

(Revised July 11, 2019)

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 — GENERAL

1.01 SECTION INCLUDES

Methods of measurement and payment for items of work under the Bidder's Unit Price Form.

1.02 SUMMARY

- A. The total bid price shall cover all work required by the Contract Documents. All costs in connection with the proper and successful completion of the work, including all materials, equipment, supplies, and appurtenances; providing all equipment and tools; and performing all necessary labor and supervision to fully complete the work, shall be included in the unit and lump sum prices bid.
- B. All work not specifically set forth as a pay item in the Bidder's Unit Price Form shall be considered subsidiary obligations of the Contractor and all costs in connection therewith shall be included in the prices bid.
- C. All estimated quantities stipulated in the Bidder's Unit Price Form or other Contract Documents are approximate and are to be used only:
 - 1. As a basis for estimating the probable cost of the Work.
 - 2. For the purpose of comparing the bids submitted for the Work.
- D. The basis of payment for work and materials will be the actual amount of work done and materials furnished. Payment for assessment and assessment-related activities or any other items of work for payment will be made on a linear foot, vertical foot, square foot, square yard, cubic yard, or each based on the Contractor's measurement, contingent on verification by the Owner or Owner's Representative. Contractor agrees he will make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of work actually performed and materials actually furnished.
- E. Pay requests for work performed shall be itemized by asset. The pay request should list each asset by ID number, describe the work performed per the payment bid form, provide the unit cost, and provide the extended cost. When seeking partial payment where work was attempted and could not be completed, adequate information should be provided on the pay request to justify the amount requested. Work performed on pipes should be listed in a separate table from work performed on manholes. The Program Manager will provide an example of the table format.
- F. When submitting pay requests for periodic payment, the following documentation should be submitted at a minimum:
 - 1. Contractor Payment Checklist
 - 2. Application for Payment Form
 - 3. Payments Summary Sheet
 - 4. Narrative of Work Performed
 - 5. LSBE Report/s

6. Updated Schedule for Assigned Work Activities
7. Photo Documentation of Construction Activities Illustrating Pre and Post Conditions
8. Hydrant Meter charges, payments and water usage
9. Sanitary Landfill charges, payments and tonnage

Additional instructions and/or requirements may be provided by the Program Manager at the project Kick-off meeting.

1.03 MEASUREMENT AND PAYMENT

- A. GPS Locate and Data Collection (Level 1 & Level 2)– Manhole, Bid Pay Item 01056-1 - 2: Measurement for payment will be per each for the specific Level of inspection made and will constitute full compensation to locate, take coordinates, and provide attribution information as defined by the Level of Inspection per the directions provided in Section 01056. This payment includes compensation for all digital deliverables outlined in Section 01056.
 1. GPS Level 1: Applies to all manholes that are found as part of the assessment process and are not mapped or are wrongly mapped on the County's system (survey grade GPS – 1 cm accuracy).
 2. GPS Level 2: Applies to all manholes not requiring a Level 1 assessment (mapping grade GPS – 1 m accuracy).
- B. Closed Circuit Television (CCTV) Inspection, Sewer, Internal Pipe Inspection up to 18" Diameter, Bid Items 01510-1–4: Measurement for payment will be per linear foot (LF) from center of manhole to center of manhole. Payment will constitute full compensation to perform a CCTV sewer pipe inspection on sanitary sewer mains as specified. Defect coding, header data, and coding of service lateral locations are required. There will be no separate payment made for light cleaning or data delivery. Payment shall only be made for the footage of sewer assessment between the manholes. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price. Costs shall include, but are not limited to, labor, equipment, transportation, setup, tools, public notification, data management and all other related procedures and materials necessary to complete the inspections, in accordance with Section 01510.
 1. CCTV Pre-Inspection: Pre-CCTV will be performed under the same requirements as stipulated in Section 01510 with the exception of the requirements for cleaning and PACP defect coding. Reverse assessments for incomplete inspections are to be attempted.
 2. Post-CCTV: All work will be performed in accordance with the requirements of Section 01510.
- C. Sonar/TISCIT Survey, 18" to 36" Diameter, Bid Items 01510-5: Measurement for payment will be per linear foot (LF) from center of manhole to center of manhole. Payment will constitute full compensation to perform a Sonar/TISCIT sewer pipe inspection on sewers. Defect coding, header data and coding of service lateral locations are required. There will be no separate payment made for data delivery. Payment shall only be made for the footage of sewer associated with the manhole. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price. Costs shall include, but not limited to, labor,

equipment, transportation, setup, tools, public notification, data management and all other related procedures and materials necessary to complete the inspections, in accordance with Section 01510.

- D. Remove Protruding Lateral, Bid Item 02956-1: Measurement for payment will be per each (EA) for each protruding service lateral removed. Payment will constitute full compensation for cutting and/or grinding down protruding service laterals, including, but not limited to, labor, equipment, transportation, tools, and all other related procedures and materials necessary to produce the results specified in Section 02956. Contractor will advise the Program Manager in writing prior to proceeding.
- E. Bypass Pumping on < 18" Diameter Pipe, Bid Item 01520-1 – 2: Measurement for payment will be per linear feet (LF) of pipe segment(s) bypassed for the size and flow classification category of bypass pumping and temporary flow control. Payment will be full compensation for furnishing all labor, materials, equipment, set-up, removal and incidentals necessary to produce the results specified in Section 01520.
- F. Manhole Condition Assessment, Bid Item 01530-1-2: Measurement for payment will be per each (EA) manhole assessed. Payment will be full compensation for inspecting the full depth of the manhole, top and bottom conditions, and furnishing all labor, tools, equipment, public notification, data management and assessment necessary to perform all work in accordance with MACP Level 1 or Level 2 assessments as directed. Payment shall not be made until digital data files and reports are delivered and show complete and accurate information.
 - 1. MACP Level 2 Assessment: Applies to all manholes that are found as part of the assessment process and are not mapped or are wrongly mapped on the County's system (Level 1 GPS).
 - 2. MACP Level 1 Assessment: Applies to all manholes not requiring a Level 2 assessment (Level 2 GPS).
- G. Assessment Sanitary Sewer Stream Encroachment, Bid Item 01535-1: Measurement for payment for Inspections, Sanitary Sewer Stream Crossings will be per Linear Foot (LF) complete and accepted and shall include all costs associated with the inspection as required by this specification including, but not limited to, documentation, coordination, public notification, data management including hardware and inspection media, and deliverables. Payment will be full compensation for furnishing all labor, tools, equipment and assessment necessary to perform all work. Payment shall not be made where database entries are incomplete, where recorded data are inconsistent or illegible, or where photographs are not present or are not properly staged and/or inclusive of required information. Payment shall not be made until digital data files and reports are delivered and show complete and accurate information.
- H. Smoke Testing, Bid Item 01550-1: Measure for payment for smoke testing shall be made at the unit price bid per linear foot (LF). Smoke testing shall be measured per linear foot of sewer line from center of the upstream manhole to center of the downstream manhole or from the GIS pipe lengths and shall include all costs associated with the inspection as required by this specification including, but not limited to, documentation, coordination, pre-test field verification of pipe sizes, public notification, data management including hardware and inspection media, and deliverables. Payment will be full compensation for furnishing all labor, tools, equipment and assessment necessary to perform all work. Payment shall not be

made for a smoke test where database entries are incomplete, where recorded data are inconsistent or illegible, or where photographs are not present or are not properly staged and/or inclusive of required information. Payment shall not be made until digital data files and reports are delivered and show complete and accurate information.

- I. Acoustic Inspection, 12" and less Diameter Pipe, Sewer, Bid Item 01555-1: Measure for payment for acoustic inspections shall be made at the unit price bid. Payment will be full compensation for furnishing all labor, tools, materials, supplies, transportation, traffic control, equipment, public notification, and data management necessary to perform all work in accordance within these Specifications. Payment for acoustic inspections shall be made under Acoustic Inspection, 12" and less Diameter Pipe, Sewer, per LF. Payment shall not be made for acoustic inspections where digital files are incomplete, inaccurate, or where recorded data are inconsistent or illegible.
- J. Dye Testing, Bid Item 01560-1: Measure for payment for dye testing shall be made at the unit price bid per each dye test conducted. Payment will be full compensation for furnishing all labor, tools, materials, supplies, transportation, traffic control, equipment, public notification, and data management necessary to perform all work in accordance with these Specifications. Payment for dye testing shall be made under Dye Testing, per each. Payment shall not be made for a dye test or dye flood test where field forms or digital files are incomplete, inaccurate, where recorded data are inconsistent or illegible, or where photographs are not present.
- K. Erosion and Sedimentation Control (suitably installed and maintained per the Manual for Erosion and Sediment Control of Georgia, Latest Edition): No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Clearing, Easement Access Road, etc) as a part of a work directive (appropriate allowance) for the activity with which the Erosion Control Item(s) is associated and shall constitute full compensation for all costs associated with Erosion and Sediment Control Best Management Practices, including installation, maintenance, repair, and removal. Quantities for payment shall be based upon actual quantity authorized by the Owner. Erosion and sedimentation control measures shall comply with the requirement of Sections 02110 and 02276 of these Specifications; the Georgia Erosion and Sedimentation Act of 1975, as amended; the Manual for Erosion and Sediment Control of Georgia, latest edition; and local soil erosion and sedimentation control ordinances.
- L. Easement Access Road, Section 02110: No measurement for payment will be made. Payment will be made under the appropriate Allowance at the site specific price quoted and agreed upon by the Program Manager and shall constitute full compensation for all costs associated with installation, maintenance, repair, and removal of the Access Road and will include Clearing, Erosion & Sediment Control and all other activities ancillary to the work.
- M. Easement Clearing, Light & Medium, Section 02110:: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Easement Clearing Item is associated and shall constitute full compensation for all costs associated with tree protection fence, including installation, maintenance, repair, and removal and other ancillary items. Payment will constitute full compensation for easement clearing, including, but not limited to

labor, equipment, transportation, tools, and other related procedures and materials necessary to remove vegetation and other debris on or near the surface of the ground in the construction area to produce the results specified in Section 02110. Easements will be cleared of debris or obstructions impeding access to work areas. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.

- N. Easement Clearing, Heavy, Section 02110:: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Easement Clearing Item is associated and shall constitute full compensation for all associated costs including, but not limited to, labor, equipment, transportation, tools, and other related procedures and materials necessary to remove vegetation and other debris on or near the surface of the ground in the construction area to produce the results specified in Section 02110. Easements will be cleared of debris or obstructions impeding access to work areas. Maintenance of traffic and associated traffic control measures required for the work shall be included.
- O. Tree Protection Fence, Section 02110: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Tree Protection Fence (suitably installed and maintained per the Manual for Erosion and Sediment control of Georgia, latest edition) is associated and shall constitute full compensation for all costs associated with tree protection fencing, including installation, maintenance, repair, and removal.
- P. Tree/Shrubbery Restoration, Section 02110: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Tree/Shrubbery Restoration Item is associated and shall constitute full compensation for all associated costs for removing and replacement trees and/or shrubbery on private property, including, but not limited to, labor, equipment, transportation, tools, and other related procedures and materials necessary. Payment will constitute full compensation for removing and replacing trees or shrubbery on private property. Replacement may include removal and replanting, or replacing with new (as directed by the Owner/Program Manager) in accordance with Section 02110.
- Q. Chain Link Fence Removal & Replacement, Section 02110: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc.) as a part of a work directive (under appropriate allowance) for the activity with which the Fence Removal & Replacement Item is associated and shall constitute full compensation for all costs associated with remove & replace fence, including installation, maintenance, repair, and removal and other ancillary items. Payment will constitute full compensation for removing and replacing chain link fence, in kind, on public or private property in accordance with Section 02110.
- R. Wood Fence Removal & Replacement, Section 02110: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc.) as a part of a work directive (under appropriate allowance) for the activity with which the Fence Removal & Replacement Item is

associated and shall constitute full compensation for all costs associated with remove & replace fence, including installation, maintenance, repair, and removal and other ancillary items. Payment will constitute full compensation for removing and replacing wood fence, in kind, on public or private property in accordance with Section 02110.

- S. Riprap, Section 02273: No measurement for payment will be made. Payment will be made under the appropriate Allowance at the site specific price quoted and agreed upon by the Program Manager and shall constitute full compensation for all costs associated with installation, maintenance, and repair of the Rip Rap. Payment will include filter fabric underlayment at a minimum 18 inch depth, or as directed by the Program Manager. When crossing a stream or ditch, the quantity eligible for payment shall be limited to 10 feet upstream and 10 feet downstream of top of disturbed area and from five feet from the top of bank, across a creek or ditch, banks and bottoms, to five feet beyond top of bank. Any areas at creeks or ditches disturbed by the Contractor requiring riprap shall be riprapped at no cost to the Owner.
- T. Check Dam (Hay Bales) Section 02276: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc.) as a part of a work directive (under appropriate allowance) for the activity with which the Check Dam Item is associated and shall constitute full compensation for all costs associated with grading, installation (suitably installed and maintained per the Manual for Erosion and Sediment Control of Georgia, Latest Edition), maintenance, repair, and removal.
- U. Inlet Sediment Trap, Section 02276: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc.) as a part of a work directive (under appropriate allowance) for the activity with which the Inlet Sediment Trap is associated and shall constitute full compensation for all costs associated with grading, installation (suitably installed and maintained per the Manual for Erosion and Sediment Control of Georgia, Latest Edition), maintenance, repair, and removal. Contractor shall be responsible for installing the number of sedimentation traps to adequately capture silt, thus minimizing silt leaving construction sites.
- V. Temporary Creek Crossings, Section 02276: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Temporary Creek Crossing is associated and shall constitute full compensation for all costs associated with grading, installation (suitably installed and maintained per the Manual for Erosion and Sediment Control of Georgia, Latest Edition), maintenance, repair, and removal.
- W. Sodding, Section 02485:: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Sodding is associated and shall constitute full compensation for all costs associated with fine grading, fertilizing, and sodding previously landscaped areas on public or private property in accordance with Section 02485. Disturbed areas shall be sodded only when directed to do so by the Program Manager.
- X. Seeding, Section 02486:: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc.) as a

part of a work directive (under appropriate allowance) for the activity with which the Seeding is associated and shall constitute full compensation for all costs associated with fine grading, fertilizing, and seeding previously landscaped areas on public or private property in accordance with Section 02486..Grass seeding shall match in kind the existing adjacent grass of previously landscaped areas. Soil preparation and/or topsoil shall be included.

- Y. Silt Fence, Section 02542:,: No measurement for payment will be made. Payment will be included in the price bid for other items (i.e. Easement Access Road, etc) as a part of a work directive (under appropriate allowance) for the activity with which the Silt Fence (Type C silt fence(single row or double row, suitably installed and maintained per the Manual for Erosion and Sediment control of Georgia, latest edition)) is associated and shall constitute full compensation for all costs associated with Silt Fence, including installation, maintenance, repair, and removal.
- Z. Adjusting Manhole Height Up To 12", Bid Item 02607-1: Measurement for payment will be per each (EA) manhole for removing the casting frame and building up the chimney section of the manhole no more than 12 inches (reuse existing casting frame and cover). Payment will constitute full compensation for all costs for uncovering and/or adjusting each manhole to grade or higher including, but not limited to, labor, equipment, transportation, tools, and all other related procedures and materials necessary to produce the results specified in Section 02607. Replacement MH frame & cover castings, when required, will be provided by the Owner at no cost to the Contractor. Contractor will advise the Program Manager in writing prior to proceeding. There shall be no distinctions made for diameter of the manhole or its material composition. No separate payment shall be made for resetting existing manhole frames and covers. This work shall be considered an integral part of raising manholes. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.
- AA. Adjusting Manhole Height Greater Than 12", Bid Item 02607-2: Measurement for payment will be per vertical foot (VF) of manhole replaced exclusive of the manhole frame height. No separate payment will be made for 12" or less height adjustment Bid item 02607-5.3 above. Payment will constitute full compensation for all costs for uncovering and/or adjusting each manhole to grade or higher including, but not limited to, labor, equipment, transportation, tools, and all other related procedures and materials necessary to produce the results specified in Section 02607. Replacement MH frame & cover castings, when required, will be provided by the Owner at no cost to the Contractor. The Contractor will advise the Program Manager in writing prior to proceeding. There shall be no distinctions made for diameter of the manhole or its material composition. No separate payment shall be made for resetting existing manhole frames and covers. This work shall be considered an integral part of raising manholes. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.
- BB. Replace Vented Manhole Covers, Bid Item 02607-6: Measurement for payment will be per each (EA) for replacement of vented manhole covers with solid covers. Payment will constitute full compensation for all costs associated with changing out the manhole cover, including but not limited to, labor, equipment, transportation, tools, and all other related procedures and materials necessary to produce the results specified in Section 02607. Replacement MH cover will be provided by the Owner at no cost to the Contractor. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.

- CC. Locate & Expose Manhole, Street & Non-Street, Bid Items 02607-4 & 5: Measurement for payment will be per each (EA) buried manhole located and exposed. There shall be no distinctions made for the diameter or invert depth of the manhole exposed. Manholes located beneath brick, cobbles, concrete or asphalt pavement sections will be considered "beneath street section". All other locations shall be considered "non-street section." Payment shall be made at the bid price for each buried manhole acceptably located and exposed and will constitute full compensation for furnishing all labor, materials, tools, and equipment necessary to perform all work. Manholes with minor ground litter and/or minor soil cover will not be considered buried if that manhole is in the approximate location provided by County records.
- DD. Road Pavement Patch, Section 02700: No measurement for payment will be made. Payment will be made under the appropriate Allowance at the site specific price quoted and agreed upon by the Program Manager and shall constitute full compensation for all costs associated with the removal and disposal of existing pavement and placement of new pavement including restoration of existing pavement markings in accordance with the appropriate State/County standard. The price shall include, but not be limited to, labor, equipment, materials, transportation, permit acquisition and tools required to perform the work in accordance with the Georgia Department of Transportation Standard Patching Details (Number 1401). (Note: A copy of the Standard Details is available online at <http://www.dot.state.ga.us/>). Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.
- EE. Heavy Cleaning, Sanitary Sewer, 8" to larger than 36" Diameter, Bid Items 02956-4.1 - 4.2: Measurement for payment will be per linear foot (LF), measured along the centerline of the pipe, from centerline of structure to the end of survey or centerline of structure to centerline of structure, whichever is applicable. Payment will constitute full compensation for Program Manager or Owner's Representative authorized Heavy Cleaning completed and approved per Specification Section 02956. No payment will be made for any unauthorized Heavy Cleaning. There will be no separate payment made for documentation required to support the need for Heavy Cleaning. No separate payment will be made for mobilization/demobilization that might be required to perform the Heavy Cleaning and to continue CCTV inspection. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price. Costs shall include, but not limited to, labor, equipment, transportation, setup, tools, and all other related procedures and materials necessary to complete the Heavy Cleaning in accordance with Specification Section 02956.
- FF. Hydrant Meter/Water Consumption Charges: The Contractor will pay all fees associated with the acquisition, monthly charges, and water consumption associated with the Contract. These fees will be reimbursed the Contractor as a part of the pay application process upon application for payment accompanied by backup information relative to consumption and payment.
- GG. Sanitary Landfill: The Contractor will pay all disposal fees associated with the utilization of the County's Seminole Road Landfill. These fees will be reimbursed the Contractor as a part of the pay application process upon application for payment accompanied by backup information relative to fees and payment. No payment will be made for the use of landfills other than the County's facility.

END OF SECTION