

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 -- GENERAL

1.1 SCOPE

- A. Payment for various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor operations and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the WORK all in accordance with requirements of the Contract Documents, including all appurtenances thereto, and including all costs of permits and cost of compliance with the regulations of public agencies having jurisdiction, including Safety and Health Requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA). No separate payment will be made for any item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenances needed to complete the items of work.

1.2 UNIT PRICE ITEMS LABELED "LUMP SUM (LS)"

- A. Measurement for payment of the "Lump Sum" items will be based upon the completion of the work as a lump sum unit, complete, as specified and as indicated.
- B. Payment for completion for the "Lump Sum" items will be made at the price named in the Contract Summary which price shall constitute full compensation for completing said work.

1.3 UNIT PRICE ITEMS BASED UPON FOOTAGE

- A. Measurement of the footage for linear foot items including will be recorded by the foot with one complete foot as the smallest unit of length credited to the CONTRACTOR
- B. Payment will be based on actual quantities furnished, installed, or constructed in accordance with the CONTRACTOR's Contract Summary.

1.4 ABORTED TESTING

- A. No payment for any portion of the aborted test or recovery period will be made to the CONTRACTOR.

PART 2 -- PRODUCTS (NOT USED)

3.1. EXECUTION CONTRACT SUMMARY:GENERAL WORK

- A. GENERAL

1. GENERAL REQUIREMENTS AND MOBILIZATION (Bid Item No. 1)
 - a. Payment for this item shall be made at the Contract lump sum price. The lump sum price shall include all costs associated with temporary facilities; insurance; bonds; licenses; surveying, layout, and field staking and all other miscellaneous administrative or pre-construction costs not specifically included under other pay items. Construction materials are excluded from this item.
 - b. Surveying, Layout, and Field Staking shall be considered incidental to the Work and shall be included in the Contract Lump Sum Price. This payment constitutes full compensation for all labor, materials, equipment, and services required to perform surveying, construction layout, and field staking in accordance with Specification 01050 - Field Engineering.
2. DEMOBILIZATION (Bid Item No. 2)
 - a. Payment for demobilization shall be made at the Contract lump sum price corresponding to this line item and shall include all materials, labor, equipment, and services necessary to complete site clean-up, final submittals, touch-up and repair, demobilization, record drawings, and project closeout documents for the Work that will be required for all improvements associated with the Gravity Sewer Replacement.
3. AUDIO – VIDEO RECORD (Bid Item No. 3)
 - a. Measurement of various items for Audio - Video Preconstruction Records will not be made for payment, and all items shall be included in the lump sum price. This lump sum shall include the taping and recording of conditions along the project route, easements, and right-of-way centerline within the project limits.
 - b. Payment shall be made at the Contract lump sum price for Audio - Video Preconstruction Record as measured above, which price and payment shall be full compensation for all materials, equipment, labor, taping, and other such items as may be necessary to complete the item of work.
4. MAINTENANCE OF TRAFFIC (Bid Item No. 4)
 - a. Measurement of various items for Maintenance of Traffic will not be made for payment and all items shall be included in the lump sum price.

- b. Payment for Maintenance of Traffic will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for the work and operations required to furnish, erect, and maintain all necessary traffic control and safety devices in accordance with the latest Manual of Uniform Traffic Control Devices (MUTCD) and the latest Florida Department of Transportation Roadway Design Standards (FDOTRDS). Maintenance of traffic shall include both vehicular access to the limits of construction, commercial and residential driveway access, and the pedestrian traffic along the existing sidewalk within the limits of the project. CONTRACTOR shall maintain access for local traffic with destinations within the project limits at all times. Temporary obstructions of existing driveways shall be limited to 4 hours per 24hour period between 9am and 3pm weekdays only. If during construction access for local traffic changes, then CONTRACTOR shall notify the owner(s) a minimum of 3 business days in advance.
 - c. CONTRACTOR shall be responsible for developing a detailed Maintenance of Traffic plan which is specific to the construction of this project.
 - d. FDOT and the City of Cocoa Beach require the maintenance of traffic plans be submitted for review and approval. Plans shall be signed and sealed by a registered professional engineer FDOT or the City of Cocoa Beach may consider requests from CONTRACTOR for changes to the maintenance of traffic plan provided they are in accordance with the MUTCD and FDOTRDS. Approval shall be required prior to implementation of the Maintenance of Traffic plan or any modifications thereto within City right-of-way.
 - e. Cost associated with preparation, submission for review, and implementation of the Maintenance of Traffic Plan shall be included in this bid item.
5. DEWATERING CONTAINMENT AND DISPOSAL (Bid Item No. 5)
- a. Payment will be made at the lump sum price submitted on the Bid Schedule. Payment shall be full compensation for all labor, materials, and equipment required to dewater the sanitary sewer mains during construction. This bid price shall constitute full payment for such measures including, but not limited to, dewatering, filtering of water, groundwater sampling and testing needed for permitting or compliance with FDEP requirements, removal and transportation of dewatered material to a designated disposal site, and proper disposal of the material in accordance with all local, state, and federal regulations.
6. LOCATE UTILITIES IN ADVANCE OF CONSTRUCTION (Bid Item No. 6)

- a. Payment will be made at the lump sum price submitted on the Bid Schedule. Contractor shall furnish all labor, materials and equipment necessary to physically locate all utilities in the immediate project area using non-destructive digging equipment, supplies and personnel experienced in the use of subsurface utility engineering (SUE) to determine the precise horizontal and vertical positions of utilities, specified herein, and/or as directed by the Engineer. CONTRACTOR shall perform utility locates at least 14 calendar days in advance of construction in order to request clarification if required from the engineer. The Engineer will have 7 calendar days to respond. The contractor is hereby notified that deviations in the design alignment will be permitted due to existing utility conditions. The alignment deviations will be the contractors responsibility to coordinate and as-built throughout construction. If alternate construction means are required for the installation of the materials along a new alignment, those alternate methods will be at the contractors expense.
- b. It is the responsibility of CONTRACTOR to officially notify "Sunshine," "Dig Safe," or the utilities directly prior to commencing any work. CONTRACTOR shall coordinate all existing utility adjustments with the appropriate utility provider. Copies of the issued Sunshine locate tickets and photographs of the locates, including dates and location of the photographs shall be submitted to the City. The cost of locating and documenting all underground facilities shall be included in Bid Item No. 6, Utility Coordination.
- c. Additional "soft dig" investigation may be required under this contract to determine existing utility elevations near all conflict areas as shown on the plans. The data from these areas must be evaluated by the Engineer prior to commencement of any existing utility diversions. It shall be CONTRACTOR's responsibility to identify any additional conflict points following utility locates and present these to the Engineer with elevation data.

B. GRAVITY SEWER REPLACEMENT

1. FURNISH AND INSTALL PVC GRAVITY SEWER PIPE VIA OPEN-CUT (Bid Items Nos. 7, 8, and 9)
 - a. Payment for furnishing and installing 6", 8" and 12" (open cut) diameter gravity sewer pipelines via open-cut construction as shown in the Contract Documents will be based on the laying length of the pipe in linear feet actually placed as measured along the centerline of the completed pipe including the lengths of rubber boot and fittings. Contractor shall furnish all labor, materials and equipment necessary to complete the item of work. Payment for pipe will be made at the Contract unit price per linear foot for the size and type installed, which price and payment shall be full compensation for all clearing, grubbing, trenching, protection and/or support of existing utilities including pole vibration and deflection monitoring, CLSM, sheeting and shoring, pipe bedding, backfill and compaction, erosion control, testing, and all equipment and all other work necessary to complete the installation as specified in the contract documents.
2. FURNISH AND INSTALL 8"X8" SS WYE (Bid Items No. 10)
 - a. Payment for furnishing and installing 8" x 8" Wyes, as specified in the Contract Documents, will be calculated based on the actual quantity of Wyes installed. The Contractor is responsible for providing all necessary labor, materials, and equipment to complete the work. This price and payment will constitute full compensation for all activities such as clearing, grubbing, testing, and any other work required to complete the installation as specified in the contract documents.
3. FURNISH AND INSTALL SANITARY SEWER MANHOLE (Bid Item No. 11)
 - a. Measurement and Payment will be paid for each sewer manhole actually furnished, installed and accepted. Payment for the work will be made at the Contract Unit Price and shall be full compensation for the item of work including, spectrashield coating; excavation; backfilling and compaction and density testing when backfilling; all sheeting, shoring and bracing; protecting existing structures, utilities and property; cleaning up the site; disposal of debris; surface preparation; furnishing all labor, materials, tools and equipment for manhole construction, including manhole frames, covers, inside or outside drops, all pipe connections, leakage testing, and all work appurtenant thereto.
4. CONNECTION TO EXISTING MANHOLE (Bid Item No. 12)
 - a. Payment for standard connections, drop connections, service lateral connections and force main connections to existing manholes will be at the unit price set forth in the contract for the size and type of connection. The unit price will constitute compensation in full for each connection actually furnished and installed including excavation; native soil backfill; compaction; coring; piping; fittings; rubber boot or sand sleeve; grouting and repair to existing manhole wall section; placing and removing all traffic signs and barriers and maintaining traffic plus all incidental work including all labor, materials, tools and equipment.
4. CONNECTION TO EXISTING 8" VCP PIPE (Bid Item No. 13)

- a. Payment for the connection of the proposed PVC pipe to the existing 8" VCP pipe will be at the Contract unit price per each connection completed and payment shall be full compensation for excavation and trenching as required, cutting and preparation of the existing VCP pipe, furnishing and installing all necessary fittings, adapters, and couplings, connection of the new 8" PVC DR 26 pipe to the existing VCP, including alignment and grade adjustments plus all incidental work including all labor, materials, tools and equipment.
5. REMOVAL OF PIPE (Bid Items No. 14 and 15)
 - a. Payment to remove existing mains (various sizes) and all associated appurtenances and fittings incidental to construction of new facilities, will be made at the Contract unit price per linear foot for all mains designated to be removed in accordance with the project technical specifications and the Drawings.
6. ABANDON PIPE IN PLACE WITH GROUT (Bid Item No. 16)
 - a. Payment to abandon and grout existing mains (various sizes) and all associated appurtenances and fittings incidental to construction of new facilities, will be made at the Contract unit price per linear foot for all mains designated to be grouted in accordance with the project technical specifications and the Drawings.
7. REMOVAL OF EXISTING 4' MANHOLE (Bid Item No. 17)
 - a. Payment to remove existing manholes and all associated appurtenances incidental to construction of new facilities, will be made at the Contract unit price per each off all manholes designated to be removed in accordance with the project technical specifications and the Drawings.
8. ASPHALT MILL AND OVERLAY (Bid Item No. 18)
 - a. Measurement and Payment will be paid for each square yard of existing asphalt layer removed and each square yard of new 1.5" asphalt layer applied and accepted. Payment for the work will be made at the Contract Unit Price and shall be full compensation for the item of work including, but not limited to, milling and removal of existing asphalt layer to a specified depth, cleaning and preparing the surface, repairing any defects, and applying a new layer of asphalt of a specified thickness. The work also includes the disposal of debris, and all work appurtenant thereto. All pavement replaced shall meet the requirements of the Agency (FDOT and City of Cocoa Beach) responsible for the maintenance of the pavement.
9. ASPHALT RESTORATION (Bid Item No. 19)
 - a. Payment for Asphalt Removal and Replacement will be made at the Contract unit price per square yard for the respective thickness, which price and payment shall be full compensation for all cutting, excavation, clean fill material, compaction, stabilized subgrade, grade aggregate base course, leveling course, prime and surface courses, removing and disposing of existing material, protecting and replacing existing pavement. All pavement replaced shall meet the requirements of the Agency (FDOT or the City) responsible for the maintenance of the pavement.

10. SIDEWALK RESTORATION (Bid Item No. 20)

- a. Measurement and Payment will be paid for each square yard of sidewalk actually removed, replaced, and accepted. Payment for the work will be made at the Contract Unit Price and shall be full compensation for the item of work including, but not limited to, removal and disposal of any damaged or displaced sidewalk sections, preparation of the subgrade, and installation of new concrete sidewalk sections. The work also includes the necessary traffic control measures, restoration of adjacent surfaces, and all work appurtenant thereto.

11. SOD RESTORATION (Bid Item No. 21)

- a. Measurement and payment shall be made at the Contract unit price per square yard of sod installed, which price and payment shall be full compensation for all materials, equipment, labor, and other such items as may be necessary to complete the item of work.

12. CURB AND GUTTER RESTORATION (Bid Item No. 22)

- a. Measurement of Curb and gutter restoration will be based on the actual linear feet of curbs to be removed and restored. Payment for Curb and gutter restoration will be made at the contract unit price per linear feet for all labor and equipment necessary to remove, dispose of existing curb, backfill area with clean fill, compact and grade area as specified in the Contract documents.

13. SANITARY SEWER BY-PASS (Bid Item No. 23)

- a. Measurement and Payment for the work will be made at the Contract daily Lump Sum Price and shall be full compensation for the item of work.
- b. The Daily Lump Sum Price shall be applied per calendar day that the bypass system is actively in use, as determined and approved by the City. The total compensation for this item will be calculated by multiplying the Daily Lump Sum Price by the actual number of approved bypass days.
- c. Measurement and payment shall include all labor, materials, equipment, tools and incidentals for pump setup, plugging, pumping and diversion of sewage flow, development of the flow control and bypassing plan, setup, pumps, piping, fuel/electricity, maintenance, transportation and storage, temporary bypass and service piping, confined space entry and equipment, inserting and removing pipe plugs, constructing bulkheads, pumping flows, monitoring water levels, installing bypass/diversion piping, trenching, jacking and boring, abandoning the jacked casing, plating for diversion piping, backfill, compaction, placing temporary pavement, and all other necessary equipment, work, and materials required to accomplish sewage bypassing until completion of the rehabilitation process in accordance with the Plans and Specifications.

14. PAVEMENT MARKING (Bid Item No. 24)

- a. Measurement and Payment for the work will be made at the Contract linear foot Price and shall be full compensation for the item of work including, but not limited to, application of traffic lines, symbols, and markers in accordance with the local and state regulations. The work also includes the necessary surface preparation, and all work appurtenant thereto.

C. DEDICATED ALLOWANCE ITEMS

1. LOCAL GOVERNMENT PERMITS AND FEES - ALLOWANCE (Bid Item No. 25)

- a. Payment will be made to the Contractor based on actual invoiced amounts paid by the Contractor to obtain required FDEP Notice of Intent to Discharge Stormwater from Construction Activities and any other local permits required.

2. CONTINGENCY FUND – ALLOWANCE (Bid Item No. 26)

- a. This bid item is a contingency allowance that is established for miscellaneous work items such as testing to be determined by the OWNER. The CONTRACTOR shall furnish all labor, materials, equipment, and incidentals to complete the additional work requested by the OWNER or other changes approved by the OWNER. The OWNER is not obligated to utilize any of the funds allocated to this pay item. Proposals for allowance work shall be submitted to the OWNER for approval prior to initiating work, and any work under this pay item and associated payment shall be based on a time and material and equipment basis. Final invoices and other supporting documentation shall be submitted for final payment of work
- b. Work not confirmed by the OWNER or the ENGINEER in writing prior to repair may not be measured for payment.

END OF SECTION