

CITY OF GRAND JUNCTION  
DEPARTMENT OF PUBLIC WORKS AND UTILITIES  
ENGINEERING DIVISION

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**Monument Connect Trail - Phase 2 Project**

**SPECIAL PROVISIONS**

**GENERAL:**

The descriptions of the pay items listed in the Bid Schedule for this Project may not agree with those listed in the Standard Specifications. Payment for all Work performed, as required in the Contract Documents, will be in accordance with the items and units listed in the Bid Schedule.

**STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:**

The *City of Grand Junction Standard Specifications for Road and Bridge Construction* are hereby modified or supplemented for this Project by the following modifications to *The Standard Specifications for Road and Bridge Construction*, State Department of Highways, Division of Highways, State of Colorado:

**SP-1 SECTION 203 – POTHOLING**

Section 203 of the Standard Specifications is hereby revised for this project as follows:

Subsection 203.05(g) shall include the following:

All potholing shall be accomplished using noninvasive, vacuum equipment. All potholing methods and locations shall be preapproved by the Project Engineer. Any potholing that has not been preapproved by the Project Engineer shall be at the Contractor's expense.

**SP-2 SECTION 203 – PROOF ROLLING**

Section 203 of the Standard Specifications is hereby revised for this project as follows:

Delete Subsection 203.11(f)

In Subsection 203.12, delete the pay item Proof Rolling and add the following:

Proof Rolling will not be measured and paid for separately but shall be included in the work.

**SP-3 SECTION 206 – EXCAVATION AND BACKFILL FOR STRUCTURES**

Section 206 of the Standard Specifications is hereby revised for this project as follows:

Subsection 206.07 shall include the following:

Structure excavation and structure backfill required for all manholes, valve boxes, inlets, walls, pipes, culverts, utility conduits, extensions, removed pipes and removed conduits will not be measured and paid for separately but shall be included in the work.

**SP-4 SECTION 212 – SEEDING**

Section 212 of the Standard Specifications is hereby revised for this project as follows:

Subsection 212.02 shall include the following:

City-owned Lands Seed mix shall be:

Common Name	Scientific Name	PLS (lbs/acre)
Indian Ricegrass	Achnatherum hymenoides	1.0
Thickspike Wheatgrass	Elymus lanceolatus	2.3
Western Wheatgrass	Pascopyrum smithii	7.5
Bluebunch Wheatgrass	Pseudoroegneria spicata	2.3
Slender Wheatgrass	Elymus trachycaulus	9.5
Red Mexican Hat	Ratibida columnifera	0.5
Blanket Flower	Gaillardia	1.5
Western Yarrow	Achillea millefolium	0.5
	<b>TOTAL</b>	<b>25.00</b>

BLM-owned Lands Seed mix shall be:

Greasewood Flats, Desert Scrubland

Common Name	Scientific Name	Variety	Percentage of Mix (%)	PLS (lbs/acre)
Western Wheatgrass	Pascopyrum smithii	Arriba, Rosana	35	9.5
Bottlebrush Squirreltail	Elymus elymoides	VNS	22	5.8
Alkali Sacaton	Sporobolus airoides	VNS	1	0.27
Sand Dropseed	Sporobolus cryptandrus	VNS	<1	0.09
Shadscale	Atriplex confertifolia	VNS	17	4.5
Four-wing Saltbush	Atriplex canescens	Source N of CO-NM line or above 5,000 ft	23	6.2

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Common Name	Scientific Name	Variety	Percentage of Mix (%)	PLS (lbs/acre)
Scarlet Globemallow	Sphaeralcea coccinea	VNS	2	0.47
	<b>TOTAL</b>			<b>25.00</b>

Must be able to verify source. Double seeding rate for broadcast seeding. All seed shall be certified weed free.

Contractor shall reference the Plan of Development (Appendix C of the Solicitation) for Reclamation Procedures outlined in Section 4.6.

**SP-5 SECTION 240 – BIOLOGICAL, PALEOLOGICAL, AND CULTURAL MANAGEMENT**

Section 240 of the Standard Specifications is hereby revised for this project as follows:

*Environmental Awareness Training.* All staff, contractors, and volunteers responsible for any element of on-the-ground work will receive environmental awareness training prior to being allowed to work on this project. Training will include:

- a) information on the legal and biological status of Colorado Hookless Cactus (CHC);
- b) the habitats important to the species;
- c) awareness of mandatory conservation/avoidance measures;
- d) information on fines and penalties for damaging or directly impacting CHC;
- e) and reporting procedures if any violation occur.

*Cultural Stipulations.* Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the contractor on public or Federal land shall be immediately reported to the Project Engineer. The Contractor shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Project Engineer. An evaluation of the discovery will be made by the City’s Environmental Consultant to determine appropriate actions to prevent the loss of significant cultural or scientific values. The City will be responsible for the cost of evaluation, and any decision as to proper mitigation measures will be made by the BLM after consulting with the City.

The environmental survey identified several populations of CHC in the vicinity of the project limits (within 200 feet of construction and access roads). As part of the BLM ROW and Temporary Use Easements, there are Stipulations to be followed (see Appendix C of the Solicitation), and the Contractor shall coordinate with the City’s Biological Monitor when working within the buffer zone around the surveyed CHCs. These zones include the paved trail construction from Station 57+00 to 63+25, Station 71+00 to 76+00, and Station 79+25 to 84+00, including the construction access road at Station 71+60 connecting to Monument Road.

**SP-6 SECTION 250 – FIRE PROTECTION PLAN**

Section 250 of the Standard Specifications is hereby revised for this project as follows:

A. *Fire Protection Plan.* Prior to start of work, the Contractor shall submit a Fire Control Plan in writing to the Engineer for approval. The plan shall include the following:

- 1) The name and contact information of a Fire Control Coordinator who shall be assigned to the project.
- 2) A list of numbers to call in case of a fire, including 911 (or the equivalent in the area).
- 3) A complete list, including storage locations, of all tools and equipment the Contractor will use in the event of a fire within project limits.
- 4) Methods that will be employed if a fire is encountered or started during construction activities within the project limits.
- 5) Specific fire prevention precautions, and the required firefighting equipment, for every activity which has the potential for starting a fire. At a minimum the plan shall address prevention planning related to the use of heavy equipment, vehicles, hand tools, storage and parking areas.
- 6) Specific precautions for fueling operations.
- 7) Provisions for field safety meetings. The Contractor shall conduct field safety meetings (also known as toolbox or tailgate meetings) at least once per week. The Contractor shall encourage participation by all persons working at the project site. Participants shall discuss specific fire prevention precautions for construction activities.

B. *Equipment and Procedures.*

- 1) Fire Boxes. Fire boxes shall contain tools and equipment that shall be used exclusively for controlling or suppressing fires which occur due to construction activities on project sites. Each fire box shall contain, as a minimum, the following:
  - a) five round-pointed shovels,
  - b) two double-bitted axes,
  - c) three pulaskis or mattocks, and
  - d) two backpack pumps
- 2) Welding. If welding at field locations is required, the welding shall be done at a location where all flammable material has been cleared away for a distance of 16 feet around the area.
- 3) Spark Arrestors. All diesel and gasoline powered engines, both mobile and stationary, shall be equipped with serviceable spark arrestors.
- 4) Power Saws. Each gasoline power saw shall be provided with a spark screen and a muffler in good condition. Spill-proof metal safety cans shall be used for refueling.

- 5) Storage and Parking Areas. Batch plant areas, equipment service areas, parking areas, gas and oil drum storage areas, and explosive storage areas shall be cleared of all flammable materials for a distance of 50 feet. Small stationary engine sites shall be cleared of all flammable material for a distance of 17 feet. Other mitigation methods may be used as approved by the Engineer. No construction vehicles or equipment shall be parked on dry brush.

C. *Fire Control Coordinator Responsibilities.* The Fire Control Coordinator shall:

- 1) Implement the Fire Control Plan.
- 2) Monitor, manage, and adjust the Fire Control Plan as needed as construction work progresses.
- 3) Document in a letter to the Engineer changes to the Fire Control Plan.
- 4) Immediately contact firefighting authorities when a fire is started due to construction activities within project limits.
- 5) Coordinate fire control and suppression activities until authorities arrive, including the evacuation of staff.
- 6) When the Fire Control Coordinator cannot be on the project site, he shall designate a person who is on site to serve as the Fire Control Coordinator. The Fire Control Coordinator, or his designee, shall be on site at all times that work is being performed.

D. *Costs.* All costs associated with the preparation and implementation of the Plan and compliance with all fire protection provisions and requirements will not be measured and paid for separately but shall be included in the work.

### **SP-7 SECTION 506 – STONE BOULDERS**

Section 506 of the Standard Specifications is hereby revised for this project as follows:

Subsection 506.01 shall include the following:

This work includes installation of stone boulders in the construction access zones shown on the plans. Each feature contains a variable number of boulders from off-site sources. Work includes the selection of suitable boulders, transport, and placement of approved boulders into distinct features as shown on the plans to block vehicle access after construction is completed.

Construction shall be limited to areas as shown on the plans or as agreed to by the Engineer.

Subsection 506.02 shall include the following:

Boulders for use in the trailhead improvements shall be angular or subrounded on the sides and top, and 24 inches to 36 inches in diameter (measured on the A-axis (minimum

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dimension), and a height of 16 inches minimum (after installation). Exposed surface of installed boulders shall not show machine-caused scarring or breakage. Boulders are to be tan/red sandstone. Examples of this type of boulder can be seen at “The Rock Shop”, 800 S 15th Street, Grand Junction – Burnt Autumn and Redstone Red boulders.

Contractor shall submit sample to Engineer prior to acquisition.

Subsection 506.03 shall include the following:

Boulders are to be placed where indicated on the drawings or as approved by the Engineer. The nature of the selected rock will require excavation of a pit 1/3 to 1/2 the height of the rock in the position the rock is to be placed. Backfill following placement, and compact.

Subsection 506.04 shall include the following:

Sandstone Boulders will be measured by the plan linear feet of each area installed in the field, including and all labor, materials equipment, and transportation of materials required to complete the work.

Subsection 506.05 shall include the following:

The accepted quantities of Sandstone Boulders will be paid for at the contract unit price for each of the items listed below that appear in the bid schedule.

<b><u>Pay Item</u></b>	<b><u>Pay Unit</u></b>
Stone Boulders for access control	Each

Work shall include all boulder transport, handling, and placement.

**SP-8 SECTION 601 – CONCRETE**

Section 601 of the Standard Specifications is hereby revised for this project as follows:

Subsection 601.02, Classification:

CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

- 4,500 PSI Compressive at 28 Days
- 6% air  $\pm$ 1.5%
- Slump 4”, Loads exceeding 6” shall be rejected
- Maximum Water Cement Ratio no greater than 0.45.

Subsection 601.06, Batching:

This CDOT Specification has been added to this Project:

The Contractor shall furnish a batch ticket (delivery ticket) with each load for all concrete. Concrete delivered without a batch ticket containing complete information as specified shall be rejected. The Contractor shall collect and complete the batch ticket at the placement site and deliver all batch tickets to the Engineer or his representative at the end of each day. The Engineer or his representative shall have access to the batch tickets at any time during the placement. The following information shall be provided on each ticket:

1. Suppliers name and date
2. Truck number
3. Project name and location
4. Concrete class and designation number
5. Cubic yards batched
6. Type brand and amount of each admixture
7. Type, brand, and amount of cement and fly ash
8. Weights of fine and coarse aggregates
9. Moisture of fine and coarse aggregates
10. Gallons of batch water

The contractor shall add the following information to the batch ticket at time of placement:

1. Gallons of water added by the truck operator.
2. Number of revolutions of the drum for mixing
3. Discharge time

**STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATER LINES, SANITARY  
SEWERS, STORM DRAINS, UNDERDRAINS AND IRRIGATION SYSTEMS**

The City of Grand Junction *Standard Specifications for Construction of Water Lines, Sanitary Sewers, Storm Drains, Underdrains and Irrigation Systems* are hereby modified for this Project as follows:

**SP-9 SECTION 103 – REMOVALS, EXCAVATION, BACKFILLING & RESTORATION**

Section 103 of the Standard Specifications is hereby revised for this project as follows:

Subsection 103.16, Earth Backfill Material, shall include the following:

Native material excavated on site shall be used for backfill on all pipelines and appurtenances above the bedding and haunching material unless the native material is too wet and/or otherwise unsuitable for backfill as determined by the Project Engineer or the Project Inspector. In such case, imported trench backfill material, or other approved material, shall be used and paid for per ton of material supplied, placed and compacted. The Contractor will be required to

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salvage useable materials from the project excavations and mix the useable material with imported trench backfill prior to placing backfill in the trench. The contract price for "Imported Trench Backfill" shall include the disposal of the unsuitable material.