [Rev.10-23-2023]	14 Pages
Supplemental Revisions for Required Contract Provisions Federal-Aid Const. Contracts (FORM FHWA-1273) [Added 2-4-2016]	1 Page
EEO Affirmative Action Req. on Federal-Aid Construction	1 Page

"General Decision Number: MT20260080 01302026

State: Montana

Construction Type: Highway

Counties: Montana Statewide.

HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	1/16/2026

SAMT2025-001 01/11/2025

	<u>Rates</u>	<u>Fringes</u>
CARPENTER		
Carpenter	\$ 37.13	14.66
Millwright	\$ 42.10	15.14
CEMENT MASON/CONCRETE FINISHER	\$ 34.41	17.00
DIVER		
Diver Tender	\$ 46.66	18.93
Diving	\$ 95.44	18.93
Standy-By.	\$ 47.72	18.93

The Tender shall receive 2 hours at the straight time pay rate per shift for dressing and/or undressing when work is done under hyperbaric conditions.

Depth Pay (Surface Diving):

0-20 ft.: Free zone
 >20-100 ft.: \$2.00 per ft.
 >100-150 ft.: \$3.00 per ft.
 >150-220 ft.: \$4.00 per ft.
 >220 ft.: \$5.00 per ft.

Diving in Enclosures (Diver Only):

0-25 ft.: Free zone
 >25-300 ft.: \$1.00 per ft.

ELECTRICIAN	\$ 40.25	20.60
IRONWORKER		
Reinforcing Iron and Rebar Workers	\$ 34.83	25.37
Structural Iron and Steel Workers	\$ 34.83	25.37
LABORER		
Group 1.....	\$ 28.54	12.73
Group 2.....	\$ 31.80	12.73
Group 3.....	\$ 32.03	12.73
Group 4.....	\$ 33.08	12.73

GROUP 1: Flag Person for Traffic Control

GROUP 2: General Labor; Asbestos Removal; Burning Bar; Bucket Man; Carpenter Tender; Caisson Worker; Cement Mason Tender; Cement Handler (dry); Chuck Tender; Choker Setter; Concrete Worker; Curb Machine-Lay Down; Crusher and Batch Worker; Heater Tender; Fence Erector; Landscape Laborer; Landscaper; Lawn Sprinkler Installer; Pipe Wrapper; Pot Tender; Powderman Tender; Rail and Truck Loaders and Unloaders; Ripraper; Sign Erection; Guardrail and Jersey Rail; Spike Driver; Stake Jumper; Signalman; Tail Hoseman; Tool Checker and Houseman and Traffic Control Worker

GROUP 3: Concrete Vibrator; Dumpman (Grademan); Equipment Handler; Geotextile and Liners; High-Pressure Nozzleman; Jackhammer (Pavement Breaker) Non-Riding Rollers; Pipelayer; Posthole Digger (power); Power Driven Wheelbarrow; Rigger; Sandblaster; Sod-Cutter-power and Tampers

GROUP 4: Hod Carrier; Water Well Laborer; Blaster; Wagon Driller; Asphalt Raker; Cutting Torch; Grade Setter; High- Scaler; Power Saws (Faller & Concrete); Powderman; Rock & Core Drill; Track or Truck Mounted Wagon Drill and Welder incl. Air Arc

LINE CONSTRUCTION

Equipment Operator.....	\$ 39.53	19.16
Groundman.....	\$ 30.86	18.17
Lineman.....	\$ 51.61	20.48

PAINTER..... \$ 37.08 13.23

PILE BUCKS..... \$ 36.49 14.33

POWER EQUIPMENT OPERATOR:

Group 1.....	\$ 33.44	13.15
Group 2.....	\$ 35.59	13.15
Group 3.....	\$ 36.77	13.15
Group 4.....	\$ 37.77	13.15
Group 5.....	\$ 39.17	13.15
Group 6.....	\$ 40.45	13.15
Group 7.....	\$ 43.21	13.15

GROUP 1: Air Compressor; Auto Fine Graders; Belt Finishing; Boring Machine (small); Cement Silo; Crane, A-Frame Truck Crane; Crusher Conveyor; DW-10, 15, and 20 Tractor Roller; Farm Tractor; Forklift; Form Grader; Front End Loader Under 1 CU Yard; Heavy Duty Drills; Herman Nelson Heater; Mulching Machine; Oiler, All Except Cranes & Shovels; Pumpman

GROUP 2: Air Doctor; Backhoe/Excavator/Shovel up to and including 3 CU Yard; Bit Grinder; Bituminous Paving Travel Plant; Boring Machine Large; Broom, Self-Propelled; Concrete Travel Batchers; Concrete Float & Spreader; Concrete Bucket Dispatcher; Concrete Finish Machine; Concrete Conveyor; Distributor; Dozer; Rubber-Tired, Push & Side Boom; Elevating Grader/Gradall; Field Equipment Serviceman; Front End Loader 1 CU Yard to including 5 CU Yard; Grade Setter; Heavy Duty Drills, All Types; Hoist/Tugger, All; Hydra lift Forklifts & Similar; Industrial Locomotive; Motor Patrol (except finish); Mountain Skidder; Oiler, Cranes/Shovels; Pavement Breaker, EMSCO; Power Saw, Self-Propelled; Pugmill; Pumpcrete/Grout Machine; Punch Truck; Roller, Other Than Asphalt; Roller, Sheepsfoot (Self-Propelled); Roller, 25 Tons and Over; Ross Carrier; Rotomill Under 6 Ft; Trenching Machine; Washing/Screening Plant

GROUP 3: Asphalt Paving Machine; Asphalt Screed; Backhoe/Excavator/Shovel Over 3 CU Yard; Cableway Highline; Concrete Batch Plant; Concrete Curing Machine; Concrete Pump; Cranes; Creter; Cranes, Electric

Overhead; Cranes 24 Tons and Under; Curb Machine/Slip Form Paver; Finish Dozer; Front End Loader Over 5 CU Yard; Mechanic/Welder; Pioneer Dozer; Roller Asphalt (Breakdown & Finish); Rotomill, Over 6 FT; Scraper, Single, Twin or Pulling Belly Dump; Yo-Yo Cat Haul Truck, Articulating Trucks, Vac Truck

GROUP 4: Asphalt/Hot Plant Operator, Cranes, 25 Tons up to and incl. 44 Tons; Crusher Operator; Finish Motor Patrol; Finish Scraper

GROUP 5: Cranes, 45 Tons up to and incl. 74 Tons

GROUP 6: Cranes, 75 Tons up to and incl. 149 Tons; Crane, Whirley (All)

GROUP 7: Cranes, 150 Tons up to and incl. 250 Tons; Cranes, over 250 tons-add \$1.00 for every 100 tons over 250 tons; Crane, Tower (All); Crane Stiff-Leg or Derrick; Helicopter Hoist

TRUCK DRIVER

Group 1.....	\$ 29.06	12.95
Group 2.....	\$ 36.81	12.95

GROUP 1: Pilot Car

GROUP 2: Combination Truck and Concrete Mixer and Transit Mixer; Dry Batch Trucks; Distributor Driver; Dumpman; Dump Trucks and Similar Equipment; Dumpster; Flat Trucks; Lumber Carriers; Lowboys; Pickup; Powder Truck Driver; Power Boom; Serviceman; Service Truck/Fuel Truck/Tireperson; Truck Mechanic; Trucks with Power Equipment; Warehouseman, Partsman, Cardex and Warehouse Expeditor; Water Trucks

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

=====

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>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded.

If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

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) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", "SA", or "SC" denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate 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. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the 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. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier. "SU" wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the "SA" identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

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

- a survey underlying a wage determination
- an existing published wage determination
- an initial WHD letter setting forth a position on a wage determination matter
- an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to: davisbaconinfo@dol.gov or by mail to:

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

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to: BCWD-Office@dol.gov or by mail 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 an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail 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 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.

=====
END OF GENERAL DECISION"

**"CONTRACTOR REQUIREMENTS AND
ACKNOWLEDGMENT FOR
WORKING ON RAILROAD RIGHT-OF-WAY"**

This document must be dated and signed by the Contractor and submitted to the State before occupying or working on Railroad right-of-way.

- 1) No change, which has a direct effect on the Railroad, will be made to construction plans without submitting revised plans and receiving approval from the Railroad. Work covered by the plans, that requires flagging, will be covered by the Railroad/Highway Agreement. For work that is a result of the contractor's discretion, flagging protection will be required when equipment crosses or is working within 25 feet (7.62 meters) of center of any live track. When deemed necessary by local Railroad officers, a flagman may be required at all times while working on Railroad right-of-way in high density rail traffic area.
- 2) Crossing of any Railroad tracks must be done at approved locations and must be full depth timber, rubber, etc. Any equipment with steel wheels, lugs or tracks must not cross steel rails without the use of rubber tires or other approved protection. This shall apply specifically to, but not be limited to, access for Contractor furnished gravel, borrow or waste sites. The Contractor will be required to obtain a permit from the Railroad, and comply with any provisions thereof, before using any private Railroad crossings. All track crossing locations must be covered by a Private Roadway and Crossing Agreement. This does not apply to any public crossing.
- 3) Costs of flagging or planking protection of the tracks, which are a direct result of the planned construction, will be paid for by the State. Costs of flagging, planking for protection of the tracks, installation of new crossings or other work caused by the Contractor's discretion, will be paid by the Contractor.
- 4) When work to be performed by the Contractor is not covered in the Railroad/Highway agreement, the Contractor must furnish a plan to the Railroad for approval showing details as to how any work that may affect the Railroad will be accomplished.
- 5) Storing of construction materials or any other material, including dirt, sand, etc., within the Railroad right-of-way, will not be allowed unless covered by an easement, construction permit, or Contractor's permit/lease.
- 6) Construction within 25 feet (7.62 meters) of the center of any track not covered by the Railroad/Highway agreement will require plan approval and authorization by the Railroad Superintendent Maintenance and Engineering. This includes, but is not limited to, any excavation, slope work and driving of sheet piling.
- 7) No vehicles, equipment or machines shall be parked or stored unattended within 25 feet (7.62 meters) of any track, on railroad right-of-way, without specific written approval of the Railroad.
- 8) When any work is to be performed on Railroad property by the Contractor that is not shown in the construction plans, the Contractor must submit a detailed plan of the work to the Railroad for their approval.

CONTRACTOR'S ACKNOWLEDGMENT:

WORK SITE LOCATION:

Company

Town

By: _____
Name

State

Title

Project #

Date

Rev. 01/01/04

FHWA-1273 – Revised October 23, 2023

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action.

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants /

Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:

The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division

under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

3. Records and certified payrolls (29 CFR 5.5)

a. Basic record requirements (1) Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) Information required. Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) Additional records relating to fringe benefits. Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) Additional records relating to apprenticeship. Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. Certified payroll requirements (1) Frequency and method of submission. The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting

agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) Information required. The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHDL/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) Statement of Compliance. Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) Use of Optional Form WH-347. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address

of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices* (1) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and [29 CFR part 30](#).

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the

event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;
- b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;
- c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or
- d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;

- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and

health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or

cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS** (23 CFR 633, Subpart B, Appendix B)
This provision is applicable to all Federal-aid projects funded
under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Supplemental Revisions for FHWA Form-1273 (Dated May 1, 2012)
Required Contract Provisions
Federal-Aid Construction Contracts

The following are supplementary or amendatory to the May 1, 2012, FHWA Form-1273 insofar as they apply to this contract:

Add the following provisions in accordance with the FHWA memo dated December 11, 2015:

Utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

Furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in above paragraph to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

SPECIAL PROVISIONS**EEO AFFIRMATIVE ACTION REQUIREMENTS ON FEDERAL & FEDERAL-AID CONSTRUCTION CONTRACTS**

Federal-aid contractors are hereby notified they are subject to the OFCCP goals and economic areas for minority and female participation expressed below. Compliance with the goals and OFCCP affirmative action efforts for contracts and subcontracts consisting of \$10,000 or more will be determined by OFCCP officials.

Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)

1. The Offeror's or Bidder's attention is called to the Equal Opportunity Clause and "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
2. The goals and timetables 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 FEMALE PARTICIPATION (statewide) 6.9%

GOALS FOR MINORITY PARTICIPATION IN EACH TRADE**Economic Areas:**

152	Non-SMSA (Standard Metropolitan Statistical Area) Counties Daniels, Richland, Roosevelt, Sheridan	4.4%
153	Great Falls, MT SMSA Counties 3040 Great Falls, MT Cascade	3.2%
	Non-SMSA Counties Blaine, Broadwater, Chouteau, Fergus, Glacier, Hill, Jefferson, Judith Basin, Lewis & Clark, Liberty, Meagher, Petroleum, Phillips, Pondera, Teton, Toole, Valley, Wheatland	4.1%
154	Missoula, MT Non-SMSA Counties Beaverhead, Deer Lodge, Flathead, Granite, Lake, Lincoln, Madison, Mineral, Missoula, Powell, Ravalli, Sanders, Silver Bow	2.7%
155	Billings, MT SMSA Counties 0880 Billings, MT Yellowstone	3.3%
	Non-SMSA Counties Big Horn, Carbon, Carter, Custer, Dawson, Fallon, Gallatin, Garfield, Golden Valley, McCone, Musselshell, Park, Powder River, Prairie, Rosebud, Stillwater, Sweet Grass, Treasure, Wibaux, Yellowstone Nat'l Park	3.3%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and 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, and 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, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of 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 name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.