



# Carbonade, Colorado

## MEADOW WOOD DRIVE RECLAMATION PROJECT

Project Special Conditions and Specification

**March 4, 2019**

**PROJECT SPECIAL PROVISIONS**

**CONTENTS**

REVISION OF Section 101 DEFINITIONS AND TERMS .....5  
REVISION OF Section 102 BIDDING REQUIREMENTS AND CONDITIONS .....6  
REVISION OF Section 103 AWARD, AND EXECUTION OF CONTRACT .....7  
REVISION OF SECTION 105 CONTROL OF WORK .....8  
REVISION OF SECTION 105 WORKING TIME LIMITATION EXCEPTIONS .....9  
REVISION OF SECTION 106 BUY AMERICA REQUIREMENTS .....10  
REVISION OF SECTION 108 SUBLETTING OF CONTRACT .....11  
REVISION OF SECTION 109 MEASUREMENT OF WATER .....12  
REVISION OF SECTION 401 PLANT MIX PAVEMENTS .....13  
REVISION OF SECTION 625 CONSTRUCTION SURVEYING .....14  
REVISION OF SECTION 629 SURVEY MONUMENTATION .....15  
REVISION OF SECTION 630 CONSTRUCTION ZONE TRAFFIC CONTROL .....16  
UTILITIES.....17  
FULL DEPTH RECLAMATION.....20  
TOWN OF CARBONDALE MEADOW WOOD DRIVE RECLAMATION  
PROJECT BID FORM .....29

**COLORADO  
DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISIONS**

**STANDARD SPECIAL PROVISIONS**

<b>Name</b>	<b>Date</b>	<b>No. of Pages</b>
Revision of Section 208 – Erosion Control	(July 3, 2017)	1
Revision of Section 401 – Composition of Mixtures – Voids Acceptance	(July 3, 2017)	1
Revision of Section 401 – Reclaimed Asphalt Pavement	(July 3, 2017)	3
Revision of Section 401 – Tolerances for Hot Mix Asphalt (Voids Acceptance)	(July 3, 2017)	1
Revision of Section 703 - Aggregate for Bases (RAP Allowed)	(July 3, 2017)	1
Revision of Section 703 - Classification for Aggregate Base Course	(October 12, 2017)	1

**SUPPLEMENTAL CONDITIONS**

**1**

- 1. STANDARD SPECIFICATIONS AND DETAILS** - All work shall be done in accordance with the most recent edition of the Colorado Department of Transportation "Standard Specifications for Road and Bridge Construction", dated 2017.

The contractor is responsible for thoroughly acquainting all of the personnel he intends to use on this project with all applicable specifications prior to the commencement of any construction. The contractor is fully responsible for the cost, installation and quantity of materials shown on the plans.

- 2. PROJECT DESCRIPTION** – The project consists of reclamation of the existing bituminous pavement and a portion of the existing road base, establishment of a new 2% crown on the base and installation of a new 3-inch thick asphalt surface on Meadow Wood Drive in Carbondale, Colorado. Meadow Wood Drive is approximately 1,700 feet long and varies from 24 feet to 39 feet in width.

Work on the project must be completed between June 17, 2019, and October 15, 2019.

- 3. PROJECT ENGINEER** - The Project Engineer for the project is Kevin Schorzman, PE, who can be reached at (970) 510-1217. All project notices, letters, submittals, and other communications directed to the Engineer shall be addressed and mailed or delivered to:

Kevin Schorzman, Public Works Director  
Town of Carbondale  
511 Colorado Avenue  
Carbondale, CO 81623  
[kschorzman@carbondaeco.net](mailto:kschorzman@carbondaeco.net)

- 4. JOBSITE SAFETY** - The Contractor shall conduct his operations in a safe manner and is responsible for all jobsite safety measures. All OSHA regulations and all other pertinent regulations pertaining to the safe operation of construction equipment, workers, methods, and the site shall be strictly adhered to by the Contractor.
- 5. PERMITS** – It is the responsibility of the contractor to abide by all applicable State and Local permits and codes. The contractor shall thoroughly acquaint himself with the details of each before beginning work. The selected Contractor will need to complete (furnish insurance certificates and bonds as required), obtain, sign and pay for all of the permits associated with the project.
- 6. UTILITY STRUCTURE ACCESS** - The Contractor is responsible for locating all water valves, manholes, monument boxes, traffic pull boxes, etc., prior to construction. No sanitary sewer manholes, water valves or fire hydrants may be left inaccessible at any time during the construction.

All liabilities for damage arising from any public or private utility substructures left inaccessible, or rendered inoperable during construction, will be the Contractor's responsibility.

**SUPPLEMENTAL CONDITIONS**

**2**

**7. CONSTRUCTION AREA REQUIREMENTS**

The Contractor shall be required to stay within the construction limits, Rights of Way and Permanent and Temporary Easements as defined in the Plans. It should be noted that the Contractor shall meet all requirements from the Town of Carbondale and the Colorado Department of Public Health and Environment (CDPHE) while working on the project. The Contractor is also encouraged to minimize the temporary impacts during construction to the highest degree possible.

The Contractor will be allowed to stage/park equipment in the grass area on the south side of Meadow Wood, just east of the fire department parking lot (as shown on the plans) during construction. If utilized for staging/parking, the contractor is required to restore the area to an equal condition to before it was utilized once the project is complete. This may require blading and reseeded.

## REVISION OF SECTION 101 DEFINITIONS AND TERMS

Section 101 of the Standard Specifications is hereby revised for this project as follows:

Technical Specifications related to construction materials and methods for the work embraced under this contract shall consist of the Colorado Department of Transportation, Standard Specifications for Road and Bridge Construction, dated 2017.

Certain terms utilized in the Specifications referred to in the paragraph above shall be interpreted to have different meanings within the scope of the Contract. A summary of redefinitions follows:

Subsection 101.10      **CDOT Resident Engineer** shall be replaced with Town of Carbondale Public Works Director.

Subsection 101.28      **Department** shall mean Town of Carbondale

Subsection 101.29      **Engineer** shall be defined as Town of Carbondale Public Works Director, acting directly or through an authorized representative, who is responsible for engineering of the project.

Subsection 101.51      **Project Engineer** shall be defined as the Town of Carbondale Public Works Director or duly authorized representative who may be a Town of Carbondale employee or an employee of a consulting engineer (consultant) under contract to Town of Carbondale as defined below:

- (a)      *Consultant Project Engineer.* The consultant employee under the responsible charge of the consultant's Professional Engineer who is in direct charge of the work and is responsible for the administration and satisfactory completion of the project. The Consultant Project Engineer's duties are delegated by the Project Manager in accordance with the scope of work in the consultant's contract with the City. The Consultant Project Engineer is not authorized to sign or approve Contract Modification Orders.

Subsection 101.76 **State** shall mean Town of Carbondale, Colorado (where applicable).

**REVISION OF SECTION 102  
BIDDING REQUIREMENTS AND CONDITIONS**

Section 102 of the Standard Specifications is hereby revised for this project as follows:

Eliminate paragraph 102.01 in its entirety.

Eliminate paragraph 102.02 in its entirety and replace with:

The Town will publish bidding opportunities on the Town of Carbondale website. Plans, specifications and other contract-related documents (“Bid Package”) will be provided in .pdf form and the bidders will be responsible for printing, if desired.

All bidders on projects shall submit bids in accordance with the directions in the advertisement for bids.

The Bid Package will be considered a part of the proposal

Eliminate the first sentence of paragraph 102.04 and replace it with:

Any change to proposal forms, plans, or specification prior to the opening of proposals will be issued by the Town and posted on the Town’s website. No changes will be made within 3 days of the scheduled opening of proposals. The bidder is responsible for checking the Town’s website for changes prior to submittal of bids.

Eliminate paragraph 102.06 in its entirety and replace with:

The bidder shall submit the proposal (bid) upon the forms furnished by the Town in the Bid Package.

**REVISION OF SECTION 103  
AWARD, AND EXECUTION OF CONTRACT**

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

Eliminate paragraph 103.01 in its entirety and replace with:

After proposals (bids) are opened and read, they will be evaluated and may be awarded. The Town reserves the right to reject any and all bids for whatever reason.



**REVISION OF SECTION 105  
CONTROL OF WORK**

Modify Subsection 105.02.b.1 as follows:

1. All manually drafted shop drawings and working drawings shall be 36 inches long by 24 inches wide overall. There shall be adequate space on the drawing for the Engineer's review stamp. Computer drafted 11 inch by 17 inch drawings may be submitted.

Modify Subsection 105.10 Cooperation by Contractor as follows:

**105.10 Cooperation by Contractor.** The Contractor will be supplied with an electronic set of contract documents.

Modify Subsection 105.13 Construction Stakes, Lines and Grades as follows:

**105.13 Construction Stakes, Lines and Grades.** Construction work shall not be performed until adequate lines and grades have been established by the Contractor.

**REVISION OF SECTION 105  
WORKING TIME LIMITATION EXCEPTIONS**

Section 105 of the Standard Specifications is hereby revised for this project as follows:

Subsection 105.03 shall include the following:

Working hours on this project shall be 7:00 AM to 7:00 PM Monday through Friday, and 8:00 AM to 5:00 PM on Saturday. No work is allowed on Sunday. The Contractor shall provide the Town of Carbondale a minimum of two (2) days' notice to request to perform work outside of the stated working hours. The contractor is to maintain traffic at all times during the project and shall maintain access to all driveways and entrances during the project.

Work on this project must be completed between June 17, 2019, and October 15, 2019.

No work will be allowed on the project September 21<sup>st</sup> and September 22<sup>nd</sup> due to a scheduled tournament being held at North Face Park.

**REVISION OF SECTION 106  
BUY AMERICA REQUIREMENTS**

Section 106 of the Standard Specifications is hereby revised for this project as follows:

Remove Section 106.11:

~~**106.11 Buy America Requirements.** All manufacturing processes, including the application of a coating, for all steel and iron products permanently incorporated in the work shall have occurred in the United States of America. All manufacturing processes are defined as “processes required to change the raw ore or scrap metal into the finished, in place steel or iron product”. This requirement will not prevent a minimal use of foreign steel or iron provided the total project delivered cost of all such steel and iron which includes the cost of delivering the steel and iron to the project, does not exceed one tenth of one percent of the total contract cost or \$2,500, whichever is greater. If there is any foreign steel or iron permanently incorporated into the project the Contractor shall provide documentation of the project delivered cost of that foreign steel or iron.~~

~~The Contractor shall maintain on file certifications that every process, including the application of a coating, performed on steel or iron products either has or has not been carried out in the United States of America. This certification applies to every iron or steel product that requires pre inspection, pretesting, certified test results, or a certificate of compliance. The Contractor shall obtain such a certification from each supplier, distributor, fabricator, and manufacturer that has handled each steel or iron product. These certifications shall create a chain of custody trail that includes every supplier, distributor, fabricator, and manufacturer that handles the steel or iron product. The lack of these certifications will be justification for rejection of the steel or iron product.~~

Replace Section 106.11 with the following:

**106.11 Buy America Requirements.** There are no Buy American requirements for this project.

**REVISION OF SECTION 108  
SUBLETTING OF CONTRACT**

Section 108 of the Standard Specifications is hereby revised for this project as follows:

Delete subsection 108.01 and replace with the following:

**108.01 Subletting of Contract.** The Contractor shall not sublet, sell, transfer, assign, or dispose of the Contract or Contracts.

**REVISION OF SECTION 109  
MEASUREMENT OF WATER**

Section 109 of the Standard Specifications is hereby revised for this project as follows:

In subsection 109.01, delete the following:

~~Water used in the work will be measured by the M Gallon or 1000 U.S. Gallons. The weight of inherent moisture in the material will not be deducted. Water added for the Contractor's convenience will not be paid for.~~

~~Water may be measured either by volume or weight. Water meters shall be accurate within a range of 63 percent. When water is metered, the Contractor shall use an approved metering device and shall furnish the Engineer a certificate showing that the meter has been accurately calibrated within the time allowed in the following schedule:~~

<del>2 inch</del>	<del>4 years</del>
<del>4 inch to 6 inch</del>	<del>2 years</del>
<del>8 inch to 10 inch</del>	<del>1 year</del>

~~Water meters shall be calibrated when the Engineer determines there is reason to believe the meters are not accurate within the allowable tolerance. If water meter accuracy is found acceptable, the cost involved in checking the water meter shall be at the Department's expense. If the water meter accuracy is found unsatisfactory, the cost involved in checking the water meter shall be at the Contractor's expense.~~

Replace with the following:

All water utilized for backfill moisture conditioning as well as dust control shall be included in the cost of the work and will not be paid for separately.

**REVISION OF SECTION 401 PLANT MIX PAVEMENTS**

All provisions of Section 401 and other applicable Sections related to mix design, production, placement and acceptance apply with the following exceptions:

1. No lime will be required in the mix.
2. Liquid anti-strip agent may be used.
3. No CTS or other test sections will be required.

**REVISION OF SECTION 625  
CONSTRUCTION SURVEYING**

Delete Section 625.03, Paragraph 2:

~~A Presurvey Conference—Construction Survey shall be held in accordance with the CDOT Survey Manual Chapter 6, Section 6.1.6, prior to performing any surveying work under this section. The Engineer, Region Survey Coordinator and Plans Coordinator (or designee), Contractor's Superintendent, Contractor's Surveyor (PLS) and Party Chief shall attend. A Presurvey Conference—Construction Survey Form shall be included in accordance with the CDOT Survey Manual Chapter 6, Appendix 6.A.4. A surveying work schedule shall be submitted to the Engineer for review prior to the presurvey conference~~

**REVISION OF SECTION 629  
SURVEY MONUMENTATION**

Delete Section 629.03, Paragraph 2:

~~A Presurvey Conference—Construction Survey shall be held in accordance with the CDOT Survey Manual Chapter 6, Section 6.1.6, prior to performing any surveying work under this section. The Engineer, Region Survey Coordinator and Plans Coordinator (or designee), Contractor's Superintendent, Contractor's Surveyor (PLS) and Party Chief shall attend. A Presurvey Conference—Construction Survey Form shall be included in accordance with the CDOT Survey Manual Chapter 6, Appendix 6.A.4. A surveying work schedule shall be submitted to the Engineer for review prior to the presurvey conference~~



**REVISION OF SECTION 630  
CONSTRUCTION ZONE TRAFFIC CONTROL**

Section 630 of the Standard Specifications is hereby revised for this project as follows. Subsections not included in this revision are to be in accordance with the Standard Specifications.

**DESCRIPTION**

Subsection 630.01 shall include the following:

This work also consists of developing and implementing a traffic control/management plan (TCP). The TCP shall be approved by an American Traffic Safety Services Association (ATSSA) certified Traffic Control Supervisor (TCS) and submitted to the Town of Carbondale for review and approval.

The TCP shall include the following items:

- (2) Flaggers and/or other traffic control measures along the length of the project and at all access points to the construction zone that can be affected by the work
- (3) Locations and types of warning signs along the roads
- (4) Location of vehicle traffic control to avoid tracking debris outside of the work area
- (5) Sweeping plan for Snowmass Drive and White Hill Road.
- (6) Preconstruction photos documenting the condition of the roads, including any pavement cracks, potholes, or

## UTILITIES

Known utilities within the limits of this project are:

### **Town of Carbondale**

Mark O'Meara  
0171 Highway 133  
Carbondale, Co 81623  
(970) 510-1351

### **Xcel Energy (Electric)**

Samantha Wakefield  
1995 Howard Avenue  
Rifle, CO 81650  
(970) 625-6028

### **Comcast (Cable)**

Michael Johnson  
201 Aspen Airport Business Center  
Aspen, CO 81611  
(888)824-4010

### **Black Hills Energy (Gas)**

Tom Warnes, Construction Coordinator  
96 County Road 160  
Glenwood Springs, CO 81601  
(970) 406-1467

### **CenturyLink (Telephone)**

Jason Sharpe  
(844) 223-7997

The work described in these plans and specifications requires full cooperation between the Contractor and the utility owners in accordance with subsection 105.11 in conducting their respective operations so the utility work can be completed with minimum delay to all parties concerned.

The Contractor shall be required to meet with each utility owner impacted by the work in advance of any construction operations to coordinate required utility work with the construction activity. Coordination with utility owners includes, but is not limited to, providing and periodically updating an accurate construction schedule that includes all utility work elements. Surveying and/or staking of utility relocations shall be the responsibility of the utility owner.

The Contractor shall provide traffic control for any utility work expected to be coordinated with construction operations as directed by the Engineer. However, traffic control for utility work outside of typical project work hours or outside of project limits shall be the responsibility of the utility owner. The Contractor shall be compensated for traffic control as per the bid items for traffic control as established on this project unless the traffic control for the project is lump sum. In those cases, the Contractor shall provide a cost to the utility owner for review and approval before the start of any work.

FOR EACH UTILITY OWNER SHOWN BELOW, THE WORK LISTED UNDER “CONTRACTOR RESPONSIBILITIES” SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER. EACH UTILITY OWNER, OR THEIR AGENTS, WILL PERFORM THE WORK LISTED UNDER “UTILITY COMPANY RESPONSIBILITIES”.

The Contractor shall keep each utility owner advised of any work being done to its facility so that each utility owner can coordinate its inspections for final acceptance of the work with the Engineer.

### **GENERAL**

The Contractor shall comply with Article 1.5 of Title 9; CRS (“Excavation Requirements”) when excavating or grading is planned in the area of underground utility facilities. The Contractor shall notify all affected utilities at least two (2) business days, not including the actual day of notice, prior to commencing such operations. Contact the Utility Notification Center of Colorado (UNCC), use phone no. 1-800-922-1987, to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective company. Utility service laterals shall also be located prior to beginning excavation or grading.

The locations of utility facilities as shown on the plan and profile sheets, and herein described, were obtained from the best available information and field surveying during the design process. Utility locates or potholing was not performed during the design process. The Contractor shall verify the location of all utilities before the start of construction.

All costs incidental to the foregoing requirements will not be paid for separately but shall be included in the work.

### **CENTURYLINK**

#### **Contractor Responsibilities -**

Contractor is responsible for protecting the existing copper, fiber optic (if applicable), and telephone facilities from damage due to the Contractor's operations. The Contractor shall coordinate as necessary with CenturyLink during the course of the project should conflicts arise that that were not previously identified. Contractor shall bed, backfill, compact, etc. all exposed utilities/conduit as a result of the proposed construction work per the utility company's standards.

#### **Utility Company Responsibilities -**

Utility company shall provide the contractor will all utility boxes, pedestals and other connection materials. Utility company shall pull all cable or wire and make all connections related to their service.

### **BLACK HILLS ENERGY**

#### **Contractor Responsibilities -**

Contractor is responsible for protecting the existing gas facilities from damage due to the Contractor's operations. The Contractor shall coordinate as necessary with Black Hills Energy during the course of the

project should conflicts arise that that were not previously identified. Contractor shall bed, backfill, compact, etc. all exposed utilities/conduit as a result of the proposed construction work per the utility company's standards.

Utility Company Responsibilities -

Utility company will install all gas pipe and make all service connections within the project area.

**Xcel Energy**

Contractor Responsibilities -

Contractor is responsible for protecting the existing electric facilities from damage due to the Contractor's operations. The Contractor shall coordinate as necessary with Holy Cross Electric during the course of the project should conflicts arise that that were not previously identified. Contractor shall bed, backfill, compact, etc. all exposed utilities/conduit as a result of the proposed construction work per the utility company's standards.

Utility Company Responsibilities -

Utility company shall provide the contractor will all utility boxes, pedestals and other connection materials. Utility company shall pull all cable or wire and make all connections related to their service.

**COMCAST**

Contractor Responsibilities -

Contractor is responsible for protecting the existing cable facilities from damage due to the Contractor's operations. The Contractor shall coordinate as necessary with Comcast during the course of the project should conflicts arise that that were not previously identified. Contractor shall bed, backfill, compact, etc. all exposed utilities/conduit as a result of the proposed construction work per the utility company's standards.

Utility Company Responsibilities -

Utility company shall provide the contractor will all utility boxes, pedestals and other connection materials. Utility company shall pull all cable or wire and make all connections related to their service.

**TOWN OF CARBONDALE**

Contractor Responsibilities -

Contractor is responsible for protecting the existing water to remain in service from damage due to the Contractor's operations. The Contractor shall coordinate as necessary with the Town during the course of the project should conflicts arise that that were not previously identified. Contractor shall install all water infrastructure as shown on the plans. Contractor is responsible for adjustment of valve boxes, manholes, etc. The Contractor shall coordinate all water line work with the Town.

Utility Company Responsibilities -

The Town of Carbondale will provide oversight of water main, services, and taps.

## **FULL DEPTH RECLAMATION**

### **DESCRIPTION**

Reclamation of the existing bituminous surfacing and a portion of the existing base material by pulverizing and mixing using a rotary mill or similar equipment capable of cutting up to an 6-inch depth in one pass, shaping the mixture using a motor grader or similar equipment to achieve the desired cross slope on the roadway, and compacting using standard compacting equipment.

### **MATERIALS**

Use reclaimed pulverized homogenous mixture of bituminous surfacing and existing base material.

Water as necessary for compaction.

### **CONSTRUCTION REQUIREMENTS**

Means and methods should generally conform to Section 304 of the Standard Specifications.

Reclamation of the top 6 inches of the roadway (including asphalt surfacing and a portion of the existing base) to be achieved using a rotary mill or similar equipment capable of cutting up to an 6-inch depth in one pass. Reclamation efforts shall be continued until the RAP and existing base material form a homogenous mixture and until 95% or more passes the 2 inch sieve. Remove all material larger than 3 inches in any dimension.

Spread and shape the mixture to conform with the roadway cross-slope and depth shown on the plans, incorporating water if necessary to achieve proper compaction.

Compact the material to 95 percent of maximum dry density. Adequate compaction will be demonstrated as the absence of rutting, pumping or deflection as construction equipment is routed over it following compactive efforts. The Engineer may request a proof roll at any time to document the condition. When requested, proof rolling will be accomplished by a fully loaded tandem axle dump truck or other equipment as approved by the Engineer.

After the placement and compaction, finish blade the surface such that the bituminous pavement can be placed and compacted to form a uniform layer 3 inches deep and such that the top of the compacted bituminous pavement has the cross slope shown on the plans and is no more than ¼ inch above the existing gutter. In no case shall the finished surface be below the edge of the existing gutter.

### **MEASUREMENT AND PAYMENT**

The Engineer will measure Full Depth Reclamation (6") by the square yard based on the width of the existing roadway.

Payment for Full Depth Reclamation (6") will include all labor, equipment, material and water necessary to reclaim, mix, shape and compact the material located in the top 6 inches of the existing roadway.

Finish grading prior to paving is considered incidental to the reclamation.

All other work and costs of this section shall be incidental to the project and not compensated directly.

July 3, 2017

21  
REVISION OF SECTION 208  
EROSION CONTROL

Section 208 of the Standard Specifications is hereby revised for this project as follows:

In subsection 208.03(c) delete the first paragraph and replace it with the following

*Erosion Control Management (ECM)*. Erosion Control Management for this project shall consist of Erosion Control Inspection and the SWMP Administration. All ECM staff shall have working knowledge and experience in construction, and shall have successfully completed the Transportation Erosion Control Supervisory Certificate Training (TECS) as provided by the Department. The Superintendent will not be permitted to serve in an ECM role. The Erosion Control Inspector (ECI) and the SWMP Administrator may be the same person in projects involving less than 40 acres of disturbed area.

In subsection 208.03(c)1 delete the first paragraph and replace it with the following:

SWMP Administration. The SWMP shall be maintained by a SWMP Administrator. In the case of a project requiring only one TECS, the SWMP Administrator may also be the ECI for the project. The name of the SWMP Administrator shall be recorded on the SWMP Section 3. B. The SWMP Administrator shall have full responsibility to maintain and update the SWMP and identify to the Superintendent critical action items needed to conform to the CDPS-SCP as follows:

In subsection 208.03(c)2 delete the first paragraph and replace it with the following:

One ECI is required for every 40 acres of total disturbed area which is currently receiving temporary and interim stabilization measures as defined in subsection 208.04 (e). An ECI shall not be responsible for more than 40 acres in the project. Accepted permanent stabilization methods as defined in subsection 208.04 (e) will not be included in the 40 acres.

In subsection 208.03(d)1 delete item (1) and replace it with the following:

- (1) SWMP Site Maps and Plan Title Sheet - Construction site boundaries, ground surface disturbance, limits of cut and fill, flow arrows, structural BMPs, non-structural BMPs, Springs, Streams, Wetlands and surface water. Also included on the sheets is the protection of trees, shrubs and cultural resources.

In subsection 208.05(n), in the list of requirements for pre-fabricated concrete washout structures, delete item (2) and replace it with the following:

- (2) Structure shall be located 50 horizontal feet away from State waters, and shall be confined so that no potential pollutants will enter State waters and other sensitive areas as defined in the Contract. Locations shall be as approved by the Engineer. The site shall be signed as "Concrete Washout".

In subsection 208.11 delete the first paragraph and replace it with the following:

Erosion Control Management will be measured as the actual number of days of ECM work performed, regardless of the number of personnel required for SWMP Administration and Erosion Control Inspection, including erosion control inspections, documentation, meeting participation, SWMP Administration, and the preparation of the SWMP notebook. If the combined hours of SWMP Administration and Erosion Control Inspection is four hours or less in a day, the work will be measured as ½ day. If the combined hours of SWMP Administration and Erosion Control Inspection is more than four hours in a day, the work will be measured as one day. Total combined hours of ECM work exceeding eight hours in a day will still be paid as one day.

July 3, 2017

1  
REVISION OF SECTION 401  
COMPOSITION OF MIXTURES – VOIDS ACCEPTANCE

Section 401 of the Standard Specifications is hereby revised for this project as follows:

Subsection 401.02(a) shall include the following:

On projects with voids acceptance of hot mix asphalt, mix designs based on a theoretical rejection of baghouse fines may be used when necessary to meet CDOT mix design requirements if the following additional requirements are met. Written approval for use of theoretical rejection of baghouse fines mixture design shall be obtained before production of project material.

- (1) Price adjustment for the hot mix asphalt shall be made based on voids acceptance criteria as prescribed in the latest version of the Standard Special Provision, Revision of Sections 105 and 106, Conformity to the Contract of Hot Mix Asphalt (Voids Acceptance). All costs associated with theoretical rejection of baghouse fines mix design, production, and acceptance shall be at the Contractor's expense.

The Contractor shall submit a separate Quality Control (QC) plan for handling the rejection of baghouse fines. The plan shall identify the plan, equipment, and procedures that will be used for the rejection of baghouse fines. The plan shall include detailed information on baghouse control systems and actual data demonstrating consistent system functionality. The QC plan shall be approved in writing prior to production.

- (2) The Contractor shall demonstrate that the material can be produced in accordance with one of the two procedures listed below. The Contractor shall supply project aggregate material for use in establishing acceptance testing equipment correction factors. Aggregate samples that have been produced according to CP-L 5117 to represent plant-produced material shall be provided by the mix design lab.

- (i) The Contractor shall produce a minimum of 3000 tons of material. This material shall be placed on non thru lanes or offsite in locations approved by the Engineer. A minimum of 3 samples will be tested for AC content, air voids and VMA. QL's for each element will be determined in accordance with the contract documents. If the QL is equal to or greater than 65 for VMA and Asphalt Cement Content and the QL for the element of air voids is equal to or greater than 70, full production may commence. This material may be considered a separate process, and price adjustment will be in accordance with subsection 105.05 or;

- (ii) The Contractor shall construct a 500-ton test strip on the main line on the project. Tonnage other than 500 tons may be produced only if approved. Three samples in the last 200 tons will be tested for volumetric properties. After construction of the test section, production shall be halted until the testing is complete and element QL's are calculated. If the QL is equal to or greater than 65 for VMA and Asphalt Cement Content and the QL for the element of air voids is equal to or greater than 70, full production may commence. If the TQL is less than 65 or the QL for the element of air voids is less than 70, the material shall be removed and replaced at the Contractor's expense.

JULY 3, 2017

23  
REVISION OF SECTION 401  
RECLAIMED ASPHALT PAVEMENT

Section 401 of the Standard Specifications is hereby revised for this project as follows:

Subsection 401.02(b) shall include the following:

Reclaimed Asphalt Pavement (RAP) is allowed in hot mix asphalt (HMA) up to a maximum binder replacement of 23 percent for all lifts, provided all specifications for HMA are met. Fine Aggregate Angularity requirements shall apply only to the virgin fraction of the fine aggregate. The RAP shall not contain clay balls, vegetable matter, or other deleterious substances, and must meet the uniformity requirements as outlined below.

HMA Project Verification Testing for asphalt content and gradation will be performed at the frequencies listed in the Field Materials Manual in accordance with CP-L 5120.

The Contractor shall have an approved mix design for the amount of RAP to be used. The AC content of the RAP utilized in the Contractor RAP mix design shall be the average AC content determined in accordance with 1B or 1C, below, or alternatively, a minimum of five samples of the Contractors RAP stockpile may be sampled and the average AC content of the RAP be determined using AASHTO T-164, Method A or B, or in accordance with 1C below. The Contractor shall determine the total binder replaced by the binder in the RAP pursuant to the following equation:

$$\text{Total Binder Replaced} = (A \times B) \times 100/E$$

Where:

A = RAP % Binder Content \*

B = RAP % in Mix \*

E = Total Effective Binder Content \*

\* in decimal format (i.e. 2% is 0.02)

The Total Binder Replaced by the binder in the RAP shall not exceed 23 percent of the effective binder content of either the mix design or the produced mix.

The use of RAP shall be controlled in accordance with subsections 105.05 and 106.05. If the Contractor elects to use RAP, the following additional conditions shall apply:

1. The Contractor shall have an approved Process Control (PC) Plan that details how the RAP will be processed and controlled. The PC plan shall address the following:
  - A. RAP Processing Techniques. This requires a schematic diagram and narrative that explains the processing (crushing, screening, and rejecting) and stockpile operation for this specific project.



- B. Control of RAP Asphalt Binder Content (AASHTO T-164, Method A or B). RAP Asphalt Binder Content may also be determined in accordance with CP-L 5120, provided a RAP AC content correction factor is determined through correlation testing

2  
REVISION OF SECTION 401  
RECLAIMED ASPHALT PAVEMENT

with AASHTO T-164, Method A or B. The correction factor shall be determined by performing correlation testing on the first five samples of the RAP AC content, then at a frequency of one for every five AC content tests thereafter. The correction factor shall be determined by calculating the average difference in AC content between CP-L 5120 and AASHTO T-164, Method A or B, and applying the correction to the AC content determined in accordance with CP-L 5120 :

Frequency: 1/1000 tons of processed RAP material (minimum five tests)

- C. Alternative Control of RAP Binder Content. The Contractor may propose a RAP asphalt content correction factor to be used in conjunction with CP-L 5120. The proposed CP-L 5120 RAP asphalt content correction factor shall be used with all RAP asphalt contents tested for the mixture design and quality control sampling and testing. The methodology of the proposed CP-L 5120 RAP asphalt content correction factor shall be outlined in detail in the approved RAP PC Plan. At a minimum, the proposed CP-L 5120 correction factor shall identify the principal source locations of the RAP aggregate, gradation of the material tested, and specific ignition oven serial number used in all the RAP asphalt content testing. The RAP source locations, material gradation, and specific equipment used shall substantiate the CP-L 5120 asphalt content correction factor used for the testing. The substantiation must be from data gathered from historical information or specific asphalt content correction data obtained from tests performed on similar virgin aggregate sources, virgin material gradations, and the specific equipment used.

- D. Control of RAP Gradation (CP31 or AASHTO T-30):

Frequency: 1/1000 tons of processed RAP material (minimum three tests)

- E. Process Control Charts shall be maintained for binder content and each screen listed in subsection 401.02(b), during addition of any RAP material to the stockpile. The Contractor shall maintain separate control charts for each RAP stockpile. The control charts shall be displayed and shall be made available, along with RAP AC extraction testing laboratory reports, to the Engineer upon request.
2. The processed RAP must be 100 percent passing the 31.5 mm (1¼ inch) sieve. The aggregate obtained from the processed RAP shall be 100 percent passing the 25.0 mm (1 inch) sieve. The aggregate and binder obtained from the processed RAP shall be uniform in all the measured parameters in accordance with the following:

3  
 REVISION OF SECTION 401  
 RECLAIMED ASPHALT PAVEMENT

**UNIFORMITY\***

Parameter	Standard Deviation
Binder Content	0.5
Percent Passing 19 mm (¾")	4.0
Percent Passing 12.5 mm (½")	4.0
Percent Passing 9.5 mm (⅜")	4.0
Percent Passing 4.75 mm (#4)	4.0
Percent Passing 2.36 mm (#8)	4.0
Percent Passing 600 µm (#30)	3.0
Percent Passing 75 µm (#200)	1.5
*Uniformity is the Maximum allowable Standard Deviation of test results of processed RAP.	

3. If RAP millings generated are incorporated in the same project, in accordance with CPL 5145 the Contractor shall pave with a virgin mix design until sufficient amount of processed RAP has been stockpiled and tested to allow full production of a RAP HMA mix.

July 3, 2017

1  
REVISION OF SECTION 401  
TOLERANCES FOR HOT MIX ASPHALT (VOIDS ACCEPTANCE)

Section 401 of the Standard Specifications is hereby revised for this project as follows:

In subsection 401.02(b) delete Table 401-1, including the footnotes, and replace with the following:

**Table 401-1  
Tolerances for Hot Mix Asphalt**

<b>Element</b>	<b>Tolerance</b>
Asphalt Cement Content	$\pm 0.3 \%$
Voids in the Mineral Aggregate (VMA)	$\pm 1.2 \%$
Air Voids	$\pm 1.2 \%$

JULY 3, 2017

July 3, 2017

1  
REVISION OF SECTION 703  
AGGREGATE FOR BASES (RAP ALLOWED)

Section 703 of the Standard Specifications is hereby revised for this project as follows:

In subsection 703.03, first paragraph, delete the first sentence and replace with the following:

Aggregates for bases other than Aggregate Base Coarse (RAP) shall be crushed stone, crushed slag, crushed gravel, natural gravel, crushed reclaimed concrete or crushed reclaimed asphalt pavement (RAP).

October 12, 2017

1  
 REVISION OF SECTION 703  
 CLASSIFICATION FOR AGGREGATE BASE COURSE

Section 703 of the Standard Specifications is hereby revised for this project as follows:

In subsection 703.03, delete Table 703-2 and replace with the following:

**Table 703-2  
 CLASSIFICATION FOR AGGREGATE BASE COURSE**

Sieve Size	Mass Percent Passing Square Mesh Sieves						
	LL not greater than 35			LL not greater than 30			
	Class 1	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7
150mm (6")			100				
100mm (4")		100					
75mm (3")		95-100					
60mm (2 ½")	100						
50mm (2")	95-100			100			
37.5mm (1.5")				90-100	100		
25mm (1")					95-100	100	100
19mm (¾")				50-90		95-100	
4.75mm (#4)	30-65			30-50	30-70	30-65	
2.36mm (#8)						25-55	20-85
75 μm (#200)	3-15	3-15	20 max	3-12	3-15	3-12	5-15

NOTE: Class 3 material shall consist of bank or pit run material.

**TOWN OF CARBONDALE MEADOW WOOD DRIVE RECLAMATION PROJECT  
 BID FORM**

<b>Item No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Mobilization	1	LSUM		
2	Traffic Control	1	LSUM		
3	Full Depth Reclamation (6")	6080	SQYD		
4	Hot Mixed Asphalt (Grading SX) (75)(PG 58-28)	1060	TONS		
5	Adjust Valve Box	8	EACH		
6	Adjust Manhole	1	EACH		
7	Preformed Thermoplastic Pavement Marking (Xwalk-Stop Line)	288	SQFT		
<b>Total Base Bid:</b>				<b>\$</b>	

Note: When evaluating the bids, any discrepancy between the listed unit price and the total will be settled in favor of the unit price.

This Bid is Submitted By: \_\_\_\_\_

Company Representative: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

I hereby certify that this information is true and correct to the best of my knowledge, and further certify that I am authorized to submit this bid on behalf of the above-named company.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_