

**MONUMENT ACADEMY BUILDING CORPORATION  
MONUMENT ACADEMY RECIRCULATION PLAN**

**STANDARD CONSTRUCTION SPECIFICATIONS**

The Standard Specifications for Construction for this Project shall consist of the applicable sections and subsections of the 2021 "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 2021 by the Colorado Department of Transportation, which is to be used to control construction of this Project.

The Pikes Peak Region Asphalt Specifications 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>

**STANDARD CONSTRUCTION DETAILS**

It is the intent of the Monument Academy Building Corporation (MABC) to use applicable details from the Colorado Department of Transportation M&S Standards (2019).

The Colorado Department of Transportation (CDOT) Special Provisions, Standard Special Provisions are to be used for the project. Use Project Special Provisions that revise the above described documents and prevail over above described documents.

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The Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction, dated 2021, controls construction of this project. The following Special Provisions supplement or modify the Standard Specifications and take precedence over the Standard Specifications and Plans.

**PROJECT SPECIAL PROVISIONS**

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**CDOT STANDARD SPECIAL PROVISIONS**

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Revision of Section 207 - Topsoil	(October 1, 2021)	6
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## **COMMENCEMENT AND COMPLETION OF WORK**

The Contractor shall commence work under the Contract upon receipt of the "Notice to Proceed."

The first NTP will be upon contract award to allow the Contractor to obtain other required permits, begin the wall design, begin acquisition of materials, and any other pre-construction activities that the Contractor requests and is approved by MABC. The second NTP will be for construction activities to begin and will be issued when the Project has been permitted. A third NTP will be issued for Phase 2 once El Paso County and Highway 105 contractor agree that the retaining wall associated with the Highway 105 project is sufficiently completed to begin Phase 2 construction.

The construction contract is a working day contract with a milestone requirement. Construction of Phase 1 (back of school roadway) shall be completed in fifty (50) working days following the second NTP. Construction of Phase 2 (front of school roadway) shall be completed in fifty (50) workable working days.

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

**Subsection 108.03** shall include the following:

The Contractor's progress schedule shall be a Critical Path Method.

Salient features for each Phase to be shown on the Contractor's Progress Schedule are:

1. Notice to Proceeds
2. Mobilizations
3. Erosion and Sediment Control
4. Construction Surveying
5. Clearing and Grubbing
6. Remove or Relocate Trees
7. Earthwork
8. Installation of Retaining Wall
9. Installation of Riprap and Boulders
10. Curb and Gutter, Curb Ramps
11. Sidewalks
12. Hot Mix Asphalt
13. Final Grading
14. Signing and Striping
15. Topsoil, Seeding and Blankets
16. Punch List

**REVISION OF SECTION 101  
DEFINITION AND TERMS**

**Section 101.02** of the Standard Specifications is hereby revised for this project as follows:

Technical Specifications related to construction materials and methods for the Work under this Contract shall consist of the *State of Colorado, Standard Specifications for Road and Bridge Construction* dated 2021.

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

**“CDOT Resident Engineer”** shall mean the Monument Academy Building Corporation (MABC) or designated representative.

**“Department”** shall mean the MABC or El Paso County, Colorado, Department of Public Works, where applicable.

**“Engineer”** shall mean the MABC or designated representative.

**“Laboratory”** shall mean MABC or designated representative.

**“Project Engineer”** shall mean the MABC or designated representative.

**“Regional Transportation Director”** shall mean the MABC or designated representative.

**“State”** shall mean El Paso County, Colorado (where applicable).

**REVISION OF SECTION 105  
CONTRACTOR SUBMITTALS**

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

Table 105-1 shall include the following:

Section No.	Description	Type	Contractor P.E. Seal Required?
504	Block Facing	Working Drawing	Yes

**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 construction agencies 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 will decide the method of resolution.



**REVISION OF SECTION 107  
PERMITS LICENSES, AND TAXES**

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

**Subsection 107.02** shall include the following:

Permits, licenses, and taxes shall include, but not be limited to, those required by the El Paso County, the State of Colorado, and any as listed in the contract requirements.

The following permits shall be obtained by the Contractor:

<u>Permit</u>	<u>Issuing Agency</u>
Construction Activity Permit	El Paso County Health Department
COR400000 Stormwater Discharge Permit	Colorado Department of Health and Environment (CDPHE)
**Erosion and Stormwater Quality Control Permit (ESQCP)	El Paso County Dept. of Public Works (EPC DPW)
Dewatering Permit (as required)	CDPHE

**\*\*To obtain the ESQCP, the Contractor must complete and submit the following to EPC DPW:**

- ESQCP Application
- Signed SWMP Checklist
- SWMP (draft is included in the construction plans as attachment to the IFB)
- Spill Prevention and Response Plan (part of the SWMP)

**\*\*The following will be provided by the Engineer of Record (EOR) and must be submitted to EPC DPW by the Contractor with the ESQCP Application:**

- Drainage Memo (also included as attachment to the IFB)
- Signed PBMP Applicability Form
- Signed GEC Plans (also in the construction plans as attachment to the IFB)
- Signed GEC Checklist

**REVISION OF SECTION 107  
STORMWATER CONSTRUCTION PERMIT**

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

**Delete subsection 107.25 (c) and replace with the following:**

(c) *Stormwater Construction Permits.* A Colorado Discharge Permit System Construction Stormwater Discharge Permit (CDPS-SDP) will be obtained from CDPHE by the General Contractor. The Contractor shall coordinate with El Paso County (EPC) to become the Operator permittee of the permit upon award of the Contract.

An Erosion & Stormwater Quality Control Permit (ESQCP) will be obtained from El Paso County by the General Contractor. A Stormwater Management Plan (SWMP) and, SWMP Checklist (provided by the Contractor) and Grading and Erosion Control (GEC) Plan, GEC Checklist, PBMP Applicability Form, and Drainage Report/Letter (if applicable) (provided by the Engineer of Record and included in the IFB package) are required to be submitted to EPC for review at least ten (10) calendar days prior to requested issuing of the ESQCP. EPC will not certify the project as Owner for the CDPS-SDP until the ESQCP is issued by the County.

No Work shall begin until the CDPS-SDP permit with Owner and Operator has been approved by CDPHE. A copy of the permit shall be placed in the project SWMP.

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, concrete or asphalt plant sites, waste disposal sites, or other facilities. Staging areas within a quarter mile, but not within EPC right of way shall be considered a common plan of development and permits for these facilities require permitting in the Contractor's name as Owner and Operator. These permits include local agency, federal, or other stormwater permits. The Contractor shall consult with the Engineer and contact the CDPHE or other appropriate federal, state, or local agency to determine the need for any permit.

To initiate final acceptance of the stormwater construction Work (including seeding and planting required for erosion control), the Contractor shall request in writing, a Stormwater Completion Walkthrough. The Engineer will set up the walkthrough. It will include the Engineer or designated representative, EPC Stormwater Inspector, Superintendent or designated representative, Stormwater Management Plan (SWMP) Administrator, and an EPC Maintenance representative. Unsatisfactory and incomplete stormwater and sediment/erosion control Work will be identified in this walkthrough and will be summarized by the Engineer in a punch list.

The completed action items associated with the corrective Work will be shown as completed on the punch list. Upon completion of all items shown, the Contractor shall notify the Engineer. Upon written agreement that the punch list is completed from the Engineer, the Contractor shall submit a written request to EPC to terminate the ESQCP. Upon termination of the ESQCP, the Contractor

shall request to terminate the CDPHE CDPS-SDP.

Until termination of the ESQCP has been approved by EPC and termination of the CDPS-SDP has been approved by the CDPHE, the Contractor shall continue to adhere to all permit requirements. Requirements shall include erosion control inspections, control measure installation, control measure maintenance, control measure repair including seeded areas, and temporary control measure removal. All documentation shall be submitted to the Engineer and placed in the SWMP.

All costs associated with the Contractor applying for, holding, and terminating the ESQCP and CDPS-SDP will not be measured and paid for separately but shall be included in the Work in accordance with subsection 107.02.

**REVISION OF SECTION 108  
PROSECUTION AND PROGRESS**

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

**Subsection 108.03** shall include the following:

For Phase 1, the daily working hours are Monday thru Sunday, during daylight hours only or between 7:00 AM and 7:00 PM, whichever is more strict, unless otherwise approved by MABC. Work on the weekends is anticipated to meet Project deadlines. School begins on August 17<sup>th</sup>, 2022. To accommodate, the Contractor shall complete the back of school retaining walls and pave the roadway so that the Phase 1 back roadway is fully functional for school traffic by August 15<sup>th</sup>, 2022. The Contractor may provide a proposal for construction of a temporary roadway to MABC for consideration to meet this requirement.

For Phase 2, the daily working hours are Monday thru Friday, during daylight hours only or between 7:00 AM and 7:00 PM, whichever is stricter, unless otherwise approved by MABC. Work on the weekends for Phase 2 must be pre-approved at least two days in advance of the requested weekend work.

A 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 these 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.

**REVISION OF SECTION 202  
REMOVAL AND RELOCATION 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 and the relocation of trees as shown on the construction plans and as directed by the Project Engineer. This work includes the preservation from injury or defacement of all vegetation and objects designated to remain.

The Project Engineer will establish environmental limits. All trees, shrubs, plants, grasses, and other vegetative materials shall remain, except as designated by the limits of construction shown on the GEC/SWMP or as directed by the Project Engineer.

Relocation of the trees shall be done by a Contractor or subcontractor. A written description of work methods, new tree location and time schedules shall be submitted and approved in writing by the Project Engineer prior to work commencing.

Access for the removal or relocation of trees will be limited. Trees shall be felled at the risk of the Contractor. Limits of disturbance will be delineated with plastic fence and shall be adhered to.

All removed vegetation shall become the property of the contractor and shall be hauled away and disposed of by the Contractor. Stumps shall be left no higher than 12 inches above the ground surface and may not be removed when within the areas to be excavated. When trees being cut off are outside the excavation limits, the stumps shall be ground to 6 inches below the finished grade.

**Subsection 202.12** shall include the following:

<b>Pay Item</b>	<b>Pay Unit</b>
Removal of Tree	Each
Transplant 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. Removal of trees less than 3 inches in diameter will not be paid for separately but shall be included in the work.

All clearing and grubbing directed by the Project Engineer will be paid for by acre under the clearing and grubbing item.

**REVISION OF SECTION 202  
REMOVAL OF PIPE**

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

**Subsection 202.11** shall include the following:

Removal of Pipe will be measured by the linear foot and shall include pipe of any material and at any depth with a diameter of 6 inches or larger as specified in plans.

**Subsection 202.12** shall include the following:

Payment will be made under:

**Pay Item**

**Pay Unit**

Removal of Pipe

Linear Foot

**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:

The Contractor will mark the limits of removals in the field.

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 existing asphalt mat, which varies in thickness, shall be removed in a manner that minimizes contamination of the removed mat with underlying material. The removed mat shall become the property of the Contractor and shall be either disposed of outside the project site, or used in one or more of the following ways:

1. Recycled into the hot mix asphalt in accordance with the Pikes Peak Region Asphalt Paving Specifications Version 6.
  2. Disposed of off-site in accordance with the contract documents.
  3. Reuse on the project per the embankment specification and as approved by the Engineer.
- Additional processing of asphalt mat shall be required

**Subsection 202.07** shall be revised to include the following:

Where old asphalt construction abuts new construction, 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.

**Subsection 202.11** shall be revised to include the following:

Removal of asphalt mat will be measured by the square yard of mat to the required depth and accepted, regardless of thickness.

**Subsection 202.12** is hereby deleted and replaced as follows:

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Removal of Asphalt Mat	Square Yard

Unless otherwise specified in the Contract, the disposal of the asphalt mat or its use in other locations on the project will not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 203  
EMBANKMENT MATERIAL**

**Section 203 of the Standard Specifications is hereby revised as follows:**

**203.07            CONSTRUCTION OF EMBANKMENT AND TREATMENT OF CUT AREAS WITH  
                         MOISTURE AND DENSITY CONTROL**

**Subsection 203.07 is hereby revised to include the following:**

Contractor shall refer to Geotechnical & Pavement Design Report Highway 105 School Access Lane prepared by Shannon and Wilson for any subgrade prep and mitigation.



**REVISION OF SECTION 206  
EXCAVATION AND BACKFILL FOR CULVERTS AND PIPES**

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

**Subsection 206.07** shall include the following:

Structure excavation and structure backfill required for all pipes, pipe extensions end sections, and inlets will not be measured and paid for separately but shall be included in the work. Earthwork for pipes complete in place will not be paid for separately but shall be included in the work and excavated to the required depth and backfilled to finished grade in accordance with CDOT M Standard M-206-1 Excavation and backfill for structures.

Structure backfill material shall be Structure Backfill (Class 1) or Structure Backfill (Class 2) as designated on the plans.

## **REVISION OF SECTION 208 EROSION CONTROL**

**Section 208** of the Standard Specifications is hereby revised for this project to include the following:

**Subsection 208.01** is hereby revised to include the following:

Water quality control during construction activity shall be in accordance with Section 107.25.

This Work consists of controlling and dewatering groundwater, channel flows, and storm flows during construction, and building a temporary detour needed for crossing the creek during construction.

The Contractor shall be responsible for the project and shall take such precautions as may be necessary to construct the project in a dry condition and provide for drainage, dewatering, and control of all surface and subsurface water, and shall erect any necessary temporary structures or other facilities at their expense. The Contractor is advised that they are Working in a drainage channel subject to intermittent and potentially extensive runoff conditions, such that unless the construction area is properly protected, localized flooding and/or extensive soil erosion may occur.

The Contractor is responsible for Erosion Control and Stormwater Management for this project. An initial Grading & Erosion Control (GEC) Plan is provided in the plan set to give the Contractor guidance for bidding and conducting this Work. The Contractor is responsible for reviewing this information and preparing a site-specific Stormwater Management Plan consistent with CDPHE requirements, plan notes, and plan specifications.

The Contractor will be the Permittee of the Colorado Discharge Permit System –Construction Stormwater Discharge Permit (CDPS-SDP) during the entire period that it remains open and is also responsible for inactivation of the permit once final stabilization of the construction site has been achieved and accepted by El Paso County. No transfer of ownership or control will be permitted.

The Contractor shall provide copies of the permit application submitted to CDPHE, as well as copies of the issued permits, to El Paso County.

The Contractor shall proceed with this permit activity as soon as they deem it necessary following the Notice to Proceed. No contract delays or extensions will be granted to the Contractor for failure to implement the required SWMP plan and obtain the required state permits in a timeframe necessary to begin the Work as specified in the contract.

Prior to any ground disturbance, the Contractor shall install all initial BMP's, request an inspection of the BMP's, and receive approval from the Engineer prior to proceeding. The Engineer will coordinate the inspection. It will include the Engineer or designated representative, El Paso County Stormwater Inspector, Superintendent or designated representative, or Stormwater Management

Plan (SWMP) Administrator. Unsatisfactory and incomplete stormwater and sediment/erosion control Work will be identified in this inspection and will be summarized by the Engineer.

Once construction has been completed, the El Paso County Project Manager, Stormwater Inspector, and the Contractor will complete a walk-through of the project site. The purpose of which is to determine the areas where BMP's may be removed or maintained.

**Section 208.02** of the Standard Specifications shall include:

On-site materials meeting specifications may be used within the limits of construction to construct temporary detour roads, dams, and berms. Other materials may also be used if desired by the Contractor.

**Section 208.03** of the Standard Specifications shall include:

A. General:

A dewatering permit is required for this project. The Contractor is responsible for obtaining this permit in accordance with Revision of Section 107.

The Contractor shall develop and submit a Water Control and Dewatering Plan for approval by Engineer. The plan shall show the phasing of the construction and channel improvements, including all methods and devices (indicated in each phase) used to control water and dewatering of excavations. In addition, all temporary control devices shall also be shown on these plans.

For all Work, the Contractor shall provide suitable equipment and labor to remove water and shall keep the excavations dewatered so that construction can be carried on under dewatered conditions where required by the Drawings and Specifications. Water control shall be accomplished such that no damage is done to adjacent banks or structures. The Contractor is responsible for investigating and familiarizing themselves with all site conditions that may affect the Work including surface water, level of groundwater, and the time of year the Work is to be done. All excavations made as part of dewatering operations shall be backfilled with the same type material as was removed and compacted in accordance with Section 203 and Revisions, except where replacement by other materials is specified.

At all times outside of performing construction activities, Contractor shall not leave construction equipment and materials within or near the flow paths of surface water. Damage to the Contractor's equipment and materials will be at the Contractor's expense.

**Subsection 208.05 delete and replace with the following:**

**Construction of BMPs.** BMPs shall be constructed in accordance with the following.

- (n) Concrete Washout Structure.** The concrete washout structure shall meet or exceed the dimensions shown on the plans and be used in accordance with manufacturer's recommendations. Work on this structure shall not begin until written acceptance is provided by the Engineer. Eco-pan products or an approved equivalent are permitted on this project at the discretion of the Engineer. All product requests must be submitted to the Project Engineer for approval.
- (a) Vehicle Tracking Pad.** FOD products or an approved equivalent are permitted on this project at the discretion of the Engineer. All alternative product requests must be submitted to the Engineer for approval.

The Contractor shall maintain each vehicle tracking pad during the entire time that it is in use for the project. The vehicle tracking pad shall be removed at the completion of the project unless otherwise directed by the Engineer. Additional aggregate may be required for maintenance and will not be paid for separately but shall be included in the cost of the work.

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

**Section 209** of the Standard Specifications is hereby revised for this project as follows:

**Subsection 209.07** paragraph 1 shall be deleted and replaced with the following:

Water for moisture-density control, pre-wetting, and for dust palliatives will not be measured and paid for separately but shall be included in the cost of the work.

## **REVISION OF SECTION 211 DEWATERING**

**Section 211** is hereby added to the Standard Specifications for this project as follows:

### **DESCRIPTION**

**211.01** This Work consists of dewatering to facilitate construction activities.

### **CONSTRUCTION REQUIREMENTS**

#### **211.02**

If dewatering is anticipated or required, the Contractor shall obtain a dewatering permit prior to proceeding with dewatering activities. All dewatering activities shall meet the requirements of the permit.

Groundwater shall not be directly discharged into a storm sewer, ditch, wetlands or any Waters of the State. The Contractor shall furnish the Engineer with disposal manifest documents and any applicable concurrences or permits. Dewatering of excavations shall be conducted in a manner that avoids pollution and erosion.

The Contractor is advised to limit pumping of groundwater in all project excavations, by careful scheduling, expediting the work and use of conscientious construction methods. More specifically, the Contractor shall:

1. Minimize the disturbance of groundwater by avoidance.
2. Limit intrusion of groundwater into excavations.

### **METHOD OF MEASUREMENT AND PAYMENT**

All permitting and work related to dewatering will not be paid for separately but shall be included in the cost of the work.

## **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 (Class 6) as shown in subsection 703.03

Per Section D.5 of the El Paso County Engineering Criteria Manual, the aggregate base course (Class 6) must meet the gradation requirements and have a resistance value of at 72 when tested by the Hveem Stabilometer method. TAggregate Base Course generated from crushed reclaimed concrete or recycled asphalt must meet the materials requirements to be allowed.

**Subsection 304.06** is hereby revised to include the following:

QC Moisture/Density Testing. Tests performed by the County's representative are for quality acceptance (QA) of the processed material. Moisture and density testing required for proper processing of the material for quality control (QC) is the responsibility of the Contractor. Coordination between QC and QA testing is the responsibility of the Contractor.

**Subsection 304.07** is hereby revised to include the following:

The quantity for Aggregate Base Course (Class 6) 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 Project 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 (Class 6) 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).

**REVISION OF SECTION 401 & 403  
PLANT MIX PAVEMENTS**

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, Version 5 unless otherwise specified in these Project Special Provisions or following approval by the Engineer. The Contractor shall prepare a quality control plan outlining the steps taken to minimize segregation of HMA. This plan shall be submitted to the Engineer and approved prior to beginning the paving operations. If the Engineer determines that segregation is unacceptable, the paving shall stop, and the cause of segregation shall be corrected before paving operations will be allowed to resume.

The materials for hot mix asphalt shall conform to the requirements described in Version 5, 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.

Warm Mix Asphalt (WMA) may be allowed on this project in accordance with CP 59. Unique requirements for WMA design, production and acceptance testing shall be submitted and approved prior to any WMA production on the project. Delays to the project due to WMA submittal and review will be considered within the Contractor's control and will be non-excusable.

Subsection 403.03 shall include the following:

The construction requirements shall be as described in Version 5, 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 Contractor shall construct the Work such that all roadway pavement placed prior to the time paving operations end for the year, shall be completed to the full thickness required by the plans. The Contractor's Progress Schedule shall show the methods to be used to comply with this requirement.

Delete subsection 403.04 and replace with the following:

Hot mix asphalt will be measured as described in Version 5, 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:**

<b>Pay Item</b>	<b>Pay Unit</b>
<b>Hot Mix Asphalt (Grading SX)(75)(PG 58-28)</b>	<b>Ton</b>

**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. When the pay item includes the PG binder grade, any change to the submitted mix design optimum asphalt cement content to establish production targets will not be measured and paid for separately but shall be included in the Work. No additional compensation will be considered or paid for any additional asphalt cement, plant modifications and additional personnel required to produce the HMA as a result in a change to the mix design asphalt cement content.**

**The accepted quantities of HMA pavement shall be paid for at the contract unit price for each pavement type and/or thickness listed in the bid schedule. The price will be full compensation, furnishing all materials, preparation, mixing, placing and compaction of these materials and for all labor, equipment, tools, safety edges, and incidentals necessary to complete the Work.**

**The Contractor should anticipate the asphalt cement increases typical of their mixes. Contractors bidding the project should anticipate this change and factor it into their unit price bid.**

**REVISION OF SECTION 407  
TACK COAT AND REJUVENATING AGENT**

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

Delete **subsection 407.02** and replace it with the following:

**407.02 Bituminous Material.** The type and grade of the bituminous material used for tack coating will meet the specifications described in Version 5 of the Pikes Peak Region Asphalt Paving Specifications. The rejuvenating agent shall be accepted by the Engineer before loading into the distributor.

**Subsection 407.09** shall include the following:

Tack coat will not be measured and paid separately but paid for under APM payment item.

**REVISION OF SECTION 603  
CULVERTS AND SEWERS**

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

**Subsection 603.02** shall include the following:

Reinforced concrete pipe shall be manufactured from concrete that meets the requirements for severity of sulfate exposure Class 2 specified in subsection 601.04.

**Subsection 603.13** shall include the following:

Delete paragraph beginning "Structure excavation and backfill..." and replace with the following:

All Reinforced Concrete Pipe and end sections will be paid for as Complete-in-Place. Structure excavation, structure backfill, and bedding material will not be measured and paid for separately but shall be included in the work.

**REVISION OF SECTION 604**  
**MANHOLES, INLETS, AND METER VAULTS**

**Section 604.01** of the Standard Specifications is hereby revised for the project as follows:

Delete **subsection 604.01** and replace it with the following:

This work consists of the construction of manholes and inlets in accordance with these specifications, and in conformity with the lines and grades shown on the plans or established in the field and approved by the Engineer.

**Subsection 604.06** is hereby revised to include the following:

The quantity to be paid for inlets shall be the number of each structure constructed as shown on the Contract Plans. This will include all materials, equipment and labor required to construct the structures.

**Subsection 604.07** is hereby revised to include the following:

Payment for inlets and manholes shall include, but is not limited to: excavation, shoring, subgrade preparation, disposal of excess excavated material, furnishing and installing reinforcing steel and concrete, forming, finishing, curing, backfill and compaction, and metal fabrication and installation, including construction of the curbing behind the curb boxes / curb box beam; and extension of existing pipe to connect to the existing storm sewer system.

Payment shall be made at the applicable Contract unit price and shall include full compensation for all labor, equipment, materials, and all other appurtenant items to complete the work.

**SECTION 607  
FENCE CHAIN LINK**

**Section 607** shall be revised to include the following:

**BASIS OF PAYMENT**

**Subsection 607.05** shall be revised to include the following:

<b>Pay Item</b>	<b>Pay Unit</b>
Fence Chain Link (48 inch)	LF

**REVISION OF SECTION 609  
CURB AND GUTTER**

**Section 609** of the Standard Specifications is hereby revised for this project as follows:

**Subsection 609.03** shall include the following:

Expansion joints shall be installed at a maximum of 100 foot intervals and shall be sealed with an epoxy sealant. Materials for sealing and for filling all joints including premolded expansion joints shall be rubber asphalt Type TT seal. Sealing material shall be applied in strict accordance with the manufacturer's directions.

**Subsection 609.07** shall include the following:

Expansion joints will not be measured and paid for separately but shall be included in the cost of the work.

**609.07 Basis of Payment will include**

<b>Pay item</b>	<b>Pay Unit</b>
Curb and Gutter – Type B	Linear Foot
Curb and Gutter – Type B W/ 2' Gutter	Linear Foot
Curb and Gutter – Type C	Linear Foot
Curb and Gutter – Type C (Spec.)	Linear Foot

All work and material needed for the construction of the pay items above be included in pay items.

**REVISION OF SECTION 609**  
**Gutter (Special)**

**Section 609** of the Standard Specifications is hereby revised to include for this project as follows:

**609.01** Shall include the Gutter (special) for the gutter pans to be placed along the top of walls.

**609.02 Materials Shall be revised to include:**

609-2300 shall be concrete Class B

**609.07 Basis of Payment will include**

<b>Pay item</b>	<b>Pay Unit</b>
1.5' Concrete Wall Drainage Gutter	Linear Foot
2' Concrete Valley Pan	Linear Foot
6' Concrete Valley Pan	Linear Foot

All work and material needed for the construction of the pay items above be included in pay items.

## **REVISION OF SECTION 613 LIGHTING**

**Revised Section 613 of the Standard Specifications is hereby deleted for this project and replaced with the following:**

### **METHOD OF MEASUREMENT**

**613.07** Concrete Foundation Pads and Light Standard Foundations will be measured by the actual number installed and accepted.

Lighting control centers will be measured by the number of centers installed.

Meter power pedestals will be measured by the number of pedestals installed.

Secondary service pedestals will be measured by the number of pedestals installed.

Heavy Duty Safety Switch will be measured by the number of switches installed.

Conduit will be measured by the linear foot in place.

All wiring necessary for the complete installation will be measured as a single lump sum.

Pull/ splice boxes will be measured by number of boxes installed.

Temporary lighting shall include the temporary light standards, luminaires, mast arms, temporary conduit, temporary wiring, and all other equipment necessary for the complete installation and accepted.

### **BASIS OF PAYMENT**

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

<b>Pay Item</b>	<b>Pay Unit</b>
1-1/4 Inch Electrical Conduit	Linear Feet
Pull Box (Special)	Each
Conductor AWOG No 10	Linear Feet
Conductor AWOG No 12	Linear Feet
High Efficacy Led Luminaire	Each
Luminaire Pole Type 1	Each
Wiring	Lump Sum
Light Standard Foundation	Each

When the Contractor, at their option, installs larger conduit than specified, it will be paid for at the original contract price for the size specified.

The following items will not be measured and paid for separately, but shall be included in the work:



- (1) Soil testing for foundations
- (2) Pull wire, weatherheads, adaptors, and expansion joints for conduit
- (3) Electrical conductor pull tape in new conduit.
- (4) Additional pull or splice boxes installed at the Contractor's option
- (5) Saw cutting; trenching; excavation; backfill; jacking; drilling pits; underground electrical warning tape; removal of pavement, sidewalks, gutters, and curbs and their replacement in kind to match existing grade; and all other work necessary to complete conduit installation
- (6) Electrical conductor tagging
- (7) Direct burial cable in conduit
- (8) Testing of the lighting installation, including temporary power and all required cable connections

The lump sum price bid for wiring will be full compensation for all electrical circuitry necessary to complete the installation as shown on the plans. All conductors in conduit, regardless of type, are part of the wiring item and will not be measured and paid for separately.

**REVISION OF SECTION 614  
TRAFFIC CONTROL DEVICES**

**Section 625 of the standard specifications is hereby revised as follows:**

**Delete section 614.02 Sign Posts and Sign Structures and replace with the following:**

All sign posts shall be installed with 2" Telespar Square Perforated Sign Posts, 14 gauge, or approved equal. The contractor shall follow the manufacturer specification for installation of sign posts.

## **REVISION OF SECTION 625 CONSTRUCTION SURVEYING**

**Section 625 of the standard specifications is hereby revised as follows:**

### **CONSTRUCTION REQUIREMENTS**

**625.03** The Contractor shall check and verify all established Primary horizontal and vertical control points.

All survey records generated shall be the property of the MABC and shall be available to the MABC for inspection or reproduction at all times. All survey records shall be transmitted to the MABC for inclusion into the project records before final project acceptance.

**625.04** Contractor Surveying. The Contractor's PLS shall perform all construction surveying and staking that is necessary for construction of the project. 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.

**625.05** Staking. It is the responsibility of the Contractor's PLS to adhere to industry standards and acceptable practices in regard to staking. Staking shall be determined by the Contractor to meet the requirements to complete the work. 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. All existing survey monuments and property corners located inside and outside of the Project limits, as defined on the Plans that are damaged or destroyed by the Contractor shall be replaced at the Contractor's expense.

**625.06** Accuracy and Tolerances. It is the responsibility of the Contractor's PLS to adhere to industry standards and applicable standards with regard to horizontal and vertical accuracy tolerances.

**625.07** Responsibility and Inspection. Supervision and coordination of construction surveying and staking is the Contractor's responsibility. The City Surveyor's Office or Engineer may inspect the Contractor's surveying; however such inspection will not relieve the Contractor of any responsibility for accuracy or completeness of work. All Contractor surveying inaccuracies, errors, or omissions shall be corrected at the Contractor's expense.

**625.08** Reset Monuments and Stakes. Survey monuments, benchmarks, and other significant stakes that are damaged, destroyed, or made inaccessible by the progress of construction shall be replaced, transferred or reestablished at the Contractor's expense.

Locating, preserving, referencing, installing and restoring land monuments as described in 625.01, shall be done in accordance with Section 629, under the supervision of a PLS who is experienced and competent in Right of Way and boundary surveying and licensed in the State of Colorado.

**629.09** Changes. All changes in lines and grades required by field conditions and all discrepancies in grades, alignment, location or dimensions detected by the Contractor shall be immediately submitted to the Engineer in writing. No changes in given data or plans will be allowed unless approved by the Engineer in writing. All changes shall be documented by the contractor.

**629.10** Pay Quantities Measurements. The Engineer will perform all interim and final measurements deemed necessary by the City to determine contract pay quantities. The Contractor shall establish and maintain Control points and stationing as required for these measurements.

**629.11** Survey Records. Survey records shall be completed as the work is done. Field survey notes for construction surveying and checking by the Contractor shall be recorded in survey records in conformance with industry standards and acceptable practices.

All survey records generated shall be the property of the City and shall be available to the City Surveyor's Office or the Engineer for inspection or reproduction at all times. All survey records shall be transmitted to the City Surveyor's Office for inclusion into the project records before final project acceptance. All survey records shall be stamped with the seal of, and signed by, the responsible PLS.

Electronic submittal of survey records may be acceptable, please coordinate with the City Surveyor's Office.

## **METHOD OF MEASUREMENT**

**625.13** Construction surveying will not be measured but will be paid as a fixed percentage of the construction items on each task order – (allowances).

## **BASIS OF PAYMENT**

**625.14** Payment for construction surveying will be a lump sum payment that is based on a percentage as set forth in the Allowance Section for construction surveying. Payment will be full compensation for all surveying work necessary to complete the project to include all resetting of stakes, marks, monuments and preparing survey documentation as required.

Partial payment for construction surveying, as determined by the Engineer, will be made as the work progresses.

Traffic control for construction surveying will not be paid for separately but shall be included in the Lump Sum cost.

**REVISION OF SECTION 626  
MOBILIZATION**

**Section 626** of the Standard Specifications is hereby revised as follows:

**Subsection 626.01** is hereby revised to include the following:

Multiple mobilizations may be required for several items including, but not limited to, the structures, excavation, backfill, grading, topsoil, seeding, concrete, paving and erosion control. Mobilization is to be paid as one lump sum item for the entire Project. The Contractor shall not be paid separately for individual mobilizations required during the Project but shall include all mobilizations required for the Project in this one item. This item also includes demobilization of all equipment and supplies from the Project site.

**REVISION OF SECTION 627  
PAVEMENT MARKING**

**Section 627** of the Standard Specifications is revised as follows:

**Subsection 627.03** is revised to include the following:

The Contractor shall replace permanent pavement markings damaged or removed as a result of the work. Pavement marking material shall be new material of the same type which existed prior to the work commencing.

**Subsection 627.13** shall include the following:

<b>Pay Item</b>	<b>Pay Unit</b>
Pavement Marking Paint	Gallon

**REVISION OF SECTION 702  
BITUMINOUS MATERIALS**

**Section 702 of the Standard Specifications is revised as follows:**

**Delete Table 702.01 and replace it with Table 2.05 from Version 5, Section 2 of the Pikes Peak Region Asphalt Paving Specifications.**

**TABLE 2.05 - PROPERTIES OF PERFORMANCE GRADED BINDERS**

Property	PG Graded Binder Requirements				AASHTO Test No.
	58-28	64-22	64-28	76-28 <sup>1</sup>	
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 <sup>2</sup>
Tenacity, joules, minimum			8.5		CP L-2210 <sup>2</sup>
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

<sup>1</sup> Special grades used for unique loading or climate conditions.

<sup>2</sup> CDOT Test Method.

**REVISION OF SECTION 703  
AGGREGATES**

**Section 703 of the Standard Specifications is revised as follows:**

Delete Subsection 703.04 and replace it with Version 6 of the Pikes Peak Region Asphalt Paving Specifications.

Delete Subsection 703.06 and replace it with Version 6 of the Pikes Peak Region Asphalt Paving Specifications.



**REVISION OF SECTION 712  
MISCELLANEOUS**

**Section 712 of the Standard Specifications is revised as follows:**

Delete Subsection 712.03 and replace it with Version 5 of the Pikes Peak Region Asphalt Paving Specifications.

## FORCE ACCOUNT ITEMS DESCRIPTION

This Special Provision contains the City of Colorado Springs estimate for Force Account Items included in the Contract. The estimated amounts 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 in order 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	\$150,000
F/A Temporary Road	F/A	\$200,000
F/A Erosion Control	F/A	\$5,000
F/A Re-establish Trail	F/A	\$5,000
F/A Landscaping and Landscape Preservation	F/A	\$15,000

**F/A Minor Contract Revisions:** This work consists of minor work authorized and approved by the Engineer via Change Order, which is not included in the contract plans or specifications and is necessary to accomplish the scope of work for this contract.

**F/A Temporary Road:** This work is for construction of the back of school roadway in an interim condition to meet the requirements of the functional roadway in 2022. This F/A will apply if the final condition of the back of school road cannot be accomplished within the specified time. The interim condition must meet applicable requirements of the CDPS permit. Scope, schedule and cost will be established via a proposal similar to a Value Engineering Cost Proposal submitted by the Contractor and approved via Change Order by the Engineer.

**F/A Erosion Control** - This Force Account is to pay for all necessary work and materials for erosion control items not identified in the plans and at the Engineer's direction. Payment will be made based on time and materials used to perform the work and approved via Change Order. All work and materials shall be pre-approved by the Engineer prior to installation, or they will be at no cost to the project.

**F/A Re-establish Trail:** This work includes materials and labor required to maintain the existing gravel trail, as called out in the plans. The trail will be maintained both east and west of the new queuing lane and will include replacing railroad tie steps, handrail. Payment will be made based on time and materials used to perform the work and approved via change order. All work shall be pre-approved by the Engineer prior to completion, or the work will be at no cost to the project.

**F/A Landscaping and Landscape Preservation–** This work is for restoring existing property back to preconstruction condition. This includes grading, topsoil, mulches, and vegetation. Landscape preservation shall include items identified in the plans for preservation of installed vegetation including

but not limited to maintenance and scheduled watering. If not identified in the plans contractor shall suggest maintenance schedule to be approved by the Engineer.

## UTILITIES

Known utilities within the limits of this project are:

UTILITY CONTACT LIST - MONUMENT ACADEMY				
UTILITY OWNER	UTILITY TYPE	CONTACT	PHONE	EMAIL
Black Hills Energy (BHE)	Gas	Bob Swatek	Office: 719-332-5856	bob.swatek@blackhillscorp.com
Lumen Technologies (Formerly CenturyLink)	Design (Terra Technologies)	Robert McLeod	Mobile: 303-949-2187	rmcleod@terstechllc.net
	Fiber / Telephone (Local)	Andy Hekkers	Mobile: 719-355-7346	andrew.hekkers@centurylink.com
Monument Academy	Lighting	Vinnie Devincenzo	Office: 719-431-8001 Ext. 1039	vdevincenzo@monumentacademy.net
Mountain View Electric Association (MVEA)	Electric	Wayne Baab	Office: 719-487-9292 Mobile: 719-331-1651	wayne@wrbengcorp.com
Woodmoor Water & Sanitation District (WWSD)	Sanitary Sewer Water	Ariel Hacker (Engineering)	Office: 719-488-2525 x 13	arielh@woodmoorwater.com
		Dan LaFontaine (Operations)	Office: 719-488-2525 x 18	danl@woodmoorwater.com

The work described in these plans and specifications requires coordination between the Contractor and the utility companies in accordance with subsection 105.11 in conducting their respective operations as necessary to complete the utility work with minimum delay to the project.

### PART 1 - UTILITY OWNERS SHALL PERFORM THE WORK LISTED BELOW:

The work listed below shall be performed by the Contractor 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 adjacent to its facility so that each utility owner can coordinate its relocation and / or watch & protect with the Engineer.

The contractor shall refer to the *Sue Investigation Plan* and *Utility Modification Plan* for detailed information on the utilities and conflicts for the project.

FOR EACH UTILITY OWNER SHOWN BELOW, THE WORK LISTED UNDER "CONTRACTOR RESPONSIBILITIES" SHALL BE PERFORMED BY THE CONTRACTOR. EACH UTILITY OWNER, OR THEIR

AGENTS, WILL PERFORM THE WORK LISTED UNDER “UTILITY COMPANY RESPONSIBILITIES”.

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

1. Conflict Description
  - a. An existing 2-inch plastic gas service line is located within the existing paved access in front of Monument Academy.
  - b. Storm sewer pipe is being installed over the gas service line within the existing paved access in front of Monument Academy. This will result in a direct vertical conflict requiring relocation of the gas service line.
2. Utility Responsibilities
  - a. BHE will coordinate as necessary with the Contractor during the course of the project.
  - b. BHE shall relocate the existing 2-inch gas service line prior to installation of the storm sewer pipe. Relocation of the gas service line will be completed in a timely manner and as coordinated with the Contractor. Surveying and/or staking of the gas relocation shall be the responsibility of BHE.
  - c. After the gas service is relocated, BHE can provide watch and protect at their discretion during the installation of the storm sewer pipe adjacent to the relocated gas service line.
3. Contractor Responsibilities
  - a. The Contractor shall be aware of the existing BHE facilities within the project area and shall notify BHE when excavating in the vicinity of the BHE gas service, per Colorado One Call Law. The Contractor shall exhibit caution when working near gas lines to ensure safe operations and to avoid unnecessary outages to Monument Academy.
  - b. It is the Contractor's responsibility to coordinate with BHE as early as possible to schedule relocation of the gas service line prior to storm sewer installation. No additional compensation will be granted for schedule delays occurring as a result of this coordination.
  - c. The Contractor shall protect the relocated gas service in place during installation of the storm sewer pipe and shall accommodate BHE watch and protect if required and provided by BHE.

### **Lumen Technologies (Fiber Optic and Telephone)**

1. Conflict Description
  - a. Fiber optic and telephone service lines are located within the existing paved access in front of Monument Academy.
  - b. Proposed construction is adjacent to existing fiber optic and telephone lines, but no direct vertical conflicts are anticipated.
2. Utility Responsibilities
  - a. Lumen Technologies will coordinate as necessary with the Contractor during the course of the project.
  - b. No direct vertical conflicts are anticipated. However, Lumen Technologies can provide watch and protect at their discretion during construction adjacent to fiber optic and telephone lines.
3. Contractor Responsibilities
  - a. The Contractor shall be aware of the existing Lumen fiber optic and telephone facilities within the project area and shall notify Lumen Technologies representatives when excavating in the vicinity of the fiber optic and telephone lines, per Colorado One Call Law. The Contractor shall exhibit caution when working near the fiber optic and telephone lines to ensure safe operations and to avoid unnecessary outages to Monument Academy.

- b. The Contractor shall protect the existing fiber optic and telephone lines during construction adjacent to them and shall accommodate Lumen watch and protect if required and provided by Lumen Technologies.

### **Monument Academy (Lighting)**

1. Conflict Description
  - a. Street lighting along with associated electrical lighting conduit and conductor is located throughout the project site.
  - b. Storm sewer and pavement is being installed over the lighting conduit near Front of School Access HCL STA 12+50. This will result in a direct vertical conflict requiring relocation of the lighting conduit and conductor.
  - c. Pavement is being installed over the lighting conduit near Front of School Access HCL STA 16+50 without direct vertical conflict.
  - d. Sidewalk is being installed over the lighting conduit near Front of School Access HCL STA 17+00 without direct vertical conflict.
2. Utility Responsibilities
  - a. Monument Academy will coordinate as necessary with the Contractor during the course of the project.
  - b. Monument Academy will provide inspectors during relocation of the conduit and conductor near Front of School Access HCL STA 12+50. Observation, inspection, and approval of the relocation will be completed in a timely manner and as coordinated with the Contractor.
  - c. No direct vertical conflicts are anticipated at the pavement installation near Front of School Access HCL STA 16+50 or sidewalk installation near Front of School Access HCL STA 17+00. However, Monument Academy can provide watch and protect at their discretion during installation of the pavement and sidewalk above the lighting conduit.
3. Contractor Responsibilities
  - a. The Contractor shall be aware of the existing Monument Academy lighting facilities within the project area and shall notify Monument Academy representatives when excavating in the vicinity of the lighting conduit, per Colorado One Call Law. The Contractor shall exhibit caution when working near the lighting conduit to ensure safe operations and to avoid unnecessary outages to Monument Academy.
  - b. The Contractor shall relocate the lighting conduit and conductor near Front of School Access HCL STA 12+50 as detailed in the plans. The Contractor shall coordinate observation and inspection by Monument Academy during conduit and conductor installation and shall not backfill over the conduit without approval of Monument Academy and the Engineer. It is the Contractor's responsibility to coordinate with Monument Academy as early as possible to schedule observation, inspection, and approval of the conduit and conductor installation. No additional compensation will be granted for schedule delays occurring as a result of this coordination.
  - c. The Contractor shall protect the existing lighting conduit in place during installation of the pavement near Front of School Access HCL STA 16+50 and sidewalk near Front of School Access HCL STA 17+00 and shall accommodate Monument Academy watch and protect if required and provided by Monument Academy

### **Mountain View Electric Association – MVEA (Electric)**

1. Conflict Description

- a. Existing primary electrical lines along with electrical junction cabinets, switches, and transformers are located throughout the project site.
  - b. Pavement is being installed over an existing dual primary electric line near Front of School Access HCL STA 13+00. The excavation for this pavement installation will result in a direct vertical conflict requiring relocation of the primary electrical lines and the adjacent electrical junction cabinet.
- 2. Utility Responsibilities
  - a. MVEA will coordinate as necessary with the Contractor during the course of the project.
  - b. MVEA shall relocate the primary electric lines and junction cabinet near Front of School Access HCL STA 13+00 as part of the adjacent HWY 105A project and as coordinated with the Contractor.
  - c. Once the dual primary lines have been relocated, no other direct conflicts with MVEA electric lines are anticipated. However, MVEA can provide watch and protect at their discretion during construction adjacent to primary electrical lines.
- 3. Contractor Responsibilities
  - a. The Contractor shall be aware of the existing and proposed (relocated) MVEA facilities within the project area and shall notify MVEA when excavating in the vicinity of the primary electric lines, per Colorado One Call Law. The Contractor shall exhibit caution when working near electric lines to ensure safe operations and to avoid unnecessary outages to customers.
  - b. It is the Contractor's responsibility to coordinate with MVEA and the adjacent HWY 105A project as early as possible to schedule relocation of the dual primary electric lines and adjacent electrical junction cabinet. No additional compensation will be granted for schedule delays occurring as a result of this coordination.
  - c. The Contractor shall protect existing and proposed (relocated) electric lines and equipment during project construction and shall accommodate MVEA watch and protect if required and provided by MVEA.

### **Woodmoor Water and Sanitation District – WWSD (Sanitary Sewer)**

- 1. Conflict Description
  - a. An existing 10-inch PVC sanitary sewer main is located within the existing paved access in front of Monument Academy and extending around the school and to the north.
  - b. Storm sewer pipe is being installed over the sanitary sewer main within the existing paved access in front of Monument Academy without direct vertical conflict.
  - c. Pavement is being installed over the sanitary sewer main near Back of School Access HCL STA 26+20 without direct vertical conflict.
- 2. Utility Responsibilities
  - a. WWSD sanitary will coordinate as necessary with the Contractor during the course of the project.
  - b. No direct sanitary vertical conflicts are anticipated at the storm sewer installation. However, WWSD can provide watch and protect at their discretion during installation of the storm sewer pipe above the sanitary sewer main.
  - c. No direct vertical conflicts are anticipated at the pavement installation near Back of School Access HCL STA 26+20. However, WWSD can provide watch and protect at their discretion during installation of the pavement above the sanitary sewer main.
- 3. Contractor Responsibilities

- a. The Contractor shall be aware of the existing WWSD sanitary facilities within the project area and shall notify WWSD when excavating in the vicinity of the WWSD sanitary sewer main, per Colorado One Call Law. The Contractor shall exhibit caution when working near sanitary sewer lines to ensure safe operations and to avoid unnecessary outages to customers.
- b. The Contractor shall protect the existing sanitary sewer main in place during installation of the storm sewer pipe and shall accommodate WWSD watch and protect if required and provided by WWSD.
- c. The Contractor shall protect the existing sanitary sewer main in place during installation of the pavement near Back of School Access HCL STA 26+20 and shall accommodate WWSD watch and protect if required and provided by WWSD.

## **Woodmoor Water and Sanitation District – WWSD (Water)**

### **1. Conflict Description**

- a. An existing 6-inch PVC water main is located within the existing paved access in front of Monument Academy and extending to HWY-105.
- b. Storm sewer pipe is being installed over the water main within the existing paved access in front of Monument Academy without direct vertical conflict. A pipe saddle is required between the proposed storm sewer pipe and existing water main in this location.
- c. Pavement is being installed over the water main near Front of School Access HCL STA 16+50 without direct vertical conflict

### **2. Utility Responsibilities**

- a. WWSD will coordinate as necessary with the Contractor during the course of the project.
- b. WWSD will provide inspectors during the installation of the pipe saddle. Observation, inspection, and approval of the pipe saddle installation will be completed in a timely manner and as coordinated with the Contractor.
- c. No direct vertical conflicts are anticipated at the pavement installation near Front of School Access HCL STA 16+50. However, WWSD can provide watch and protect at their discretion during installation of the pavement above the water main.

### **3. Contractor Responsibilities**

- a. The Contractor shall be aware of the existing WWSD water facilities within the project area and shall notify WWSD when excavating in the vicinity of the WWSD water main, per Colorado One Call Law. The Contractor shall exhibit caution when working near water lines to ensure safe operations and to avoid unnecessary outages to customers.
- b. The Contractor shall install a pipe saddle between the proposed storm sewer pipe and existing water main as detailed in the plans. The Contractor shall coordinate observation and inspection by WWSD during pipe saddle installation and shall not backfill over the pipe saddle without approval of WWSD and the Engineer. The Contractor shall protect the existing water main in place during installation of the pipe saddle. It is the Contractor's responsibility to coordinate with WWSD as early as possible to schedule observation, inspection, and approval of the pipe saddle installation. No additional compensation will be granted for schedule delays occurring as a result of this coordination.
- c. The Contractor shall protect the existing water main in place during installation of the pavement near Front of School Access HCL STA 16+50 and shall accommodate WWSD watch and protect if required and provided by WWSD. An anticipated minimum of 6-feet of vertical cover shall be provided between the proposed finished grade of the paved access and water main when the paved access is installed. The Contractor shall notify the Project Engineer if the minimum vertical cover is not obtainable so that WWSD can be contacted to approve the minimum vertical cover that can be provided.