

EXHIBIT "A"
SCOPE OF SERVICES

Districtwide Storm Sewer Inspection

1.0 Objective:

The Department desires to obtain services from the Vendor to inspect existing storm sewer systems. This includes the remote video taping of the interior of culverts, the physical inspection of the interior of existing storm sewer manholes and inlets, and obtaining recommendations for appropriate methods of repair. Methods of repair will include proven trenchless pipe repair technologies.

1.1 Services:

A. Entire storm sewer system is assumed to be flooded at the time of inspection. The Vendor shall desilt and video the interior of existing culverts using closed circuit television in accordance with the latest guidelines of National Association of Sewer Service Companies (NASSCO) as found in the **NASSCO Manual of Practices – Wastewater Collection Systems** and the latest **NASSCO Specification Guidelines**. The camera used must be able to pan and tilt 90 degrees so as to obtain a view normal to the culvert wall. Proper turbidity controls shall be utilized during desilting activities. Silt shall not be blown out into adjacent water bodies without proper containment and silt removal. A written binned report of findings will be made which will include a comprehensive rehabilitation summary denoting any necessary repair work along with an estimated cost for each associated repair. Defects identified during this review will be documented and inspection logs will be included in an Appendix to this report. Results and recommendations will be available on computer programs compatible with Department systems.

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B. The Vendor shall physically inspect, by manned entry, the interior of existing manholes and inlets in accordance with the latest guidelines of NASSCO as found in the **NASSCO Manual of Practices – Wastewater Collection Systems** and the latest **NASSCO Specification Guidelines**. Each accessible structure will be opened and physically entered in an effort to determine its condition. All Occupational Safety and Health Administration (OSHA) requirements for confined space entry will be followed. The manhole structure will be inspected to determine the following: depth of structure, diameter of structure, construction type and condition, manhole frame and cover condition, sizes and types of all incoming and outgoing pipes, depth of flow in each pipe, depth of debris in each pipe and overall condition of the entire structure. Visible evidence of infiltration will be noted. Each pipe line entering and exiting the structure will be lamped with a high intensity light in order to determine its condition. Additionally, the pipe walls will be sounded in order to determine any structural degradation. A written binded Report of Findings will be made which will include a comprehensive rehabilitation summary for each structure noting recommended repair work along with its associated cost.

All inspection information gathered will be catalogued on special inspection forms which appear in an appendix to the Report of Findings. Results and recommendations will be available on computer programs compatible with Department systems.

If a drainage structure to be inspected is not accessible for manned entry as determined by the DEPARTMENT Project Manager, closed circuit television in accordance with the latest guidelines of NASSCO as found in the **NASSCO Manual of Practices – Wastewater Collection Systems** and the latest **NASSCO Specification Guidelines** may be used to inspect the structure.

- C. The Vendor will review existing closed circuit television inspection video tapes and prepare television inspection logs. A written binded Report of Findings will be made which will include a comprehensive rehabilitation summary denoting any necessary repair work along with an estimated cost for each associated repair. Defects identified during this review will be documented and inspection logs will be included in an appendix to the Report of Findings. Results and recommendations will be available on computer programs compatible with Department systems.
- D. All written reports presenting findings and comprehensive rehabilitation summaries shall be signed and sealed by a Professional Engineer. Deliverables for projects shall include a hand copy report, electronic copy (i.e. pdf) of report and any video inspection. Results and recommendations will be available on computer programs compatible with Department systems.

1.2 Site Conditions

- A. Upon receipt of any Request for Estimate, the Vendor shall evaluate the work site and determine whether any foreseeable item of expense is not covered by a pay item under this contract. If the Vendor determines that any foreseeable item of expense is not covered by a pay item under this contract, the Vendor shall notify the DEPARTMENT of this fact. The parties shall negotiate a price for such items prior to initiation of the associated work and the vendor shall await a written authorization to proceed. In the event that no such prior notification is made or no such prior authorization is received, the Vendor will not be paid for the expense(s) in question. No after-the-fact change orders will be considered or approved.

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- B. The Vendor acknowledges, through submittal of a price proposal for a given task order, that the Vendor has investigated and is aware of all the conditions affecting the work, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials, availability of labor, water, electric power, access, maintenance of traffic (MOT), uncertainties of weather, river stages, tides, water tables or similar physical conditions at the site, the conformation and conditions of the ground and the character of equipment and facilities needed preliminary to and during completion of the work. In addition, the Vendor shall be aware of the character, quality and quantity of subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, or from any other information made available by the DEPARTMENT. Any failure to meet the above mentioned conditions will not relieve the Vendor from properly estimating the difficulty or cost of successfully performing the Work. The DEPARTMENT assumes no responsibility for any conclusions or interpretations made by the Vendor on the basis of the information made available by DEPARTMENT.
- C. The Vendor shall take color photographs or video to document pre-existing above-ground conditions above and around pipes and structures to be cleaned and inspected under this contract, and shall provide DEPARTMENT with a set of photographs or video tapes. These photographs or tapes will be used to evaluate symptoms of subsurface problems such as asphalt patches and sinkholes, or other evidence of potential underlying problems. Digital photographs supplied on a CD are also acceptable. The Vendor shall also provide photographic evidence, before de-silting, for pipes **30"- inch** in diameter and larger, and **>20%** siltation. The price proposal or estimate shall include a copy for each of the items that meet these conditions. The photograph shall include a description of the pipe with the respective station and identification as per plans submitted to the contractor at the time of the Request for Proposal.

1.3 Differing Site Conditions

- A. The Vendor shall promptly and before such conditions are disturbed, notify the DEPARTMENT in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in this contract or identified in the Vendor's estimate, or (2) unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for this contract. The DEPARTMENT will promptly investigate the conditions, and if DEPARTMENT finds that such conditions do materially so differ to cause an increase or decrease in the Vendor's cost of, or the time required for, performance of any part of the work under the contract, the Department shall consider an equitable adjustment and shall modify the task work order (TWO) and / or contract accordingly.
- B. No claim of the Vendor under this clause shall be allowed unless the Vendor has given the notice required in Paragraph A.
- C. No claim by the Vendor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this contract.

1.4 Maintenance of Traffic:

Maintenance of Traffic (MOT) shall conform to the **State of Florida Manual on Roadway and Traffic Design Standards**. This includes the placement of all traffic devices (including signs), Barricades, etc. as indicated in Index 600. The cost of any MOT will be included in the Desilt Pipe, Closed Circuit TV Inspection, and Inspect Drainage Structure pay items.

1.5 Dewatering:

Pay Items are intended to compensate the Vendor for pumping down storm sewer systems in preparation for cleaning and/or inspection and are to be paid for on a **PER PUMPING SETUP BASIS**. All set-ups will be approved by the Department's Project Manager prior to the initiation of work.

1.6 Specification Development/Barnacle Removal

- A. Specification development shall be in compliance with and as supplement to the latest **Florida Department of Transportation Specification Manual**.
- B. Barnacle removal Pay Item is intended to compensate the Vendor for the removal of barnacles in order to install plugs for dewatering. Barnacle removal will be paid per pipe location and as directed by DEPARTMENT. The need for barnacle removal shall be brought to the attention of DEPARTMENT at the time of proposal for the work but in any event must be brought to the DEPARTMENT's attention prior to commencement of work.