



COLORADO

Parks and Wildlife

Department of Natural Resources

CHERRY CREEK STATE PARK

NORTH SHOP CREEK TRAIL BRIDGE

BIDDING AND CONTRACT INFORMATION

PROJECT NO. CC2501

BID #: IFB1 PMAA 2027000013

PRE-BID CONFERENCE: September 17, 2026 at 10:00 AM

BID OPENING: **October 8, 2026** at 10:00 AM

CONTACTS

CHERRY CREEK STATE PARK NORTH SHOP CREEK TRAIL BRIDGE

BID #: IFB1 PMAA 2027000013

OWNER

Colorado Division of Parks and Wildlife
Northeast Region Office
6060 Broadway
Denver, CO 80216

Scott Roush, Northeast Deputy Regional Manager
(303) 291-7361

Michelle Seubert, Park Manager
Cherry Creek State Park
(303) 655-1495

Joel Pincomb, Sr. Park Resource Technician
Cherry Creek State Park
(303) 766-6584

Shawn Krier, Project Manager
Colorado Parks & Wildlife
(303) 883-8249
shawn.krier@state.co.us

ENGINEER

Muller Engineering Company
7245 West Alaska Drive, Suite 300
Lakewood, CO 80226
(303) 988-4939

John Yager, PE, CFM
Associate, Sr. Project Manager

Cody Volt, PE
Project Engineer

END OF SECTION

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NORTH SHOP CREEK TRAIL BRIDGE

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INVITATION FOR BIDS

CHERRY CREEK STATE PARK NORTH SHOP CREEK TRAIL BRIDGE

BID #: IFB1 PMAA 2027000013

The Colorado Division of Parks and Wildlife is accepting sealed bids for the Cherry Creek State Park North Shop Creek Trail Connector Bridge Project. Principal items of work consist of the purchase and installation of a 100'x5' pedestrian bridge and associated site work.

Sealed bids will be received by Colorado Parks and Wildlife, 6060 Broadway, Northeast Region Office, Denver, CO 80216 until **October 8, 2026 at 10:00 AM**, after which the bids will then be made public. Bids shall be submitted using the form provided in the project specifications. On-line bid submittals are not accepted.

A five-percent (5%) Bid Bond, certified check, or cashier's check is required with bid proposals of \$150,000.00 or more.

Pre-bid conference: **September 17, 2026, 10:00 AM**
(non-mandatory)

Project Address: Cherry Creek State Park
4201 S. Parker Road
Aurora, CO 80014

Project Coordinates: Latitude: 39° 37'59.91"N
Longitude: 104° 50'16.89"W

Contractor Questions: All questions related to the project shall be submitted via e-mail to the Project Manager, Shawn Krier at shawn.krier@state.co.us. The deadline for questions is **September 24, 2026 at 05:00 PM**. Questions submitted after the deadline will not be addressed. All questions and answers will be posted as solicitation amendments on the Vendor Self Service (VSS) website (www.colorado.gov/vss). Bidders may not automatically be notified of the existence of a modification or addendum. It is the responsibility of the bidder to check the VSS website periodically to see if any modifications have been issued. Failure to retrieve such modifications and include their provisions in your bid response may result in your bid being deemed non-responsive.

Plans and specifications are available for all bidders on the web at: www.colorado.gov/vss

The following is a tentative project schedule, which will be revised and expanded by the selected Contractor and submitted to the Project Manager for review:

PRE-BID CONFERENCE	09/17/2026 at 10:00 AM
WRITTEN QUESTIONS DUE	09/24/2026 at 05:00 PM
BID OPENING	10/08/2026 at 10:00 AM
NOTICE OF AWARD (ANTICIPATED)	10/13/2026
NOTICE TO PROCEED (ANTICIPATED)	11/12/2026
SUBSTANTIAL COMPLETION (ANTICIPATED)	05/31/2027

BID SCHEDULE

CHERRY CREEK STATE PARK NORTH SHOP CREEK TRAIL BRIDGE

BID #: IFB1 PMAA 2027000013

DEPARTMENT OF NATURAL RESOURCES STATE OF COLORADO

Proposes to furnish all labor, equipment, materials, and incidentals needed to complete the Cherry Creek State Park North Shop Creek Trail Bridge Project. The work shall be completed in 200 calendar days from the date of the Notice to Proceed. We have read and made, the "Instructions to Bidders", the "General Conditions for Capital Construction", the Written Specifications, and the Construction Drawings part of this bid.

Technical Specifications related to construction materials and methods for work embraced under this Contract shall consist of references to, but not limited to, the Colorado Department of Transportation Most Current Standard Specifications for Roads and Bridge Construction. Special attention should be given to these references and revisions noted within.

UNITS: LF= linear foot, SF= square foot, SFF= square face foot, LS= lump sum, SY= square yard, CY= cubic yard, TON= tons, AC= acres, EA= each, HR= hour

Service Disabled Veteran Owned Small Business Statement (SDVOSB): The undersigned bidder shall certify by **checking** below that the corporation, partnership, or sole proprietorship **IS or IS NOT** claiming a 5% bid preference in accordance with *C.R.S. 24-103-211*. SDVOSB certification must be included with your bid.

Is: ☐ Is Not: ☐

Colorado Labor: The undersigned bidder shall certify by **indicating the percentage** of Colorado labor of the total workforce to be utilized for this project in accordance with *C.R.S. 8-17-101*. Colorado Labor shall be employed to perform at least 80% of the work on a public works project greater than \$500,000.00. A written justification for not meeting this percentage must be included with your bid.

% of Colorado Labor: _____

Addendum Inclusion Statement: The undersigned bidder shall certify by **listing** below that all Addendums have been considered and included as part of the Contractor's proposal. The Addendum numbers that the Contractor has included as part of his proposal shall be listed in the space provided.

Addendum(s): _____

Base Bid: Furnish and install all materials and labor for the completion of the Base Bid Improvements per the Construction Drawings and Specifications.

Base Bid Items:	Quantity	Unit	Unit Cost	Total Item Cost
01. Mobilization	1.0	LS	\$	\$
02. Clearing & Grubbing	1.9	AC	\$	\$
03. Traffice Control	1.0	LS	\$	\$
04. Water Control	1.0	LS	\$	\$
05. Construction Surveying	1.0	LS	\$	\$
06. Concrete Washout Structure	1.0	EA	\$	\$
07. Erosion Log	1,500.0	LF	\$	\$
08. Vehicle Tracking Pad	2.0	EA	\$	\$
09. Fence (Plastic)	800.0	LF	\$	\$
10. Fence (Rob & T-Post)	1,800.0	LF	\$	\$
11. Unclassified Excavation	190.0	CY	\$	\$
12. Unclassified Excavation, Haul Off Site	740.0	CY	\$	\$
13. Muck Excavation	150.0	CY	\$	\$
14. Topsoil	1,540.0	CY	\$	\$
15. Type H Void-Filled Riprap	530.0	CY	\$	\$
16. Structural Excavation	37.0	CY	\$	\$
17. Structural Backfill (Class 1)	66.0	CY	\$	\$
18. Bedrock Soounding	2.0	EA	\$	\$
19. Drilled Shafts (24" Diameter) $\leq$ 5' in Depth	192.0	LF	\$	\$
20. Drilled Shafts (24" Diameter) $>$ 5' in Depth	192.0	LF	\$	\$
21. Concrete Sealer	72.0	SY	\$	\$
22. Concrete (Class DF)	30.0	CY	\$	\$
23. Reinforcing Steel	2,970.0	LB	\$	\$
24. Reinforcing Steel (Epoxy Coated)	26.0	LB	\$	\$
25. Bridge Girder & Deck Unit	1.0	EA	\$	\$
26. Removal of Sidewalk	23.0	SY	\$	\$
27. Concrete Sidewalk	23.0	SY	\$	\$
28. Aggregate Base Course (Class 6)	160.0	SY	\$	\$
29. Mulching (Hydromulch)	1.9	AC	\$	\$
30. Seeding (Uppland)	0.9	AC	\$	\$
31. Seeding (Riparian)	1.0	AC	\$	\$

Base Bid Items:	Quantity	Unit	Unit Cost	Total Item Cost
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Base Bid AMOUNT: \$ _____

Base Bid AMOUNT: (PLEASE WRITE OUT BID AMOUNT)

\$ _____
DOLLARS

(A Corporate Signature Block)

Company Name

A _____ Corporation

Date _____, 2026

Colorado VSS Vendor ID# (if available) _____

By _____

President

Attested to by _____

Secretary

(A Partnership Signature Block)

A limited partnership of _____, general partner;

_____ doing business as (dba)

Company Name

Colorado VSS Vendor ID# (if available) _____

by _____

General Partner

(A Sole Proprietorship Signature Block)

A Sole Proprietorship of
(dba)

_____.

Colorado VSS Vendor ID# (if available) _____

by _____ Owner

MEASUREMENT AND PAYMENT

CHERRY CREEK STATE PARK NORTH SHOP CREEK TRAIL BRIDGE

BID #: IFB1 PMAA 2027000013

The contractor shall use the following measurement and payment procedures for items listed on the bid tab for this project. This section provides the measurement and payment method for items of work under this contract.

1. The work performed under this Agreement shall be paid for on a unit price basis at the rates for the respective items on the Bid Schedule. The quantities provided on the Bid Schedule are only estimates of the actual quantities of the work to be performed, and are only included for purposes of making the award. Owner reserves the right to alter and/or eliminate any item of work. Modifications, if any, will be made by Contract Modification.
2. The total unit or lump sum prices for the Contract cover all work required by the Contract Documents, including the furnishing of all materials and equipment required to be incorporated in and from a permanent part of the Work; tools, equipment, supplies, transportation, facilities, labor, superintendence and services required to perform the Work; bonds, insurance and submittals; and the assumption of all obligations, duties and responsibilities necessary to the successful completion of the Contractor, except as provided for otherwise in this section of the Specifications or elsewhere in the Contract Documents.
3. Lump sum bid items may list engineer's estimate of quantities. The contractor will be responsible for verification of the quantities.
4. All work not specifically set forth as a pay item in the Bid Schedule shall be considered a subsidiary obligation of Contractor and all costs in connection therewith shall be included in the bid prices.
5. Except where otherwise specified, the unit or lump-sum price bid for each item of work which involved excavation, backfilling or trenching shall include all costs for such work. No direct payment shall be made for excavation or trenching.

Bid Item No. 1: Mobilization

a. Measurement

No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Furnishing, installing and removing temporary fencing and construction markers around PROJECT work areas and any other fencing/security items as deemed necessary by the CONTRACTOR
2. Establishing and removing the CONTRACTOR's offices, buildings, and other necessary facilities
3. Obtaining, complying with, and transferring permits
4. Providing environmental controls for the life of the PROJECT
5. Providing required bonds and insurance

6. Preparing and maintaining the PROJECT schedule
7. Delivering and removing the CONTRACTOR's equipment, supplies, and excess materials, and cleaning up the site
8. Restoring the PROJECT site to pre-project or final grades and conditions
9. Preparing and securing approvals of submittals
10. Preparing record drawings
11. Preparing and providing copies of stormwater and other required reports
12. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be made in two installments: the first 60% will be paid on the first month's pay estimate, and the remaining 40% after the final cleanup has been completed and approved

<u>Bid Item</u>	<u>Pay Unit</u>
Mobilization	LS

Bid Item No. 2: Clearing and Grubbing

a. Measurement

The measurement for payment for this item will be the actual number of acres of clearing and grubbing completed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the OWNER. Measurement will be based upon scaled dimensions in acres of clearing and grubbing, as defined on the DRAWINGS and SPECIFICATIONS. No payment will be made for clearing and grubbing outside of the limits of construction shown on the DRAWINGS and SPECIFICATIONS or for WORK required to repair damage done by the CONTRACTOR's operations. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Completing the clearing and grubbing
2. Disposing of materials off site in accordance with the DRAWINGS and SPECIFICATIONS
3. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on the percentage of completed and accepted WORK.

<u>Bid Item</u>	<u>Pay Unit</u>
Clearing and Grubbing	AC

Bid Item No. 3: Traffic Control

a. Measurement

No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Preparing, implementing, adjusting as necessary, and maintaining the CONTRACTOR's approved Traffic Control Plan
2. Updating and submitting traffic control plans, as necessary, according to city, county, and other applicable regulations
3. Preparing, implementing, maintaining, and adjusting, as necessary, pedestrian controls
4. Providing all other related and necessary labor, equipment, pavement markings, and materials to complete the WORK

b. Payment

One third of the lump sum price for this item will be paid after twenty-five (25) percent of the original CONTRACT amount has been earned, the second third will be paid after fifty (50) percent of the original CONTRACT amount has been earned, and the final third upon final acceptance of the PROJECT.

<u>Bid Item</u>	<u>Pay Unit</u>
Traffic Control	LS

Bid Item No. 4: Water Control

a. Measurement

No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Preparing and submitting water control plan for review
2. Implementing measures to control surface water and groundwater not paid for under Bid Item ESC-07-001, Temporary Diversion Measure or ESC-16-001. Temporary Slope Drain
3. Providing temporary power and sound proofing, as required
4. Evaluating, designing, constructing, maintaining, replacing, and monitoring dewatering measures
5. Modifying the approved and implemented water control plan as necessary
6. Furnishing and installing all materials, sediment basins, diversion measures, slope drains, check dams, pumps, dewater bags, earth embankments, sheet pile, wells, stream crossings or any other material necessary for water control
7. Obtaining all required permits
8. Monitoring, sampling and analysis, and preparing water quality reports, if required
9. Protecting WORK from groundwater, base flows, and storm events
10. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

One third of the lump sum price for this item will be paid after twenty-five (25) percent of the original CONTRACT amount has been earned, the second third after fifty (50) percent of the original CONTRACT amount has been earned, and the final third will be paid upon final acceptance of the PROJECT.

<u>Bid Item</u>	<u>Pay Unit</u>
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Bid Item No. 5: Construction Surveying

a. Measurement

No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Staking horizontal and vertical alignments
2. Providing cut sheets to the OWNER or OWNER's representative
3. Providing replacement stakes
4. Locating existing utilities
5. Staking overlot grading
6. Setting subgrade elevations and offsets
7. Setting temporary control points
8. Re-establishing land monuments
9. Finishing grades and structure elevations by a Professional Licensed Surveyor, as required, for record or as-built DRAWINGS
10. Finishing grades and elevations by a Professional Licensed Surveyor, as required, for Pond Volume Certification
11. Providing all other related and necessary labor, equipment, and materials to complete the WORK

a. Payment

Payment will be based on the percentage of completed and accepted WORK.

<u>Bid Item</u>	<u>Pay Unit</u>
Construction Surveying	LS

Bid Item No. 6: Concrete Washout Structure

a. Measurement

The measurement for payment for this item will be per each concrete washout area placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Excavating pit, constructing berm, or utilizing an approved pan/tub concrete washout service
2. Providing and installing vehicle tracking control (crushed rock and riprap)
3. Providing and installing construction fence and sign
4. Removing concrete washout and concrete material, upon approval
5. Restoring area to pre-project or finished grades and conditions
6. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Concrete Washout Structure	EA

Bid Item No. 7: Erosion Log

a. Measurement

The measurement for payment for this item will be the actual number of linear feet of sediment control log placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Providing and installing sediment control log and stakes
2. Removing, upon approval
3. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Erosion Log	LF

Bid Item No. 8: Vehicle Tracking Pad

a. Measurement

The measurement for payment for this item will be based on the actual number of square yards of vehicle tracking control placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Providing and placing geotextile fabric, construction mat, TRM, crushed rock, and riprap, as shown on the DRAWINGS
2. Excavating and removing material
3. Removing vehicle tracking control, upon approval
4. Restoring area to pre-project or final grades and conditions, including revegetation
5. Providing and installing metal rack and sediment trap as shown on the DRAWINGS
6. Providing and installing power washing equipment
7. Power washing the equipment and vehicles
8. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
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Bid Item No. 9: Fence (Plastic)

Bid Item No. 10: Fence (Rope and T-post)

a. Measurement

The measurement for payment for this item will be the actual number of linear feet of fence placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Furnishing and installing all materials, including posts, rails, wire, fabric, concrete, and nails as shown on the DRAWINGS
2. Excavating, filling, and compacting
3. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Fence (Plastic)	LF
Fence (Rope with T-post)	LF

Bid Item No. 11: Unclassified Excavation

Bid Item No. 12: Unclassified Excavation, Haul off site (408 Volume Balance)

a. Measurement

The measurement for payment for this item will be the actual number of cubic yards excavated and used for fill or hauled from the site, measured and computed by the average end area method or grid method (difference between existing and finished grade) in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. No measurement of this item will be made unless changes to the CONTRACT DOCUMENTS are made, in which case the ENGINEER will perform measurement of the modified volume. The quantity is based on the neat lines shown on the DRAWINGS and does not account for shrinkage or swell, and does not include structural excavation or pre-excavation required to install other BID items. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Excavating, transporting, stockpiling with BMPs, and hauling excavated material to fill areas within PROJECT, or properly disposing off site
2. Placing, reworking, and compacting fill material
3. Cross hauling material
4. Moistening, drying, and reconditioning material, as necessary, to meet moisture-density requirements
5. Surface roughening and terracing BMPs as shown on the DRAWINGS

6. Removing and hauling deleterious materials
 7. Providing all other related and necessary labor, equipment, and materials to complete the WORK
- b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Unclassified Excavation	CY
Unclassified Excavation, Haul off site	CY

Bid Item No. 13 : Muck Excavation

a. Measurement

The measurement for payment for this item will be the actual number of cubic yards of material removed beyond what is required for the construction of the improvements in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. Measurement will be based upon actual field measurements and calculated volumes (no allowance for shrinkage or swell). The unit price will include all of the CONTRACTOR's costs. This BID item will be only at the direction of the ENGINEER. This BID item includes, but is not limited to:

- a. Excavating, hauling, and disposing material off site
 - b. Replacing with approved material
 - c. Placing approved geotextile
 - d. Providing all other related and necessary labor, equipment, and materials to complete the WORK
- b. Payment
- Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Muck Excavation	CY

Bid Item No. 14: Topsoil

a. Measurement

The measurement for payment for this item will be the actual number of cubic yards of topsoil excavated, properly stockpiled, and replaced in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. No measurement of this item will be made unless changes to the CONTRACT DOCUMENTS are made, in which case the ENGINEER will perform measurement of the modified volume. The quantity is based on the neat lines shown on the DRAWINGS and SPECIFICATIONS, and does not account for shrinkage or swell. No additional payment will be made for areas disturbed outside of construction limits or areas within construction limits that are not identified on the DRAWINGS and SPECIFICATIONS to be disturbed, unless approved by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Excavating topsoil and vegetation to required depths

2. Stockpiling and segregating upland and wetland soil in an upland area
 3. Removing and properly disposing of wetland topsoil
 4. Protecting stockpiles from erosion
 5. Preparing subgrade
 6. Replacing and moistening of topsoil in the designated areas to required depths
 7. Providing all other related and necessary labor, equipment, and materials required to complete the WORK
- b. Payment
Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Topsoil	CY

Bid Item No. 15: Type H Void-Filled Riprap (Bridge Abutment Protection)

- a. Measurement
The measurement for payment for this item will be the actual number of cubic yards of void-filled river rock riprap with bedding placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. No measurement of this item will be made unless changes to the CONTRACT DOCUMENTS are made, in which case the ENGINEER will perform measurement of the modified volume. Measurement does not include the thickness of the bedding. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:
1. Furnishing, transporting, mixing, and placing all riprap, and material for filling voids
 2. Excavating, backfilling, and compacting/plating
 3. Removing and disposing excavated material and debris
 4. Providing compacted fill required to mix with and bury riprap
 5. Providing all other related and necessary labor, equipment, and materials to complete the WORK
- b. Payment
Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Type H Void-Filled Riprap (Bridge Abutment Protection)	CY

Bid Item No. 16: Structure Excavation

Bid Item No. 17: Structure Backfill (Class 1)

- a. Measurement
The measurement for payment for this item will be cubic yard based on BID item and in accordance with the DRAWINGS and SPECIFICATIONS. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The

unit price will include all of the CONTRACTOR's costs, which are not specifically measured and paid for under other BID items. This BID item includes, but is not limited to:

1. Excavating to structure subgrade, transporting, and hauling excavated material to fill areas within PROJECT, or properly disposing off site
2. Pumping, bailing, draining, and incidentals required to maintain groundwater levels required for proper execution of the WORK
3. Cross hauling material
4. Importing, placing, reworking, and compacting Structure Backfill material
5. Moistening, drying, and reconditioning material, as necessary, to meet moisture-density requirements
6. Removing and hauling deleterious materials
7. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Structure Excavation	CY
Structure Backfill (Class 1)	CY

Bid Item No. 18: Bedrock Sounding

a. Measurement

The measurement for payment for this item will be per each bedrock sounding performed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Providing on-site observation by a qualified geotechnical engineer
2. Mobilizing drilling equipment of sufficient size to drill to at least 20-feet below anticipated bedrock elevation as described in the DRAWINGS
3. Drilling, sampling, and logging bedrock elevation.
4. Providing test hole locations, ground elevations, and bedrock elevations to the ENGINEER for review.
5. Backfilling test holes after drilling
6. Properly disposing of excavated material
7. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Bedrock Sounding	EA

Bid Item No. 19: Drilled Shafts (24" Diameter) ≤ 5' in Depth

Bid Item No. 20: Drilled Shafts (24" Diameter) > 5' in Depth

a. Measurement

The measurement for payment for this item will be the lineal foot from the top of shaft elevation shown on the DRAWINGS to the bottom of the hole as drilled. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The unit price will include all of the CONTRACTOR's costs, which are not specifically measured and paid for under other BID items. This BID item includes, but is not limited to:

1. Preparing and submitting required drilling submittals to the ENGINEER for review, including personnel qualifications, drilled shaft installation plan, and drilling logs
2. Providing on-site observation by a qualified geotechnical engineer
3. Excavating holes to the required bedrock embedment shown in the DRAWINGS and protecting holes prior before and after concrete placement
4. Constructing shear rings within the zone of bedrock embedment
5. Cleaning and inspecting the bottom of excavations
6. Furnishing, placing, and removing temporarily casing, pumping, and proper disposal of groundwater as required by the DRAWING and SPECIFICATIONS
7. Furnishing, tying, splicing, placing, and securing shaft reinforcement, including reinforcement that projects beyond the top of the shaft
8. Furnishing, transporting, and placing concrete in accordance with the SPECIFICATIONS
9. Forming tops of shafts as necessary to avoid mushrooming
10. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Accepted quantities for drilled shafts will be paid for at the Contract unit price per lineal foot, except for the price adjustments allowed below:

Payment will be made under:

<u>Bid Item</u>	<u>Pay Unit</u>
Drilled Shafts (24" Diameter)	LF

Bid Item No. 21: Concrete Sealer

a. Measurement

The measurement for payment for this item will be the actual number of square yards of concrete sealer applied in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Furnishing penetrating sealer meeting with requirements of the SPECIFICATIONS and providing certificates of compliance
2. Cleaning and preparing the concrete deck and approach slabs in accordance with the DRAWINGS and SPECIFICATIONS
3. Applying the sealer in accordance with the manufacturer's instructions and the

- requirements of the DRAWINGS and SPECIFICATIONS
- 4. Protecting the sealer during the curing period and touch-up applications as required.
- 5. Removing and properly disposing all waste materials
- 6. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Concrete Sealer	SY

Bid Item No. 22: Concrete (Class DF)

a. Measurement

No measurement for payment will be made for this item. Payment for this item will be cubic yard based on BID quantity and in accordance with the DRAWINGS and SPECIFICATIONS. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The unit price will include all of the CONTRACTOR's costs, which are not specifically measured and paid for under other BID items. This BID item includes, but is not limited to:

- 1. Preparing and submitting concrete mix designs meeting the requirements of the DRAWINGS and SPECIFICATIONS
- 2. Furnishing, installing, and protecting void-form materials meeting the requirements of the DRAWINGS and SPECIFICATIONS
- 3. Erecting, maintaining, and removing falsework
- 4. Preparing concrete samples for required testing
- 5. Furnishing, placing, finishing, and protecting concrete
- 6. Providing protection for cold weather concreting as necessary
- 7. Cleaning and preparing construction joints
- 8. Furnishing, installing, and finishing expansion joints, including application of approved sealant
- 9. Properly curing concrete in accordance with the SPECIFICATIONS
- 10. Repairing and patching concrete defects as approved by the Engineer
- 11. Providing finish classes in accordance with the DRAWINGS and SPECIFICATIONS
- 12. Providing all other related and necessary labor, equipment, and materials to complete the WORK

Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Concrete Class DF	CY

Bid Item No. 23: Reinforcing Steel

Bid Item No. 24: Reinforcing Steel (Epoxy Coated)

a. Measurement

No measurement for payment will be made for this item. Payment for this item will be by weight in pounds based on BID quantity and in accordance with the DRAWINGS and SPECIFICATIONS. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The unit price will include all of the CONTRACTOR's costs, which are not specifically measured and paid for under other BID items. This BID item includes, but is not limited to:

1. Providing reinforcement shop drawings for review
2. Furnishing, placing, tying, and protecting reinforcement in accordance with the DRAWINGS and SPECIFICATIONS
3. Comply with Buy America Build America requirements and furnish certificates of compliance to the Engineer
4. Furnishing and installing slab bolsters and chairs as necessary to maintain the required clear cover
5. Cleaning, wetting, and heating (if necessary) reinforcement in preparation for concrete placement
6. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Reinforcing Steel	LB
Reinforcing Steel (Epoxy Coated)	LB

Bid Item No. 25: Bridge Girder and Deck Unit

a. Measurement

No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Structural design of the bridge girder and deck unit in accordance with the requirements of the DRAWINGS and SPECIFICATIONS
2. Furnishing complete fabrication drawings and calculations to the Engineer for review
3. Addressing review comments and revising the fabrication drawings and calculations as necessary
4. Comply with Buy America Build America requirements and furnish certificates of compliance to the Engineer
5. Preparing submittals and executing safety critical work plans in accordance with the SPECIFICATIONS
6. Fabricating, transporting, splicing, and erecting the bridge girder and deck unit
7. Sandblasting weathering steel elements as described in the SPECIFICATIONS
8. Shop fabrication quality control procedures and testing as described in the

SPECIFICATIONS

9. Furnishing and installing stay-in-place deck forms
10. Fabricating, transporting, and installing all necessary hardware, anchor bolts, bearing plates, and cover plates
11. Fabricating, transporting, and erecting pedestrian railing on the wingwalls, including all necessary hardware
12. Painting handrails in accordance with the DRAWINGS and SPECIFICATIONS
13. Addressing and repairing elements damaged both before and after erection as approved by the Engineer.
14. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Bridge Girder and Deck Unit	L S

Bid Item No. 26: Removal of Sidewalk

a. Measurement

The measurement for payment for this item will be square yard based on BID item and in accordance with the DRAWINGS and SPECIFICATIONS. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The unit price will include all of the CONTRACTOR's costs, which are not specifically measured and paid for under other BID items. This BID item includes, but is not limited to:

1. Removing, hauling, and disposing of structures and obstructions including, but not limited to, existing pipe, culverts, inlets, concrete, asphalt, and any structures and obstructions that interfere with the WORK
2. Backfilling and compacting after removal of structures and obstructions
3. Moisture conditioning of suitable backfill material
4. Restoring area, as required
5. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Removal of Sidewalk	SY

Bid Item No. 27: Concrete Sidewalk

a. Measurement

The measurement for payment for this item will be the actual number of square yards of concrete placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the

CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Sawcutting, removing, and disposing all damaged and broken concrete, gravel, or other surface debris
2. Furnishing, forming and placing concrete, including coloring and fiber-mesh and materials not otherwise provided for elsewhere in the DRAWINGS and SPECIFICATIONS
3. Furnishing and installing expansion joints
4. Furnishing and applying the curing compounds
5. Furnishing and placing reinforcing steel
6. Furnishing, forming, and placing concrete thickened edge

<u>Bid Item</u>	<u>Pay Unit</u>
Concrete Sidewalk	SY

Bid Item No. 28: Aggregate Base Course (Class 6)

a. Measurement

The measurement for payment for this item will be the actual number of square yards of Class 6 aggregate base course placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Furnishing and placing crusher fines to the required thickness and filter fabric
2. Forming and edging, including access ramps
3. Furnishing and compacting all material required for a stable subbase
4. Furnishing and applying soil sterilant
5. Excavating, backfilling and compacting
6. Removing and disposing all excess excavated material and debris
7. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Aggregate Base Course (Class 6)	SY

Bid Item No. 29: Mulching (Hydromulch)

a. Measurement

The measurement for payment for this item will be the actual number of acres of mulch placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Furnishing, transporting, and placing specified material
2. Crimping
3. Providing all other related and necessary labor, equipment, and materials to

complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Mulching (Hydromulch)	AC

Bid Item No. 30: Seeding (Upland)

Bid Item No. 31: Seeding (Riparian)

a. Measurement

The measurement for payment for this item will be the actual number of acres of seeding placed in accordance with the DRAWINGS and SPECIFICATIONS or as otherwise directed by the ENGINEER. The unit price will include all of the CONTRACTOR's costs. This BID item includes, but is not limited to:

1. Preparing soil, ripping, tilling and fine grading
2. Furnishing seed
3. Drilling or broadcasting seed
4. Installing temporary fence and barriers as shown on the DRAWINGS
5. Maintaining all seeded areas
6. Providing all other related and necessary labor, equipment, and materials to complete the WORK

b. Payment

Payment will be based on units completed and accepted.

<u>Bid Item</u>	<u>Pay Unit</u>
Seeding (Upland)	AC
Seeding (Riparian)	AC

INSTRUCTIONS TO BIDDERS

CHERRY CREEK STATE PARK NORTH SHOP CREEK CONNECTOR TRAIL BRIDGE PROJECT

BID #: IFB1 PMAA 2027000013
PROJECT #: CC2501

1. Bidders must review the plans and specifications, construction site and conditions in their entirety, and determine the problems that may be encountered in performing the work. The bidder shall include any costs associated with his/her findings in the prices quoted in the proposal. Documents will be available on the State of Colorado VSS website www.colorado.gov/vss. No additional copies of the drawings and specifications will be provided by the Division of Parks and Wildlife at any time before or after the bid opening.
2. All work must conform to the requirements stated in the *"General Conditions for Capital Construction - July 18, 2018"*.
3. All questions concerning this project shall be in writing directed to the Project Manager identified in the Invitation for Bids. The Invitation for Bids also identifies important dates and deadlines for this project.
4. **BID SCHEDULE:**
 - A. The bidder shall include on the signature page, their Vendor ID (if available) obtained from registration on the Colorado VSS website.
 - B. All bid items shall include a unit and extended price or the bid will be disqualified. The bidder shall write in words and numerically the total base bid and add/alternate (if applicable) amounts on the included Bid Schedule. If conflicts exist between the written words and the numerical amount, the actual line item unit cost shall take precedence.
 - C. The Bid Schedule shall be signed manually in ink:
 - 1) If the bidder is a corporation, use the corporate signature block, insert the name of the state in which the company was incorporated, and include the Employer Identification Number (E.I.N.) in the appropriate spaces. The bid must be signed by an officer (President or Vice President), and the title indicated. The signature of the officer shall be attested to by the Secretary and properly sealed. Cross out incorrect titles and insert correct ones, if necessary.
 - 2) If the bidder is a partnership, use the partnership signature block. Cross out the word "Limited" if the partnership is a general one. Print each partner's name and note the proportion of the partnership that each partner has. The majority or general partner must sign the proposal. The same person must sign the contract, if awarded. Print the company name in the appropriate space.
 - 3) If the bidder is a proprietorship, use the sole proprietorship signature block, print in the owner's name, Social Security number, and the business name in the blanks provided, and the owner signs the owner blank.
5. **BID BOND:** A bid bond is required for all competitive sealed bids when the price is equal to or exceeds \$150,000. A bid guarantee in an amount not less than five percent (5%) of the total bid price must be submitted in the form of a firm commitment, such as a bid bond, bank money order, certified check or cashier's check. Checks or money orders should be

made payable to the Treasurer, State of Colorado. An irrevocable letter of credit is not acceptable as a bid guarantee. Failure to furnish a bid guarantee in the proper form and amount by the time set for opening of bids may be cause for rejection of the bid.

6. **PERFORMANCE BOND, LABOR AND MATERIAL BOND:** The successful bidder shall furnish a bond in the amount of 100% of the contract price for performance and for material and labor payment when bid is equal to or exceeds \$150,000. The bond shall be executed on the standard State of Colorado form. The State requests that the Surety and Contractor leave the date of the Contract found on the first page of each bond form, blank and we will 'pen' in the date after the Controller executes the Contract. These bonds will be submitted along with the standard State Agreement form within 10 days of the "Notice of Award."
7. **VENDOR BOND ASSISTANCE:** Any vendors that need support responding to solicitations may contact the Colorado Supplier Diversity Navigator at the Statewide Equity Office of Supplier Diversity dhr.colorado.gov/statewide-equity-office/supplier-diversity. Services provided include assistance with responding to solicitations, interpretation of solicitation documents, technical assistance referrals, availability of resources, and bond assistance under the Construction Statewide Bond Assistance Program dhr.colorado.gov/statewide-equity-office/supplier-diversity/construction-and-bond-assistance , through which eligible contractors can apply for assistance in securing the required bonding. The office can be reached during normal business hours by calling 303-866-5765 or emailing DPA_SupplierDiversityHelp@state.co.us.
8. **RESIDENT BIDDER PREFERENCE:** When a contract for commodities or services is to be awarded to a bidder (project is equal to or exceeds \$500,000), a resident bidder shall be allowed a preference against a nonresident bidder equal to the preference given or required by the state in which the nonresident bidder is a resident. (§8-19-104 C.R.S.) A resident bidder is authorized to transact business in the State of Colorado, maintains a place of business in Colorado and pays unemployment compensation taxes.
9. **SERVICE DISABLED VETERAN OWNED SMALL BUSINESSES (SDVOSB's):** SDVOSB's, who are incorporated or organized in Colorado or maintain a place of business or have an office in Colorado and who are officially registered and verified as a SDVOSB by the Center for Veteran Enterprise within the U.S. Department of Veterans Affairs. (www.vip.vetbiz.gov), may receive a 5% preference on their bid. This preference applies only to the price, and the SDVOSB's must still meet all other qualifications required in the bid. SDVOSB's claiming this preference shall submit documentation of SDVOSB certification Issued through the U.S. Department of Veterans Affairs in their response to the solicitation. Bid submissions without this documentation will not be given a preference.
10. **COLORADO LABOR:** Colorado Labor shall be employed to perform at least eighty percent (80%) of the work on a public works project (is equal to or exceeds \$500,000) per CRS 8-17-101. BIDS/CORE notice to require bidder to indicate 80% Colorado labor in bid or proposal and provide written justification if the 80% Colorado labor is not included in the bid. The justification is a requirement of the bid or proposal submittal. State Agency shall waive the 80% requirement and post justification on its web site; if there is reasonable evidence to demonstrate insufficient Colorado labor to perform the work and, if compliance with the 80% would create an undue burden that would substantially prevent a project from proceeding to completion. Posting of the agency's written waiver should include but not be limited to contractor's justification for insufficient available Colorado labor and the agency's determination that there is an undue burden negatively impacting the project schedule, budget/appropriation, quality/standards of care or any other specific requirement of the

project due to compliance with the 80% Colorado labor requirement. The posting of rational should be made on the date of the award and remain for not less than thirty (30) calendar days in a conspicuous web site location of the state agency under the title - "Reporting Requirements for Public Projects as per HB13-1292".

11. FINAL REPORTING FOR IRON, STEEL, OR RELATED MANUFACTURED ITEMS: This requirement only applies when a contract for a public works project is to be awarded to a bidder (projects is equal to or exceeds \$500,000), for a project that does not receive any federal moneys. At the completion of the project, the Contractor shall provide an accounting of the value and origin of the five most costly manufactured goods incorporated into the project. For the purposes of this reporting, "manufactured goods" contain over fifty percent iron or steel content when it is delivered to the job site for installation. If all the manufacturing processes for the final product take place in the United States, the product shall be considered as originating there.

12. BUILD AMERICA, BUY AMERICA

Note: This term effective as of January 13, 2023. For more information on DOI's approved waiver, see:

<https://www.doi.gov/grants/BuyAmerica/GeneralApplicabilityWaivers>

- A. As required by Section 70914 of the Bipartisan Infrastructure Law (also known as the Infrastructure Investment and Jobs Act), P.L. 117-58, on or after May 14, 2022, none of the funds under a federal award that are part of Federal financial assistance program for infrastructure may be obligated for a project unless all of the iron, steel, manufactured products, and construction materials used in the project are produced in the United States, unless subject to an approved waiver. The requirements of this section must be included in all sub-awards, including all contracts and purchase orders for work or products under this program. Recipients of an award of Federal financial assistance are hereby notified that none of the funds provided under this award may be used for a project for infrastructure unless:
- i. All iron and steel used in the project are produced in the United States--this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States;
 - ii. All manufactured products used in the project are produced in the United States – this means the manufactured product was 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 is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation; and
 - iii. All construction materials are manufactured in the United States—this means that all manufacturing processes for the construction material occurred in the United States.
- B. The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to

the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment that are used at or within the finished infrastructure project, but are not an integral part of the structure or permanently affixed to the infrastructure project.

For further information on the Buy America preference, please visit <https://www.doi.gov/grants/BuyAmerica>

Additional information can also be found at the White House Made in America Office website: <https://www.whitehouse.gov/omb/management/madein-america>

C. Waivers

When necessary, recipients may apply for, and the Department of the Interior (DOI) may grant, a waiver from these requirements, subject to review by the Made in America Office. The DOI may waive the application of the domestic content procurement preference in any case in which it is determined that one of the below circumstances applies:

- i. Non-availability Waiver: the types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality;
- ii. Unreasonable Cost Waiver: the inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25 percent; or
- iii. Public Interest Waiver: applying the domestic content procurement preference would be inconsistent with the public interest.

There may be instances where an award qualifies, in whole or in part, for an existing DOI general applicability waiver as described at: <https://www.doi.gov/grants/BuyAmerica/GeneralApplicabilityWaivers>

If the specific financial assistance agreement, infrastructure project, or non-domestic materials meets the criteria of an existing general applicability waiver within the limitations defined within the waiver, the recipient is not required to request a separate waiver for non-domestic materials. If a general applicability waiver does not already apply, and a recipient believes that one of the above circumstances applies to an award, a request to waive the application of the domestic content procurement preference may be submitted to the financial assistance awarding officer in writing. Waiver requests shall include the below information. The waiver shall not include any Privacy Act information, sensitive data, or proprietary information within their waiver request. Waiver requests will be posted to <https://www.doi.gov/grants/buyamerica> and are subject to public comment periods of no less than 15 days. Waiver requests will also be reviewed by the Made in America Office.

1. Type of waiver requested (non-availability, unreasonable cost, or public interest).
2. Requesting entity and Unique Entity Identifier (UEI) submitting the request.
3. Department of Interior Bureau or Office who issued the award.

4. Federal financial assistance listing name and number (reference block 2 on DOI Notice of Award)
5. Financial assistance title of project (reference block 8 on DOI Notice of Award).
6. Federal Award Identification Number (FAIN).
7. Federal funding amount (reference block 11.m. on DO Notice of Award).
8. Total cost of Infrastructure expenditures (includes federal and non-federal funds to the extent known).
9. Infrastructure project description(s) and location(s) (to the extent known).
10. List of iron or steel item(s), manufactured goods, and construction material(s) the recipient seeks to waive from Buy America requirements. Include the name, cost, countries of origin (if known), and relevant PSC or NAICS code for each.
11. A certification that the recipient made a good faith effort to solicit bids for domestic products supported by terms included in requests for proposals, contracts, and nonproprietary communications with the prime contractor.
12. A statement of waiver justification, including a description of efforts made (e.g., market research, industry outreach) by the recipient, in an attempt to avoid the need for a waiver. Such a justification may cite, if applicable, the absence of any Buy America-compliant bids received in response to a solicitation.
13. Anticipated impact if no waiver is issued. Approved waivers will be posted at <https://www.doi.gov/grants/BuyAmerica/ApprovedWaivers>; recipients requesting a waiver will be notified of their waiver request determination by an awarding officer.

Questions pertaining to waivers should be directed to the financial assistance awarding officer.

D. Definitions

- i. “Construction materials” includes an article, material, or supply that is or consists primarily of:
 1. non-ferrous metals;
 2. plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
 3. glass (including optic glass);
 4. lumber; or
 5. drywall.
- ii. “Construction Materials” does not include cement and cementitious materials, aggregates such as stone, sand, or gravel, or aggregate binding agents or additives.
- iii. “Domestic content procurement preference” means all iron and steel used in the project are produced in the United States; the manufactured products used in the project are produced in the United States; or the construction materials used in the project are produced in the United States.
- iv. “Infrastructure” includes, at a minimum, the structures, facilities, and equipment for, in the United States, roads, highways, and bridges; public transportation; dams, ports, harbors, and other maritime facilities; intercity passenger and freight railroads; freight and intermodal facilities; airports; water systems, including drinking water and wastewater systems; electrical transmission facilities and

systems; utilities; broadband infrastructure; and buildings and real property. Infrastructure includes facilities that generate, transport, and distribute energy.

- v. “Project” means the construction, alteration, maintenance, or repair of infrastructure in the United States.

13. BUY CLEAN COLORADO ACT:

(For all projects >\$500k, eligible materials: Asphalt, Asphalt and Asphalt Mixtures, Cement and Concrete Mixtures, Glass, Post-tension Steel, Reinforcing Steel, Structural Steel, Wood Structural Elements)

- A. The Buy Clean Colorado (BCCO) Act is focused on reducing embodied carbon emissions of state Public Projects by means of Eligible Material selection. The BCCO Act requires the Office of the State Architect (OSA) to establish a maximum acceptable Global Warming Potential (GWP) limit for each category of Eligible Materials, which include: asphalt and asphalt mixtures, cement and concrete mixtures, glass, post-tension steel, reinforcing steel, structural steel, and wood structural elements.
- B. During Eligible Material procurement, the Contractor shall work with material suppliers to collect compliant Environmental Product Declarations (EPDs) for all permanently installed Eligible Materials. Only third-party verified EPDs will be accepted. The Contractor shall furnish EPDs to the State prior to the installation of an Eligible Material. The EPD must show that the Eligible Material is within the established GWP limits applicable to this Contract, attached as an exhibit. The State shall verify the installation of Eligible Materials.
- C. If an EPD is unavailable, the Contractor shall notify the State, and with prior State approval, the Contractor may install an alternative Eligible Material with an EPD. The State may direct the Contractor to work with the State’s designated Project Manager to determine alternative products with EPDs. If an Eligible Material that meets the maximum acceptable GWP limit for a category of Eligible Materials is not reasonably priced or is not available to the Contractor on a reasonable basis, the Contractor shall submit to the State a Construction-Phase Waiver form in the template provided by OSA as Form EE-5.30 and in consideration of the EPD Exemption Justifications published by OSA as Form EE-5.1, both of which are available at <https://osa.colorado.gov/energy-environment/buy-clean-colorado-act>.
- D. For Eligible Materials sourced over 100 miles outside of the project site, the Contractor shall record and report information relating to the transportation of the Eligible Materials. The Contractor shall record the weight of the cargo (lbs.), the type of vehicle used for transporting the Eligible Materials, and the total distance traveled (miles) or the zip codes of the distributor and project site.
- E. The Contractor shall certify compliance with its obligations related to BCCO by completing the “EPD Construction Submittal” and “Transportation” tabs of the EPD Submittal & Sign-Off Report, which is attached to the Contract as an Exhibit.

14. APPRENTICESHIP UTILIZATION CERTIFICATION:

(for Public Projects where the expected budget is \$1M or more)

In order to comply with CRS 24-92-115 regarding statutorily required utilization of apprenticeship programs for certain trades, the awarded bidder will be required to complete a copy of the compliance form prior to execution of the contract. Please indicate

on the Apprenticeship Utilization Survey document (Appendix K if applicable). Please review the "Special Considerations for Public Projects" section of the Contract Sample for additional details regarding applicable apprenticeship utilization statutes.

15. SUBMITTAL OF BID: The completed Bid must be received by the deadline identified in the Invitation for Bid. You must include as part of your bid the following items:

- A. Provide completed Bid Schedule as described above.
- B. Provide Bid Bond (if required) as described above.
- C. SDVOSB certification issued through the U.S Department of Veterans Affairs (if applicable).
- D. Colorado Labor Justification if not using 80% Colorado Labor (if applicable).
- E. Apprenticeship Utilization Survey. [If Applicable]
- F. Contractor's Qualifications and References Statement

This information is to be enclosed in a sealed envelope marked "SEALED BID". Include the bid opening date and time.

The envelope shall be addressed to:

ATTN: Shawn Krier
Northeast Region Office
COLORADO PARKS AND WILDLIFE
6060 Broadway
Denver, Colorado 80216

Bidders Name and Address should appear in the Upper Left Corner of the envelope.

16. METHOD OF AWARD: The lowest responsible bid, taking into account the Colorado resident bidder preference provision of Colorado Law which is set forth in Article 48 of the General Conditions, will be determined by and the purchase order or contract will be issued, to the extent that the total dollar amount is within available funds to finance the construction. If all bids exceed such amount, the right is reserved to reject all bids. The Division of Parks and Wildlife reserves the right to reject any or all proposals, to waive informalities, and to accept any proposal deemed desirable.

Award will be made with reasonable promptness, by written notice to the low responsive and responsible bidder whose bid meets the requirements and criteria set forth in the Invitation for bid. These criteria will include, but not be limited to the lowest GRAND TOTAL PRICE, corrected if necessary for errors in price extension and/or addition, on the Bidder's equipment if a List of Equipment Offered is required with the bid, and capability to meet the performance time requirements. The GRAND TOTAL PRICE will be used for comparing bids only

In accordance with the General Requirements and Covenants for Capital Construction, Section 2.11, after bids have been received, the State may choose to add, reduce, or eliminate any bid item or combination of bid items so the construction Contract shall not exceed the encumbered funds allocated for this project. The contract shall be awarded to the low bidder of the bid items selected by the State.

Additive alternates will be used in determining the lowest responsible bidder within the amount available to finance the contract, added in the numeric order listed. An equal

number of alternates shall be added to the base bid of each bidder within funds available to finance the contract for purposes of determining the lowest responsible bidder.

The bidder must be registered to do business in the State of Colorado with the Secretary of State www.sos.state.co.us A Certificate of Good Standing will be required to process the Agreement.

Since federal funds are utilized for this project, the contract cannot be awarded to a contractor which has been disbarred or suspended or is otherwise excluded from or ineligible for participation in federal assistance programs. The excluded parties list can be found at the following web site: www.sam.gov/

17. UNIT COST: The price quoted in the proposal shall include the costs of labor, materials, equipment, and incidentals required to provide a fully complete and functioning unit as shown and described in the plans and specifications. The price stated in the proposal shall be complete, and represent total payment for each item in the proposal. No additional payment will be made for the work presented in the proposal.
18. INSURANCE: The successful bidder will be required to submit proof of insurance at the time of executing the agreement. Proof of insurance must be submitted on certificates showing the minimum coverage amounts.
 - A. The Contractor is required to procure and maintain at all times during the term of this contract the insurance coverage listed below:
 - 1) Workers' Compensation and Employer's Liability Insurance, as required by state statute, including occupational disease, covering all of contractor or subcontractor employees acting within the course and scope of their employment.
 - 2) Commercial General Liability Insurance written on ISO occurrence form CG 00 01 10/93 or equivalent, covering premises operations, fire damage, independent contractors, products and completed operations, blanket contractual liability, personal injury, and advertising liability with minimum limits as follows:
 - i. \$1,000,000 combined single limit written on an occurrence basis;
 - ii. \$1,000,000 general aggregate;
 - iii. \$1,000,000 products and completed operations aggregate; and
 - iv. \$50,000 any one fire.
 - v. If any aggregate limit is reduced below \$1,000,000 because of claims made or paid, the contractor shall immediately obtain additional insurance to restore the full aggregate limit and furnish to the State a certificate or other document satisfactory to the State showing compliance with this provision.
 - 3) Automobile Liability Insurance covering any auto (including owned, hired and non-owned autos) with a minimum limit as follows: \$1,000,000 each accident combined single limit.
 - 4) Builder's Risk Insurance if the Contractor will construct a new or substantially renovate an existing building.
 - 5) Pollution liability policy with minimum limits of \$1,000,000 each occurrence and \$1,000,000 Annual Aggregate covering any environmental damage caused by the contractor or subcontractor during the Work with the State included as an additionally insured party.
 - B. **The State of Colorado shall be named as an *Additional Insured* on the Commercial General Liability, Automobile Liability, and Builder's Risk policy insurance certificates and Colorado Parks and Wildlife must be named as the certificate holder for all coverages 1-4 [3] noted above (leases and construction contracts will require the additional insured coverage for completed operations on endorsements CG 2010**

11/85, CG 2037, or equivalent). Coverage required of the contract will be primary over any insurance or self-insurance program carried by the State of Colorado.

- C. The Insurance shall include provisions preventing cancellation or non-renewal without at least 45 days prior notice to the State by certified mail.
- D. The Insurance shall include a waiver of subrogation for all coverages.
- E. The contractor will require all insurance policies in any way related to the contract and secured and maintained by the contractor to include clauses stating that each carrier will waive all rights of recovery, under subrogation or otherwise, against the State of Colorado, its agencies, institutions, organizations, officers, agents, employees and volunteers.
- F. All policies evidencing the insurance coverage required hereunder shall be issued by insurance companies satisfactory to the State. No later than 15 days prior to the expiration date of any such coverage, the contractor shall deliver the State certificates of insurance evidencing renewals thereof.

19. BUILDER'S RISK INSURANCE: *Not applicable for this project*

- 20. If the successful bidder, upon acceptance of his bid by the OWNER, fails to execute such further contractual documents, and give such bond(s) (including any necessary coinsurance or reinsurance agreements) as may be required within ten (10) days after receipt of the Notice of Award, the contract may be terminated for default. In such event the CONTRACTOR shall be liable for any cost of procuring the work which exceeds the amount of his bid, and the bid guarantee shall be available toward offsetting such difference.

- 21. The bidder is not to give any information concerning his proposal to any other bidder or receive any information concerning another proposal.

- 22. SALES TAX: The Division of Parks and Wildlife is exempt from paying Colorado sales tax. Any materials and supplies purchased for this contract are exempt. The Contractor will need to obtain an exemption number from the Colorado Department of Revenue for this project and each subcontractor is required to obtain one under the general contractor.

- 23. QUANTITIES: Quantities stated in the bid schedule and construction documents are estimates only and may increase or decrease during construction. The contractor will perform the required quantity of work based on the unit prices stated in the Bid Schedule except as provided in Section 4.2 of the "General Conditions for Capital Construction."

- 24. WORK STOPPAGE: Work stoppage is a possibility. The contractor must request all shutdowns or stoppages in writing. If a shutdown is granted, the Division will pay for only work that has been totally completed. No advanced payment of mobilization will be made.

- 25. CONSTRUCTION SCHEDULE: The Contractor shall submit a written project schedule and supporting data to the Project Manager as soon as possible after the receipt of the Notice of Award. The schedule shall describe key milestones and duration of project activities. The supporting data for the schedule shall include a complete list of anticipated submittals and due dates, and the key ordering and delivery lead times. The Contractor shall schedule the sequence of construction to consider the delivery of long lead-time items. It shall be the Contractor's responsibility to notify the Project Manager of any problem in conforming to the Contract Documents, Specifications, and Construction

Drawings for any element of the proposed improvements prior to its construction.

26. SCHEDULE OF VALUES/WORK SCHEDULE: *(For larger projects <\$500k)* (Submit typed schedule of values on AIA Form G703, or a similar typewritten format on white 8-1/2" x 11" paper. Use the Table of Contents of these Contract Documents as a basis of format. Identify each line item with number and title of the Specification section. The schedule of values shall aggregate the total contract amount, and be divided so as to facilitate payments to subcontractors and suppliers. Upon request by the Project Manager, support values given with data that will substantiate their correctness. The schedule, when approved by the Project Manager, will be used as a basis for the Contractor's application for payment. Break down installed costs into delivered costs of products and total installed costs with overhead and profit. Provide a summary of the cost and origin of the five most costly manufactured items containing more than fifty percent iron or steel to be installed on the project. Revise the schedule to list change orders for each application for payment.
27. SCHEDULE OF VALUES/WORK SCHEDULE: *(For larger projects <\$500k)* Submit typed schedule of values on AIA Form G703, or a similar typewritten format on white 8-1/2" x 11" paper. Use the Table of Contents of these Contract Documents as a basis of format. Identify each line item with number and title of the Specification section. The schedule of values shall aggregate the total contract amount, and be divided so as to facilitate payments to subcontractors and suppliers. Upon request by the Project Manager, support values given with data that will substantiate their correctness. The schedule, when approved by the Project Manager, will be used as a basis for the Contractor's application for payment. Break down installed costs into delivered costs of products and total installed costs with overhead and profit. Provide a summary of the cost and origin of the five most costly manufactured items containing more than fifty percent iron or steel to be installed on the project. Revise the schedule to list change orders for each application for payment.
28. SCHEDULE OF SUBCONTRACTORS, MAJOR EQUIPMENT AND MATERIALS SUPPLIERS: The Contractor shall provide the Owner, prior to the commencement of any Work, a detailed listing of subcontractors and major equipment and materials suppliers indicating their name, address, description of service or equipment and materials being provided, if they are a woman owned or minority owned business enterprise (WBE/MBE), and their vested monetary interest in the contract. The Contractor shall not award any Work to a subcontractor, transfer or assign any portion of the Contract Work, without the written approval of the Owner. Records shall be maintained throughout the duration of the Contract and periodically submitted at the time the Contractor submits progress payment applications. The Owner will use these records to verify the Contractor's level of indebtedness prior to making final payment.
29. DIVISION APPROVAL OF SURVEYOR: The Contractor shall submit the name and qualifications of the registered land surveyor to the Project Manager as soon as possible after the receipt of the Notice of Award. The Division may request personal interviews, and retains the right to reject the proposed candidates without reservation. If a candidate is rejected, the Contractor shall provide an alternative that is acceptable, and work shall not begin until approval is obtained.
30. CONSTRUCTION CONTROL PLAN: A traffic, excavation, and construction access control plan shall be submitted by the Contractor and approved by the Owner prior to the

commencement of work. The disruption to project area visitors shall be kept to a minimum. The plan shall take into consideration all users, including motorists, cyclists, and pedestrians. The Contractor shall provide all lights, signs, barricades, flagmen, or other devices necessary to provide for public safety in accordance with the current United States Department of Transportation's Manual of Uniform Traffic Control Devices.

31. **STORMWATER MANAGEMENT PLAN:** If the project disturbs more than 1 acre of ground, a State storm-water control permit is required. The Contractor must submit a copy of the permit certification and the Stormwater Management Plan to the Owner for approval prior to the commencement of Work. The plan shall describe how the work shall remain in substantial compliance with the requirements of the Stormwater Management Program of the State Health Department, and Specification Section 02279.
32. Colorado Parks and Wildlife shall not be obligated or liable for any cost incurred by any company or individual reviewing this proposed project or prior to the issuance of a contract approved by the Controller of the State of Colorado or such assistant as he may designate. Any and all costs, to review the project, inspect the proposed construction site, prepare and or submit bids will be the sole responsibility of the bidder.
33. A submission in response to the solicitation acknowledges acceptance by the proposer of all unaltered terms and conditions, as set forth herein. Any proposed exception taken to the State's Terms and Conditions must be clearly and thoroughly identified and supported and acceptable alternatives must be proposed. Failure to do so shall be deemed a waiver of any rights to subsequently raise exception and/or request modification, except as outlined or specified in this solicitation. Submission of exceptions does not guarantee their acceptance, however, and such submittal will be taken into consideration during proposal review and scoring by the evaluation team. The state reserves the right to reject any changes suggested to PO or Contact terms and conditions and award to the next most advantageous qualified responsive vendor.
34. **PROTESTED SOLICITATIONS AND AWARDS:** An aggrieved party may file a protest concerning a material issues(s), at any phase of solicitation, including but not limited to, specifications, award or a disclosure of information marked confidential in the bid. The protest shall be submitted via email to the DNR Procurement Official as noted below within ten (10) business days after such aggrieved person knows, or should have known, of the facts giving rise thereto. Reference CRS 24-109-102, as amended, and Procurement Rule R-24-109-102-01, et seq.

DNR Procurement Official: Ion Cotsapas, ion.cotsapas@state.co.us

The written protest shall include, as a minimum, the following:

- i. The name and address of the protestor;
- ii. Appropriate identification of the procurement by bid or award number;
- iii. A statement of the reasons for the protest, and any available exhibits, evidence, or documents substantiating the protest.

35. **ACH/EFT PAYMENTS:** Contractors are highly encouraged to consider signing up for ACH/EFT payments. ACH/EFT payments provide the advantage of ensuring quick and secure payments for the goods and services that vendors provide to the State. ACH/EFT payments help avoid the unnecessary, and sometimes inevitable delays in mail, and the possibility of lost warrants which will further delay vendor payment. DNR's goal is to

pay vendors as soon as possible - signing up for the ACH/EFT is an important step in making this happen. For additional information about signing up for ACH/EFT payments, please contact the Project Manager identified in the Invitation for Bids.

36. In accordance with procurement code and CRS 24-103-904 (was CRS 24-103-207.5) titled "Purchasing Preference for Environmentally Preferable Products", bidders responding to this solicitation may seek to qualify for the preference and governmental bodies conducting this solicitation shall award a contract to a bidder who offers environmentally preferable products subject to the condition in the code and procurement rules.
37. ALTERNATIVE PRODUCTS: Certain materials and equipment have been specified by manufacturers' trade names. This was done to establish the minimum quality and type of product desired. Alternatives to the manufacturers' products may be used if the Project Manager determines they are equal. The Award will be based on the products identified in the plans.

NOTE: Alternate products will not be considered in the Bidding Phase.

38. DAVIS-BACON WAGE LAW: This project is not subject to the Davis-Bacon Act.
39. PREVAILING WAGES: Not applicable to this project, per C.R.S. 24-92-202 "...this is not applicable to projects that receive federal funding."
40. NOTICE OF CONTRACTOR'S SETTLEMENT: If the project exceeds \$150,000, a Final Settlement will be advertised via electronic media on the Colorado VSS website at www.colorado.gov/vss.
41. CONTRACT CLOSE OUT: Final Payment Statement: In addition to submittals required by the conditions of the Contract, provide submittals required by governing authorities and submit a final statement of accounting giving total adjusted Contract Sum, previous payments and sum remaining due. Provide a final summary of the cost and origin of the five most costly manufactured items containing more than fifty percent iron or steel that were installed on the project. The Contractor shall submit lien waivers for all subcontractors and material suppliers as part of the final payment statement.
42. LIQUIDATED DAMAGES: The parties agree that time is of the essence of the Contract and of the Specifications wherever a definite and certain length of time is fixed for the performances of any act. A daily charge will be made against the Contractor for each calendar day that any work remains uncompleted after the elapse of contract time. This daily charge will be deducted from any money due to the Contractor. This deduction will not be considered a penalty, but as liquidated damages.

The liquidated damages set forth is an amount, agreed to by the Contractor and the Division, as reasonably representing additional project construction administration costs incurred by the Division and projected loss of revenue to CPW if the Contractor fails to complete performance within the contract time. For this project, the **Liquidated Damages will be \$100.00 Liquidated Damages per day.**

Due account shall be taken of any adjustment of the contract time for completion of the work granted under the provisions of subsection 8.5 of the General Conditions for Capital Construction. Permitting the Contractor to continue and finish the work or any part thereof

after elapse of contract time will not operate as a waiver on the part of the Division on any of its rights under the Contract.

Any deduction assessed as liquidated damages under this section shall not relieve the Contractor from liability for any damages or costs resulting from delays to other contractors on the project or other projects caused by a failure of the assessed Contractor to complete the work according to contract times.

43. WORK HOURS ON PROJECT SITE: All work on this project site will be allowed as follows: Monday through Friday, 07:00 AM to 06:00 PM or otherwise approved in writing by the Project Manager.

44. PERFORMANCE MONITORING CRS §§ 24-106-107:

A. PERFORMANCE MEASURES AND STANDARDS:

Performance measures and Standards as defined in the General Conditions for Capital Construction shall be the basis for this Contract. This includes but is not limited to the following:

- 1) The Contractor shall prepare a project schedule at project startup and continue to update the schedule throughout construction providing detailed justifications for construction delays and schedule changes.
- 2) The Contractor shall submit all required product information as defined in the Construction Drawings & Specifications. In turn, the State's Project Manager shall review and comment within 10 days of receipt.
- 3) The State's Project Manager and the Contractor shall conduct Construction Progress Meetings and Quantity Verification Inspections at least monthly or as otherwise determined necessary during Construction activities.

B. ACCOUNTABILITY:

Project and Contract administration will provide accountability by documenting and evaluating the progression of construction and the ability to follow the agreed upon construction schedule. The Contractor shall report regularly on achievement of the performance measures and standards specified above and failure to do so allows the governmental body to withhold payment until successful completion of all or part of the contract and the achievement of established performance standards. Payment by the State to the Contractor shall be made without delay upon successful completion of all or any part of the contract in accordance with the payment schedule specified in the contract or as otherwise agreed upon by the parties.

C. MONITORING REQUIREMENTS:

The State will evaluate the Contractor's performance by preparing monthly progress reports and monthly construction schedule updates provided by the Contractor as well as performing site visits to verify quantities based on the Bid Schedule, inspections to verify quality of work, and reviews of performance data as construction progresses to ensure that the results, objectives and obligations of the contract are met.

D. NONCOMPLIANCE RESOLUTION:

Methods and mechanisms as defined in the General Conditions for Capital Construction shall be used to resolve any situation in which the State's monitoring assessment determines noncompliance, including termination of the contract.

END OF SECTION

CONTRACTOR'S QUALIFICATIONS AND REFERENCES

CHERRY CREEK STATE PARK NORTH SHOP CREEK CONNECTOR TRAIL BRIDGE PROJECT

BID #: IFB1 PMAA 2027000013

Interested firms shall submit as an attachment to the bid proposal one (1) copy of the following document. Failure to provide a completed Contractor's Qualification Statement with the sealed bid proposal will result in disqualification. This format can be expanded up to five (5) total pages maximum.

1. Provide summaries of three (3) similar commercial construction projects in the past five (5) years that include materials, trades, and site work of similar scope. Include the project name, contract value, and a brief description of the project.

Project #1:

Project #2:

Project #3:

2. Provide reference information for the example projects. Include the owner's name, the reference point of contact, and their phone number.

Project #1:

Project #2:

Project #3:

SPECIAL PROVISIONS
CHERRY CREEK STATE PARK
NORTH SHOP CREEK TRAIL BRIDGE

BID #: IFB1 PMAA 2027000013

The provisions listed hereafter are specific for this contract only and do not apply to any other contract. Any provisions stated herein take precedent over any requirement of the *General Conditions for Capital Construction* or other sections of this document. Any conflicting segment shall be void while the special provision is applicable. The Contractor is to review these special provisions and include any cost because of these provisions in the pay items of the proposal.

The Colorado Division of Parks and Wildlife (also known as "Parks" or "Owner") shall not be obligated or liable for any cost incurred by any company or individual reviewing this proposed project or prior to the issuance of a contract approved by the Controller of the State of Colorado or such assistant as he may designate. Any and all costs, to review project, inspect the proposed construction site, prepare and or submit bid will be the responsibility of the bidder.

A. Bid Award

Award will be made with reasonable promptness, by written notice to the low responsive and responsible bidder whose bid meets the requirements and criteria set forth in the Invitation for bid. These criteria will include, but not be limited to the lowest GRAND TOTAL PRICE, corrected if necessary for errors in price extension and/or addition, on the Bidder's equipment if a List of Equipment Offered is required with the bid, and capability to meet the performance time requirements. The GRAND TOTAL PRICE will be used for comparing bids only.

B. Limits of Construction / Efforts for Minimal Disturbance

The limits of construction for this project shall be defined as the minimal area of disturbance necessary for construction of the fencing and associated site work. It is the Owner's intention to leave as much of the site as possible undisturbed and in its natural vegetated state. Where it appears that this may be difficult to accomplish, consult the Owner's on-site representative prior such work.

The Contractor shall notify Owner and Inspector, at least 24 hours prior to desired inspection, and 48 hours prior to commencing with construction activities within the Park.

Any areas of disturbance outside of the construction limits shown on the plans and/or approved by the State will be repaired to a condition as found prior to construction. All grading, vegetation and surface improvements will be replaced in like kind. The Contractor will not receive final payment until the State has accepted the repairs.

C. Safety and Protection

Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to damage, injury, or loss to:

1. The general public who will be utilizing the adjacent areas at the same time construction is underway. Fence, clearly mark, construct and/or maintain barriers around all construction areas to safeguard the public at all times.
2. Employees doing the work and other persons who may be affected.

3. The work and materials or equipment to be incorporated therein, whether in storage on or off the site.
4. Other property at the site or adjacent thereto, including, but not limited to: trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

All work shall be carried out in a safe manner in accordance with all local building codes and the safety requirements of the Colorado State Division of Labor and OSHA, and provide adequate measures for the protection and safety of workmen, adjacent public property, and passer-by to the site..

Provide shoring, sheeting, and bracing to prevent caving, erosion, and gulling of sides of excavation.

Prior to completion of the work, remove from the job site all tools, surplus material, scrap, equipment, debris, and waste.

Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury of loss; and shall erect and maintain all necessary safeguards for such safety and protection.

CPW is not responsible for work site safety or compliance/enforcement of safety regulations and Standards established by other agencies. All safety compliance/enforcement at the work site shall be the Contractor's responsibility.

Contractor shall sign hazardous areas as closed to the public and fence them with temporary fencing to minimize accidental entrance into the work area by the public.

D. Bid Item Modification / Contract Award

In accordance with the *General Conditions for Capital Construction*, Section 2.11, after bids have been received, the State may choose to add, reduce, or eliminate any bid item or combination of bid items so the construction Contract shall not exceed the encumbered funds allocated for this project. The contract shall be awarded to the low bidder of the bid items selected by the State.

E. Additive Alternates

The lowest responsible bid, taking into account the Colorado resident bidder preference, Article 14 of the General Conditions, will be determined by and the contract will be awarded on the base bid plus all additive alternates, to the extent that the addition of alternates results in a sum total within available funds to finance the contract. Additive alternates will be used in determining the lowest responsible bidder, adding in the numerical order listed. An equal number of alternates shall be added to the base bid of each bidder within funds available to finance the contract for the purposes of determining the lowest responsible bidder. If this bid exceeds such amount, the right is reserved to reject all bids.

F. Construction Water

Water for construction cannot be taken from the reservoir. Small amounts of domestic water are available from the Park at a location designated by the Project Manager. No filling of water trucks will be allowed on the Park using the Park's domestic water. Water trucks shall be filled off the Park at Contractor's expense.

G. Disposal of Materials

The Contractor is solely responsible for the removal, hauling, and proper disposal of waste materials off of the Park. It is the Contractor's sole responsibility to locate and dispose of these materials in an approved disposal site. The Contractor shall have a dumpster located on the site for all debris and it shall have a cover.

H. Dust Control

The Contractor shall be responsible for controlling dust on the construction site. Methods to control dust are the responsibility of the Contractor. If requested, a dust control plan shall be prepared by the Contractor and submitted to Parks for review and approval.

I. Park Access

All vehicles entering the Park for construction purposes shall use the formal park entrances.

J. Public Access

Public access to Park Facilities shall not be limited due to construction activities unless prior written authorization is provided by the Parks.

K. Weather Protection

The Contractor shall protect the work area to prevent long-term delays in the work due to weather, which may be reasonably anticipated during the construction period. This may include covering work areas such as the subgrade and material stockpiles to prevent frost from entering the materials. It also includes removal of any accumulated snow from the work area and maintaining good drainage at the site.

Park crews shall be responsible for snow removal to the construction site from the entrance to the Park. No snow removal by Park crews will occur on the construction site. Snow removal will be completed as quickly as Parks resources allow. Parks makes no guarantee as to when snow removal will be completed.

L. Utility Locate

The contractor shall, prior to excavation, locate all underground utilities and structures at least 48 hours prior to commencement of construction and report any conflicts to the Park. Telephone and electrical lines may be encountered that are not indicated on the plans.

M. Field Offices and Construction Yard

If the Contractor elects to establish an office for his own use, the size, location, and construction shall be subject to approval by Parks. The Contractor shall be responsible for cost of electric power, heating and local telephone service that he may require.

The Contractor, if deemed necessary, is responsible for the cost to have internet and/or phone service at the construction site.

N. Staging Area

The designated staging area shall be located in the vicinity of the project as designated by the Project Manager. The staging area must be secured at all times. Once work in the Park is completed, the staging area(s) shall be closed and restored. Any damage shall be repaired to the standards and satisfaction of the Owner

O. Temporary (Sanitary) Facilities

The Contractor shall be responsible for any temporary utilities he may need to accomplish the work.

The Contractor shall provide toilet facilities in weatherproof, sight-proof, sturdy, ventilated enclosures for use by construction personnel. Facilities shall be properly maintained to protect public health and to prevent the development of nuisance odors. The Contractor shall completely remove sanitary facilities

upon completion of the work. The Contractor is encouraged to lock toilet facilities during non-construction periods to prevent over use by the public.

The Contractor shall be responsible for supplying drinking water for workers during construction.

P. Materials Furnished by Owner

The Owner will furnish no labor, equipment, or materials to the Contractor other than those indicated on the drawings or in the specifications.

Q. Contractor Responsibility

The Contractor shall assign an employee to be on-site and be responsible for all aspects of this project after normal working hours and over weekends as emergency standby. Telephone numbers for this individual shall be submitted to the Project Manager and Owner during the pre-construction meeting.

The Contractor shall maintain the construction site in a clean, unobtrusive manner at all times. The Contractor will clean the area each night before leaving. The construction crew is to be courteous to the public at all times. Any public disturbance will be referred to the Park Ranger immediately. The Contractor shall take all precautions necessary to safeguard the public.

R. Excess Excavated Material

All excess excavated material shall be hauled off from the Park and disposed of by the Contractor, at their cost.

S. Fencing

Temporary construction safety fencing, barricades, signs, etc. shall be placed and maintained throughout the duration of the project, at the limits of construction and with the approval of the Park. At no time shall the fencing be placed beyond the easements shown and described on the Drawings and/or described in the Contract Documents, unless written permission to do so is granted by the Park.

T. Construction Hours

Construction hours, except for emergencies, shall be limited to 7:00 am to 7:00 pm Monday through Friday. No construction shall take place on holidays, Saturday, Sunday, or without written authorization from the State.

U. Notifications

Contract shall give State a minimum of 24 hours notice (exclusive of holidays and weekends) for inspections and/or testing requests.

V. Watchman

Contractor shall be solely responsible for the safety of his work, materials, equipment, tools, etc., on the site and shall, if they deem it necessary or expedient, employ at their own expense the services of a competent watchman.

END OF SPECIAL PROVISIONS

SPECIAL CONDITIONS

The following sections of the 2025 CDOT Standard Specifications for Road and Bridge Construction, as modified by the DRAWINGS and Project Special Provisions, control construction of this project. The following sections are hereby incorporated by reference into this CONTRACT, except that the Measurement and Payment provisions in these standards shall be removed and replaced with the Measurement and Payment outlines included in this document:

1. Section 106.11 – Buy America (BA) and Build America (BABA) Requirements
2. Section 107.07 – Performance of Safety Critical Work
3. Section 201 – Clearing and Grubbing
4. Section 202 – Removal of Structures and Obstructions
5. Section 203 – Excavation and Embankment
6. Section 206 – Excavation and Backfill for Structures
7. Section 207 – Topsoil
8. Section 212 – Seeding, Fertilizing, Soil Conditioner and Sodding
9. Section 213 – Mulching
10. Section 304 – Aggregate Base Course
11. Section 503 – Drilled Shafts
12. Section 509 – Steel Structures
13. Section 601 – Structural Concrete
14. Section 602 – Reinforcing Steel
15. Section 608 – Sidewalks and Bikeways
16. Section 625 – Construction Surveying
17. Section 630 – Construction Zone Traffic Control

The following special provisions supplement or modify the Standard Specifications and take precedence over the Standard Specifications and plans.

1. Revision of Section 106 - Buy America (BA) and Build America, Buy America (BABA)
2. Revision of Section 503 – Drilled Shafts
3. Revision of Section 506 - Void-filled riprap
4. Revision of Section 628 – Bridge Girder and Deck Unit

BUY AMERICA (BA), BUILD AMERICA BUY AMERICA (BABA)

Section 106.11 of the Standard Specifications is hereby revised for this project to include the following:

Steel, iron, non-ferrous metals, and fabricated products used on this project shall meet Buy America (BA) and Build America, Buy America (BABA) requirements. Refer to Section 106.11 of the CDOT Standards for categorization, material, and certificate of compliance requirements.

WATER CONTROL

I. GENERAL

1. SECTION INCLUDES

- a. The WORK of this section consists of controlling groundwater, site drainage, and storm flows during construction. CONTRACTOR is cautioned that the WORK involves construction in and around drainage channels, local rivers, and areas of local drainage. These areas are subject to frequent periodic inundation.

2. RELATED SECTIONS

- a. The following is a list of SPECIFICATIONS which may be related to this section:
 - i. Section 01 57 19, Temporary Environmental Controls
 - ii. Section 31 23 00, Excavation and Fill.
 - iii. Section 31 23 33, Trenching and Backfilling.
 - iv. Section 31 35 00, Erosion and Sedimentation Control

3. REFERENCES

- 1. The following is a list of standards which may be referenced in this section:

- a. ASTM International (ASTM):

- i. D698, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³ (600 kN-m/m³)).

4. SUBMITTALS

- a. CONTRACTOR shall submit to the ENGINEER a Water Control Plan 2 weeks prior to execution of the PROJECT. At a minimum, the Water Control Plan shall include:
 - i. Descriptions of proposed groundwater and surface water control facilities including, but not limited to, equipment, methods, standby equipment and power supply, means of measuring inflow to excavations, pollution control facilities, discharge locations to be utilized, and provisions for immediate temporary water supply as required by this section.
 - ii. Drawings showing locations, dimensions, and relationships of elements of each system.
 - iii. Design calculations demonstrating adequacy of proposed dewatering

systems and components.

- iv. If system is modified during installation or operation, revise or amend and resubmit Water Control Plan.

II. PRODUCTS

1. MATERIALS

- a. Onsite materials may be used within the limits of construction to construct temporary dams and berms. Materials such as plastic sheeting, sand bags, and storm sewer pipe may also be used if desired by CONTRACTOR.

III. EXECUTION

1. GENERAL

- a. For all excavation, CONTRACTOR shall provide suitable equipment and labor to remove water, and keep the excavation dewatered so that construction can be carried on under dewatered conditions.
 - i. Water control shall be accomplished such that no damage is done to adjacent channel banks or structures.
 - ii. Continuously control water during course of construction, including weekends and holidays and during periods of work stoppages, and provide adequate backup systems to maintain control of water.
- b. CONTRACTOR is responsible for investigating and becoming familiar with all site conditions that may affect the WORK including surface water, potential flooding conditions, level of groundwater and the time of year the work is to be done.
- c. CONTRACTOR shall conduct operations in such a manner that storm or other waters may proceed uninterrupted along their existing drainage courses.
 - i. By submitting a BID, CONTRACTOR acknowledges that CONTRACTOR has investigated the risk arising from such waters and has prepared BID accordingly, and assumes all of said risk.
- d. At no time during construction shall CONTRACTOR affect existing surface or subsurface drainage patterns of adjacent property.
 - i. Any damage to adjacent property resulting from CONTRACTOR's alteration of surface or subsurface drainage patterns shall be repaired by CONTRACTOR at no additional cost to OWNER.
- e. Pumps and generators used for dewatering and water control shall be quiet equipment enclosed in sound deadening devices.

- f. CONTRACTOR shall remove all temporary water control facilities when they are no longer needed or at the completion of the PROJECT.
- g. All excavations made as part of dewatering operations shall be backfilled with the same type material as was removed and compacted to ninety-five percent (95%) of Maximum Standard Proctor Density (ASTM D698) except where replacement by other materials and/or methods are required.

2. CONSTRUCTION

a. Surface Water Control:

- i. Surface water control generally falls into the following categories:
 - 1. Normal low flows along the channel.
 - 2. Storm/flood flows along the channel.
 - 3. Flows from existing storm drain pipelines.
 - 4. Local surface inflows not conveyed by pipelines.
- ii. CONTRACTOR shall coordinate, evaluate, design, construct, and maintain temporary water conveyance systems.
 - 1. These systems shall not worsen flooding, alter major flow paths, or worsen flow characteristics during construction. CONTRACTOR is responsible to ensure that any such worsening of flooding does not occur.
 - 2. CONTRACTOR is solely responsible for determining the methods and adequacy of water control measures.
- iii. At a minimum, CONTRACTOR shall be responsible for diverting the quantity of surface flow around the construction area so that the excavations will remain free of surface water for the time it takes to install these materials, and the time required for curing of any concrete or grout. CONTRACTOR is cautioned that the minimum quantity of water to be diverted is for erosion control and construction purposes and not for general protection of the construction site.
 - 1. It shall be CONTRACTOR's responsibility to determine the quantity of water which shall be diverted to protect the WORK from damage caused by stormwater.
- iv. CONTRACTOR shall, at all times, maintain a flow path for all channels.
 - 1. Temporary structures such as berms, sandbags, pipeline diversions, etc., may be permitted for the control of channel flow, as long as such measures are not a major obstruction to flood

flows, do not worsen flooding, or alter historic flow routes.

b. Groundwater Control:

- i. CONTRACTOR shall install adequate measures to maintain the level of groundwater below the foundation subgrade elevation and maintain sufficient bearing capacity for all structures, pipelines, earthwork, and rockwork.
 1. Such measures may include, but are not limited to, installation of perimeter subdrains, pumping from drilled holes or by pumping from sumps excavated below the subgrade elevation.
 2. Dewatering from within the foundation excavations shall not be allowed.
- ii. The foundation bearing surfaces are to be kept dewatered and stable until the structures or other types of work are complete and backfilled.
 1. Disturbance of foundation subgrade by CONTRACTOR operations shall not be considered as originally unsuitable foundation subgrade and shall be repaired at CONTRACTOR's expense.
- iii. Contractor shall dispose of groundwater as follows:
 1. Obtain discharge permit for water disposal from authorities having jurisdiction.
 2. Treat water collected by dewatering operations, as required by regulatory agencies, prior to discharge.
 3. Discharge water as required by discharge permit and in manner that will not cause erosion or flooding, or otherwise damage existing facilities, completed Work, or adjacent property.
 4. Remove solids from treatment facilities and perform other maintenance of treatment facilities as necessary to maintain their efficiency.
- iv. Any temporary dewatering trenches or well points shall be restored following dewatering operations to reduce permeability in those areas as approved by ENGINEER.

VOID-FILLED RIPRAP

I. **GENERAL**

1. SECTION INCLUDES

- a. The WORK includes excavation, grading, and installation of riprap, boulders, soil

riprap, void-filled riprap, and bedding placed at the locations shown on the DRAWINGS. The materials to be used and the construction of such structures shall be as specified herein.

2. REFERENCES

a. The following is a list of standards which may be referenced in this section:

i. American Association of State Highway and Transportation Officials (AASHTO):

1. T85, Standard Method of Test for Specific Gravity and Absorption of Coarse Aggregate.
2. T96, Standard Method of Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.
3. T103, Standard Method of Test for Soundness of Aggregates by Freezing and Thawing.
4. T104, Standard Method of Test for Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate.
5. T248, Reducing Field Samples of Aggregate Test Size.

ii. ASTM International (ASTM): D698, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³ (600 kN-m/m³)).

3. SUBMITTALS

- a. CONTRACTOR shall cooperate with ENGINEER in obtaining and providing samples of all specified materials.
- b. CONTRACTOR shall submit certified laboratory test certificates for all items required in this section.

II. PRODUCTS

1. MATERIALS

a. RIPRAP

- i. Riprap used shall be the type designated on the DRAWINGS and shall conform to Table 1.

Table 1: Riprap Gradation

Riprap Designation	% Smaller Than Given Size By Weight	Intermediate Rock Dimension (inches)	d50 (inches)
Type H	70-100	30	18
	50-70	24	
	35-50	18	
	2-10	6	

- ii. The riprap designation and total thickness of riprap shall be as shown on the DRAWINGS. The maximum stone size shall not be larger than the thickness of the riprap.
- iii. Neither width nor thickness of a single stone of riprap shall be less than one-third ($1/3$) of its length.
- iv. The specific gravity of the riprap shall be two and one-half (2.5) or greater.
- v. Riprap specific gravity shall be according to the bulk-saturated, surface-dry basis, in accordance with AASHTO T85.
- vi. The bulk density for the riprap shall be 1.3 ton/cy or greater.
- vii. The riprap shall have a percentage loss of not more than forty percent (40%) after five hundred (500) revolutions when tested in accordance with AASHTO T96.
- viii. The riprap shall have a percentage loss of not more than ten percent (10%) after five (5) cycles when tested in accordance with AASHTO T104 for ledge rock using sodium sulfate.
- ix. The riprap shall have a percentage loss of not more than ten percent (10%) after twelve (12) cycles of freezing and thawing when tested in accordance with AASHTO T103 for ledge rock, procedure A.
- x. Rock shall be free of calcite intrusions.
- xi. Gradation:
 - 1. Each load of riprap shall be reasonably well graded from the smallest to the largest size specified.

2. Stones smaller than the two to ten percent (2 to 10%) size will not be permitted in an amount exceeding ten percent (10%) by weight of each load.
3. Control of gradation shall be by visual inspection. However in the event ENGINEER determines the riprap to be unacceptable, ENGINEER shall pick two (2) random truckloads to be dumped and checked for gradation.
 - a. Mechanical equipment and labor needed to assist in checking gradation shall be provided by CONTRACTOR at no additional cost.

xii. Color:

1. The color of the riprap shall approved by ENGINEER prior to delivery to the PROJECT site.
2. Color shall be consistent on the entire PROJECT and shall match the color of rock to be used for all other portions of the WORK.

xiii. Broken concrete or asphalt pavement shall not be acceptable for use in the WORK.

b. VOID-FILLED RIPRAP

- i. Rock requirements are to comply with riprap material specifications in Paragraph A.
- ii. Samples of riprap are void-filled materials shall be submitted for the review and approval of the ENGINEER prior to construction.
- iii. Mix proportions and material gradations in Table 2 are approximate and are subject to adjustment by the ENGINEER. No adjustment in unit price for void-filled riprap will be allowed based on modifications to the mix proportions.

Table 2: Mix Requirements for Type H Void-Filled Riprap

Approximate Proportions (loader		
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buckets)	Material Type	Material Description
6	Riprap	Type H
2	Void-Fill material	7-inch minus crushed rock surge (100% passing 7-inch sieve, 80-100% passing 6-inch sieve, 35-50% passing 3-inch sieve, 10-20% passing 1.5- inch sieve)
1	Void-Fill material	VTC (Vehicle Tracking Control) rock (crushed rock with 100% passing 4-inch sieve, 50-70% passing 3-inch sieve, 0-10% passing 2-inch sieve)
1	Void-Fill material	4-inch minus pit run surge (round river rock and sand, well graded, 90-100% passing 4-inch sieve, 70-80% passing 1.5-inch sieve, 40-60% passing 3/8-inch sieve, 10-30% passing #16 sieve).
1	Void-Fill material	CDOT Filter Material Class A 
½ to 1	Void-Fill material	Native topsoil

Note: Mix proportions and material gradations are approximate and are subject to adjustment by the ENGINEER

III. EXECUTION

1. PREPARATION

- a. Channel slope, bottom, or other areas that are to be protected with riprap, boulders, soil riprap, or void-filled riprap shall be free of brush, trees, stumps, and other objectionable material and be graded to a smooth compacted surface as shown on the DRAWINGS.
- b. CONTRACTOR shall excavate areas to receive riprap to the subgrade as shown on the DRAWINGS accounting for granular bedding.
- c. CONTRACTOR shall excavate areas to receive boulders, soil riprap, or void-filled riprap to the specified depth (bedding material is not required for boulders, soil riprap, or void-filled riprap).
- d. Subgrade Materials:
 - i. The subgrade materials shall be stable.
 - ii. If unsuitable materials are encountered, they shall be removed and replaced as Muck Excavation in accordance with Section 31 23 00,

Excavation and Fill, for subgrade that has been excavated in undisturbed soil.

e. Additional Compaction:

- i. Additional compaction shall not be required unless specified by ENGINEER.
- ii. When subgrade is built up with embankment material it shall be compacted to ninety five percent (95%) maximum density (ASTM D698).

f. Bedding:

- i. After an acceptable subgrade is established, bedding shall be immediately placed and leveled to the specified elevation on the DRAWINGS.
- ii. Immediately following the placement of the bedding material, the riprap shall be placed.
- iii. If bedding material is disturbed for any reason, it shall be replaced and graded at CONTRACTOR's expense.
- iv. Contamination:
 - 1. In-place bedding materials shall not be contaminated with soils, debris or vegetation before the riprap is placed.
 - 2. If contaminated, the bedding material shall be removed and replaced at CONTRACTOR's expense.

2. PLACEMENT

a. VOID-FILLED RIVER ROCK

- i. The ENGINEER and/or CONSTRUCTION INSPECTOR shall observe mixing and placing of the material.
- ii. Approved individual component materials of void-filled riprap mix shall be delivered to site in separate marked stockpiles. Mixing shall be accomplished using a front end loader or other approved means to add the specified number of "loader buckets" of each material to a mixing stockpile. Ensure that each loader bucket comprises an approximately equal volume. If the loader operator is only able to fill the bucket partially full with large riprap (due to the force required to push the bucket into the pile), but uses full buckets of finer material, the mix

proportions will not be correct. Avoid picking up excessive amounts of native soil from the subgrade under the stockpiled materials during the loader bucket mixing operations. The ENGINEER may reduce or eliminate the volume of topsoil added to the mixture based on the amount of native soil was incorporated during the bucket mixing operation.

- iii. Once all the materials have been added to the mixing stockpile in the specified proportions, thoroughly mix the pile using a loader, large track-hoe excavator, or other approved means to fill the voids of the riprap **without displacing the riprap** or creating pockets of finer material absent of riprap.
- iv. Segregation of materials shall be minimized when hauling from the stockpile to the installation location. Remixing shall occur as necessary to correct for any segregation as the material is placed.
- v. The loose material shall be placed in a single lift of sufficient height such that final grade will be achieved upon compaction. Additional mixing with a track excavator shall be required after initial placement to ensure that the void-filled riprap is thoroughly mixed and no segregation or excessive amount of smaller void-fill material is present on the surface. The mixing and placement process shall result in larger riprap (D₅₀ size or larger) flush to the top surface with faces and shapes arranged to minimize voids, and smaller material between and below larger materials.
- vi. If the top of the compacted material is below final grade, placement of only the smaller void-fill materials to achieve final grade will not be permitted. Additional void-filled riprap shall be added and the entire section mixed with a track excavator to eliminate the presence of smaller void-fill material on the surface.
- vii. Avoid segregation of materials and remix any section where the combined material consists primarily of the void-fill materials. The density and interlocking nature of riprap in the mixed material shall essentially be the same as if the riprap was placed without filling the voids. This requires care and persistence on the part of the CONTRACTOR to install the work and on the part of the ENGINEER to assure that the work is installed correctly.
- viii. At the direction of the ENGINEER, a 50:50 mixture of pit run and Type II bedding shall be sprinkled on the surface of the void-filled riprap and washed-in with water using a high pressure hose to fill-in small voids. This shall be done just prior to compaction of the void-filled riprap.
- ix. If specified as part of the cobble mix, the top dressing of cobbles shall also be mixed in on the surface of exposed sections of void-filled riprap

material prior to compaction of the riprap material.

- x. Compaction of the void-filled riprap shall be performed by running over the void-filled riprap with a large, heavy duty track excavator or dozer. The moisture content of the mixture shall be at optimum conditions prior to compaction and water shall be added, as necessary, at the direction of the ENGINEER. Compaction of void-filled riprap shall be reviewed and approved by the ENGINEER.
- xi. Where indicated on the DRAWINGS, a surface layer of 4 to 6 inches moist topsoil shall be placed over the void-filled riprap. The topsoil surface layer shall be compacted to approximately 85% of maximum density and within two percentage points of optimum moisture in accordance with ASTM D698. Topsoil shall be added to any areas that settle.
- xii. CONTRACTOR shall install a test section of at least 100 square feet of void-filled riprap for the review and approval of the ENGINEER prior to installation of the remaining void filled-riprap.
- xiii. Elevation tolerance for the void-filled riprap shall be 0.10 feet. Thickness of void-filled riprap shall be no less than thickness shown and no more than 2-inches greater than the thickness shown.

3. REJECTION OF WORK AND MATERIALS

- a. ENGINEER will reject placed riprap, boulders, soil riprap and bedding that do not conform to this section. CONTRACTOR shall immediately remove and re-lay the riprap, boulders, soil riprap, void-filled riprap, and bedding to conform to SPECIFICATIONS.
- b. Riprap, boulders, soil riprap, void-filled riprap and bedding that do not conform to this section shall be rejected, whether delivered to the job site or placed.
- c. Rejected riprap, boulders, soil riprap and bedding shall be removed from the PROJECT site by CONTRACTOR at CONTRACTOR's expense.

BEDROCK SOUNDING

Section 503 of the Standard Specifications is hereby revised for this project as follows:

Subsection 503.01 shall include the following:

DESCRIPTION

The WORK includes drilling of exploratory geotechnical borings, coring, sampling, and logging of exploratory borings to establish the depth to bedrock. The WORK will occur prior to ordering or fabricating material for the drilled shafts. The Contractor shall provide drilling

equipment, continuous observation by a licensed geotechnical engineer, and all other materials and labor necessary to complete the WORK.

Subsection 503.12 shall include the following:

CONSTRUCTION REQUIREMENTS

Prior to ordering or fabricating material for drill shafts, the Contractor shall drill geotechnical test holes at each substructure unit. The test holes will be located as close as practical to the substructure unit. Proposed test hole locations shall be submitted to the Engineer for review prior to mobilizing for drilling. The Engineer will use the test hole results to determine the required tip elevations for the drilled shafts. Drilled shaft construction shall not begin until test hole reports are approved by the Engineer.

Test holes shall be made in accordance with ASTM D 2113 Standard Practice for Diamond Core Drilling for Site Excavation using a double or triple wall core barrel to anticipated bedrock elevation as defined in the DRAWINGS, or as directed by the Engineer. The Contractor shall mobilize equipment of sufficient size to drill at least 20-feet below anticipated bedrock elevation as described in the drawings.

The Contractor shall provide continuous onsite observation of drilling operations by a licensed geotechnical engineer.

Take cores when shown in the plans or directed by the geotechnical engineer to determine the character of the material directly below the shaft excavation. Drilling may be discontinued when the geotechnical engineer determines that competent bedrock elevation has been reached. The Contractor shall provide logs indicating the progress of the drilling, including the elevation of the top of hole and elevation of competent bedrock. The Contractor shall submit these logs to the Engineer. Provide two (2) weeks for the Engineer to adjust the drilled shaft tip elevations for shaft construction.

Properly remove and dispose of waste material from drilling upon completion. Backfill test holes with approved self-consolidating material.

BRIDGE GIRDER AND DECK UNIT

Section 628 is hereby added to the Standard Specifications for this project as follows:

DESCRIPTION

628.01 General. This work consists of the design, fabrication, and erection of a simple span, welded self-weathering steel (ASTM A 709 Grade 50W), pedestrian truss bridge with concrete deck per the specifications and plan details. This bridge will cross over Cherry Creek on the North Connector Trail in Cherry Creek State Park. All materials used in the fabrication of the bridge shall comply with Build America Buy America (BABA) requirements.

Potential bridge suppliers include, but are not limited to:

1. Contech Engineered Solutions
 19060 County Road 66
 Greeley, Colorado 80631
 970-301-2064

2. BCS Fabrication
 5120 Boyd Lake Ave
 Loveland, Colorado 80538

3. Excel Bridge Manufacturing Company
 12001 Shoemaker Avenue
 Santa Fe Springs, California 90670
 562-944-0701

MATERIALS

628.02 Structural Steel. All structural steel shall be new (unused) material and shall conform to the requirements in Section 509. Floor beams, stringers, and members of each truss (upper and lower chords, diagonals, end posts and vertical posts) utilized in the bridges shall meet a longitudinal Charpy V notch (CVN) values per Table C6.6.2.1-1 of the AASHTO LRFD Bridge Design Specifications for Temperature Zone 2 (typically 25 ft. lbs. at 40 degrees Fahrenheit). Testing shall be per AASHTO T 243 (ASTM A 673). The H frequency of heat testing shall be used. The Contractor shall provide the Engineer with copies of all certified mill test reports and CVN test reports and heat numbers and Buy America documentation for all structural steel and bolts. Minimum thickness of closed structural tubular members shall be 3/16 of an inch.

All square and rectangular structural steel tubing shall conform to the requirements of ASTM A 847, Cold-Formed Welded and Seamless High Strength, Low Alloy Structural Tubing with Improved Atmospheric Corrosion Resistance.

All structural steel shapes and plates shall conform to the requirements of ASTM A 588, High-Strength Low-Alloy Structural Steel.

All handrail shall be steel pipe, ASTM A53 Grade B. Handrail and support brackets shall be painted in accordance with Section 628.06.

All anchor bolts and nuts shall conform to the requirements of ASTM F 1554 Grade 55 or better, Carbon Steel Bolts and Studs, and shall be galvanized in accordance with the requirements of ASTM A 153. Each anchor bolt shall be provided with two nuts for jamming.

All structural steel field connections shall be bolted with high strength bolts. High strength bolts, including suitable nuts and plain hardened washers, shall conform to the requirements of ASTM A 325. Bolts shall be Type 3.

628.03 Decking Material. The bridges shall be supplied with preinstalled stay in place deck forms consisting of corrugated steel. The deck forms shall be hot-dip galvanized in accordance with ASTM A123. Pedestrian bridges for this project shall have a normal weight Concrete Class DF deck with minimum concrete thickness of four (4) inches above the deck form corrugations. Concrete Class D Bridge and reinforcing steel shall be in full conformance with CDOT 2023 Standard Specifications for Road and Bridge Construction Section 601 "Structural Concrete" and Section 602 "Reinforcing Steel". The bridge shall be supplied with preinstalled side dams to form the edges of the concrete deck. Concrete Class DF and reinforcing steel shall be supplied and installed by the Contractor.

DESIGN AND CONSTRUCTION REQUIREMENTS

628.04 Design. The current editions of the AASHTO LRFD Bridge Design Specifications, LRFD Guide Specifications for the Design of Pedestrian Bridges, AASHTO Guide Specifications for Design of FRP Pedestrian Bridges and CDOT Bridge Design Manual Section 31, shall govern the design.

The bridge manufacturer and contractor shall be responsible for providing sufficient gap between the abutment back wall and bridge superstructure to accommodate full range of the bridge thermal movements for the structure. The bridge shall be fabricated with a final camber as specified in the plans

The superstructure of the pedestrian bridge shall consist of two parallel trusses, with at least one diagonal per panel. The Pratt-style trusses shall be arranged in a half-through configuration as shown in the DRAWINGS. The trusses shall be the main load-carrying members of the bridge.

The members of each truss (upper and lower chords, diagonals, end posts, and vertical posts) shall be fabricated from square and rectangular structural steel tubing. Floor beams and stringers shall be fabricated from structural steel shapes or square and rectangular structural steel tubing.

The structure shall conform to the clear span, clear width, and railing requirements shown on the plans.

Fracture critical members and welds shall satisfy provisions identified in the AASHTO Guide Specifications and be clearly identified on the shop drawings.

The pedestrian bridge shall be designed for the following loads and loading conditions:

1. Dead load shall be as defined in Section 3.5 of the AASHTO LRFD Bridge Design Specifications.
2. Live load shall be taken for each member as the controlling case of an H-5 (10,000 lbs) vehicle load (LL) or pedestrian load (PL) as defined in the AASHTO Guide Specifications. Distribution to the stringer and floor beams shall be in accordance with Chapter 4 of the AASHTO LRFD Bridge Design Specifications. Deflection and vibration limits as per the AASHTO Guide Specifications shall apply.

3. Pedestrian live load shall be as defined by the AASHTO Guide Specifications, and used for Strength 1 Load Combination of the AASHTO LRFD Bridge Design Specifications, Chapter 3.
4. Vehicle live load shall be as defined by the AASHTO Guide Specifications for a 10,000 pound (H-5) vehicle load, and used for Strength 1 Load Combination of the AASHTO LRFD Bridge Design Specifications, Chapter 3.
5. The base wind speed (3 second gust) used in design shall be 115 mph. Wind load shall be applied to the superstructure as defined by the AASHTO Guide Specifications, used in the Strength III Load Combination of the AASHTO LRFD Bridge Design Specifications, Chapter 3.
6. Distribution of wheel loads on concrete deck flooring shall be in accordance with Section 4 of the AASHTO LRFD Bridge Design Specifications.
7. Stream Loading shall be evaluated for two cases:
 - Strength I: Stream loading is based on a 10-year stream flow, with a WSE of 5557.1 feet and a maximum velocity of 5.0 ft/sec. Stream loads shall be applied to the superstructure as defined by the AASHTO Guide Specifications, used in Strength I load combination of the AASHTO LRFD Bridge Design Specifications, Chapter 3.
 - Extreme II: Stream loading is based off a 100-year stream flow, with a WSE of 5559.4 feet and maximum velocity of 5.3 ft/sec. Stream load shall be applied to the superstructure as defined by the AASHTO Guide Specifications, used in the Extreme Event II load combination of the AASHTO LRFD Bridge Design Specifications, Chapter 3.

Capacity of the structural steel members and weld metal shall be determined in accordance with Chapter 6 of the AASHTO LRFD Bridge Design Specifications.

All welded tubular connections shall be designed per Section 2, Part A and Section 9, Part A of the Structural Welding Code-Steel ANSI/AWS/D1.1 (Latest Edition).

The bridge shall include safety rails on the outside face of the truss to the underside of the top chord. The total height of the railing including the top chord shall be a minimum of 42". Horizontal safety rails shall be provided and spaced such that a 4 in. sphere cannot pass through them. The railing shall be designed to withstand all applicable loads, including pedestrian loads per AASHTO LRFD 13.8

The bridge shall include handrails consisting of 1-1/4" dia. Sch 40 steel pipe on both sides of the deck. The height to the top of handrail shall be 36 inches measured from the top of deck. The handrail pipe shall be welded to elbow brackets bolted to the truss verticals. 2" clearance shall be provided between the inside face of the handrail and the safety railing. At the ends of the bridge, handrails shall turn in and terminate at the outermost truss vertical member. The handrail assembly shall be painted in accordance with Section 628.06.

As depicted in the drawings, weathering steel approach railing panels shall be manufactured to match the appearance of the truss. The height of the approach railing panels shall match the height of the truss. The approach railing panels shall include square baseplates and an appropriately designed anchor system to transfer the railing loads to the approach slab concrete. The approach railing panels, baseplates, and anchors shall be designed to resist the loads described in Section 13.8.2 of the AASHTO LRFD Bridge Design Specifications.

The Contractor shall install steel cover plates at the ends of the bridge as detailed in the plans. Steel cover plates shall conform to ASTM A242 Grade 50 and shall be supplied by the bridge manufacturer. The cover plate shall be manufactured with beveled edges and shall be installed such that the top of the plate is flush with the finished grade elevation of the adjacent concrete deck and concrete approach slab.

Steel bearing plates, setting plates and teflon bonded to shim plates shall be designed and fabricated by the pedestrian bridge supplier and shall be in conformance with the requirements of CDOT 2023 Standard Specifications for Road and Bridge Construction Section 512 "Bearing Device".

Half-inch diameter drain holes shall be drilled (flame cut holes will not be allowed) at all low points of all steel tubing members as oriented in the in-place, completed structure. In members that are level, or flat, a total of two drain holes shall be drilled, one at each end. Drain holes and their locations shall be shown on the Shop Drawings.

628.05 Submittals. The Manufacturer shall submit the Design Calculations and Shop Fabrication Details (Shop Drawings) to the Engineer prior to fabrication. The submittals shall be in accordance with Subsection 105.02. The Design Calculations and Shop Drawings shall contain the endorsement seal of the Professional Engineer registered in the State of Colorado responsible for the design. All PDFs with text or numerical data shall be 300 dpi, page aligned, text searchable, and in conformance with ISO PDF/A-1b archival specification. It shall be provided to the engineer.

628.06 Shop Fabrication. Welding and fabrication of weathering steel pedestrian bridges shall conform to the requirements of the Structural Welding Code-Steel ANSI/AWS D1.1 (Latest Edition) as amended by the following:

1. As required in Subsection 4.7, a welding procedure shall be established by qualification per the requirements of Subsection 3.3 for the ASTM A 847 material used on the bridge. The results of the Procedure Qualification shall be recorded on Form M1 in Annex M of AWS D 1.1.
2. The Contractor shall submit a Quality Control Plan. The Plan shall include personnel qualifications, certifications, and a Written Practice per ASNT SNT-TC-1A.
3. The quality of all welds shall be per Section 6, Table 6.1 for non- tubular and Section 9 and 9.16 for tubular. In Table 6.1, Undercut 7(B), the criteria for primary members shall apply to the bottom chord members.

4. All Complete Joint Penetration Groove Welds in butt joints in the bottom chord members shall be 100% Magnetic Particle tested per ASTM E709. Acceptance shall be determined per Section 6.10 and Table 6.1 for non-tubular using alternating Current. Section 9 and Table 9.16 for tubular, UT per 9.27.1. In addition, complete joint penetration groove butt welds welded from one side without backing of bottom chord members shall be examined by ultrasonic testing per Section 6.11.
5. Magnetic Particle Testing shall be performed on 100% of all attachment welds to the bottom chord, using Alternating Current, per Section 6.10 and Table 6.1 for non-tubular, Section 9 and 9.16 for tubular.
6. Welder Qualification Test Records shall follow 4.2.3 Period of Effectiveness.
7. A copy of all Procedure Qualification Records, Welder Qualification Test Records, Quality Control Plan and all visual and nondestructive test reports shall be provided to the engineer.

The structure shall conform to the clear span, clear width, structure depth, railing and any other requirements as shown on the plans.

All weathering steel shall be blast cleaned, Steel Structures Painting Council Surface Preparation No. 6 (SSPC-SP6, Commercial Blast Cleaning), to remove mill scale and foreign material which would prohibit rusting to a uniform color.

628.07 Field Construction. The substructure shall be constructed per the details shown in the plans and the pedestrian bridge shop drawings. Before construction begins on the substructure, the Contractor shall determine the anchor bolt requirements and substructure dimensions needed to properly erect the structure. The Engineer shall be provided with two copies of detail sheets delineating these requirements before work begins.

Erection of the bridge girder and deck unit shall be considered safety critical work. The Contractor shall prepare all necessary submittals and execute the erection work in accordance with the requirements of Standard Specification 107.07.

The Contractor shall comply with CDOT Standard Specification Subsection 509.26 through 509.31 for Field Construction Requirements paying particular attention to Section 509.28 for Connections Using High-Strength Bolts. Fastener assemblies shall be tested using a Calibrated Tension Measuring Device. DTI washers shall be subject to tension verification by use of a separate direct tension measuring device.

A Pre-Erection Conference will be held at least one week before the beginning of erection. At least one week before the Pre-Erection Conference, the Contractor shall submit an Erection Plan (as specified in Section 509) to the Engineer for review. The Erection Plan will be reviewed by the Engineer. Written comments submitted by the Engineer shall be discussed at the Pre-Erection Conference and incorporated into the Final Erection Plan. The Final Erection Plan shall be signed and sealed by the Contractor's Engineer and Marked "Approved for Construction". If false work drawings are required, they shall conform to and be submitted per subsection 601.11.

June 11, 2025

Revision of Section 106
Environmental Product Declarations

Notice

This Standard Special Provision (SSP) revises or modifies CDOT's *Standard Specifications for Road and Bridge Construction*. These are the official instructions for its use on CDOT construction projects and have been reviewed, approved, and issued by the Construction Engineering Services Branch. Use as written without change. Do not use modified versions of this SSP on CDOT construction projects. Do not use this Standard Special Provision (SSP) on CDOT projects in a manner other than specified in the instructions without approval by CDOT's Standards and Specifications Unit. The instructions for use appear below.

Other agencies using the *Standard Specifications for Road and Bridge Construction* to administer construction projects may use this special provision appropriately and at their own risk.

Instructions for use on CDOT construction projects:

Use this Standard Special Provision on all CDOT Engineering projects with an Engineer's Estimate of \$3 million or greater, not including Construction Engineering (CE), Indirect, and Force Account (F/A) item costs. This specification is not intended for use on Local Agency Construction projects or on Emergency projects as defined by §24-33.5-704, C.R.S. and Colorado Fiscal Rule 3-1 § 2.9.

Revision of Section 106 Environmental Product Declarations

Section 106 of the Standard Specifications shall include the following:

106.14 Environmental Product Declarations (EPDs). The Buy Clean Colorado (BCCO) Act (C.R.S. 24-92-118) requires the Colorado Department of Transportation (CDOT) to establish the maximum acceptable Global Warming Potential (GWP) limit for each category of eligible materials that are used in the project. The Contractor shall comply with the following requirements and shall meet the established GWP limits.

(a) Definitions.

1. **Environmental Product Declaration (EPD).** A third-party verified document that summarizes the life cycle assessment (LCA) of a single material and publicly discloses its environmental impacts. EPDs enable comparisons between materials serving the same function but should not be used to compare dissimilar materials (for example, concrete and asphalt). An EPD shall consist of quantified environmental data using predetermined parameters and, where relevant, additional environmental information as defined by the International Organization for Standardization (ISO) (ISO, 2010). The environmental information of an EPD is subdivided into four life cycle stages being the production, construction, use and end-of-life stages. The life cycle stages are divided into modules. An EPD may cover different combinations of modules, in other words, cover different life cycle stages or parts thereof. EPDs covering modules (A1-A3) are referred to as cradle-to-gate EPDs and the associated emissions are often referred to as embodied carbon. Cradle-to-gate EPDs cover the mandatory production stage that includes the following information modules: extraction and upstream production (raw material supply) [A1], transport to factory [A2], and manufacturing [A3] (ISO, 2017). This specification refers to cradle-to-gate EPDs when EPDs are mentioned.

Types of EPDs (Carbon Leadership Forum, 2021)

- (1) **Facility-specific.** An EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.
 - (2) **Product-specific.** An EPD that represents the impacts for a specific product and manufacturer, potentially across multiple facilities.
 - (3) **Supply-chain-specific.** An EPD that is product-specific and that uses supply chain-specific data in the LCA to model the impacts of key processes upstream in a product's supply chain. For example, cement in concrete or mill-specific production data for steel.
2. **Global Warming Potential (GWP).** A measure of how much energy the emission of 1 ton of a gas will absorb over a given period of time, relative to the emission

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of 1 ton of carbon dioxide (CO₂) (EPA).

3. Greenhouse Gas (GHG). Includes carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃) (C.R.S. 25-7-140).
4. International Organization for Standardization (ISO). An independent, non-governmental, international standard development organization composed of representatives from the national standards organizations of member countries (ISO Membership Manual).
5. Product Category Rule (PCR). A set of specific rules, requirements and guidelines for developing Type III environmental declarations for one or more product categories (ISO 14025).
6. Product Category. A group of products that can fulfill equivalent functions (ISO 14025).
7. Program Operator (PO). A body or bodies that conduct an EPD program. A program operator can be a company or a group of companies, an industrial sector or trade association, public authorities or agencies, or an independent scientific body or other organization (ISO 14025).

(b) *Eligible Material Categories*. Individual bid items requiring EPDs are detailed in Table 106-4. Eligible material categories include the following:

1. Asphalt and Asphalt Mixtures;
2. Cement and Concrete Mixtures;
3. Steel; and
4. Precast Concrete.

(c) *EPD Development Requirements*. The Contractor shall provide Environmental Product Declarations (EPDs) for eligible materials per Table 106-4 to be utilized on the project. EPDs shall meet the requirements listed below and as defined by the relevant ISO standards and material-specific Product Category Rules (PCRs) published by the Program Operators (POs) linked below.

1. Asphalt Mixtures:
 - (1) National Asphalt Pavement Association (NAPA) - PO & PCR Owner
www.asphaltpavement.org/programs/napa-programs/emerald-eco-label

Additional CDOT-specific requirements for developing an asphalt mixture EPD:

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- (2) For the “Mix Name” field, use the same “Supplier Mix ID” that corresponds to the submittal of the mix design for CDOT approval.
- (3) For the “Specification Entity” field, enter “CDOT”.
- (4) For the “Specification” field, enter mix grading/and or type of asphalt mixture (for example, S, SX, ST, SMA, WMA), followed by the number of gyrations (for example, 75, 100), followed by the binder type of the asphalt mixture (for example, 58-28, 64-22, 76-28). The field should include the following, as an example: SX(100) PG 64-22.
- (5) If known, for the “Customer Number [project/contract]” field, enter the project’s contract ID.
- (6) Indicate if the plant is stationary or portable.
- (7) Asphalt EPDs shall be product- and facility-specific.

2. Cement:

- (1) NSF - PO & PCR Owner

<https://www.nsf.org/nsf-standards/product-category-rules>

Additional CDOT-specific requirements for developing a cement EPD:

- (2) Cement EPDs shall be product- and facility-specific.

3. Concrete Mixtures:

- (1) National Ready Mixed Concrete Association (NRMCA) - PO

<https://www.nrmca.org/association-resources/sustainability/environmental-product-declarations/>

- (2) NSF International - PCR Owner

<https://www.nsf.org/nsf-standards/product-category-rules>.

Additional CDOT-specific Requirements for developing a concrete mixture EPD:

- (3) EPDs shall explicitly list disaggregated results for the A1, A2, and A3 modules.
- (4) For the “Product” field, use the same “Supplier Mix ID” that corresponds to the submittal of the mix design for CDOT approval.
- (5) For the “Description” field, enter “CDOT” followed by the concrete class (for example, Class P, B, D, BZ, etc.). Any additional product details, such as compressive strength (PSI), air entrainment (A/E), or the inclusion of fly ash, etc., can be included if applicable. If applicable to the mix design, include “high early” or “optimized” in the description.
- (6) Include the address of the plant if not listed elsewhere in the EPD.
- (7) Indicate if the plant is stationary or portable.
- (8) Supply-chain specific EPDs including cement manufacturer-specific data shall be utilized in the concrete mixture EPD.
- (9) Concrete EPDs shall be product- and facility-specific.

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Additional CDOT-specific requirements for concrete mixture EPD submission to CDOT for Approved Products List (APL) mix design approval:

- (10) Provide the specific plant name and location for the concrete supplier. If this information is not available at the time of submission, report the plant that is most likely to be used.
- (11) Indicate the type of plant (stationary or portable) that will be used to manufacture the submitted mix design.

4. Steel:

- (1) UL Resources - PO & PCR Owner <https://www.ul.com/resources/product-category-rules-pcrs>
- (2) Steel EPDs shall be product- and facility-specific.

5. Precast Concrete:

- (1) NSF / ASTM - PO and PCR Owner
www.nsf.org/nsf-standards/product-category-rules
<https://www.astm.org/standards-and-solutions/certification/environmental-product-declarations/epd-pcr>
- (2) Precast EPDs shall be facility-specific.

(d) *EPD Submittal Requirements.* The Contractor is responsible for verifying that all required EPDs for eligible materials used on the project have been submitted in accordance with this subsection and 106.14(f) of this specification.

All EPDs submitted shall be published and unredacted. EPD submittal requirements are outlined for each of the eligible material categories below.

1. Asphalt Mixtures:

- (1) EPDs shall be submitted via the EPD Submission Form at least 14 calendar days weeks prior to material placement.

2. Cement:

- (1) EPDs shall be submitted via the EPD Submission Form at least 14 calendar days prior to material placement.

3. Concrete Mixtures:

- (1) For project mix design submission, EPDs shall be submitted via the EPD Submission Form at least 14 calendar days prior to material placement.
- (2) For pre-approval, mix design submission shall be accompanied by an EPD per CP 62 of the Field Materials Manual (FMM).

4. Steel:

- (1) EPDs shall be submitted via the EPD Submission Form at least 14 calendar

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days prior to material placement.

5. Precast Concrete:

(1) EPDs shall be submitted via the EPD Submission Form at least 14 calendar days prior to material placement.

6. The EPD Submission Form is located at the following links or on the CDOT EPD webpage at www.codot.gov/business/designsupport/materials-and-geotechnical/epd

(1) Jotform EPD Submission Form:

<https://form.jotform.com/251424918039055>

Table 106-4. Eligible Materials / Bid Items Requiring EPD Submittal

Item Number Category	Item Description	Included Item Number/Range #	Interpretation
206	Structure Backfill (Flow-Fill)	206-00065	EPDs for the flow-fill (concrete) design are required.
310	Hydraulic Cement	310-00900	EPDs for cement are required.
403*	Asphalt Mixtures (HMA/SMA/WMA)	403-09210 through 403-37751	If 411 - Asphalt Cement is paid separately, it shall be included in the 403 EPD submittal item.
412*	Portland Cement Concrete Pavement (PCCP)	412-00200 through 412-01500; 412-06060	Separate EPD submittals for concrete, dowel bar, and reinforcing steel items are required. If a prepackaged product is utilized an EPD is not required.

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502	Piling	502-08250 through 502-14117	EPDs for steel piles are required.
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Table 106-4 (Continued). Eligible Materials / Bid Items Requiring EPD Submittal

Item Number Category	Item Description	Included Item Number/Range #	Interpretation
503	Drilled Shafts	503-00012 through 503-00200	Separate EPD submittals for concrete and reinforcing steel items are required.
504	Walls	504-04420 through 504-04430	Separate EPD submittals for concrete and reinforcing steel items are required.
507	Slope & Ditch Paving	507-00000 through 507-00105	Separate EPD submittals for concrete and reinforcing steel items are required.
509	Structural Steel	509-00000 through 509-00010	EPDs for structural carbon steel, high-strength low-alloy structural steel, self-weathering tubing, and structural tubing are required.
601*	Concrete (All Classes)	601-01000 through 601-05900	If a prepackaged product is utilized an EPD is not required.
602	Reinforcing Steel	602-00000 through 602-00025	Separate EPD submittals for each mill supplying steel are required.

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Item Number Category	Item Description	Included Item Number/Range #	Interpretation
603	Reinforced Concrete Pipe/End Sections/Culverts	603-01120 through 603-01980; 603-02155 through 603-05172; 603-07150 through 603-07980; 603-70303 through 603-80800	EPDs for Precast Elements (both dry and wet-cast products) are required.

Table 106-4 (Continued). Eligible Materials / Bid Items Requiring EPD Submittal

Item Number Category	Item Description	Included Item Number/Range #	Interpretation
604	Inlets/Drainage Structures	604-00305 through 604-19515; 604-20000 through 604-39050; 604-50700 through 604-56000	Separate EPD submittals for concrete and reinforcing steel items for cast-in-place elements are required. EPDs for precast elements (finished products) are required.
606	Guardrail & Bridge Rail	606-00910 through 606-00944; 606-10900 through 606-10905	Separate EPD submittals for concrete and reinforcing steel items for cast-in-place elements are required. EPDs for precast elements (finished products) are required.

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Item Number Category	Item Description	Included Item Number/Range #	Interpretation
608	Concrete Sidewalk & Bikeway	608-00000 through 608-00012; 608-00020 through 608-00040; 608-00350 through 608-00500	EPDs for concrete mixtures are required.
608	Bituminous Sidewalk & Bikeway	608-01000 through 608-01500	EPDs for asphalt mixtures are required.
609	Curb & Gutter	609-20000 through 609-71000	EPDs for concrete mixtures are required.
610	Median Cover Material	610-00010 through 610-00040	EPDs for concrete or asphalt mixtures are required.
618	Prestressed Concrete Structures	618-00142 through 618-06036; 618-10000 through 618-11000	EPDs for finished products are required.
624	Drainage Pipe	624-20006 through 624-62042	EPDs for Precast Elements (both dry and wet-cast) are required.

Install-only items within the listed bid item ranges do not require EPDs.

* Separate EPD required for each mix design, supplier, and plant location.

The EPD Lookup Tool is available on the CDOT EPD webpage should the Contractor elect to use it. This tool may be used to determine the bid items requiring EPDs. The results of this tool do not nullify, void, or alter the EPD requirements per this specification.

(e) Bid Item Minimum Quantity Limits. EPD Submittals are required for bid items

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meeting or exceeding the limits established in Table 106-5. Quantities shall only be those listed in the bid tabs at the time of project award. A white paper detailing the analyses used to develop these limits is published on the CDOT EPD webpage.

The Project Engineer or their designee should calculate the estimated quantity of eligible material in each bid item to determine if minimum quantity limits are exceeded.

For bid items not listed in Table 106-5, but that encompass eligible materials in their construction, the quantity of eligible materials (in other words concrete, steel, HMA, etc.) is to be used when determining if an EPD is required. For example, when constructing a drilled caisson, the quantity of structural concrete and reinforcing steel used in the caisson will need to be determined to see if the 601 (structural concrete) or 602 (reinforcing steel) quantity limits are exceeded. If the total eligible material quantity exceeds the quantity shown below, EPDs are required for each material. Bid item quantities shall be aggregated by Item Number Category per project when evaluating quantity limit requirements.

Table 106-5. Bid Item Minimum Quantity Limits

Item Number Category	Item Description	Minimum Quantity	Unit
206	Structure Backfill (Flow-fill)	50	CY
403	Asphalt Mixtures (HMA/SMA/WMA)	500	Ton
412	Portland Cement Concrete Pavement (PCCP)	1,000	SY
601	Structural Concrete (Each Class)	50	CY
602	Reinforcing Steel	15,000	LB
608	Concrete Sidewalk & Bikeway	250	SY
608	Bituminous Sidewalk & Bikeway	500	Ton
609	Curb & Gutter	1,000	LF

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610	Median Cover Material	4,000	SF
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(f) *Global Warming Potential (GWP) Limits.* CDOT's benchmarking analysis utilized the current available EPD information to determine its GWP limits as listed in Table 106-6 GWP Limit Values. While the BCCO Act requires that CDOT shall not adjust policy for any eligible material to be less stringent, CDOT may establish subcategories with distinct GWP limits as warranted by technological advancements or changes to background data that leads to statistically significant differences.

If a GWP limit has not been established for a specific eligible material (class, gradation, etc.) used on the project, EPDs are still required to be submitted for all eligible materials as outlined in Table 106-4 Eligible Materials / Bid Items Requiring EPD Submittal. GWP limits for additional classes and materials will be determined as more data is available.

Table 106-6. GWP Limit Values

Material	Category	GWP Limit
Concrete Mixtures (kg CO ₂ -eq/m ³) \$, %	Class P	346.2
Concrete Mixtures (kg CO ₂ -eq/m ³) \$, %	Class D	365.1
Concrete Mixtures (kg CO ₂ -eq/m ³) \$, %	Class B	360
Asphalt Mixtures (kg CO ₂ -eq/metric ton) \$, +	S (neat binder)	77
Asphalt Mixtures (kg CO ₂ -eq/metric ton) \$, +	SX (neat binder)	83.4
Asphalt Mixtures (kg CO ₂ -eq/metric ton) \$, +	SX (modified binder)	89
Asphalt Mixtures (kg CO ₂ -eq/metric ton) \$, +	ST (neat binder)	90.4
Steel (kg CO ₂ -eq/metric ton) ^	Reinforcing steel or rebar	915.9

\$ Portable plants are currently exempt from GWP requirements until more data and data consistency is obtained. EPDs are still required as applicable per the project specifications.

% Limits shall apply to all listed concrete classes incorporated into the bid items in Table 106-4.

+ Neat binder includes the following PG grades: PG 58-28 and PG 64-22. Modified binder includes the following PG grades: PG 58-34, PG 64-28, PG 70-28, and PG 76-28.

^ Limits shall apply to all reinforcing steel or rebar incorporated into the bid items in Table 106-4. This is inclusive of coated and non-coated bar.

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(g) Exceptions.

If the Contractor cannot provide an eligible material with an EPD meeting the requirements of this specification, an alternate material meeting the requirements shall be proposed. If an alternate material meeting the requirements of this specification is not available, the Contractor shall notify the Project Engineer and provide a written explanation for the project files prior to material placement. The Contractor shall also send this explanation to CDOT_EPD@state.co.us.

This explanation shall include material suppliers and associated plant locations contacted for an alternate material, the material category/categories and associated bid item(s), and the response(s) from the materials supplier(s) contacted describing why an EPD is not available for an eligible material, or why an alternate material meeting the GWP limits on the EPD is not available on a reasonable basis or for a reasonable cost.

(h) Project Schedule.

The EPD activities below shall be included in the submitted project schedule and in the weekly meeting updates in accordance with CDOT Specification 108.03. At a minimum, the project schedule shall specifically detail the following activities:

- (1) Developing EPDs, as applicable;
- (2) Obtaining EPDs, as applicable; and
- (3) Submitting EPDs prior to material placement.

(i) Cost. All costs associated with the development of and submittal of an EPD and any other work associated will not be paid for separately but shall be included in the work.