

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE N/A	PAGE 1 of 3
2. AMENDMENT/MODIFICATION NO. <b>A004</b>	3. EFFECTIVE DATE <b>03/16/09</b>	4. REQUISITION/PURCHASE NO. N/A	5. PROJECT NO. (If applicable) <b>WY PRA YELL 10(15)</b> <b>Grand Loop Road (Madison to Norris, Segment B)</b>	
6. ISSUED BY Department of Transportation Federal Highway Administration 610 East Fifth Street Vancouver WA 98661-3801		CODE N/A	7. ADMINISTERED BY (If other than Item 6) CODE N/A	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and Zip Code)			<b>X</b>	9A. AMENDMENT OF SOLICITATION NO. <b>DTFH70-09-R-00001</b>
				9B. DATED (SEE ITEM 11) <b>2/13/2009</b>
				10A. MODIFICATION OF CONTRACT/ORDER NO. N/A
				10B. DATED (SEE ITEM 13) N/A
CODE: N/A		FACILITY CODE: N/A		

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers

is not extended,  is extended.

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

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

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

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

**E. IMPORTANT: Contractor n/a is not, n/a is required to sign this document and return n/a copies to the issuing office.**

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

WY PRA-YELL 10(15) Grand Loop Road (Madison To Norris, Segment B)

See Pages 2 and 3 for Revisions

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

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

**REVISIONS ARE AS FOLLOWS:**

**CONTRACT REQUIREMENTS**

Page 2 of Amendment A002

**SPECIAL CONTRACT REQUIREMENTS**

Page E-10, Subsection 105.02(a) Government-provided sources - Adds paragraph

Page E-11, Repaginates

Page E-12, Subsection 105.02 Materials Sources - Reformats last two sub-bullets in  
Subsection 105.02(a)(2)(a)

Page E-13, Repaginates

Page E-14, Repaginates

Page F-5, Subsection 203.03 Salvaging Material - Deletes last paragraph

Page F-10, Subsection 204.06 Roadway Excavation - Adds paragraph to Subsection  
204.06(a)

Page F-10, Subsection 204.06 Roadway Excavation - Deletes references to plans in  
Subsection 204.06(c), paragraph 3

Page F-11, Subsection 204.06 Roadway Excavation - Deletes last paragraph

Page F-12, Subsection 204.14 Disposal of Unsuitable or Excess Material - Modifies first  
paragraph

Page F-27, Subsection 211.05 General - Adds paragraph after the sixth paragraph

Page F-41, Subsection 303.01 - Adds sentence to haul material

Page F-42, Subsection 310.03 General - Adds sentence

Page F-55, Subsection 408.01 - Adds sentence for lime

Page F-95, Subsection 620.03 General - Modifies second paragraph on page 95

Page F-104, Subsection 622.01 - Adds (u)

### **PLANS - PEN AND INK CHANGE(S)**

Please make the following pen & ink change(s):

Plan sheet #H.18	Adds "760 mm (min)" below 2 - #13 bearing bars on Typical Construction Shotcrete Reinforcement Detail
Plan sheet #N.38	Revises stationing from 21+610-21+700 to 11+610 - 11+720

### **ENCLOSURES**

Pages:

Page 2 of A002  
E-10 – E-13  
F-5  
F-10 – F-13  
F-27  
F-41  
F-42  
F-55  
F-95  
F-104

Page(s) not included due to Pen and Ink change(s):

H.18  
N.38

**REVISIONS ARE AS FOLLOWS:**

**PLANS - PEN AND INK CHANGE(S)**

Please make the following pen & ink change(s):

Plan sheet #H.16	Adds "Nail bar length = 4.0 m" for the wall section beginning at SW8+812 and extending to the end of the wall
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## Section 105.— CONTROL OF MATERIAL

### 105.02 Material Sources. Amend as follows:

**(a) Government-provided sources. Add the following to the third paragraph:**

Do not perform aggregate source quality tests listed in the Sampling and Testing Requirements Table of other Sections when using Government-provided sources.

Salvage rock spoils from masonry production sites and incorporate into riprap, rockery stone buttress stone, or other rock product item within the contract.

Add the following:

Government-provided sources for this project are identified as follows:

**(1) Government-provided mandatory sources.**

(a) Within the Gibbon Falls Area (7+820 to 8+650) obtain material for use as boulders, rock structures, and in the production of stone masonry under Sections 204, 608, 609, and 620, from suitable material at the following locations:

- Rock conserved from the excavation left of centerline between 7+820 and 8+650;
- Stockpiled rock along the embankment edge of the Gibbon Falls Picnic Area; and
- Boulders found within the Iron Springs Disposal Area according to the following:
  - Sort and salvage rock materials at the site. Split and shape stones on site or at other locations as provided within this Section. Haul excess stones to the Norris Staging and Stockpile Site and stockpile at locations determined by the CO as provided under Section 622.
  - Construct and maintain the Iron Springs Disposal Area access road in a suitable condition for vehicular access during construction operations. Conserve topsoil materials and store adjacent to the work area. Obliterate the roadway and cover with conserved topsoil upon completion of the work. Construction and obliteration of the Iron Springs access road will not be measured for payment.

(b) Obtain material for use as cold recycled asphalt base course from pavement materials conserved under Section 310.

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(c) Obtain material for use as recycled aggregate subbase from aggregate materials underlying the pavement layer and conserved under Section 310. Excess recycled aggregate materials, not required in the construction of the subbase layer, may be used as bed course material in the construction of other minor items of work.

(d) Obtain additional wetland topsoil and sod, from materials located at the Gibbon Meadows Pit, as shown on the plans. Use these materials in the placement of wetland topsoil under Section 624.

(e) Obtain topsoil material for placement at the completed Gibbon Falls Picnic Area from topsoil conserved from the Madison Disposal Site and the Iron Spring Disposal Site.

(f) Obtain timber logs necessary in the construction of log deflectors and log weirs from a site located 3.2 miles north of Norris Junction. The site is approximately 100 meters in length left and right of centerline and provides 50 trees from 200 to 355 dbh. Remove only those logs felled and delineated within the area. Logs are located within 3 meters of the existing pavement.

(g) Remove designated aggregate and rock stockpiles at the Madison Landfill Site. Incorporate these materials into work items within the project limits. This site is currently in use for the production of concrete under a National Park Service contract at Old Faithful. Coordinate loading and hauling operations with the other contractor.

(h) Obtain stone materials necessary to perform the stone masonry repairs at the Seven Mile Bridge from displaced stones found within the adjacent stream channel. If additional stone materials are required, the CO will designate suitable stone materials from within the project limits or the immediate local area.

**(2) Government-provided optional sources.**

(a) Outside the Gibbon Falls area (7+820 to 8+650), obtain material for use as boulders, rock structures, and in the production of stone masonry, under Sections 204, 251, 252, 253 608, 609, 620, and 647 from suitable material at the following locations:

- Rock conserved from the excavation left of centerline between 7+820 and 9+010;
- Native boulders within the existing Grand Loop Road (obliteration) between station OB 8+860 and 11+680;
- Stockpiled rock along the embankment edge of the Gibbon Falls Picnic Area;
- Stockpiled material at Gibbon Meadows Pit as shown in the plans;

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- Suitable boulders located at the Norris Quarry as shown in the plans and according to the following;
  - The exact limits of the pit will be designated by the CO before work. Sort all boulders and rock material encountered within the designated limits. Additional excavation of the rock slope is not allowed. Split and shape stones as required to provide stones suitable for final placement.
  - Prepare and maintain access road in a suitable condition for vehicular access.

When multiple stone sources are used in the construction of an individual masonry structure, mix the production stones to eliminate banding of colors and textures.

Provide stones matching the color and texture of the stones used in the construction of the Gibbon River Bridge at 12+690, in the construction of stone masonry at the Gibbon River Bridge at 8+868 and adjoining masonry faced retaining wall, and the masonry faced soil-nail wall.

(b) Obtain material for use as select borrow, structural backfill and rockery backfill under Sections 204, 208 and 252 from suitable material at the following locations and as shown within the Plans:

- Stockpiled material at the Gibbon Meadow Pit;
- Rock material in the pit floor at the Norris Staging and Stockpile Site
- Rock material conserved from the excavation.

Haul materials to the Norris Staging and Stockpile Site for processing.

There is no charge for material taken from sources identified under (a) and (b).

(c) Obtain compost materials used in the production of manufactured topsoil from sources meeting the requirements of Subsection 713.01(c). An acceptable product is available from;

West Yellowstone Compost Facility  
263 Ecology Lane  
(PO Box 226)  
West Yellowstone, MT 59758  
(460) 646-9298 phone  
(460) 646-9301 fax

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

Sources within the Park boundaries will not be permitted.

Obtain permits and clearances according to Subsection 107.10.

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Obtain materials for use under Section 401 from sources located outside the Park boundary. Prior to delivering aggregate materials from sources outside Park boundaries, heat all materials to 150° C to ensure sterilization of any noxious weed. Do not stockpile the heated material outside Park boundaries before delivery. Deliver heated material directly to the Park. This requirement may be waived if the source meets Park weed-free inspection. Inspections may be requested between June 1 and mid September of any year.

Obtain stone as necessary for use in stone masonry structures at the Gibbon River Bridge (8+868), the adjoining masonry faced retaining wall, and masonry faced soil-nail retaining wall from sources located outside the Park boundaries. Select a source or sources capable of producing stones of the required size and matching the varying colors, textures, and characteristics of stones used in the Gibbon River Bridge and associated walls located at 12+690. Multiple sources may be required to meet the requirements of Section 620. Deliver five sample stones (each 150 millimeters by 250 millimeters) of varying colors, textures, and characteristics to the CO. If possible, include digital color photographs of the source showing areas in which the sample stone were obtained. Make the source available for inspection by the CO. Allow 14 days for approval.

Obtain obsidian sand for use in the mortar mix for masonry structures from a source approved by the CO. Submit a 1 kilogram sample of sand depicting color and gradation 7 days before start of masonry work.

**105.02A Water Sources.** (Added Subsection.)

Water for this project is limited according to Subsection 107.10. Obtain water from the Gibbon River at the Gibbon Falls Picnic Area and turnouts located at 8+860 and 15+400. No other sources are approved for use.

**105.04 Storing and Handling Material.** Delete the text of the second paragraph and substitute the following:

The following areas may be used:

- (a) Gibbon Falls Picnic Area for stockpiling materials, cutting and finishing stone for stone masonry, and storing equipment. This area may also be used for concrete batch plant and asphalt pug mill site. Store fuel products a minimum of 90 meters from the Gibbon River or as required under Section H. No excavation is permitted in this area without prior approval of the CO. No aggregate washing is allowed at this site;
- (b) Norris Staging and Stockpile Site for crushing operations and for batch plant production of pavement materials. The area may also be used for stockpiling of materials and storing equipment. Store fuel products a minimum of 90 meters from the Gibbon River. No aggregate washing is allowed at this site;
- (c) The parking area south of Beryl Springs Bridge for storage of material and parking of equipment during the repair of the Beryl Springs Bridge;

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**(d)** The turnout located left of centerline at 8+680 and the realignment segment of road between 8+960 and 11+750 while closed to the public for construction of the new Gibbon River Bridge. These locations may also be used for the production of stone materials necessary in the construction of the bridge and soil nail wall. Remove all rock spoils and incorporate into other rock items within the contract;

**(e)** The existing roadway and turnouts from OB 8+860 to 11+680, while the road is closed to public travel, for storing equipment and stockpiling materials used directly in the obliteration of the existing roadway;

**(f)** The existing roadway, turnout, and parking areas from 9+050 to 11+620, while the road is closed to public travel, may be used for storing equipment and stockpiling materials. Do not store materials that would contaminate the existing aggregate surfacing layer;

**(g)** The Madison Junction Maintenance Area may be used for contractor administrative operations. Coordinate locations of office trailers, restroom facilities and utility hookups with the CO. A trailer site will be made available for a watchman or security person use.

**(h)** When performing work at the Seven Mile Bridge repair site, stage and store materials and equipment at the Sheepeater Cliff trailhead approach as shown on the plans. Provide planking, mats, or other methods approved by the CO to limit impact to the area. Provide traffic control devices and management according to Sections 156 and 635.

Restore all Government-provided storage sites to their original condition.

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Salvage excess recycled aggregate material, conserved under Section 310 and not required in the construction of the project. Stockpile materials at the Norris Staging and Stockpile Area at locations designated by the CO.

**203.04 Removing Material.** Delete the text of this Subsection and substitute the following:

**(a) General.** Saw cut sidewalks, curbs, pavements, and structures when partial removal is required.

Construct structurally adequate debris shields to contain debris within the construction limits. Do not permit debris to enter waterways, travel lanes open to public traffic, or areas designated not to be disturbed.

Raze and remove all foundations, pavements, sidewalks, curbs, fences, structures, and other obstructions interfering with the work and not designated to remain.

Where part of an existing culvert is removed, remove the entire culvert upstream from the removal. The remaining downstream culvert may be left in place if no portion of the culvert is within 1 meter of the subgrade, embankment slope, or new culvert or structure; and the culvert ends are sealed with concrete.

Remove structures and obstructions in the roadbed to 1 meter below subgrade elevation. Remove structures and obstructions outside the roadbed to 0.5 meter below finished ground or to the natural stream bottom.

Abandon existing manholes, inlets, catch basins, and spring boxes according to Subsection 604.07.

Except in excavation areas, backfill and compact cavities left by structure removal with backfill material to the level of the finished ground. Backfill excavated areas according to Subsection 209.10. Compact backfill according to Subsection 209.11.

Do not remove signs or pipe culverts before the road closure under Subsection 108.01(c).

Existing gates are to remain in place to manage traffic, until determined that they are no longer needed.

**(b) Concrete removal by mechanical impact methods.** Saw cut 20 millimeters deep along all boundaries of repair areas.

Use power-driven hand tools to remove existing concrete with the following restrictions:

- (1) Do not use jack hammers heavier than 140 newtons.

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Add the following:

Where grading operations expose the historic masonry guardwall below existing asphalt grade, clean all existing masonry that will be visible above the proposed asphalt finished grade line of asphalt and other debris.

Conserve a total of 3,000 cubic meters of boulder material from the excavation and other operations within the project limits. Boulder material is defined as rocks greater than 700 millimeters dimensionally. Store material in safe locations until grading operations are complete. Haul material to the Gibbon Meadow Pit and stockpile at locations determined by the CO.

**(b) Rock cuts.** Add the following:

A portion of the excavation of the Gibbon Falls cut (8+230 to 8+410) will involve tuff bedrock with vertical joints that roughly parallel the alignment. The slope ratios provided are intended for use in locating the top of the cut and calculating excavation quantities. Excavate the final face of the rock cuts on the natural horizontal and vertical joints to create a series of short benches approximating the slope ratio. Where the joints angle off from the alignment, cut the final face in a sawtooth pattern similar to the rock faces in the existing cut. This excavation will consist of blocky rock. Construct the final cut face with a large excavator that can extract the blocks from the slope, breaking on the natural rock joints. Some blocks are likely to require secondary reduction prior to use as stone masonry or other rock products. See Geotechnical Report No 06-08.

**(c) Conserved boulders.** Add the following:

Limit work according to Subsection 108.01. Provide rock materials from sources identified under Section 105. Conserve boulders not suitable for stone masonry and matching color, texture and required sizes. The CO will identify selected boulders to conserve for use within the Gibbon Falls pedestrian area. Sort and store boulders for use under Section 204 and 647 in a protected location at the Gibbon Falls Picnic Area or at locations directly adjacent to the final placement location. Store boulders individually. Do not stockpile. Handle materials in a manner to minimize scaring or damage of the patina and lichen surface.

Boulders locations will be staked by the CO before final placement.

Boulders are defined by size and listed as type 1 thru 5. For boulders designated as seating boulders, provide boulders with a predominately flat top surface suitable for the intended use.

Landscape and seating boulders to be set in pavement or concrete surfaces, within pedestrian use areas, will be selected by the CO. Construct the final subgrade of the area to the defined grade. Provide a stable and compacted surface for setting the boulder. Set boulder to the desired orientation, ensuring firm placement with no rocking or movement. Provide expansion joint filler around the boulder when set in concrete. Construct surfacing layers around the boulder according to Section 615.

When boulders are set in soil slopes, bury the boulder to a depth of 1/3 the mass. Lay boulders on firm beds, backfill and compact as required using hand operated equipment. When installing boulders above pedestrian use areas, batter the excavation as shown in the plans, to ensure stability of the boulder.

Boulders designated as bike rack are individual boulders selected by the CO, for the intended use and installed according to the plans. Install boulder firmly in soil as described. Orient the boulder to provide a flat surface at the bicycle lock-up location. Install a drop forged ring bolt with secondary lock-up ring as shown in the plans.

Sign boulders will be selected by the CO and installed in soil slopes as described. Provide boulders of the approximate dimensions shown in the plans, with a flat surface suitable for installation of the directional signs. Orient the boulder to provide proper public viewing for their intended use.

Clean the boulders through light brooming or other approved methods to remove soil material. Perform final cleaning of boulder after concrete has cured.

**204.07 Subexcavation.** Add the following:

Do not excavate bedrock or compacted sinter materials. Limit excavation to the dimensions shown or as designated by the CO.

Provide a compacted recycled aggregate subbase as a driving surface within 3 days of backfilling the subexcavated area.

Scarify the existing asphalt surface in subexcavation areas. Reduce all particles to a uniformly graded material with a maximum particle size of 150 millimeters. Stockpile the scarified material and blend with select borrow, not exceeding 50 percent by volume. Compact each blended layer according to Subsection 204.11(a).

**204.10 Embankment Construction.** (b) **Embankment within the roadway prism.** Add the following:

Construct the top 300 millimeters of the embankment with 150-millimeter minus material conserved from the roadway cuts.

**204.13 Sloping, Shaping, and Finishing.** (a) **Sloping.** Delete the text of the first paragraph and substitute the following:

Construct slopes with roughened surfaces according to roadside development details shown in the plans.

Construct slopes to staked slope ratios, but steepen or flatten randomly and intermittently to simulate the irregularity of existing terrain. Sculpt slopes to produce irregular ledges, shelves, and planting pockets for vegetation by steepening the nominal slope ratio in staggered locations suitable for placement of topsoil and vegetation.

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Leave undisturbed boulders that are firmly in place and protruding from the slope but will be more than three meters from the edge of the finished pavement.

**(1) Earth slopes.** Add material to the fill slopes to obtain varying and undulating contoured slope, rounding at toe of fills, and to flatten selected slopes to blend with existing land forms or promote revegetation, when shown on the plans or determined by the CO. Round tops and bottoms of all slopes, including the slopes of drainage ditches. Do not round slopes in wetlands.

Place boulders in the slope face at locations staked by the CO. Bury boulders to a depth of 1/3 their mass. Lay boulders on firm beds and backfill as required using hand operated equipment.

Place conserved snags and trees on slopes according to Section 647.

**(2) Rock slopes.** Construct rock slopes to simulate surrounding rock outcroppings. Round material overlaying solid rock to the extent practical. Scale all rock slopes as the excavation process progresses and slopes are still accessible to the equipment.

The CO will approve the final slope surface and treatment before placement of topsoil and mulch.

**204.14 Disposal of Unsuitable or Excess Material.** Delete the text of the first paragraph and substitute the following:

Do not dispose of boulder material greater than 700 millimeters dimensionally. Dispose of unsuitable or excess material less than 700 millimeters dimensionally at the following locations:

- Madison Junction Disposal Site;  
Construct a haul access road from the Grand Loop Road, as shown on the Plans. The CO will establish the necessary clearing limits prior to construction. Minimize grading and disturbance when constructing the roadway. The CO will locate one turnout to be constructed, to facilitate the haul operation. Obliterate the roadway when final grading has been completed. Construction and obliteration of the Madison Junction Disposal Site access road will not be measured for payment.
- Station OB 8+860 to 11+680 on the Grand Loop Road for the purpose of obliterating the roadway;
- Iron Springs Disposal Site;

Construct the Gibbon Falls Picnic Area with remaining quantities of excess and unsuitable materials. Adjust the height of island mounding to match available quantities.

See Section 211 for material management when obliterating the roadway from OB 8+860 to 11+680. Conserve fine material as topping for coarser material.

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**211.05 General.** Obliterate the roadway as identified by segments and not necessarily in this order:

- Segment 1 OB 8+860 to 9+100;
- Segment 2 OB 9+100 to 9+620;
- Segment 3 OB 9+620 to 10+100;
- Segment 4 OB 10+100 to 10+700;
- Segment 5 OB 10+700 to 11+140 (Gibbon River Tanker Curve Bridge); and
- Segment 6 OB 11+140 to 11+680.

Limit obliteration work according to Subsection 108.01.

Monitor water quality according to Section 157 and the associated project permits.

Survey according to Section 152. Provide additional survey necessary to control grading operations.

Before performing work within each of the obliteration segments, determine the need of additional temporary erosion control devices to adequately control erosion and sedimentation during grading operations of the proposed obliteration plan. Submit to the CO for approval, proposed modifications to the erosion control plan identifying additional silt fence and or sand bag locations to protect adjacent resource areas. Install temporary and or permanent erosion control devices at the designed or approved locations, according to Section 157 and construction fencing according to Section 635, before beginning operations. Adjust or install erosion control devices as grading operations progress, to protect sensitive resource sites or waters.

Clear the area of vegetation and obstructions according to Sections 201 and 203. Do not disturb material and vegetation outside the obliteration limits. Install construction fence around sensitive areas containing fragile geologic formations or rare plant communities, as directed by the CO.

Conserve boulders suitable for use in rock items as defined under Section 105. Use conserved boulders in the production of rock material items within the contract. Salvage the remaining boulder material according to 204.06(a). Limit embankment of boulder material within the obliteration segment according to Subsection 204.14.

Salvage and stockpile topsoil, including wetland topsoil according to Section 204. When directed by the CO, construct wetland topsoil and sod storage locations, adjacent to the immediate work area providing similar natural hydrologic conditions. Store the materials temporarily until placed in their final location. Perform work as provided under Sections 622 and 623.

Salvage plants and wetland topsoil, from OB 9+740 to 9+800 and OB 10+435 to 10+480 and as shown on the plans. Construct new plant site locations and connecting thermal hydrology, within the new contoured slopes. Perform work as provided under Sections 622 and 623.

Notify the CO in writing, 14 days before requiring any Government provided products.

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**Section 303.— ROAD RECONDITIONING**

**Description**

**303.01** Add the following:

This work also includes providing additional recycled pavement material to construct the surface layer. Haul of additional materials to the site is provided under Section 622.

**Materials**

**303.02** Add the following to the materials list:

Recycled pavement	703.18
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**Construction Requirements**

**303.06 Aggregate Surface Reconditioning.** Delete the text of this Subsection and substitute the following:

Remove all slide material, vegetation and other debris from the aggregate surface. Repair soft and unstable areas to the full depth of the aggregate surface and according to Subsection 204.07. Lightly scarify the existing 100 millimeters of aggregate to allow for blading and shaping. Do not contaminate existing aggregates with underlying subsoils. Perform survey work according to Section 152. Provide additional recycled pavement material conserved under Section 310, to supplement the existing aggregate. Construct the surfacing layer to the designed elevations. Finish and compact the aggregate surface according to Section 308.

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Special Contract Requirements

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## **Section 310.— RECYCLED ASPHALT BASE (ADDED SECTION)**

### **Description**

**310.01** This work consists of removing the existing asphalt concrete pavement layer and stockpiling the material for use under Section 408. This work also includes removing, stockpiling and then constructing a recycled aggregate subbase course using the aggregate underlying the existing asphalt pavement.

### **Material**

**310.02** Material shall conform to the following Subsections:

Recycled pavement	703.18
Water	725.01

### **Construction Requirements**

**310.03 General.** Establish profile and cross slope control according to Section 152. Ensure existing pavement is free of mud, soils, or other deleterious materials prior to recycling the pavement surface.

**310.04 Recycling.** Remove the existing pavement layer at the locations and to the depths shown on the plans. Adjust milling depths or conduct multiple passes as necessary to ensure all existing pavement is removed. Do not mix recycled pavement material with the underlying aggregates. Use machines that are:

- (a) Self-propelled;
- (b) Equipped with standard automatic depth controls adjustable in increments of 15 millimeter; and
- (c) Capable of maintaining a constant cutting depth in pavement structure, new aggregate, or a combination thereof.

**310.05 Recycled pavement.**

- (a) **Stockpiling.** Stockpile recycled pavement according to Subsection 105.04.
- (b) **Placement.** Use recycled pavement in the construction of cold recycled asphalt base course according to Section 408. Provide additional recycled pavement as filler from 9+010 to 11+626 to bring the existing emulsified treated base layer to design grade according to Section 303.

Revised by Amendment A004

Special Contract Requirements

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## Section 408.— COLD RECYCLED ASPHALT BASE COURSE

### Description

**408.01** Delete the text of this Subsection and substitute the following:

This work consists of constructing one or more courses of cold recycled asphalt base using stockpiled recycled asphalt pavement obtained under Section 310 combined with water, emulsified asphalt, and lime.

Emulsified asphalt grade is designated as shown in AASHTO M 208.

Lime will be included at a rate of 1% by weight of material.

### Construction Requirements

**408.03 Submittals.** Delete the text of this Subsection and substitute the following:

Submit the following at least 21 days before placing recycled asphalt base course.

(a) **Aggregate.** Provide a 300-kilogram sample of process recycled asphalt pavement meeting the requirements of Subsection 703.18.

(b) **Emulsified asphalt.** Source of and 20-liter sample of the emulsified asphalt to be used in the mixture. Furnish the sample in plastic containers.

(c) **Lime.** Source of and 5-kilogram sample of lime to be used in the mixture.

The CO will perform a mix design and provide an initial application rate for the emulsified asphalt and lime for the mix.

**408.07 Spreading, Finishing, and Compacting.** Delete the text of this Subsection and substitute the following:

Transport material according to Subsection 401.11. Use a paver to place and spread the material on the prepared surface. Shape the mixture to the proper line, grade, and cross-section.

Compact the mixture according to Subsection 416.08(a)(2).

Place fog seal on surface of recycled base after compaction. Dilute the fog seal 50 percent by volume with water and apply at a rate of 0.20 to 0.90 liters per square meter. Place blotter according to Section 411.

Provide final compaction according to Subsection 416.08(c)(2).

Revised by Amendment A004

Special Contract Requirements

Project: WY PRA-YELL 10(15), Grand Loop Road (Madison to Norris – Segment B)

Construct test sections for each type of stone masonry structure. Test sections may be incorporated in the work if approved by the CO. Provide an 8-meter test section for items measured by the meter, one sample for items measured by the each, and 8 square meters test section for items measured by the square meter. Do not construct masonry other than foundation masonry before approval of test section.

Furnish cut dimension stone from sources and according to the requirements of Section 105.

Salvage sound undamaged stones designated to be removed and reset according to Subsection 203.03.

Do not use coloring agent in the mortar mixture.

Apply pressure to embed obsidian sand into the fresh mortar joint surfaces. Match color and texture of mortar joint surfaces to be placed with an example of historic mortar found at the retaining wall (station 10+420-10+450). Submit for approval, mortar samples that represent the existing mortar. Obtain the obsidian sand from an approved source. Do not stockpile the material outside the park due to potential weed contamination.

**620.04 Placing Stone.** Amend as follows:

Delete first and third paragraph and Table 620-1.

Add the following:

Do not lay masonry when the ambient temperature of outside air or material temperature are below 4° C. Protect work from cold and frost and insure that mortar will harden without freezing. Remove and replace any work damaged by cold weather

Reset stones for headwalls and cut and set dimension stones, as required, to produce stone masonry structures similar to the disassembled structure or the historic nature of masonry structures in the area. Use stones of the same color and shape to blend with the existing stone.

Duplicate beds and joints to original widths to the extent practical. The thickness of beds and joints for face stones, in the construction of stone masonry wall, are not less than 18 millimeters nor more than 50 millimeters. Make the bed of each course of uniform thickness throughout.

Provide suitable equipment for setting stones at elevated locations on the bridge piers and abutments and also for setting stones larger than those that can be handled by two workers. The rolling or turning of stones causing marking or scaring will not be permitted.

When work is not in progress, protect stone faces against staining by covering the walls with non-staining waterproof coverings. When work resumes, clean the top surface of stone of all mortar and thoroughly dampen. Where new mortar joins partially or totally set masonry, remove loose mortar and dampen.

Revised by Amendment A004

Special Contract Requirements

Project: WY PRA-YELL 10(15), Grand Loop Road (Madison to Norris – Segment B)

- (l)** Removing existing thermal water drainage system at the Beryl Springs Bridge and installing a new clay pipe system as described under Section 602.
- (m)** Performing minor grading to stabilize slope at 12+640 right of centerline.
- (n)** Minor stone masonry repairs to the Gibbon Falls Wall and repairs to minor stone masonry structures throughout the project limits. Repairs include setting stones on existing concrete footing at 6+400.
- (o)** Providing minor survey assistance to the Government in conducting elevation or measurement checks during grading operations within the Obliteration Segments OB 8+860 to 11+680.
- (p)** Scaling of undisturbed cut slopes deemed necessary by the CO. Areas to include slopes to provide public safety within pedestrian use areas.
- (q)** Repositioning landscape boulders placed under Section 204 to provide final visual aesthetics.
- (r)** Perform the duties of the Traffic Control Laborer according to Subsection 156.08A.
- (s)** Hauling of excess stone from Iron Springs Disposal Area according to 105.02(a)(1)(a)
- (t)** Performing minor rock excavation to prepare MSE wall foundations
- (u)** Hauling of recycled pavement material necessary in the completion of the reconditioned aggregate surface under Section 303.

Revised by Amendment A004