

**EL PASO COUNTY
DEPARTMENT OF PUBLIC WORKS
Silverton Road Project**



The Standard Specifications for Construction for this Project shall consist of the applicable sections and subsections of the 2022 "Colorado Department of Transportation Standard Specifications for Road and Bridge Construction."

The following Project Special Provisions take precedence over Specifications or Plans and supplement or amend the referenced "Standard Specifications for Road and Bridge Construction" adopted in 2022 by the Colorado Department of Transportation, which is to be used to control construction of this Project.

The *Pikes Peak Region Asphalt Specifications*, Version 6 shall control construction of HMA.

<https://assets-publicworks.elpasoco.com/wp-content/uploads/Documents/Pikes-Peak-Region-Asphalt-Paving-Specs-Version-6-March-2022.pdf>

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NOTICE TO BIDDERS

El Paso County Project Engineer - Alissa Werre

Phone: (719) 238-8080

The above referenced individual or her assign(s) are the only representatives of the Department with authority to provide any information, clarification, or interpretation regarding the plans, specifications, and any other contract documents or requirements.

COMMENCEMENT AND COMPLETION OF WORK (WORKING DAY)

The services called for shall commence on the date of contract execution by all Parties and shall be completed within **60 Working Days**. A Limited Notice to Proceed may be provided to the Contractor prior to the Notice to Proceed for the purpose of ordering certain materials for the project that may require substantial lead time prior to delivery to the site, permitting and other non-construction tasks. Construction Work shall commence, and the time count shall begin upon receipt of the Notice to Proceed.

If materials stockpiling begins before the Notice to Proceed, contract time will not be charged for the stockpiling effort. Stockpiling of materials before the beginning date is subject to the Engineer's approval. If such approval is given, stockpiled material will be paid for in accordance with Sections 109 and 626.

PUBLIC INVOLVEMENT BY CONTRACTOR

The Contractor shall provide information to the Engineer throughout the duration of the Project:

1. The Contractor, at the pre-construction meeting, shall designate a contact person for the Project. This individual shall be responsible for maintaining communications with and providing detailed information regarding construction phasing and traffic impacts to the Engineer. Communication with residents may be requested by the Engineer.

It is the Contractor's responsibility to be in contact daily, or as required, with the schools and organizations that provide emergency services, as applicable, that may be impacted during construction. At a minimum, the following agencies shall be coordinated with as necessary to include providing updated information related to traffic delays and lane closures and other information as applicable.

El Paso County Department of Public Works

Alissa Werre, Project Engineer
Cell phone Number: 719.238.8080

El Paso County Sheriff Dispatch

El Paso County Sheriff, Attn: Dispatch
Telephone Number: 719.390.5555

Fire District

Tri-Lakes Monument District,
Donald Wescott Northern Subdistrict, Attn: Dispatch
Telephone Number: 719.484.0911

Police Protection

El Paso County Sheriff Department, Attn: Dispatch
Telephone Number: 719.520.7100

2. A letter of introduction shall be delivered to all landowners impacted by the Project or immediately adjacent to the project limits prior to mobilization and before any changes to their access for the Project duration. These letters shall include the following, at a minimum:
 - a. Contractor's name, address, phone number.
 - b. Field Superintendent's name and mobile phone number.
 - c. Information about the start date and any information that the landowner(s) may need.
3. The Contractor may be requested to deliver periodic updates to each landowner when work on their property will occur and at each phase of the Project throughout the construction period. These updates should contain information concerning type of work on applicable private property, temporary lane closures, and pertinent information that the landowner may need to know.
4. The Contractor shall not cut off reasonable access to any landowner for more than 15 minutes without advance coordination and agreement in writing from the landowner. The Contractor shall submit such access plans to the Engineer for approval, and the Contractor shall obtain written agreements with the individual property owners regarding access not shown in the plans and provide such agreements to the Engineer for approval prior to proceeding with the work.

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

**REVISION OF SECTION 101
DEFINITIONS AND TERMS**

Certain terms utilized in the Specifications referred to above shall be interpreted to have different meanings (where applicable) within the scope of this Contract. When used in reference to compliance with laws and regulations, or the source of specifications or drawings, the terms shall retain their original meaning. A summary of redefinitions follows:

The following sections are amended for the purpose of identification of the Owner and responsible parties for control of the construction of this project.

CONTRACT MODIFICATION ORDER: In addition to the definition given in the "CDOT Standard Specifications", the term "Contract Modification Order" shall also include and be synonymous with the term "Change Order".

PROJECT ENGINEER OR ENGINEER: This term shall mean the County Engineer, El Paso County Department of Public Works or designated representative.

OWNER: The term "OWNER" shall refer to the El Paso County Department of Public Works, acting through and on behalf of the El Paso County Board of County Commissioners.

Other additional terms that may be utilized in the Standard Specifications shall be interpreted to have different meanings within the scope of this Contract. A summary of redefinitions follows:

- a. "CDOT Resident Engineer": shall mean the County Engineer, El Paso County, Colorado or designated representative.
- b. "County" or "EPC" shall mean El Paso County, Colorado.
- c. "Department" shall mean El Paso County, Colorado, Department of Public Works, Engineering Division.
- d. "Department of Transportation" shall mean El Paso County, Department of Public Works, Engineering Division.
- e. "CDOT Resident Engineer" shall mean the County Engineer, El Paso County, Colorado or designated representative.
- f. "Engineer" shall mean the County Engineer, El Paso County, Colorado, or designated representative.
- g. "Regional Transportation Director" shall mean the El Paso County Department of Public Works, Engineering Division.
- h. "State, State of Colorado, or State Department of Transportation or CDOT" shall mean El Paso County, 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:

Subsection 102.01 - Pre-Qualification of Bidders, is deleted in its entirety.

Subsection 102.05 shall include the following:

The following construction documents are available to all bidders:

- Standard Special Provisions
- Project Special Provisions
- Construction Plans

3D modeling data is available in DTM and DGN formats. Available 3D modeling data consists of survey files and design model files.

The County does not warrant the 3D modeling data and this information is not considered to be a part of the Contract. If bidders use the 3D modeling data in preparing a proposal or planning and prosecuting the Work, it is used at their own risk, and bidders are responsible for all conclusions, deductions, and inferences drawn from the 3D modeling data.

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

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

Add **Subsection 103.05** Contract Duration

The contract will remain open until all Work has been completed and accepted by the County, including but not limited to final stabilization, and all permit requirements have been met and all permits have been closed. If agreed upon by the Contractor and the Engineer, the project may be deemed substantially complete and partial retainage may be released prior to final acceptance, but the Contractor will remain responsible for meeting all final stabilization requirements, including but not limited to, vegetation growth and additional stabilization Work as required and approved by the Engineer.

**REVISION OF SECTION 105
AS-CONSTRUCTED DRAWINGS**

Subsection 105.02(b) shall include the following:

The Contractor shall coordinate with the Project Inspector to supply the Engineer upon completion, an as-constructed set of drawings showing the locations of items that were changed during construction and any other pertinent information that altered from the construction bid set plans. The changes will be “red-lined” and agreed upon by the Contractor and the Engineer. Costs associated with the as-constructed plans shall be included in the Work.

**REVISION OF SECTION 105
COOPERATION BETWEEN CONTRACTORS**

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

Subsection 105.10 shall include the following:

Other agencies or contractors may be working in the vicinity of the Project or in the project limits. The Contractor shall conduct the work so as not to interfere with or hinder the progress or completion of the work being performed by other agencies or contractors. All traffic control conflicts that arise between the needs of the various construction contractors and other agencies shall be brought to the attention of the Engineer. The Engineer, in coordination with all contractors, will decide the method of resolution.

**REVISION OF SECTION 105
CONFORMITY TO THE CONTRACT OF EMBANKMENT**

Sections 105 of the Standard Specifications are hereby revised for this project as follows:

Subsection 105.03 shall include the following:

(c) Conformity to the contract of embankment construction shall be determined in accordance with the following:

The Contractor shall be responsible for Process Control (PC) for all embankment material on this project. PC shall include but not be limited to the following:

- (1) Maximum lift thickness of six (6) inches in accordance with subsection 203.06 or as directed.
- (2) Compaction equipment capable of obtaining the specified compaction.
- (3) Water distribution equipment with an adequate distribution system that will apply water evenly.
- (4) List of all inspection and materials testing forms and procedures utilized by the Contractor.

The Contractor’s Process Control efforts will not be measured and paid for separately but shall be included in the Work.

**REVISION OF SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

Section 107 of the Standard Specifications is hereby revised for this project as follows:

Subsection 107.02 shall include the following:

Unless otherwise specified, the Contractor shall procure all permits and licenses; pay all charges, fees, and taxes; and give all notices necessary and incidental to the due and lawful prosecution of the Work. The following permits are required for the Project and shall be obtained by the Contractor:

- Construction Activity Permit (El Paso County Health Department)
- Work in the ROW Permit (El Paso County) (fees will be waived)

The Contractor shall comply with all permit provisions and requirements. The costs of these permits will not be paid for separately but shall be included in the Work.

Subsection 107.06 (d) Competent Persons shall include the following:

- (20) Traffic Control
- (21) Erosion Control

Subsection 107.12 shall include the following:

The Contractor shall protect all existing vegetation (including trees, shrubs, ground covers, grasses, etc.) in the project area, except for that vegetation which must be removed to accommodate construction of the Project and as shown on the plans.

The Contractor shall perform all the Work in such a manner that the least environmental damage will result. All questionable areas or items shall be brought to the attention of the Engineer for approval prior to removal or any damaging activity.

The Contractor is legally required to obtain all other permits associated with specific activities within or outside of the right of way, such as borrow pits, waste disposal sites, or other facilities. These permits may include local, state, federal, and/or stormwater permits.

Section 107 shall include the following:

107.26 Noxious Weed Mediation. Noxious weeds may persist on or adjacent to the project location. All weed species on the State Weed Law List A and B shall be addressed according to State Statute. CDOT Standard Specifications and BMPs shall be followed to reduce the spread of noxious weeds, including the following:

- (1) Soil disturbance shall be minimized to the extent possible.
- (2) Herbicide may be used immediately adjacent to water bodies only if the label indicates that its use is appropriate for such areas.
- (3) All disturbed area will be seeded with a certified weed-free low water seed mix within four calendar days of completion of earthwork and two calendar days of final grading unless otherwise specified in the construction plans or designated for riprap and/or road surface treatment.
- (4) "A" Horizon soil material currently supporting noxious weed cover of more than 10% shall not be used as topsoil during re-vegetation.

- (5) Imported topsoil shall be certified as weed free.
- (6) All areas treated for noxious weeds during construction will be monitored and re-treated, if necessary, to prevent establishment of noxious weeds.
- (7) Any compost, mulch or soil retention blanket used shall be weed-free.
- (8) All equipment moved onto the Project shall be free of soil, seeds, vegetative matter, or other debris that could contain or hold noxious weed seed. The Engineer may inspect all equipment prior to it being placed into service and may reject equipment that does not meet this specification.

REVISION OF SECTION 108 PROSECUTION AND PROGRESS

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

Subsection 108.02 shall be replaced with the following:

The Contractor shall not commence Work prior to the issuance of a "Limited Notice to Proceed". Construction of the project is anticipated to begin in the Summer of 2023. A Limited Notice to Proceed will be issued to allow the awarded Contractor to order materials and obtain permits in advance of construction as required. The "Notice to Proceed" will specify the date on which contract time commences.

Subsection 108.03(b) shall include the following:

A Baseline Project Schedule will be submitted to the Engineer for approval. All work performed by the Contractor or any of the Contractor's agents during a working day shall be accomplished within pre-established working hours. Neither the Contractor nor any of the Contractor's agents shall work at times outside of the daily working hours without prior written approval by the Engineer. Requests for changes in working hours shall be submitted to the Engineer in writing at least 48 hours before the proposed change in working hours would take effect.

A CPM schedule will be required. Salient features to be shown on the Contractor's schedule are:

- Construction Surveying
- Mobilization
- Traffic Control
- Temporary Erosion Control
- Utility Potholing
- Clearing and Grubbing
- Earthwork
- Culvert removal & installation
- Riprap
- Base Coarse
- Topsoil, Seeding and Soil Retention blanket.
- Other items or milestones

The Contractor shall submit a copy of the updated Baseline CPM schedule and method statement, as applicable, to the Engineer each month, 10 days prior to the estimate cutoff date. Payment of the estimate will be released after review and acceptance of the updated schedule. Minimum review time will be 10 days.

Subsection 108.05 shall include the following:

All construction activities shall be completed Monday through Friday during daylight hours or between 7:00 am and 7:00 pm, whichever is more strict. Weekend Work will be considered provided that the Contractor submits a request in writing a minimum of four (4) Working days prior to the weekend activities.

REVISION OF SECTION 202 REMOVAL AND TRIMMING OF TREES

Section 202 of the Standard Specifications is hereby revised for this project as follows:

Subsection 202.02 shall include the following:

This work includes the removal of trees as shown on the construction plans and as directed by the Engineer. This work includes the preservation from injury or defacement of all vegetation and objects designated to remain. All trees, shrubs, plants, grasses, and other vegetative materials shall remain, except as designated by the limits of construction shown on the plans or as directed by the Engineer. The Contractor shall coordinate with the Engineer where trees are designated for removal but may not require removal and/or if trees are required to be removed and are not designated for removal.

Trees designated for removal shall include removing all branches, stems, trunks, stumps and roots to at least six (6) inches below the surface of the final slope line. All removed vegetation shall become the property of the Contractor and shall be disposed of by the Contractor.

Trees within the County's permanent easement along the fence adjacent to Old North Gate Road shall be trimmed/cut to no taller than three (3) feet above ground level.

BASIS OF PAYMENT

Subsection 202.12 shall include the following:

Pay Item	Pay Unit
Tree Trimming	Hour
Removal of Tree	Each

Chipping, stockpiling mulch, and hauling and stockpiling trunks and limbs will not be paid for separately but shall be included in the work.

Trees to be removed with a diameter of four (4) inches measured at four (4) feet above the ground will be paid as Removal of Tree. Payment for removal of tree shall be full compensation for all labor, equipment and materials required to complete the Work. All other trees to be removed with a diameter less than four (4) inches measured at four (4) feet above the ground will not be paid for separately but shall be included in the cost of item 201-00000 Clearing and Grubbing.

**REVISION OF SECTION 202
REMOVAL OF ASPHALT MAT**

Section 202 of the Standard Specifications is hereby revised as follows:

Subsection 202.01 shall be revised to include the following:

This work includes removal and disposal of existing asphalt mat within the project limits as shown on the plans or at locations directed by the Engineer.

Prior to removal, the Contractor will mark the limits of asphalt removals, and the Engineer will approve the limits of removal in the field.

In **Subsection 202.02** delete the seventh paragraph and replace with the following:

The removed asphalt mat shall become the property of the Contractor and shall be disposed of off-site in accordance with the contract documents. The asphalt may NOT be reused on the project to construct embankments and may NOT be used in the berm.

Subsection 202.07 shall be revised to include the following:

Where old asphalt construction abuts edges of asphalt pavement, patching, etc., asphalt to be left in place shall be sawcut to a neat vertical face with minimal jagged edges to the satisfaction of the Engineer prior to removal and/or placement of new asphalt.

Subsection 202.11 shall be revised to include the following:

The removal of the existing asphalt mat will be measured by the square yard of mat removed to the required depth and accepted.

BASIS OF PAYMENT

Subsection 202.12 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Removal of Asphalt Mat	Square Yard

The disposal of the asphalt mat will not be measured and paid for separately but shall be included in the work.

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

**REVISION OF SECTION 203
EXCAVATION AND EMBANKMENT**

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

Subsection 203.03 shall be revised to include the following:

On-site soil acquired from excavations that are free of topsoil, organic matter, claystone, and other deleterious materials may be placed as embankment material as approved by the Engineer.

Materials imported to the project to be used as embankment material shall be free of topsoil, organic matter, claystone, and other deleterious materials.

Subsection 203.05(b), first paragraph, shall be revised to read as follows:

Unclassified. Excess or unsuitable excavated material, including rock and boulders, that cannot be used in embankments shall become the property of the Contractor and disposed of outside the project limits. All removed material shall become the property of the Contractor and shall be disposed of by the Contractor. All costs and permits related to the disposal site are the responsibility of the Contractor.

In **Subsection 203.06**, delete the tenth paragraph and replace with the following:

Frozen materials shall not be used in construction of embankments. In addition, embankment material shall not be placed on top of frozen material. Frozen material will be identified by the visual observation of ice crystals within the foundation or embankment material, or by measuring the temperature of the ground surface.

Subsection 203.07 shall include the following:

The bases of fill shall be scarified to a depth of 12 inches and densified in place to be within the compaction and moisture controls specified under Subsection 203.06 Embankment.

Should wet, loose, soft or otherwise unsuitable material be exposed on surfaces to receive fill, as identified by the Engineer, those materials should be removed and replaced with low to non-expansive material, properly moisture conditioned and compacted. Fill shall be placed in uniform lifts not exceeding six (6) inches for heavy equipment and four (4) inches for hand-operated compactors and compacted to the same moisture-density requirement as noted above.

Subsection 203.11 shall include the following:

The contract unit price for 203-00000 Unclassified Excavation shall be full compensation for all work necessary to remove four (4) inches (average) of existing sand / gravel from Summit Drive, haul, and dispose of excess excavated material.

The contract unit price for 203-00010 Unclassified Excavation (Complete In Place) shall be full compensation for all work necessary to complete the item including construction of embankments, unclassified excavation, compaction, moisture control, compaction of bases of cuts and filles, haul, and disposal of excess excavated material. No separate measurement or payment shall be made for the final reshaping of slopes to final template shape.

BASIS OF PAYMENT

Subsection 203.12, shall include the following:

Payment shall be made under:

Pay Item	Pay Unit
Unclassified Excavation	Cubic Yard
Unclassified Excavation (Complete in Place)	Cubic Yard
Potholing	Hour

Excavated materials that require more than one handling prior to final placement will be paid for at the contract unit price for Unclassified Excavation (Complete in Place), as appropriate. Such payment shall be considered full compensation with no additional payment being made for stockpiling, cross hauling, or subsequent handling.

**REVISION OF SECTION 207
TOPSOIL**

Section 207 of the Standard Specification is hereby revised for this project as follows:

Subsection 207.03 shall include the following:

Onsite Topsoil shall be salvaged prior to beginning hauling, excavating, or fill operations by excavating and stockpiling the material for use onsite. Onsite Topsoil must be used on the berm and within TE-3 and TE-3A limits east of Silverton Road. If required, imported Offsite Topsoil shall be placed on the west embankment.

Topsoil shall be placed directly upon completed cut and fill slopes whenever conditions and the progress of construction will permit. Topsoil shall be placed six (6) inches thick at all disturbed locations not designated for other materials (i.e. riprap, base course) and shall be keyed and tracked to the underlying material without creating a compacted surface by the use of equipment suitable for the purpose.

If Onsite Topsoil exceeds the quantity required under the Contract, it shall be disposed of within the project limits as acceptable to the Engineer.

Subsection 207.04 delete the first paragraph and replace with the following:

Topsoil placed in stockpiles will not be paid for separately but shall be included in the cost of Topsoil.

BASIS OF PAYMENT

Subsection 207.05 shall include the following:

Payment shall be made under:

Pay Item	Pay Unit
Topsoil (Onsite)	Cubic Yard
Topsoil (Offsite)	Cubic Yard

**REVISION OF SECTION 209
WATER AND DUST PALLIATIVES**

Section 209 of the Standard Special Provisions is hereby revised for this project as follows:

Subsection 209.05 shall include:

Application of water for dust palliative may be required when Work is not in progress, including weekends, holidays, and nighttime.

Subsection 209.06 shall include the following:

The Contractor shall provide adequate water to establish growth of permanent seeding to establish 80% or greater cover within one year of planting. Water may be required to establish growth of temporary seeding cover prior to permanent seeding.

Subsection 209.07 shall be replaced with the following:

Water for establishing growth for stabilization will be measured by the number of thousand gallons (MGal) used and accepted *for up to six (6) months after temporary seeding, if required, and for one (1) year after permanent seeding.* After one year, water for growth will not be measured and paid for.

Measurement of water may be made in the vehicle at point of delivery or by meter. When water is to be metered for measurement, the Contractor shall provide and use an approved metering device.

Water used for Dust palliative will not be measured and paid for separately but shall be included in the Work.

Subsection 209.08 shall be revised to include the following:

BASIS OF PAYMENT

Payment shall be made under:

Pay Item	Pay Unit
Water	M Gallon

Water required for items of work will not be measured and paid for separately but shall be included in the work, except that water approved for establishing growth for stabilization and water ordered by the Engineer for the benefit or safety of the public will be paid for per the Contract.

**REVISION OF SECTION 304
AGGREGATE BASE COURSE**

Section 304 of the Standard Specifications is hereby revised for this project as follows:

Subsection 304.02 shall include the following:

Materials for the base course shall be Aggregate Base Course (Special) meeting the requirements shown in Revision of Subsection 703.03.

Subsection 304.07 is hereby revised to include the following:

The quantity for Aggregate Base Course (Special) will not be remeasured but will be the quantity designated in the Contract Documents unless field changes are ordered, or the Contractor fails to furnish plan quantity. If field changes are ordered or plan quantity not furnished, the quantity will be calculated using the revised dimension. The Engineer, prior to beginning the work, shall approve the additional or reduced volume in writing.

No allowances shall be made for shrinkage, swell, or subsidence due to compaction of the existing ground or any other losses. No separate measurement or payment will be made for processing and distributing the Aggregate Base Course (Special) as directed.

Subsection 304.08 is hereby revised to include the following:

The Contract Unit Price shall be full compensation for all labor, equipment and material needed to complete the work (including furnish, placement, compaction, fine grading, stockpile and redistribute as required during construction).

Subsection 304.08 shall be revised to include the following:

BASIS OF PAYMENT

Payment shall be made under:

Pay Item	Pay Unit
Aggregate Base Course (Special)	Cubic Yard

**REVISION OF SECTIONS 304 AND 403
TICKET COLLECTION FOR AGGREGATE BASE
COURSE (SPECIAL) AND HOT MIX ASPHALT**

Section 304 and 403 of the Standard Specifications is hereby revised for this project as follows:

Subsection 304.08 and 403.05 shall include the following:

The Contractor shall collect the scale ticket on each load when it is delivered to the project site, and ensure that the information required in subsection 109.01 is shown on each ticket. The Contractor's ticket collector shall add the placement location to each scale ticket using stationing and sign it.

The scale tickets shall be available on site for the Engineer to inspect.

Each day the Contractor shall provide to the Engineer envelopes which contain the previous day's signed tickets and the following:

- (1) On each envelope: Project number, date of placement, type of material, daily total and cumulative total.
- (2) One of the following:
 - a. Two adding machine tape tabulations of the weight tickets with corresponding totals run and signed by different persons,
 - b. One signed adding machine tape tabulation of the weight tickets that has been checked and signed by a second person,
 - c. Signed check tape of computer scale tickets that have a cumulative total. These scale tickets must be consecutive and without voids adjustments.
- (3) A listing of any overweight loads on the envelope, including ticket numbers and amount over legal limit.
- (4) A comparison of the actual yield for each day's placement to the theoretical yield. Theoretical yield shall be based on the actual area paved, the planned thickness, and the actual density of the mixture being placed. Any variance greater than +2.5% shall be indicated on the envelope and a written explanation included.

The Contractor shall provide a vehicle identification sheet that contains the following information for each vehicle:

- (1) Vehicle number
- (2) Length
- (3) Tare weight
- (4) Number of axles
- (5) Distance between extreme axles
- (6) All other information required to determine legal weight.
- (7) Legal weight limit.

**REVISION OF SECTION 401
PLANT MIX PAVEMENTS – GENERAL**

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

Materials, construction requirements, method of payment, and basis of payment for plant mix pavements shall follow the requirements set forth in the *Pikes Peak Region Asphalt Paving Specifications* unless otherwise specified in these Special Provisions or following approval by the Engineer.

**REVISION OF SECTION 403
HOT MIX ASPHALT**

Section 403 of the Standard Specifications is hereby revised for this project as follows:

Subsection 403.02 shall include the following:

The design mix for hot mix asphalt shall conform to the *Pikes Peak Region Asphalt Paving Specifications* unless otherwise specified in these Project Special Provisions or following approval by the Engineer. The materials for hot mix asphalt shall conform to the requirements described in Sections 2, 3, and 4(D) of the *Pikes Peak Region Asphalt Paving Specifications* unless otherwise specified in these Project Special Provisions or following approval by the Engineer.

Subsection 403.03 shall include the following:

The construction requirements shall be as described in Section 4 of the *Pikes Peak Region Asphalt Paving Specifications* unless otherwise specified in these Project Special Provisions or following approval by the Engineer. The asphalt thickness shall match the existing asphalt or 6 inches, whichever is greater.

Delete **subsection 403.04** and replace with the following:

Hot mix asphalt will be measured as described in Section 4 (P) of the *Pikes Peak Region Asphalt Paving Specifications*, unless otherwise specified in these Project Special Provisions or following approval by the Engineer.

Delete **subsection 403.05** and replace with the following:

403.05 The accepted quantities of hot mix asphalt will be paid for in accordance with subsection 401.22, at the contract unit price per ton for the bituminous mixture.

Payment will be made under:

Pay Item	Pay Unit
Hot Mix Asphalt (Patching) (Asphalt)	SY

Aggregate, asphalt recycling agent, asphalt cement, additives, hydrated lime, and all other Work and materials necessary to complete each hot mix asphalt item will not be paid for separately but shall be included in the unit price bid.

**REVISION OF SECTION 405
HEATING AND SCARIFYING TREATMENT**

Section 405 of the Standard Specifications is hereby revised for this project as follows:

Delete the first sentence of **Subsection 405.03** and replace it with the following:

Weather and temperature limitations shall be as described in the *Pikes Peak Region Asphalt Paving Specifications*.

**REVISION OF SECTION 407
PRIME COAT, TACK COAT, AND REJUVANATING AGENT**

Section 407 of the Standard Specifications is hereby revised for this project as follows:

Subsection 407.09 shall be deleted and replace it with the following:

407.02 Bituminous Material. The type and grade of bituminous material used for tack coating will meet the specifications described in the *Pikes Peak Region Asphalt Paving Specifications*. The bituminous material for prime coating shall meet the requirements of Section 702. The rejuvenating agent shall be accepted before loading into the distributor.

Subsection 407.09 shall include the following:

Tack coat will not be measured and paid for separately but shall be included in the cost of 403 Hot Mix Asphalt.

**REVISION OF SECTION 506
SOIL RIPRAP**

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

Subsection 506.02 shall include the following:

Materials. Soil riprap shall be a uniform mixture of riprap, of a size as called for on the plans, with the bottom lift of riprap voids filled with native soil.

Subsection 506.03 shall include the following:

Construction requirements. Soil riprap shall be placed in lifts; riprap shall be placed to a 1 x d50 thickness, voids then filled with native soil material, with soil vibrated (by impact with excavator bucket or other means) or washed into the voids before the next lift of riprap is placed. The intention is to have an interlocking matrix of rock (a typical riprap placement), with only the voids filled with soil. Soil riprap shall be placed in this fashion, to the lines and grades shown in the drawings. The top six (6) inches shall be exposed riprap without soil.

BASIS OF PAYMENT

Subsection 506.05 shall include the following:

Measurement and payment for soil riprap includes the total volume, including both the riprap and the soil material in the voids.

Payment shall be made under:

Pay Item	Pay Unit
Soil Riprap (9 Inch)	Cubic Yard

Payment shall be made at the applicable contract unit price for Soil Riprap (9 Inch) and shall include full compensation for all labor, equipment, materials and all other work required for installation.

**REVISION OF SECTION 603
CULVERTS AND SEWERS**

Section 603 of the Standard Specifications is hereby revised as follows:

BASIS OF PAYMENT

Subsection 603.13 shall include the following:

Pay Item	Pay Unit
18 Inch Reinforced Concrete Pipe (Complete In Place)	Linear Foot
18 Inch Flared End Section	Each

All Reinforced Concrete Pipe will be paid for as Complete-in-Place. Excavation, backfill, and bedding material associate with the culvert installation will not be measured and paid for separately but shall be included in the work.

REVISION OF SECTION 607 FENCES AND GATE

Section 607 of the Standard Specifications is hereby revised as follows:

Subsection 607.03, second paragraph shall be deleted replaced with the following:

The right-of-way fence shall be constructed approximately six (6) inches property side of the road right of way shown on the plans or as staked. Anchorages, footings or fence appurtenances shall not extend into the limits of the road right of way.

Subsection 607.03 shall be revised to include the following:

The wood split rail fence posts shall be set in concrete at a depth and diameter similar to the existing posts. The depth and diameter are assumed to be 12 inches and 12 inches, respectively.

The 16-foot gate shall be single swing steel tube gate or two single swing 8-foot tube gates for a total opening of 16 feet.

Temporary fencing is required as shown in the construction plans. The Contractor shall install and maintain temporary fencing that ties into the existing fencing at the limits of the Temporary Easement prior to work on the property and prior to removal of the existing fence. Temporary fence shall be constructed with steel T-posts and round, treated wooden line posts 4 inches x 6 ft-6 inches at a ratio of 5 steel T-posts to 1 wooden post. Posts will be equally spaced at 12 feet o.c. Fence wire shall be 12 gauge woven wire at least 47 inches in height with 4 inch x 4 inch openings and meet the specifications per CDOT M-607-1 unless otherwise specified.

The permanent combination wire with treated wood posts shall meet the following requirements:

1. The new fencing will tie into the existing fencing at the limits of the right-of-way or at a location approved by the property owner and the Engineer. Fencing will be installed upon completion of slope construction, berm construction and final grading, and *prior to* seeding and blanketing within the limits defined in RW-3, TE-3 and TE-3A *if required* to protect the seeding and blanket. The Contractor will repair seeding and blanket as needed if disturbed by project related work.
2. Permanent fence shall be constructed with 4 inch diameter x 6 ft-6 inch round, treated wooden line posts set 24 inches deep, equally spaced at 8 feet o.c. Fence wire shall be 12 gauge woven wire at least 47 inches in height with 4 inch x 4 inch openings and meet the specifications per CDOT M-607-1 unless otherwise specified.

METHOD OF MEASUREMENT

Subsection 607.04, third paragraph shall be deleted replaced with the following:

End posts, corner posts, and line brace posts required for barbed wire and combination wire fence will not be measured and paid for separately but shall be included in the cost of the fence.

BASIS OF PAYMENT

Subsection 607.05 shall include the following:

Payment will be made under:

Pay Item	Pay Unit
Fence Wire with Metal Posts	Linear Foot
Fence Combination Wire with Treated Wooden Posts (Special)	Linear Foot
Fence Wood Railing	Linear Foot
Fence (Temporary)	Linear Foot

Concrete for post foundations will not be paid for separately but shall be included in the cost of the fence.

**REVISION OF SECTION 625
CONSTRUCTION SURVEYING**

Section 625 of the Standard Specifications is hereby revised as follows:

Subsection 625.04 is hereby revised to include the following:

All surveying and staking required for this Project shall be provided by the Contractor. Any additional survey information required by the Contractor shall be requested in writing at least five (5) working days prior to when it is needed. There shall be no additional compensation beyond the lump sum for Construction Surveying to the Contractor for time lost due to requesting additional information.

All survey staking destroyed by the Contractor will be replaced at the Contractor's expense. The Contractor, at the Contractor's expense, shall replace all survey staking destroyed by vandalism or destroyed by any other reason.

BASIS OF PAYMENT

Subsection 625.13 is hereby revised to include the following:

Payment will be made under:

Pay Item	Pay Unit
Construction Surveying	Lump Sum

REVISION OF SECTION 630 CONSTRUCTION TRAFFIC CONTROL

Section 630 of the Standard Specifications is hereby revised for this project as follows:

METHOD OF MEASUREMENT

Subsection 630.10 shall include the following:

The key elements of the Contractor's method of handling traffic (MHT) are outlined in subsection 630.10(a).

The components of the TCP for this project are included in the following:

- (1) Subsection 104.04 and Section 630 of the specifications.
- (2) Standard Plan S-630-1, Traffic Controls for Highway Construction, and Standard Plan S-630-2.

The following documents shall control the preparation of the MHT Plans and are listed in the order of precedence:

- (1) Plans, Specifications and Special Provisions for this project
- (2) *Manual on Uniform Traffic Control Devices* (MUTCD)
- (3) El Paso County *Engineering Criteria Manual (October 2020)*
- (4) Colorado Department of Transportation *Standard Specifications (2022 edition)*
- (5) Colorado Department of Transportation *M&S Standards (2019 edition and updates)*

Unless otherwise approved by the Engineer, the Contractor's equipment shall follow normal and legal traffic movements. The Contractor's ingress and egress of the work area shall be accomplished with as little disruption to traffic as possible. Traffic control devices shall be removed by picking up the devices in a reverse sequence to that used for installation. This may require moving backwards through the work zone. When located behind barrier or at other locations shown on approved traffic control plans, equipment may operate in a direction opposite to adjacent traffic.

During the construction of this project, traffic shall use the present traveled roadway unless identified on the plans or approved by the Engineer. The Contractor shall not have construction equipment or materials in the lanes open to traffic at any time, unless approved by the Engineer.

Subsection 630.18 paragraphs 1-4 shall be deleted and replaced with the following:

The temporary traffic control devices, materials, and equipment including but not limited to vertical panels, lighting, drum channelizing devices, traffic cones, and construction traffic signs will not be measured and paid for separately but shall be included in the Lump Sum bid price for Construction Traffic Control. The actual quantity of devices necessary to construct the project is dependent on the phasing and scheduling developed by the Contractor and the MHTs approved by the Engineer.

Subsection 630.18, paragraphs 6, 7, 9, and 10 shall be deleted and replaced with the following:

The quantity to be measured for Traffic Control Management will be the number of authorized 24-hour days of active TCM performed by the TCS or another representative certified as a work site traffic

supervisor. Payment will be made for one day of Traffic Control Management regardless of the number of TCSs required to adequately control the Work. An authorized 24-hour day of active TCM will be every calendar day on which active traffic control occurs in accordance with an approved MHT. This includes activities such as flagging operations, pilot car operations, and setting up or removal of construction zones, shoulder closures, lane closures or detours. Traffic control devices that are left in place during non-working hours, including configurations such as lane closures, temporary channelization, or detours, are not considered active traffic control.

The quantity to be measured for Traffic Control Inspection will be the number of authorized 24-hour days of traffic control inspection (TCI) performed by the TCS or another representative certified as a work site traffic supervisor. An authorized 24-hour day of TCI shall be every calendar day that traffic control devices as shown in the MHT are in use, masked, or turned away from traffic on the project, and the only traffic control activity is the inspection of traffic control devices.

Payment will be made for either Traffic Control Management or Traffic Control Inspection for every calendar day that traffic control devices as shown in the MHT are in use, masked, or turned away from traffic on the project. Payment will not be made for both items for the same calendar day. Work on a night shift that begins before midnight and ends after midnight will be considered as occurring on the calendar day on which the shift ends.

The quantity to be measured for flagging will be the total number of actual flagging hours that are used as authorized in accordance with an approved MHT. Payment will not be made for time spent by flaggers to set up and take down construction traffic control devices.

BASIS OF PAYMENT

Subsection 630.19, first and second paragraphs shall be deleted and replaced with the following:

Payment for Construction Traffic Control necessary to complete the work shall be full compensation for furnishing, erecting, cleaning, maintaining, resetting, repairing, replacing, moving, removing, and disposing of the construction traffic control devices. All construction traffic control devices that are not permanently incorporated into the project will remain the property of the Contractor.

Construction Traffic Control will be paid for as follows: 50 percent of the accepted amount upon first utilization, an additional 40 percent of the accepted amount when 75 percent of the original contract amount has been earned, and the final 10 percent when the project has been completed per subsection 105.21, exclusive of any maintenance periods. The percent of original contract amount earned will be determined by comparing the amount earned for bid items, other than Construction Traffic Control and Mobilization, with the original contract amount minus the Lump Sum amounts bid for Construction Traffic Control and Mobilization.

Pay Item	Pay Unit
Flagging	Hour
Construction Traffic Control	Lump Sum
Traffic Control Inspection	Day
Traffic Control Management	Day

**REVISION OF SECTION 630
PORTABLE MESSAGE SIGN PANEL**

Section 630 of the Standard Specifications is hereby revised for this project as follows:

Subsection 630.01 shall include the following:

This work includes furnishing, operating, and maintaining a portable message sign panel.

Add **subsection 630.031** immediately following subsection 630.03 as follows:

630.031 Portable Message Sign Panel. Portable message sign panel shall be furnished as a device fully self-contained on a portable trailer, capable of being licensed for normal highway travel, and shall include leveling and stabilization jacks. The panel shall display a minimum of three - eight character lines. The panel shall be a dot-matrix type with an LED legend on a flat black background. LED signs shall have a pre-default message that activates before a power failure. The sign shall be solar powered with independent back-up battery power. The sign shall be capable of 360 degrees rotation and shall be able to be elevated to a height of at least five feet above the ground measured at the bottom of the sign. The sign shall be visible from one-half mile under both day and night conditions. The message shall be legible from a minimum of 750 feet. The sign shall automatically adjust its light source to meet the legibility requirements during the hours of darkness. The sign enclosure shall be weather tight and provide a clear polycarbonate front cover.

Solar powered message signs shall be capable of operating continuously for 10 days without any sun. All instrumentation and controls shall be contained in a lockable enclosure. The sign shall be capable of changing and displaying sign messages and other sign features such as flash rates, moving arrows, etc.

Each sign shall also conform to the following:

- (1) In addition to the onboard solar power operation with battery back-up, each sign shall be capable of operating on a hard wire, 100-110 VAC, external power source.
- (2) All electrical wiring, including connectors and switch controls necessary to enable all required sign functions shall be provided with each sign.
- (3) Each sign shall be furnished with an operating and parts manual, wiring diagrams, and trouble-shooting guide.
- (4) The portable message sign shall be capable of maintaining all required operations under Colorado mountain-winter weather conditions.
- (5) Each sign shall be furnished with an attached license plate and mounting bracket.
- (6) Each sign shall be wired with a 7-prong male electric plug for the brake light wiring system.

Subsection 630.13 shall include the following:

The portable message sign panel shall be on the project site at least seven (7) calendar days prior to the start of active roadway construction. Maintenance, storage, operation, relocation to different sites during the project, and all repairs of portable message sign panels shall be the responsibility of the Contractor.

METHOD OF MEASUREMENT

Portable message sign panels will be measured by the maximum number of approved units in use on the project at any one time.

BASIS OF PAYMENT

Subsection 630.19 shall include the following:

Pay Item	Pay Unit
Portable Message Sign Panel	Each

**REVISION OF SECTION 702
BITUMINOUS MATERIALS**

Section 702 of the Standard Specifications is hereby revised for this project as follows:

Delete Table 702.01 and replace it with Table 2.06 from Section 2 of the *Pikes Peak Region Asphalt Paving Specifications*.

**TABLE 2.06
PROPERTIES OF PERFORMANCE GRADED BINDERS**

Property	PG Graded Binder Requirements				AASHTO Test No.
	58-28	64-22	64-28	76-28 ¹	
Original Binder Properties					
Flash Point Temperature, °C, minimum	230	230	230	230	T 48
Viscosity at 135 °C, Pa·s, maximum	3	3	3	3	T 316
Dynamic Shear, Temperature °C, where G*/Sin @ 10 rad/sec ≥ 1.00 kPa	58	64	64	76	T315
Ductility, 4°C (5cm/min) cm, minimum			50		T 51
Toughness, joules, minimum			12.4		CP L-2210 ²
Tenacity, joules, minimum			8.5		CP L-2210 ²
RTFO Residue Properties AASHTO T 240					
Mass Loss, percent maximum	1	1	1	1	T 240 CPL 2215
Dynamic Shear, Temperature °C where G*/Sin @ 10 rads ≥ 2.20 kPa	58	64	64	76	T315
Elastic Recovery, 25 °C, percent minimum				50	T-301
Ductility, 4 °C (5 cm/min) cm, minimum			20		T 51
Pressure Aging Vessel Residue Properties, Aging Temperature 100 °C AASHTO R28					
Dynamic Shear, Temperature °C where G*/Sin @ 10 rads ≤ 5000 kPa	19	25	22	28	T315
Creep Stiffness, @ 60 s, test Temp. in °C	-18	-12	-18	-18	T-313
S, maximum, MPa	300	300	300	300	T313
m-value, minimum	0.3	0.3	0.3	0.3	T313

¹ Special grades used for unique loading or climate conditions. ² CDOT Test Method.

**REVISION OF SECTION 703
AGGREGATES**

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

Subsection 703.03 shall be revised to include:

Aggregate Base Course (Special) shall meet the following gradation and plasticity index:

<u>Sieve Size</u>	<u>Percent Passing</u> <u>AASHTO E/F</u>
1" (25 mm)	100 / 100
No. 4 (4.50 mm)	55-100 / 70-100
No. 10 (2.00 mm)	40-100 / 55-100
No. 40 (0.425 mm)	20-50 / 30-70
No. 200 (0.075 mm)	6-20 / 8-25

Plasticity Index

2-6

Subsection 703.04 shall be deleted and replaced with applicable sections of the *Pikes Peak Region Asphalt Paving Specifications*.

Subsection 703.06 shall be deleted and replaced with applicable sections of the *Pikes Peak Region Asphalt Paving Specifications*.

**REVISION OF SECTION 712
MISCELLANEOUS**

Section 711 of the Standard Specifications is hereby revised for this project as follows:

Subsection 712.03 shall be deleted and replaced with applicable sections of the *Pikes Peak Region Asphalt Paving Specifications*.

**FORCE ACCOUNT ITEMS
DESCRIPTION**

This special provision contains the Department's estimate for force account items included in the Contract. The estimated amounts marked with an asterisk will be added to the total bid to determine the amount of the performance and payment bonds. Force Account Work shall be performed as directed by the Engineer.

BASIS OF PAYMENT

Payment will be made in accordance with subsection 109.04. Payment will constitute full compensation for all Work necessary to complete the item.

Force account Work valued at \$5,000 or less, that must be performed by a licensed journeyman to comply with federal, state, or local codes, may be paid for after receipt of an itemized statement endorsed by the Contractor.

<u>Force Account Item</u>	<u>Estimated Quantity</u>	<u>Amount</u>
F/A Minor Contract Revisions	F.A.	\$40,000
F/A Erosion Control	F.A.	\$5,000
F/A Stabilization	F.A.	\$5,000

F/A Minor Contract Revisions – Consists of minor work authorized and approved by the Engineer, which is not included in the contract plans or specifications, and is necessary to accomplish the scope of work of this contract.

F/A Erosion Control – Supplemental erosion control measures approved by the Engineer, but not provided for in the contract plans or specifications. All items shall be approved by the Engineer prior to installation or they will be at no cost to the Project.

F/A Stabilization - Supplemental erosion control measures required after substantial completion and approved by the Engineer. All items shall be approved by the Engineer prior to installation or they will be at no cost to the Project.

UTILITIES

The known utilities within the limits of this project are:

UTILITY		CONTACT/EMAIL	PHONE/FAX
Black Hills Energy (BHE) (Natural Gas)	10 Primrose St., P.O. Box 668 Palmer Lake, CO 80133	Richie Bailey richie.bailey@blackhillscorp.com	Office: 719-728-9700
Lumen (Formerly CenturyLink/Level 3) (Telephone & Fiber Optic)	7925 Industry Rd., Colorado Springs, CO 80939	Kody Enoch Kody.Enoch@lumen.com Larry D Gurule Larry.Gurule@lumen.com	Cell: 719-352-1285 Cell: 719-369-6259
Mountain View Electric Assoc (MVEA) (Electric)	11140 E. Woodmen Rd. Falcon, CO 80831	Les Ulfers (Systems Eng) les.u@mvea.coop	Office: 719-494-2682
Zayo (Fiber Optic)	1805 29th Street Unit 2050 Boulder, CO 80301	James Black JamesR.Black@zayo.com	Cell: 719.216.8508

The location of utility facilities as shown on the plan and profile sheets, and herein described, were obtained from the best available information.

The work described in the plans and specifications requires full cooperation between the Contractor and the utility owners and their contractors 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.

All costs incidental to the foregoing requirements and as described below will not be paid for separately but shall be included in the work, unless otherwise noted within this specification.

PART 1 - CONTRACTOR SHALL PERFORM THE WORK LISTED BELOW:

General Requirements:

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. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at phone no. **811**, to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective owner. Utility service laterals shall also be located prior to beginning excavation or grading.

In accordance with the plans and specifications, and as directed by the Engineer, the Contractor shall keep each utility owner advised of any work being done near its facility. The Contractor shall coordinate the work with the utility owners impacted by the work. Coordination with utility owners includes, but is not limited to, preconstruction meeting(s), progress meetings, providing and periodically updating an accurate construction schedule which includes all utility work elements, providing written notification of upcoming required utility work elements as the construction schedule indicates, allowing the expected number of working days for utilities to complete necessary relocation work, conducting necessary utility coordination meetings, and all other necessary accommodations as directed by the Project Engineer.

Prior to excavating or performing any earthwork operations, the Contractor shall positively locate all potential conflicts with existing underground utilities due to proposed construction, as determined by the Contractor according to proposed methods and schedule of construction. The Contractor shall identify all existing utilities (by potholing if necessary) and protect in place when constructing the project. If existing utilities are within close proximity horizontally or vertically, the Contractor shall alter the excavation work limits, construction methods, or equipment to protect and avoid impacting existing utilities. As needed, the Contractor shall suggest modifications to construction plans to avoid existing underground facilities, for approval by the Engineer. The Contractor shall protect in-place all utility infrastructure. Any damage to existing utility infrastructure due to the Contractor's construction activities will be repaired at the Contractor's cost.

The Contractor shall coordinate Pre-Construction meetings with the Engineer and each utility owner or utility owner's representative at least 14 days prior to beginning construction. Utility owners and/or representatives shall be notified at least seven (7) days prior to the meeting.

The Contractor shall establish finished grade and provide marking/staking necessary for utilities to complete the work. The Contractor shall be responsible for staking construction features and performing preparatory work specified in Part 2 for each utility work element. However, surveying and/or staking of utility relocations to be performed by the utility owner shall be the responsibility of the utility owner.

The Contractor shall coordinate project construction with the performance by the utility owner of each utility work element listed in Part 2 below and shall work with utility owners to identify required work elements, traffic control, and to verify schedules. No added time will be granted to the construction schedule unless approved by the Engineer.

The Contractor shall provide traffic control for any utility work expected to be coordinated with construction, as directed by the Engineer. However, traffic control for utility work outside of typical project work hours shall be the responsibility of the utility owner.

Provide erosion control for any utility work by the utility owner expected to be coordinated with construction. Erosion control for utility work outside of typical project work hours or current phase of construction shall be the responsibility of the utility owner. Utility owner, in coordination with the Contractor, shall provide erosion control plans/specifications to the Engineer and shall not proceed with utility work until the Contractor and the Engineer have approved utility owner's erosion control plan and measures.

CenturyLink / Lumen Technologies:

Portions of existing CenturyLink infrastructure will be relocated by CenturyLink forces to accommodate proposed construction on the east side of Silverton Road from Old North Gate Rd to Summit Dr. CenturyLink may choose to bore a new line or relocate vertically only.

If CenturyLink chooses to relocate the lines vertically only, the Contractor will expose the lines for CenturyLink, and CenturyLink forces shall over excavate the lines as required. All required work for the supporting, relocating, and/or adjustment of CenturyLink infrastructure will be completed by CenturyLink forces.

As specified in Part 2, CenturyLink forces shall relocate CenturyLink owned pedestals to accommodate finished grade.

When relocation work is complete, CenturyLink may choose to retire and abandon existing telephone lines and/or conduits in place within the portions of the project area. The Contractor shall confirm with CenturyLink representatives that existing telephone lines and/or conduits have been abandoned prior to performing any removal of existing telephone facilities necessary to complete proposed improvements. All telephone lines and conduits removed by the Contractor will become the property of the Contractor. Removal of abandoned telephone lines and/or conduit that impact construction shall be completed by the Contractor and shall be included in the cost of the work.

Black Hills Energy (BHE) - Gas Operations:

The Contractor should be aware that existing BHE gas lines on the west side of Silverton Road are likely asbestos coated steel pipe. The Contractor shall follow all requirements described in Section 250 – Environmental Health and Safety Management regarding asbestos materials.

The Contractor shall pothole and/or expose the gas line prior to excavation for the culvert on the northwest corner of Silverton Rd and Old North Gate Rd. Relocation is not anticipated in the area of culvert construction, and the Contractor shall coordinate with BHE forces to protect the gas line in place.

If required, BHE forces shall work with the Contractor to protect, support, adjust, and/or relocate in place existing gas infrastructure as necessary to facilitate culvert construction. The Contractor will expose the lines for BHE. BHE forces shall over excavate the lines to relocate the existing gas lines so the culvert can be installed. All required work for the supporting, relocating, and/or adjustment of BHE infrastructure will be completed by BHE forces.

The Contractor shall coordinate with BHE forces to verify the locations of existing gas service lines. Known gas service lines within the project limits are noted in the plans and include but are not limited to East EoR HCL Station 13+43.37 and West EoR HCL Station 121+80. BHE forces shall relocate all service lines and meters in conflict with proposed improvements during construction. All required work for the relocation of existing gas services and meters will be completed by BHE forces.

Zayo:

The Contractor will pothole and/or expose the fiber optic line prior to excavation for the culvert on the northwest corner of Silverton Rd and Old North Gate Rd. Relocation is not anticipated, and the Contractor shall coordinate with Zayo forces to protect in place the fiber optic line in the area of culvert construction.

The Contractor shall protect the at-grade cabinet located on the southwest corner of Silverton Rd and Summit Dr.

Mountain View Electric Association (MVEA):

When the Contractor is working near underground or overhead electric distribution line, it shall be assumed the distribution line is energized and the Contractor shall not be closer than ten feet (10') in any direction from the energized conductors. If work will be within ten feet (10') of energized conductors, the Contractor shall contact MVEA representative a minimum of thirty (30) days in advance to arrange for an outage. An outage will be arranged if it is determined to be necessary. The outage will be a day-by-day situation. Typically, there is a fee charged when an electrical outage is required.

Impacts to and relocations of MVEA infrastructure are not anticipated for this project. The Contractor shall protect in-place all existing MVEA infrastructure, including but not limited to underground and overhead electric lines, poles, and guy wires, as noted in the plans.

PART 2 - UTILITY OWNERS SHALL PERFORM THE WORK LISTED BELOW:

Attend Project Pre-Construction meeting(s), Weekly Progress Meetings, and Utility Coordination meeting(s) as applicable with a minimum 14 days' notice of meeting location and time.

The construction scheduled shall be determined and agreed upon between Utility Owners / representatives and the Contractor. Utility Owners / representatives shall coordinate all work with the Contractor.

Utility forces shall work with the Contractor to protect, support, and/or adjust in place existing conduits/cables as necessary and as applicable to facilitate improvements.

Although the Contractor shall provide Method of Handling Traffic (MHT) and traffic control for utility work expected to be coordinated with construction, traffic control for utility work outside of typical project work hours and/or current phase shall be the responsibility of the utility owner. The utility owners/representatives, in coordination with the Contractor, shall prepare and submit to the Engineer a Method of Handling Traffic Plan for utility work to be performed outside typical project work hours and/or current project phase. The utility owner/representatives shall obtain acceptance of the Method of Handling Traffic Plan from the Engineer and the Contractor prior to beginning the utility work to be performed outside typical project work hours and/or project phase.

CenturyLink / Lumen Technologies:

CenturyLink forces will relocate *in coordination with the project construction*. CenturyLink shall coordinate all work with the Contractor and coordinate their work with all other utility owners within the corridor.

Portions of existing CenturyLink telephone infrastructure will be relocated by CenturyLink forces, including but not limited to underground telephone lines, service lines and pedestals to accommodate proposed construction on the east side of Silverton Road from Old North Gate Rd to Summit Dr. CenturyLink may choose to bore a new line or relocate vertically only. This work is anticipated to take 15 working days.

If CenturyLink chooses to relocate the lines vertically only, the Contractor will expose the lines for CenturyLink, and CenturyLink forces shall over excavate the lines as required. All required work for the supporting, relocating, and/or adjustment of CenturyLink infrastructure will be completed by CenturyLink forces.

CenturyLink forces shall relocate all pedestals associated with their system to accommodate proposed construction.

When relocation work is complete, CenturyLink may choose to retire and abandon existing telephone lines and/or conduits in place within the portions of the project area. As needed to complete the work, the Contractor is free to remove abandoned underground conduits that may impact construction.

Any additional conflict with CenturyLink infrastructure found during construction will be relocated, adjusted, and/or modified by CenturyLink forces. If additional conflicts are found during construction,

the Contractor shall assume that CenturyLink forces will relocate their facility in a minimum of 15 working days from notice of the conflict.

Black Hills Energy (BHE) - Gas Operations

BHE forces will relocate *in coordination with the project construction*. BHE shall coordinate all work with the Contractor and coordinate their work with all other utility owners within the corridor.

BHE forces shall coordinate with the Contractor to verify the locations of existing gas service lines. BHE forces shall relocate all service lines and meters in conflict with proposed improvements within 15 working days. All required work for the relocation of existing gas services will be completed by BHE forces.

Once relocation work has been completed, BHE may retire and abandon existing gas service lines in place within the project area. The Contractor shall confirm with BHE representatives that existing gas service lines have been abandoned prior to performing any removal of existing gas facilities necessary to complete proposed improvements.

If additional conflicts are found during construction, the Contractor shall assume that BHE forces will relocate their facility in a minimum of 30 calendar days from notice of the conflict.

Zayo:

No conflicts are anticipated. Any conflict with Zayo infrastructure found during construction that is deemed to require relocation, adjustment and/or modification will be relocated, adjusted, and/or modified by Zayo forces. If conflicts are found during construction, the Contractor shall assume that Zayo forces will address their facility within 30 calendar days from notice of the conflict.

Mountain View Electric Association (MVEA):

No conflicts are anticipated. Any conflict with MVEA infrastructure found during construction that is deemed to require relocation, adjustment and/or modification will be relocated, adjusted, and/or modified by MVEA forces. If conflicts are found during construction, the Contractor shall assume that MVEA forces will address their facility in a minimum of 30 working days from notice of the conflict.