

SECTION 01200

PAYMENT PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and other Division 1 Specification Sections, apply to this Section.
- B. This information is supplemental to the requirements as stated in the General Conditions.

1.2 SUMMARY

- A. This Section includes additional administrative and procedural requirements necessary to prepare and process Applications for Payment. Refer to General Conditions for most requirements of the Owner.
 - 1. Unit Prices for administrative requirements governing use of unit prices
 - 2. Construction Progress Schedules

1.3 DEFINITIONS

- A. Unit Price: An amount proposed by bidders, stated on the Bid Form, as a price per unit of measurement for materials or services.

1.4 PROCEDURES FOR UNIT PRICES

- A. Unit bid prices, as quoted in the Bid Form, shall be in full compensation for labor, materials, equipment, rentals, freight, applicable taxes, overhead, profit and incidentals to complete all work for each pay item; and for all risk, loss, damage, or expense of whatever nature arising from the nature of the work or the prosecution thereof.
- B. Work or materials that are essential to the work, but for which there are no pay items, will not be measured and paid for separately, but shall be included in other items of work.
- C. Prices include all necessary material, for a complete installation, insurance, applicable taxes, overhead, and profit
 - 1. Bid Item No. 1: Water Pipe – 6-inch PVC C900 DR18
 - a. No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the number of linear feet of pipe as listed in the bid schedule. The unit price will include all of Contractor's costs which are not specifically measured and paid for under other bid items. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: locating and protecting all existing above and below ground utilities and connections along and around the

item; topsoil removal, stockpiling, and replacement; excavating, backfilling, and compaction of excavations with suitable material(s); rock and muck excavation and backfill with suitable material(s); furnishing, transporting, and installing all pipe, detectable marking tape, tracer wire, and materials as indicated; adjusting location of existing small utilities and valves; tapping and/or connecting to pipes or structures and repairing all structures as necessary; furnishing, transporting, and installing special fittings or items not otherwise provided for elsewhere in the Drawings and Specifications; furnishing, transporting, and installing joining materials including O-rings, gaskets, bolts, joint restraints, connecting bands, and other miscellaneous items; removing and replacing surfacing materials, as required; excavating, including exploratory excavation; constructing the specific bedding including the furnishing, placing, and compacting of flowfill, sand, gravel, and rock; supporting trenches as required; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: Per actual number of linear feet of pipe installed. Payment will be based on the units completed and accepted of the Work required by this bid item.
2. Bid Item No. 2: Cross – 8-inch by 6-inch
 - a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; including kick blocks as needed; constructing required connections to existing and new pipes; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of crosses installed. Payment will be based on units completed and accepted of the Work required by this bid item.
 3. Bid Item No. 3: End Cap/Plug 6-inch
 - a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches;

including kick blocks as needed; constructing required connections to existing and new pipes; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: Per actual number of end caps/plugs installed. Payment will be based on units completed and accepted of the Work required by this bid item.
4. Bid Item No. 4: Tee 6-inch by 6-inch
 - a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; including kick blocks as needed; constructing required connections to existing and new pipes; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of tees installed. Payment will be based on units completed and accepted of the Work required by this bid item.
5. Bid Item No. 5: Fire Hydrant Assembly
 - a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; installing fire hydrant assembly including gate valve, hydrant lateral pipe line, mechanical joint restraint, tracer wire and tracer wire test station, constructing required connections to existing and new pipes; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service

connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: Per actual number of Fire Hydrant Assemblies installed. Payment will be based on units completed and accepted of the Work required by this bid item.
6. Bid Item No. 6: Bend – 6-inch (Less than 90 degrees) with Kick Block
 - a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; including kick blocks as needed; constructing required connections to existing and new pipes; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of bends installed. Payment will be based on units completed and accepted of the Work required by this bid item.
7. Bid Item No. 7: Gate Valve 6-inch With Box
 - a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; constructing required connections to existing and new pipes; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of gate valves installed. Payment will be based on units completed and accepted of the Work required by this bid item.
8. Bid Item No. 8: Service Tap – Includes Corporation Stop (3/4-inch)

- a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; tapping connection to new pipes with brass tapping saddle; new corporation stops; excavating, including exploratory excavation; backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of water service connections installed. Payment will be based on units completed and accepted of the Work required by this bid item.
9. Bid Item No. 9: Water Service Line $\frac{3}{4}$ -inch Type K copper
- a. Description: The measurement for payment for this item will be the number of linear feet of pipe as listed in the bid schedule, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; new corporation stop tap connection to the existing watermain connection using a brass coupling; replacement of entire water service to curb stop if exist service line is not Type K copper; excavating, including exploratory excavation; backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of water service connections installed. Payment will be based on units completed and accepted of the Work required by this bid item.
10. Bid No. 10: Fire Hydrant Removal (Return to City)
- a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's

costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; removal of the existing fire hydrant assembly and existing gate valve box in accordance with the Drawings and Specifications and any applicable local, state or federal requirements and return fire hydrant assembly and gate valve box to City shop; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: Per actual number of Fire Hydrant removed. Payment will be based on units completed and accepted of the Work required by this bid item.
11. Bid Item No. 11: Abandonment of Existing Water Valve
- a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all materials including any sheeting and/or bracing required for support trenches; removal of top gate valve box piece on the abandoned water line and backfilling and patching in accordance with the Drawings and Specifications and any applicable local state or federal requirements and return gate valve box to City shop; excavating, backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of water service connections installed. Payment will be based on units completed and accepted of the Work required by this bid item.
12. Bid Item No. 12: Abandonment of Existing Line
- a. Description: The measurement for payment for this item will be on a per-each basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The unit price will include all of Contractor's costs. This bid item includes but is not limited to the following items: locating and protecting all existing utilities along and around the item; adjusting location of any existing small utilities and valves; furnishing, transporting, and installing all

materials including any sheeting and/or bracing required for support trenches; installing transition coupling for unlike materials, capping abandoned pipe, removal of all existing gate valve box on the abandoned water lines and installing kick block in accordance with the Drawings and Specifications and any applicable local state or federal requirements; excavating, including exploratory excavation; backfilling, and compacting, including imported backfill material and flowfill; removing pavement, base course, subbase material, sod, and other surfacing material outside of the prescribed trench width which is not paid for under another section of this Specification; protecting aboveground and underground utilities and service connections; disposing of debris, pipe, excess excavated material, and damaged materials; testing; inspecting; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: Per actual number of water service connections installed. Payment will be based on units completed and accepted of the Work required by this bid item.
13. Bid Item No. 13: Demolish Existing Curb and Gutter
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: protecting all existing items, materials, and surfaces not to be demolished; demolishing, hauling, and disposing of existing asphalt and concrete materials to be demolished as required; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per the actual number of linear feet of curb and gutter demolished. Payment will be based on units completed and accepted of the Work required by this bid item.
14. Bid Item No. 14: Demolish Existing Sidewalk
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: protecting all existing items, materials, and surfaces not to be demolished; demolishing, hauling, and disposing of existing asphalt and concrete materials to be demolished as required; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per square feet (surface area) of actual sidewalk removed. Length of sidewalk area will be measured parallel to the alignment of the sidewalk and width of sidewalk area will be measured perpendicular to the alignment of the sidewalk. Payment will be based on units completed and accepted of the Work required by this bid item.

15. Bid Item No. 15 & 16: Demolish Existing Asphalt (T-Top Section) & (Full Depth)
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: protecting all existing items, materials, and surfaces not to be demolished; saw cutting, demolishing, hauling, and disposing of existing asphalt materials to be demolished as required; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per square feet (surface area) of actual asphalt removed. Payment will be based on units completed and accepted of the Work required by this bid item.
16. Bid Item No. 17: Erosion and Sediment Control
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: furnishing and installing all materials including concrete washout areas, inlet protection, outlet protection, silt fence, curb socks, sediment control logs, vehicle tracking control, and any other materials required to complete the Work; providing all materials, fabricating, and installing erosion and sediment control measures; excavation and backfill, as required for installation; providing and installing all ancillary erosion control items specified in the Drawings, and all other means and methods specified in the erosion control drawings; obtaining required permits; inspecting; maintaining BMPs throughout the project duration as needed to keep all BMPs in proper working order; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: No measurement for payment will be made for this work. It shall be paid for at the Contract Lump Sum Price based upon the percentage completed and accepted of the work required by this bid item. One-third of the lump sum price for this item will be paid after twenty-five percent (25%) of the original Contract amount has been earned; the second third will be paid after fifty percent (50%) of the original Contract amount has been earned; and the final third upon final acceptance of the Project.
17. Bid Item No. 18: Reset Landscape Ground Cover
- Description: The measurement for payment for this item will be on a square foot basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs associated with seeding/sod/landscaping/topsoil/re-vegetation, watering, planting, edging, plastic weed barrier, protecting and resetting irrigation systems as encountered, cleanup, haul, and any replacement of existing conditions, to what

was existing conditions or better, or to Owner's/Engineer's satisfaction. Inspecting and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- a. Unit of Measurement: Per actual number of square feet of landscape reset. Payment will be based on units completed and accepted of the Work required by this bid item.

18. Bid Item No. 19: Seeding and Revegetation

Description: The measurement for payment for this item will be on an acreage basis, complete in place, in accordance with the Drawings or Specifications or as otherwise directed by Engineer. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs associated with seeding/sod/landscaping/ topsoil/re-vegetation, watering, planting, edging, plastic weed barrier, cleanup, haul, and any replacement of existing conditions, to existing condition or better, to Owner's/Engineer's satisfaction. Reseeding all areas disturbed by the Work per the seed mix requirements as specified on the Construction Documents including seed bed preparation, fertilization, seeding, and all other costs not included under other bid items. Inspecting and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- a. Unit of Measurement: Per actual number of acres of ground surface seeded. Payment will be based on units completed and accepted of the Work required by this bid item.

19. Bid Item No. 20: Aggregate Base Course (Class 6) – 6-inch

- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: furnishing and installing Class II aggregate base with CDOT Class VI gradation; site grading to establish grade prior to placement of Road Base; subgrade preparation; removing debris and excess materials; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: Per actual number of square yards of road base installed. Payment will be based on units completed and accepted of the Work required by this bid item.

20. Bid Item No. 21: Hot Bituminous Pavement (Patching) (3-inch base course lift)

- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: saw cutting and patching or repairing existing asphalt and concrete as required to install improvements; furnishing all new materials and labor required to install improvements; installation of all materials as indicated, including all required surface and subgrade preparation; tack coat;

- clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
- b. Unit of Measurement: Per actual number of square feet (surface area) of 3-inch base course asphalt road surface paved. Payment will be based on units completed and accepted of the Work required by this bid item.
21. Bid Item No. 22: Hot Bituminous Pavement (Patching) (2-inch wearing course lift)
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: saw cutting and patching or repairing existing asphalt and concrete as required to install improvements; furnishing all new materials and labor required to install improvements; installation of all materials as indicated, including all required surface and subgrade preparation; tack coat; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of square feet (surface area) of 2-inch wearing course asphalt road surface paved. Payment will be based on units completed and accepted of the Work required by this bid item.
22. Bid Item No. 23: Cold Patch (temporary road sealant during winter construction)
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: saw cutting and patching or repairing existing asphalt and concrete as required to install improvements; furnishing all new materials and labor required to install improvements; installation of all materials as indicated, including all required surface and subgrade preparation; tack coat; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of square feet (surface area) of cold patch installed. Payment will be based on units completed and accepted of the Work required by this bid item.
23. Bid Item No. 24: Concrete – 6-foot Pan (8-inch thick, reinforced)
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: saw cutting existing asphalt and concrete as required to install improvements; furnishing all new materials and labor required to install improvements; installation of all materials as indicated, including all required surface and subgrade preparation; clean up; and providing all other

- related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
- b. Unit of Measurement: Per actual number of square yards of concrete pan installed. Payment will be based on units completed and accepted of the Work required by this bid item.
24. Bid Item No. 25: Concrete – Curb and Gutter (6-inch Vertical, 2-foot Pan)
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: saw cutting existing asphalt and concrete as required to install improvements; furnishing all new materials and labor required to install improvements; installation of all materials as indicated, including all required surface and subgrade preparation; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of linear feet of concrete curb and gutter installed. Payment will be based on units completed and accepted of the Work required by this bid item.
25. Bid Item No. 26: Concrete – 6-inch
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The measurement for payment for this item will be the total number listed in the bid schedule and will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: saw cutting existing asphalt and concrete as required to install improvements; furnishing all new materials and labor required to install improvements; installation of all materials as indicated, including all required surface and subgrade preparation; clean up; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: Per actual number of square feet (surface area) of concrete drive installed. Payment will be based on units completed and accepted of the Work required by this bid item.
26. Bid Item No 27: Portable Sanitary Facility
- a. Description: The lump sum price will include all of Contractor's costs associated with the procurement, maintenance, and staging of the portable sanitary facility; protecting all existing aboveground utilities, items, materials, and surfaces along and around the portable sanitary facility and providing all other related and necessary labor, equipment, and materials for the use of the portable sanitary facility not covered by other items in this section.
 - b. Unit of Measurement: No measurement for payment will be made for this item. It shall be paid for at the Contract Price based upon the percentage of project completed and accepted of the work required by this bid item.
27. Bid Item No. 28: Construction Surveying

- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: all construction surveying, locating, referencing, calculating, and staking necessary for the construction of the Work record drawings in accordance with the Drawings and Specifications and in conformance with the CDOT Survey Manual.
 - b. Unit of Measurement: No measurement for payment will be made for this work. It shall be paid for at the Contract Price based upon the percentage completed and accepted of the work required by this bid item.
28. Bid Item No. 29: Mobilization/Demobilization
- a. Description: No separate measurement for payment will be made for any labor, equipment, materials, and incidental work required for this item. The lump sum price will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: preparing and installing temporary fencing around project work and staging areas, and any other fencing/security items as deemed necessary by Contractor and not covered by another bid item; establishing Contractor's staging area, construction trailers, offices, buildings, other necessary facilities, and temporary power and communications; obtaining permits; providing required bonds and insurance; preparing the project schedule. Item also includes demobilization at the completion of the project including the removal of the Contractor's equipment, supplies, temporary facilities, excess materials, and cleaning up the site; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: The total bid amount for mobilization and demobilization shall not exceed eight percent (8%) of the total bid price. Bids received that exceed this amount may be grounds for rejection of the total bid. No measurement for payment will be made for this work. It shall be paid for at the Contract Lump Sum Price based upon the percentage completed and accepted of the work required by this bid item. Fifty percent (50%) of the lump sum price will be paid at the time of the first monthly progress payment; an additional thirty percent (30%) will be paid when one-half of the original Contract amount is earned. The remaining twenty percent (20%) will be paid upon final acceptance of the Project.
29. Bid Item No. 30: Traffic Control
- a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: preparing, implementing, adjusting as necessary, and maintaining the approved Traffic Control Plan in accordance with the Drawings and Specifications and accepted Traffic Control Plan; temporary traffic lights; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.

- b. Unit of Measurement: No measurement for payment will be made for this work. It shall be paid for at the Contract Lump Sum Price based upon the percentage completed and accepted of the work required by this bid item. One-third of the lump sum price for this item will be paid after twenty-five percent (25%) of the original Contract amount has been earned; the second third will be paid after fifty percent (50%) of the original Contract amount has been earned; and the final third upon final acceptance of the Project.
- 30. Force Account: Utility Allowance to Support and Relocate Existing Utilities
 - a. Description: No separate measurement for payment will be made for any labor, equipment, and materials required for this item. The lump sum price will include all of Contractor's costs. This bid item includes but is not limited to the following items installed or conducted in accordance with the Drawings and Specifications or as otherwise directed by Engineer: locating and protecting all existing above and below ground utilities and connections on the site; coordination with utility providers for required utility relocation; providing support to utility providers for required utility relocation; relocating existing utilities in accordance with the Drawings and Specifications and any applicable local, state or federal requirements; and providing all other related and necessary labor, equipment, and materials to complete the Work not covered by other items in this section.
 - b. Unit of Measurement: No measurement for payment will be made for this work. It shall be paid for at the Contract Price based upon the percentage completed and accepted of the work required by this bid item.
- 31. Force Account: Utility Locates & Potholing
 - a. Description: The lump sum price will include all of Contractor's costs associated with locating and potholing all utilities necessary for the construction of the Work in accordance with the Drawings and Specifications and in conformance with the CDOT Survey Manual.
 - b. Unit of Measurement: No measurement for payment will be made for this work. It shall be paid for at the Contract Price based upon the percentage completed and accepted of the work required by this bid item.

D. Measurement and Payment: Refer to bid form and 1.5 (A) of this Section for establishment of unit prices

E. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor.

1.5 APPLICATION FOR PAYMENTS

A. General

1. Refer to City of Grand Junction Engineering Division – General Contract Conditions Section XII: Measurement, Payment and Acceptance.
2. Submit itemized payment request as required in General Conditions together with Schedule of Values and other submittals as specified herein

3. Contractor shall not "project" work completed beyond the date of Application for Payment submittal for the purpose of payment request
- B. Each Application for Payment shall be consistent with previous applications and payments as certified by the Engineer and paid for by the Owner.
 1. The initial Application for Payment, the Application for Payment at time of Substantial Completion, and the final Application for Payment involve additional requirements
 - C. Payment Application Times: Each progress payment date is as indicated in the Agreement. The period of construction Work covered by each Application for Payment is the period indicated in the Agreement
 - D. Application Preparation: Complete every entry on the form, including notarization and execution by person authorized to sign legal documents on behalf of the Owner. Incomplete applications will be returned without action.
 1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions have been made.
 2. Include amounts of Change Orders issued prior to the last day of the construction period covered by the application
 - E. Transmittal
 1. Submit copy of each Application for Payment to the Engineer by means ensuring receipt within 24 hours
 2. Transmit each copy with a transmittal form listing attachments, and recording appropriate information related to the application in a manner acceptable to the Engineer
 - F. Initial Application for Payment
 1. Administrative actions and submittals that must precede or coincide with submittal of the first Application for Payment include the following:
 - a. List of subcontractors
 - b. List of principal suppliers and fabricators
 - c. Schedule of Values
 - d. Contractor's Construction Schedule (preliminary if not final)
 - e. Schedule of principal products
 - f. List of Contractor's staff assignments
 - g. Copies of building permits
 - h. Copies of authorizations and licenses from governing authorities for performance of the Work
 - i. Certificates of insurance and insurance policies
 - j. Performance and payment bonds, if required
 - G. Application for Payment at Substantial Completion
 1. Following issuance of the Certificate of Substantial Completion, submit an Application for Payment. This application shall reflect any Certificates of Partial

Substantial Completion issued previously for Owner occupancy of designated portions of Work

- a. Administrative actions and submittals that shall precede or coincide with this application include:
 - i) Occupancy permits and similar approvals
 - ii) Warranties (guarantees) and maintenance agreements
 - iii) Test/adjust/balance records
 - iv) Maintenance instructions
 - v) Meter readings
 - vi) Start-up performance reports
 - vii) Change-over information related to Owner's occupancy, use, operation and maintenance
 - viii) Final cleaning
 - ix) Application for reduction of retainage, and consent of surety
 - x) Advice on shifting insurance coverages
- b. List of incomplete Work, recognized as exceptions to Engineer's Certificate of Substantial Completion

H. Application for Final Payment

1. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Price, previous payments, and sum remaining due.
2. Application for Final Payment will not be considered until the following have been accomplished:
 - a. Completion of Project closeout requirements
 - b. Completion of items specified for completion after Substantial Completion
 - c. Assurance that unsettled claims will be settled
 - d. Assurance that Work not complete and accepted will be completed without undue delay
 - e. Transmittal of required Project construction records to Owner
 - f. Proof that taxes, fees and similar obligations have been paid
 - g. Removal of temporary facilities and services
 - h. Removal of surplus materials, rubbish and similar elements

1.6 PROCEDURES FOR THE CONSTRUCTION PROGRESS SCHEDULE

- A. Coordination: coordinate preparation and updates of Contractor's Construction Schedule with the preparation of Schedule of Values.
 1. Correlate line items in the Construction Schedule with required project tasks, including the following:
 - a. Mobilization/demobilization
 - b. Permits and regulatory requirements
 - c. Submittals
 - d. Equipment
 - e. O&M Manuals
 - f. Work breakdown of major project work
 - g. Major subcontractors work
 - h. Startup and commissioning

- i. Training
 - j. Substantial completion
 - k. Final completion
 - l. Milestones and operational shutdown requirements
- B. Utilize the Critical Path Method (CPM) type construction schedule to establish preliminary progress schedule and track Work progress
- 1. After acceptance by Engineer of preliminary Progress Schedule submitted per requirements of General Conditions, set preliminary Progress Schedule as the Construction Baseline Schedule
 - 2. Update and submit the construction progress schedule on a monthly basis with the pay application
 - a. Monthly submittal should indicate progress of tasks, changes to baseline schedule logic, work additions such as change orders, milestone and contract date changes
 - b. Submit two (2) color print copies, 11" x 17" size, and one Adobe pdf copy
 - c. Upon request provide copy of project schedule CPM data file

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

- A. Provide a list of unit prices as indicated in Section 00310 – Bid Form

END OF SECTION