



Purchasing Division

ADDENDUM NO. 9

DATE: May 10, 2021
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Hogchute (aka) Carson) Reservoir Dam Modifications Project IFB-4839-21-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. How much riprap will the contractor have to import?

A. Riprap should generally be stockpiled and replaced. The quarry shown on Sheet G03 will supplement any remaining need. This quarry may also be used for riprap in other locations and rocks for berms.

2. Q. Just wanted to check if Waterman and Orbinox gates can be approved as equals on this project?

A. As stated in the Specifications, the City will procure the gate. Contractor is responsible for installation only. Approved equals are not applicable.

3. Q. I did not see any proposed access locations into the coffer dam location. Can you show an access point for construction purposes?

A. Access is the responsibility of the Contractor. The Contractor will create, maintain and remove temporary access as part of their work in the Reservoir.

4. Q. Can you explain how the 30 inch relief pipe is to be kept in service while the CIPP process is going on?

A. It is intended that the 30-inch pipe will not be in service during improvements to the pipe and associated outlet components (e.g. slide gate, baffle structure, etc.). Dewatering is a part of this project.

5. Please make note of the following Bidding Requirements:

CHANGES TO SPECIFICATIONS

Item 1-1. Section 01 01 00 - General Requirements. 1.04 Project Meetings. Delete paragraph A and replace with following:

- A. A preconstruction conference will be scheduled after award of contract and prior to beginning work. This meeting shall be attended by A/E, Owner, SEO Representative, and an authorized representative of Contractor.

Item 1-2 Section 01 33 00 - Submittal Procedures. 1.01 Summary. Insert the following paragraph after A:

- B. At the preconstruction meeting the SEO will identify submittals requiring SEO approval.

Item 1-3 Section 01 57 60 Construction Dewatering.

1.02 Submittals. Delete A.3 and replace with the following:

3. Cofferdams less than 10 feet in height do not need to bear Professional Engineer's Stamp. If cofferdam height is greater than 10 feet, submit cofferdam drawing bearing Professional Engineer's Stamp. Drawing(s) shall include height and depth of cofferdam, width of cofferdam materials (sheet size or base width), and minimum grade elevations near cofferdam. A/E approval of Contractor cofferdam drawing shall be considered only as review in conformance with dewatering intent and not considered as a full structural review or confirmation that cofferdam is suitable for intended purpose.

1.03 Permits. Delete A, and replace with the following:

- A. General: Rehabilitation of the dam, including cofferdams and diversions, shall be in accordance with Colorado Division of Water Resources Office of the State Engineer Rule 8.1.1 Water Diversion Plan, DWR Rules and Regulations for Dam Safety and Dam Construction, U.S. Army Corps of Engineers (COE), Mesa County, and US Forest Service permits issued for project. The work is subject to inspection, review, and approval by these agencies.

Item 1-4 Section 03 30 30 Cast-In-Place Concrete.

1.05 Testing, delete D.1 and E.1, replace with the following:

D. Slump, Air Content, and Temperature Tests:

1. Perform slump, air content, and temperature tests prior to concrete placement each load, whenever there is a change in consistency of concrete, and when concrete cylinders are prepared.

E. Compressive Strength Tests

1. During progress of work, prepare two sets of test cylinders per 50 cu yd or fraction thereof for each class of concrete placed each day.

2.13 Concrete Mixtures. Insert after C:

- D. Add fiber reinforcement for usages indicated on the Drawings and at rate indicated in Part 4 Schedules.

3.18 Concrete Surface Repairs. Delete A.2 and A.3, replace as follows:

2. For patching within 7 days of concrete pour, use dry-pack mortar consisting of one part portland cement to 2-1/2 parts fine aggregate passing a No. 16 mesh sieve and only enough water as required for handling and placing. Cut out honeycomb, rock pockets, voids over 1/4 in. diameter, and holes left by tie rods and bolts. Remove defects down to solid concrete but, in no case, to a depth of less than 1 in. Make edges of cuts perpendicular to concrete surface or slightly undercut to provide a key at edge of cut. Thoroughly clean, dampen with water, and brush-coat area to be patched with bonding agent. Place patching mortar before bonding agent has dried. Compact mortar in place and strike off slightly higher than surrounding surface. For exposed-to-view surfaces, patch shall match color of surrounding concrete.

3. Beyond 7 days from pour concrete repairs need to be completed using an epoxy patching mortar.

4.02 Usage Schedule. Insert after A:

- B. Where fiber-reinforced concrete is indicated on Drawings, use synthetic fiber reinforcement at a minimum rate of 1.5 lb fiber per batch yard of concrete.

Part 2 PRODUCTS insert following after 2.13

2.14 BONDING AGENT

- A. Water-based epoxy resin/portland cement bonding agent; Sika "Armatec 110 EpoCem", or approved equal.

2.15 PATCHING MORTAR

- A. Horizontal Surfaces: Polymer-modified, portland-cement, trowel grade patching mortar; Sika "SikaTop 122 Plus", or approved equal.
- B. Vertical and Overhead Surfaces: Polymer-modified, portland-cement, fast-setting, non-sag patching mortar; Sika "SikaTop 123 Plus", or approved equal.

2.16 SYNTHETIC FIBER REINFORCEMENT

- A. Fibrillated polypropylene fibers designed for secondary reinforcement of concrete slabs, complying with ASTM C1116, Type III, not less than 3/4 in. long.

Item 1-5 Section 31 20 00 Earth Moving and Section 31 24 00 Embankments. Delete Section 31 20 00 and Section 31 24 00 and replace with Section 31 20 00 Earth Moving and Embankments (attached).

Item 1-6. Section 31 37 00 Riprap. Insert gradation table following 2.01.B

| Riprap Size Designation | Percent of Material Smaller Than Typical Stone | Typical Stone Dimension (inches) | Typical Stone Weight (pounds) |
|-------------------------|--|----------------------------------|-------------------------------|
| D50 = 12 inch | 70-100 | 21 | 440 |
| | 50-70 | 18 | 275 |
| | 35-50 | 12 | 85 |
| | 2-10 | 4 | 3 |
| D50 = 24 inch | 100 | 42 | 3500 |
| | 50-70 | 33 | 1700 |
| | 35-50 | 24 | 650 |
| | 2-10 | 9 | 35 |

Section 31 37 00 Riprap. Insert the following at the end of 2.01 RIPRAP:

- C. Riprap shall be washed to removed silts, clays, debris or organic matter if needed.

Item 1-7 Section 33 42 15 Piping and Accessories. Part 1 General. Insert the paragraph 1.03 following 1.02, Delete 2.01 E and replace with:

- E. Hole Spacing: 8 holes equally spaced around pipe circumference, every 1" of pipe.

1.03 QUALITY ASSURANCE

- A. Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code--Steel" and AWS D1.3 "Structural Welding Code--Sheet Steel." Certify that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.

Item 1-8. Section 35 22 28 Stainless Steel Slide Gates. 1.03 submittals. Replace A, B, and C with following

- A. O/M Manuals: Submit installation instructions and operation and maintenance manuals for slide gate and operators.
- B. Design Computations: Submit fabricators design computations of gate.

- C. Certifications: Submit certifications from fabricator that gate meets applicable ASTM and AWWA standards.
- D. Make submittals in accordance with Section 01 33 00.

Item 1-9. Section 33 41 66 Drain Fill. Revised Section 33 41 66 attached. Replace entire previous version.

Please make note of the following Changes to Drawings:

- Item 1-10. Drawing Set. Replace entire drawing set with revised drawings, attached. Revisions have been made throughout as noted on the drawings and as summarized below
1. Sheet 1. No changes.
 2. Sheet 2. Changes to General Notes.
 3. Sheet 3. No changes.
 4. Sheet 4. Added note that Stock Pile Area shown on Drawings can be used for imported and salvaged materials.
 5. Sheet 5. Additional borings added to cross section.
 6. Sheet 6. Updated spillway rating curves and tables.
 7. Sheet 7. Added excavation limits to drawing and added piezometers and survey monument locations with notes to not disturb or notify Engineer if item will be disturbed.
 8. Sheet 8. Added excavation limits to drawing and added piezometers and survey monument locations with notes to not disturb or notify Engineer if item will be disturbed.
 9. Sheet 9: Change cofferdam top elevation to EL 9860.
 10. Sheet 10 through 16. No changes.
 11. Sheet 17. Change verbiage for drain fill to consistently label Type 1 and Type 2 "Filter Material" as "Drain Fill" instead. Added Northings and Eastings for drain pipes.
 12. Sheet 18. Change layout of diaphragm drain and added drain outlet on north side of outfall pipe. Added rodent screens to drain pipe outfalls.
 13. Sheet 19. Show riprap bedding at outfall of energy dissipator. Revised drawing to better show filter diaphragm. Corrected sheet references. Revised location of filter diaphragm drain pipes.
 14. Sheet 20. No changes
 15. Sheet 21. Revised Detail C15.
 16. Sheet 22. Revised waterstop. Fixed erroneous note referring to a 30 degree elbow formed in concrete. The elbow is actually fabricated steel with a bend angle of 68 degrees.
 17. Sheet 23 through 30. No changes

18. Sheet 31. Change notes to indicate that the berm rock is Colorado DOT Std. Spec. D50=24" riprap.
19. Sheet 32. On Detail C26 change fill immediately downstream of overflow weir from Native Fill to Structural Fill.
20. Sheet 33 and 34. No changes
21. Sheet 35. Add note that locations and installation details for the pressure transducer and air bubbler must be approved by Engineer and SEO prior to installation
22. Sheet 36. Add note that concrete shown on Detail C28 is fiber reinforced concrete
23. Sheet 37. No changes
24. Sheet 38. Added note that reinforcing detailing tables apply to all reinforcing steel shown on the drawings.
25. Sheet 39. Added note on detail 3/C33 that dowels drilled into existing encasement are secured with epoxy adhesive. Edited note on detail 1/C33 to indicate that CIPP is terminated downstream of the steel elbow in straight pipe.
26. Sheet 40 to Sheet 42. No changes
27. Sheet 43. Added note that 22.5 degree HDPE bends are to be long-radius bends.

6. Contractor shall utilize the attach updated/modified Addendum 9 Price Bid Schedule when submitting their bid response.

ATTACHMENTS (Click Links)

- [Section 31 20 00 Earth Moving and Embankments \(10 pages\)](#)
- [Section 33 01 36 Cured-in Place Lining \(5 pages\)](#)
- [Section 33 41 66 Drain Fill \(4 pages\)](#)
- [Drawings Sheets 1 through 43](#)

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

Bid Schedule (Revised per Addendum No. 9): Hogchute (AKA Carson) Reservoir Dam Rehabilitation

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| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|----------|----------------------------------|--|----------|----------|------------|-------------|
| 1 | 626 01 22 50 | Mobilization | | Lump Sum | --- | \$ _____ |
| 2 | 208 01 57 19 | Erosion Control | | Lump Sum | --- | \$ _____ |
| 3 | 01 57 60 | Construction Dewatering | | Lump Sum | --- | \$ _____ |
| 4 | 02 41 00 | Demolition (intake, outfall, piping, controls, spillway grouted riprap, etc.) | | Lump Sum | --- | \$ _____ |
| 5 | 03 30 00 31 20 00 31 37 00 | Concrete Overflow Spillway (excavation, form, concrete placement, backfill, and riprap, etc.) | | Lump Sum | --- | \$ _____ |
| 6 | 31 24 00 31 20 00 | Embankment Excavation | | Lump Sum | --- | \$ _____ |
| 7 | 33 41 66 | Type I Filter Material | 1,000. | CY | \$ _____ | \$ _____ |
| 8 | 33 41 66 | Type II Filter Material | 120. | CY | \$ _____ | \$ _____ |
| 9 | 33 41 66 33 42 15 | HDPE Perforated Drain Pipe | 270. | LF | \$ _____ | \$ _____ |
| 10 | 33 41 66 33 42 15 | HDPE Solid Drain Pipe | 375. | LF | \$ _____ | \$ _____ |
| 11 | 31 24 00 31 20 00 31 23 33 | Embankment Backfill (embankment fill, rock shell, restore stockpile areas, etc.) | | Lump Sum | --- | \$ _____ |
| 12 | 35 22 28 33 42 15 | Stainless Steel Slide Gate | | Lump Sum | --- | \$ _____ |
| 13 | 03 30 00 33 42 15 05 50 00 | Concrete Buttress Intake Structure (Concrete buttress, conduit encasement, air vent and hydraulics conduit, steel elbow, etc.) | | Lump Sum | --- | \$ _____ |
| 14 | 26 05 43 33 42 15 | Locking Valve Box | | Lump Sum | --- | \$ _____ |
| 15 | 05 50 00 | Trash Rack | | Lump Sum | --- | \$ _____ |
| 16 | 32 92 26 | Wetland Soil Stockpiling | 4,100. | SY | \$ _____ | \$ _____ |
| 17 | 31 20 00 | Auxiliary Spillway Grading | 3,000. | SY | \$ _____ | \$ _____ |
| 18 | 31 37 00 | Auxiliary Spillway Rock Berms | 1,105. | LF | \$ _____ | \$ _____ |

Bid Schedule (Revised per Addendum No. 9): Hogchute (AKA Carson) Reservoir Dam Rehabilitation

&project

| Item No. | CDOT, City Ref. | Description | Quantity | Units | Unit Price | Total Price |
|--------------------|--|--|----------|-------|------------|--------------|
| 19 | 33 42 15 03 30 00 | 30-Inch Steel Pipe | 100. | LF | \$ _____ | \$ _____ |
| 20 | 33 01 36 | CIPP Pipe Lining | 300. | LF | \$ _____ | \$ _____ |
| 21 | 03 30 00 31 20 00 31 37 00 05 52 04 | Impact Basin (excavation, backfill, formwork, concrete, riprap, steel railing, etc.) | Lump Sum | | --- | \$ _____ |
| 22 | 32 92 26 32 99 10 | Site Restoration (placing topsoil, seeding, sodding, planting, mulching, etc.) | Lump Sum | | --- | \$ _____ |
| 23 | 40 70 10 | Early Warning System | Lump Sum | | --- | \$ _____ |
| 24 | 625 | Construction Surveying | Lump Sum | | --- | \$ _____ |
| Bid Amount: | | | | | \$ | _____ |

Bid Amount:

dollars

Signature

Name

Title

Date

Company