

## 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 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 unit prices bid.
- C. Proactive and Reactive Work is included in Section 1.03. There are separate bid items for Proactive and Reactive Work.
- D. All quantities stipulated in the Bidder's Unit Price Form or other Contract Documents are estimated 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.
- E. All estimated quantities stipulated in the Bidder's Unit Price Form are total quantities for the contract. The County anticipates awarding the contract to multiple Contractors and quantities will be divided amongst the Contractors.
- F. 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, ton, hour, or each based on the Contractor's measurement, contingent on verification by the County or County'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.
- G. 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.

- H. 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

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. Proactive work will be paid under Bid Items 01056-1&2. Reactive work will be paid under Bid Items 01056-3&4. 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. (Bid Items 01056-1 and 01056-3) 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 – 2 cm accuracy).
  2. (Bid Items 01056-2 and 01056-4) GPS Level 2: Applies to all manholes not requiring a Level 1 assessment (mapping grade GPS – 3 m accuracy).
- B. Closed Circuit Television (CCTV) Inspection, Sewer, Internal Pipe Inspection  $\leq 18$ " Diameter, Bid Items identified below. 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 per the Specifications. Defect coding, header data, and coding of service lateral locations are required. There will be no separate payment made for light cleaning, data delivery, or data quality control. Payment shall only be made for the footage of sewer assessment between the manholes. Payment shall not be made until digital data files and reports are delivered and show complete and accurate information. 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. The Contractor must have off-road capability for the CCTV and an easement reel for the cleaning equipment.

1. **CCTV Inspection:**
    - a. (Bid Items 01510-1 and 01510-2): Proactive CCTV will be performed in accordance with the requirements of Section 01510. Proactive CCTV assignments are those CCTV assignments growing out of the Tier 1 Non-Priority Tiered Assessments and those CCTV assignments defined as “aged” in Table 2.
    - b. (Bid Items 01510-5 and 01510-6): Reactive CCTV will be performed in accordance with the requirements of Section 01510. Reactive CCTV assignments are those CCTV assignments provided by the Program Manager which carry an Elevated priority and are not part of the assignments under Table 1 or Table 2 in Specification 01010.
  2. **CCTV Pre-Inspection:**
    - a. (Bid Items 01510-1.1 and 01510-2.1): Proactive pre-CCTV will be performed under the same requirements as stipulated in Section 01510 with the exception of the requirements for cleaning. Visible defects will be recorded in accordance with PACP defect coding. Reverse assessments for incomplete inspections must be attempted if possible. It is noted that due to lack of cleaning, defects may or may not be visible for recording as per PACP. Contractor will record defects that are visible.
    - b. (Bid Items 01510-5.1 and 01501-6.1) Reactive pre-CCTV will be performed under the same requirements as stipulated in Section 01510 with the exception of the requirements for cleaning. Visible defects will be recorded in accordance with PACP defect coding. Reverse assessments for incomplete inspection must be attempted if possible. It is noted that due to lack of cleaning defects may or may not be visible for recording as per PACP. Contractor will record defects that are visible.
  3. **CCTV Post-Inspection:**
    - a. (Bid Items 01510-1.2 and 01510-2.2): All Proactive work will be performed in accordance with the requirements of Section 01510. Post-CCTV is the same activity as CCTV. Proactive post-CCTV assignments are those assignments associated with the known CERP assignments
    - b. (Bid Items 01510-5.2 and 01510-6.2): All Reactive work will be performed in accordance with the requirements of Section 01510. Post-CCTV is the same activity as CCTV.
- C. CCTV Cleaning Verification Sewer, Internal Pipe Inspection ≤18” Diameter. Measurement for payment will be per linear foot (LF) as noted in length provided within GIS. Payment will constitute full compensation to perform a verification of sewer cleaning performed by others through CCTV sewer pipe inspection on sanitary sewer mains per the Specifications for cleaning verification. No cleaning is required for this item. There will be no separate payment made for data delivery or data quality control. Payment shall only be made for the GIS footage of sewer length. 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. The Contractor must have off-road capability for the CCTV and an easement reel for the cleaning equipment.

CCTV for cleaning verification will be paid under Contract items as follows:

1. (Bid Item 01510-9): Reactive CCTV for Pipe Inspection  $\leq 8$ " Diameter Pipe.
  2. (Bid Item 01510-10): Reactive CCTV for Pipe Inspection  $>8$ " to 18 " Diameter Pipe
- D. Sonar/TISCIT Survey, All Diameters  $> 18$ ", 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 or data quality control. 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.
3. (Bid Item 01510-3 and 01510-4): Proactive CCTV for Pipe Inspection  $>18$ " Diameter Pipe. All Proactive work will be performed in accordance with the requirements of Section 01510.
  4. (Bid Item 01510-11 and 01510-12): Reactive CCTV for Pipe Inspection  $>18$ " Diameter Pipe. All Reactive Work will be performed in accordance with the requirements of Section 01510.
- E. Remove Protruding Lateral, Proactive work will be paid under Bid Item 02956-1. Reactive work will be paid under Bid Item 02956-2. 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.
- F. Bypass Pumping: Measurement for payment will be per linear foot (LF) of the size and flow classification category for bypass pumping and temporary flow control. Payment will be full compensation for furnishing all labor, materials, equipment, setup, removal, cleanup, maintenance and operation, and incidentals necessary to produce the results specified in Section 01520.

Proactive Bypass Pumping relates to bypassing lines assigned as Proactive work for which flows exceed 25%. The intent of this work is that where practical the crew performing the assessment will operate and maintain the bypass as a means of flow

control. Hourly operational cost will not be considered for payment unless approved by the Program Manager.

Proactive Bypass Pumping will be paid under Contract Items as follows

1. (Bid Item 01520-1): Bypass Pumping  $\leq$  18" Diameter Pipe with Flow  $>25\%$  and  $<50\%$ : Proactive work will be paid per LF in accordance with the requirements of Section 01520.
2. (Bid Item 01520-2): Bypass Pumping  $\leq$  18" Diameter Pipe with Flow  $\geq 50\%$ : Proactive work will be paid per LF in accordance with the requirements of Section 01520.
3. (Bid Item 01520-3): Bypass Pumping  $>$  18" Diameter Pipe for All Flows: Proactive work will be paid per LF in accordance with the requirements of Section 01520.
4. (Bid Item 01520-4): Bypass Pumping Maintenance and Operation: Proactive work will be paid per hour in accordance with the requirements of Section 01520.

- G. Reactive Bypass Pumping relates to those assignments not included in the known work above. Payment will be per linear foot of bypass installed.

Supplemental work associated with adding personnel to operate the bypass system (during operational hours for Reactive work and after working hours when required) will be paid at an hourly rate to include time, materials, and all incidentals associated with the operation. Bypassing is intended to be operated and maintained by the crew on site performing other work. No payment will be considered for hourly bypass under without permission of the County.

Bypass Pumping will be paid under Contract Items as follows

1. (Bid Item 01520-5): Bypass Pumping  $\leq$  18" Diameter Pipe with Flow  $>25\%$  and  $<50\%$ : Reactive work will be paid per LF in accordance with the requirements of Section 01520.
2. (Bid Item 01520-6): Bypass Pumping  $\leq$  18" Diameter Pipe with Flow  $\geq 50\%$ : Reactive work will be paid per LF in accordance with the requirements of Section 01520.
3. (Bid Item 01520-7): Bypass Pumping  $>$  18" Diameter Pipe for All Flows: Reactive work will be paid per LF in accordance with the requirements of Section 01520.
4. (Bid Item 01520-8): Bypass Pumping Maintenance and Operation: Reactive work will be paid per hour in accordance with the requirements of Section 01520.

- H. Manhole Condition Assessment, Proactive work will be paid under Bid Item 01530-1 and 01530-2. Reactive work will be paid for under Bid Item 01530-3 and 01530-4. 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 1 Assessment: Applies to all manholes not requiring a Level 2 assessment (Level 2 GPS).
  2. 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).
- I. Assessment Sanitary Sewer Stream Encroachment, (Bid Item 01535-1): Measurement for payment for Inspections, Sanitary Sewer Stream Encroachment will be per mapped GIS Length per Linear Foot (LF) of pipe inspection, 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.
- J. Smoke Testing, Smoke testing shall be measured per linear foot of sewer line from center of the upstream manhole to center of the downstream manhole from mapped 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.
1. (Bid Item 01550-1) Proactive: All Smoke Testing assignments listed in an area defined in Table 1 and those assignments not considered as an elevated priority will be paid under the unit price bid per LF completed and accepted as Proactive.
  2. (Bid Item 01550-2) Reactive: All Smoke Testing assignments with an elevated priority will be paid under the unit price bid per LF under Reactive.
- K. Acoustic Inspection, 12" and less Diameter Pipe: Measurement for payment for acoustic inspections shall be made at the unit price bid per linear foot (LF) of mapped GIS length for the line segment tested. 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 shall not be made for acoustic

inspections where digital files are incomplete, inaccurate, or where recorded data are inconsistent or illegible.

1. (Bid Item 1555-1) Proactive: All Acoustic Inspection assignments listed in an area defined in Table 1 and those assignments not considered as an elevated priority will be paid under the unit price bid per LF completed and accepted as Proactive
  2. (Bid Item 1555-2) Reactive: All Acoustic Inspection assignments with an elevated priority will be paid under the unit price bid per LF under Reactive.
- L. Dye Testing, Proactive work will be paid under Bid Item 01560-1. Reactive work will be paid under Bid Item 01560-2. Measurement 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 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.
- M. Erosion and Sedimentation Control (suitably installed and maintained per the Manual for Erosion and Sediment Control of Georgia, Latest Edition) and other ancillary items: Measurement for payment for the activity with which the Erosion Control Item(s) is associated 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 County. 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. Payment for various Erosion and Sedimentation Control devices installed and maintained will be as follows:
1. (Bid Item 02273-1 )Riprap: Measurement for payment will be per square yard (SY) for riprap. Payment shall constitute full compensation for all costs associated with installation, maintenance, and repair of the Riprap. 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 other areas at creeks or ditches disturbed by the Contractor requiring riprap shall be riprapped at no cost to the County.
  2. Tree Protection Fence (Bid Item 02276-1): Measure for payment will be per linear foot (LF) for the tree protection fence suitably installed and maintained per the *Manual of Erosion and Sediment Control of Georgia*, latest edition. Payment shall constitute full compensation for all costs

- associated with tree protection fencing, including installation, maintenance, repair, and removal.
3. Tree/Shrubbery Restoration (Bid Item 02276-2 and 02276-3): Measurement for payment will be per each (EA) tree or bush removed and/or replaced for either native or ornamental species. Payment shall constitute full compensation for all associated costs for removing and replacement of the designated size of tree(s) 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 02276.
  4. Chain Link Fence Removal & Replacement (Bid Item 02276-4): Measurement for payment will be per linear foot (LF) of chain link fence removed and replaced. Payment shall constitute full compensation for all costs associated with removing & replacing fence (all heights), including materials, installation, maintenance, repair, and debris 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 02276.
  5. Wood Fence Removal & Replacement (Bid Item 02276-5): Measurement for payment will be per linear foot (LF) of wood fence removed and replaced. shall constitute full compensation for all costs associated with remove & replace fence (all heights), including materials, installation, maintenance, repair, and debris 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 02276.
  6. (Bid Item 02276-6) Check Dam (Hay Bales): Measurement for payment will be per linear foot (LF) of check dam installed and maintained. Payment shall constitute full compensation for all costs associated with material, grading, installation suitably installed and maintained in accordance with *The Manual for Erosion and Sediment Control of Georgia*, Latest Edition, No separate payment will be made for maintenance, repair, and removal.
  7. (Bid Item 02276-7) Inlet Sediment Trap: Measurement for payment will be per each (EA) for inlet sediment traps suitably installed and maintained in accordance with the Manual for Erosion and Sediment Control of Georgia, Latest Edition. Payment shall constitute full compensation for all costs associated with grading, installation, maintenance, repair, and removal. Contractor shall be responsible for installing the number of sedimentation traps to adequately capture silt, thus minimizing silt leaving disturbed sites.
  8. (Bid Item 02276-8) Temporary Creek Crossing  $\leq 18$ " Diameter Pipe, Installed and maintained: Measurement for payment will be made per each (EA) complete temporary creek crossing suitably installed and maintained in accordance with the Manual for Erosion and Sediment Control of Georgia, Latest Division. Payment shall constitute full



- compensation for all costs associated with grading, installation, maintenance, repair, and removal.
9. (Bid Item 02276-9) Temporary Creek Crossing > 18” to 36” Diameter Pipe, Installed and maintained; Measurement for payment will be made per each (EA) complete temporary creek crossing suitably installed and maintained in accordance with the Manual for Erosion and Sediment Control of Georgia, Latest Division. Payment shall constitute full compensation for all costs associated with grading, installation, maintenance, repair, and removal.
10. (Bid Item 02485-1) Sodding: Measurement for payment will be made per square yard (SY) of sod installed and accepted. Payment shall constitute full compensation for all costs associated with fine grading, fertilizing, and sodding, including ancillary work (including watering if necessary), on 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.
11. (Bid Item 02486-1) Seeding: Measurement for payment will be made per square yard (SY) of seed and straw in place and accepted. Payment shall constitute full compensation for all costs associated with fine grading, fertilizing, and seeding, including ancillary work, 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.
12. (Bid Item 02542-1 and 02542-2) Silt Fence: Measurement for payment will be made per linear foot (LF) for Type C silt fence single or double row as required, suitably installed and maintained in accordance with the *Manual of Erosion and Sediment Control of Georgia*, Latest Edition. Payment shall constitute full compensation for all costs associated with Silt Fence, including, but not limited to installation, maintenance, repair, and removal.
- N. Construction Access Road (Bid Item 02110-1): Measurement for payment will be per linear foot (LF) of Access Road suitably installed and maintained per the Manual of Erosion and Sediment Control of Georgia latest edition (modified by width and no “construction entrance”). Payment shall constitute full compensation for all costs associated with installation, maintenance, repair, and removal of the Access Road. Access Road Construction shall be as approved by the Program Manager. The Contractor is reminded that off-road equipment is required for cleaning and assessment under this contract.
- O. Easement Clearing, Light & Medium (Bid Item 02110-2 and 02110-3): Measurement for payment will be per square yard (SY) for the type of classification category of clearing as agreed to by the Program Manager. 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. The Contractor and Program Manager will inspect the site and agree upon the level of clearing and the appropriate pay item prior to the work.

- P. Easement Clearing, Heavy (Bid Item 02110-4): Measurement for payment will be per caliper inch for the type classification category of cleaning. Payment will 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. The Contractor and Program Manager will inspect the site and agree upon the level of clearing and the appropriate pay item prior to the work. Where required, Erosion & Sediment Control BMP's will be paid as a separate item.
- Q. Adjusting Manhole Height  $\leq 12"$ . Measurement for payment will be per each (EA) manhole for removing the frame & cover 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 County at no cost to the Contractor. 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. That work shall be considered an integral part of adjusting manholes. Manholes located in paved areas will require a concrete collar in accordance with DeKalb Standard Drawing S-006. No separate payment will be made for the concrete collar. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.
1. (Bid Item 02607-1) Proactive work: All manhole height adjustment assignments listed in an area defined in Table 1 and ancillary to the Assessment assignment for that area and those assignments not considered as an elevated priority will be paid under the unit price bid per EA completed and accepted as Proactive.
  2. (Bid Item 02607-7) Reactive work: All manhole height adjustment assignments carrying an elevated priority will be paid under the unit price bid per EA completed and accepted as Reactive.
- R. Adjusting Manhole Height  $> 12"$ . Measurement for payment will be per vertical foot (VF) of manhole height adjustment exclusive of the manhole frame height. No separate payment will be made for 12" or less height adjustment Bid item 02607-1 and 02607-7 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 County 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. Manholes located in paved areas will require a concrete collar in accordance with DeKalb Standard Drawing S-006. No separate payment will be made for the concrete collar. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.

1. (Bid Item 02607-2) Proactive work: All manhole height adjustment assignments listed in an area defined in Table 1 and ancillary to the Assessment assignment for that area and those assignments not considered as an elevated priority will be paid under the unit price bid per (VF) completed and accepted as Proactive.
  2. (Bid Item 02607-8) Reactive work: All manhole height adjustment assignments carrying an elevated priority will be paid under the unit price bid per (VF) completed and accepted as Reactive.
- S. Locate & Expose Buried Manhole, Street & Non-Street. 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. There will be no distinctions made for manholes located beneath brick, cobbles, concrete, asphalt or other hard surfaces. Those manholes located outside of paved areas are non-street manholes. 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.
- a. (Bid Items 02607-3 and 02607-4) Proactive work: All locate & expose assignments associated with Proactive assessments in an area defined in Table 1 and ancillary to the Assessment assignment for that area and those assignments not considered as an elevated priority will be paid under the unit price bid per EA completed and accepted as Proactive.
  - b. (Bid Items 02607-9 and 02607-10) Reactive work: All locate & expose assignments carrying an elevated priority will be paid under the unit price bid per EA completed and accepted as Reactive.
- T. Replace Manhole Cover (Standard, Waterproof). Measurement for payment will be per each (EA) for replacement of manhole covers. This work includes replacing vented manhole covers with solid covers and replacing other manhole covers such as waterproof or standard manhole covers that need to be replaced. Payment will constitute full compensation for all costs associated with changing out the manhole cover, regardless of type, 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 County at no cost to the Contractor. The Contractor will need to test covers for a “best fit” in traffic situations to prevent rattling. Maintenance of traffic

and associated traffic control measures required for the work shall be included in the unit price.

1. (Bid Item 02607-5) Proactive work: For work assignments containing 25 or more locations for manhole cover replacement and not having an elevated priority, the payment will be under Proactive Work.
  2. (Bid Item 02607-11) Reactive work: For work assignments containing 1 to 25 locations for manhole cover replacement and/or assignments with an elevated priority, the payment will be under Reactive Work.
- U. Replace Manhole Frame and Cover (Standard, Waterproof), Proactive work will be paid under Bid Item 02607-6. Reactive work will be paid for under Bid Item 02607-12: Measurement for payment will be per each (EA) for replacement of manhole frame and cover, completed and accepted. This work includes replacing manhole frames and covers that need to be replaced with the associated pavement or landscape repair made necessary by the work. Manholes located within paved areas will require a concrete collar in accordance with DeKalb Standard Drawing S-006. Payment will constitute full compensation for all costs associated with removing the existing manhole frame and cover, regardless of type, and replacing it with a new manhole frame and cover and other ancillary work. The costs include, but is not limited to, labor, equipment, transportation, tools, removal and replacement of asphalt as needed, and all other related procedures and materials necessary to produce the results specified in Section 02607. Replacement MH frame and cover will be provided by the County 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. Note, this item will not apply to Manhole Height Adjustments requiring the replacement of new frame and covers.
- V. Road Pavement Patch (Bid Item 2700-1): Road pavement patch is ancillary work associated with point repairs made within a paved area. Work will be in accordance with DeKalb County Standard Drawing S-016 modified to indicate dyed concrete of the appropriate thickness flush with the surrounding pavement or recessed cap with an asphaltic concrete surface as required by the jurisdiction. Measurement will be by the square yard (SY) of surface area for the patch. Payment shall constitute full compensation for all costs associated with the removal and disposal of existing pavement, saw cutting of existing pavement if necessary to make a neat line, and placement of new pavement including restoration of existing pavement markings if applicable 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 on the GA DOT website). Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price.
- W. Heavy Cleaning, Sanitary Sewer, 8" to 18" Diameter. Measurement for payment will be per linear foot (LF), for the collection and removal of debris, 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. Heavy Cleaning must be approved by the Inspector in the field or through alternate methods whereby the Contractor provides information that will indicate that the cleaning was at a level

necessitating heavy cleaning. Payment will constitute full compensation for 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.

- a. (Bid Item 02956-4.1 and 02956-4.2) Proactive work: All heavy cleaning assignments associated with Proactive and/or Reactive CCTV assignments underway, approved, completed and accepted will be paid under Proactive.
  - b. (Bid Item 02956-5.1 and 02956-5.2) Reactive work: All assignments in which the Contractor is directed to provide heavy cleaning for a standalone assignment for one or more pipe segments will be paid under the unit price bid per (LF) completed and accepted as Reactive.
- X. Large Gravity Line Cleaning, Sanitary Sewer, All diameters greater than 18". Large diameter cleaning will be by assignment by the Program Manager. 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 authorized Cleaning completed and approved per Specification Section 02956. No payment will be made for any unauthorized Cleaning. No separate payment will be made for mobilization/demobilization that might be required to perform the Cleaning and to continue with Post TISCIT inspections. 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 including post-cleaning TISCIT evaluation so as to verify the cleaning is complete.
1. (Bid Item 02956-4.3 through 02956-4.8) Proactive work: All cleaning assignments associated with Proactive and/or Reactive CCTV assignments in progress, assigned by the Program Manager, completed and accepted will be paid under Proactive.
  2. (Bid Item 02956-5.3 through 02956-5.8) Reactive work: All assignments in which the Contractor is directed to provide Cleaning for a standalone

assignment for one or more pipe segments will be paid under the unit price bid per LF completed and accepted as Reactive.

3. Cleaning will be classified by pipe size and the Average Cross-Sectional Area Blockage and will be determined by the actual measured (Pre-TISCIT) volume of deposits and other debris found in the pipe:
    - a.  $\leq 15\%$  Blockage: Where the volume of debris/deposits/in the pipe segment calculated over the length of the total line segment equates to that of a line segment holding 15% blockage for that length (MH to MH);
    - b. 15% - 25% Blockage: Where the volume of debris/deposits/in the pipe segment calculated over the length of the total line segment equates to that of a line segment holding 15% blockage for that length but less than or equal to that calculated over the total length of the line segment holding 25% blockage for the length (MH to MH);
    - c.  $> 25\%$  Blockage: Where the volume of debris/deposits/in the pipe segment calculated over the length of the total line segment exceeds that of a line segment holding 25% blockage for the length of pipe (MH to MH);
    - d. If the entire length of pipe cannot be assessed, the cleaning work order will be based on the level as calculated for the length of pipe assessed.
  4. Cleaning will not be considered complete and accepted until a Post-TISCIT verification (PACP standard) is performed indicating that deposits/obstructions are not in excess of 5%.
- Y. Sewer, External Point Repairs, All Diameters, All Pipe Materials, All Depth Categories; Bid Item 02535-1 through 02535-4: All External Point Repairs are considered to be Reactive. Measurement for payment will be per each (EA) sewer main point repair eight (8) linear feet (LF) in length minimum as measured from the centerline of each connection coupling along the longitudinal axis of the sewer main, rounded to the nearest foot and two (2) service reconnections. Payment will constitute full compensation for each external point repair, including, but not limited to, labor, materials, equipment, dewatering, pavement saw cutting, excavation, removing and disposing of unsuitable, unusable and excess excavated materials, shoring, disposing of all waste materials, transportation, safely maintaining trenches and excavations until repairs are completed, furnishing and installing new piping, furnishing and installing repair couplings, pipe bedding, backfill and compaction, post construction CCTV quality control inspection, including pipe bedding and backfilling per Section 02324. No separate payment shall be made for concrete or mechanical joint fittings. No separate payment shall be made for rebuilding pipe penetrations and existing manhole inverts considered incidental to the Work. The point repair depth shall be the measured depth at the point of repair for measurement and payment purposes regardless of the actual sewer main pipeline depth. Each point repair shall include replacing the section of sewer main pipe eight (8) linear feet (LF) in length, replacing up to two (2) service reconnections including furnishing and installing necessary service connection pipe, fittings, and flexible coupling for a complete reinstatement of the sewer collection piping assembly. Payment will not be remitted to repair any damage to surrounding areas caused by the Contractor in

performance of the Work unless specifically authorized in writing by the County's Representative. Maintenance of traffic and associated traffic control measures required for the work shall be included in the unit price. The depth shall be the average depth of the actual repair as measured in the field. Excavated material not suitable for backfill will be replaced with Select Backfill (Bid Item 02324-1) when authorized by the Program Manager. Road Pavement Patch, Select Backfill and other ancillary items shall be paid under other pay items in this contract.

- Z. Sewer External Point Repairs, Additional Linear Footage , All Dimensions, All Pipe Diameters, All Pipe Materials, All Depth Categories, Bid Item 02535-1.1 through 02535-4.1. Measurement for payment will be per linear foot (LF) of sewer pipe in excess of the eight (8) linear feet (LF) included in the unit price above for an External Point Repair (Bid items 02535-1 through 02535-4). All length measurements shall be taken as field measurements along the longitudinal axis of the sewer. The depth category shall be the same average sewer main depth as measured for aforementioned point. Payment shall constitute full compensation for all costs for additional piping including, but not limited to, labor, equipment, dewatering, pavement removal and replacement, excavating, removing and disposing of excavated material if replaced with imported material per Section 02324, shoring, disposing all waste materials, transportation, safety, maintaining open pit until repairs are completed, installing new piping and backfilling per Section 02324. Maintenance of traffic and associated traffic control measures required for work shall be included in the price.
- AA. Sewer Manholes, 48" to 60" Diameter, 0' to 10' Depth, Pre-Cast Concrete, Bid Item 02641-1 and 02641-3. All Manhole Replacements are considered Reactive. Measurement for payment will be per each (EA). Payment will constitute full compensation for all costs for installing new pre-cast concrete manholes, complete per Section 02641. The unit price bid shall include, but not limited to, excavation, manhole foundation, bedding, base, riser section(s), cone, anti-flotation measures (if required), chimney, frame, cover, sealant, flexible piping, connections, invert, bench(s), trough, connecting the pipes to the manholes, backfill and manhole vacuum testing, pavement and/or landscape refurbishing. Sewer Manhole depth is defined as the distance from the bottom of the base of the manhole to the top of the frame cover. Maintenance of traffic and associated traffic control measures required for the work shall be included in the price.
- BB. Sewer Manhole 48" to 60", Additional Depth, Bid Items 02641-2 and 02641-4: Measurement for payment for additional depth associated with new manholes will be per vertical foot (VF) of manhole height adjustment in excess of the ten (10') (VF) depth specified for Sanitary Sewer Manhole, 48"-60" Diameter.
- CC. Select Backfill, Additional Fill Material for Sewer External Point Repair, All Pipe Diameters, All Pipe Materials, All Depth Categories, Bid Item 02324-1. Measurement for payment will be per ton (TN) for all material used for the External Point Repair. Payment will constitute full compensation for all costs for acquisition, transportation, trenching, backfilling, shoring, compacting, safety, removal and disposing of unused excavated material, complete per Section 02324. Maintenance of traffic and

associated traffic control measures required for the work shall be included in the price.

- DD. Hydrant Meter/Water Consumption Charges: The Contractor will pay all fees associated with the acquisition, monthly charges, and water consumption associated with the Contract. The hydrant meter rental and consumption charges will be reimbursed the Contractor as a part of the pay application process upon application for payment accompanied by backup information relative to the consumption and payment.
  
- EE. Sanitary Landfill: The Contractor will pay all disposal fees associated with the utilization of the County's Seminole Road Landfill. These dumping 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.
  
- FF. Uniformed Police Officer (Traffic Control): The jurisdictional payment for a uniformed police officer necessary to perform traffic control (where authorized and/or directed by the Program Manager) will be reimbursed the Contractor via the monthly pay request process when those charges and supporting documents indicating date, location, hours, and payment are submitted for payment and verified by the Program Manager

**END OF SECTION**