



1500 County Road 269  
Leander, TX 78641

P.O. Box 2029  
Leander, TX 78646-2029

## EXHIBIT A

### Statement of Work (SOW) No. 30

#### TO MASTER SERVICES AGREEMENT

Statement of Work No. 22 to the Master Services Agreement between the City of Manor, Texas, as CITY, and George Butler Associates, Inc., as ENGINEER, dated October 7, 2020.

Through this SOW, CITY hereby authorizes ENGINEER to undertake the work assignment described in the following, said assignment to be performed within the terms and conditions defined in said Master Services Agreement, except as modified herein.

**ASSIGNMENT:** Professional Engineering Services for Sanitary Sewer Evaluation Study including inventory, inspection, and evaluation of selected existing sanitary sewer lines and structures for both structural condition and inflow and infiltration (I/I) defects; and provide rehabilitation recommendations for the studied assets.

#### STATEMENT OF WORK:

This SOW is generally as described below and as more particularly described in the attached Scope of Services, Exhibit A-1.

#### **TASK 100: PROJECT MANAGEMENT AND ADMINISTRATION**

Coordinate project goals and align CITY and ENGINEER expectations and purposes. Subtasks will include:

SUBTASK 1: Contract Maintenance

SUBTASK 2: Kickoff Meeting

SUBTASK 3: Progress Meetings

#### **TASK 200: FIELD INVESTIGATIONS**

SUBTASK 1: Simple Manhole Condition Assessments: The ENGINEER will perform simple manhole condition assessments on up to 50 manhole structures in a specific portion of the project area that has previously been identified as having excessive I/I quantities. Condition assessments will gather basic information about the structures and provide an overall condition rating to determine if further rehabilitation is necessary.

SUBTASK 2: Internal Manhole Condition Assessments: The ENGINEER will perform internal assessments on structures that are determined to need further, more detailed inspections in Subtask 1. It is anticipated approximately 10% of the structures inspected under Subtask 1 will require a more detailed inspection, or approximately 5 structures.

SUBTASK 3: CCTV Inspections: The ENGINEER will review CCTV inspections of up to 10,000 LF of sanitary sewers. The CCTV will be collected by a subconsultant hired by the ENGINEER. NASSCO PACP scoring,

and condition ratings will be used to score the pipes and to help determine which lines will require rehabilitation.

**SUBTASK 4: Smoke Testing:** The ENGINEER will perform smoke testing on up to 14,000 LF of sanitary sewers. This testing will identify the locations of public and private sources of I/I in a specific portion of the project area that has previously been identified as having excessive I/I quantities.

**SUBTASK 5: Dyed Water Testing:** The ENGINEER will perform dyed water testing on up to five (5) sources identified as being inconclusive during smoke testing. This task may not be necessary if all sources of I/I are identified during smoke testing.

**SUBTASK 6: Field Verify Unusual or Unclear Conditions:** The ENGINEER will field verify unusual or unclear conditions such as routing, asset locations, or utility conflicts on an as-needed basis. This time is also to be used to communicate with homeowners who may have questions about the field work being performed.

### **TASK 300: GIS DATABASE PREPARATION AND DATA ENTRY**

**SUBTASK 1: Develop GIS Database and Shapefiles:** The ENGINEER will develop GIS databases for the field work being performed. These databases will include information such as assets being inspected, results of inspections, rehabilitation recommendations, and issues found during field investigations.

**SUBTASK 2: Transfer GIS Database and Shapefiles to City:** The ENGINEER will transfer the databases set up under Subtask 1 to the CITY for their use and incorporation into their own asset management software.

### **TASK 400: DATA ANALYSIS AND RECOMMENDATIONS**

**SUBTASK 1: Inflow and Infiltration Evaluation:** The ENGINEER will perform I/I analysis on the field work completed including manhole condition assessments, CCTV, and smoke/dyed water testing. I/I parameters will be assigned to defects found in the assets and total volumetric I/I values will be calculated.

**SUBTASK 2: Manhole Inspection and CCTV Data Analysis:** ENGINEER will review the results of the manhole inspections and CCTV to determine the specific locations, extents, and severity of structural and I&I issues found during the inspections. This data will be used to create a rehabilitation plan.

**SUBTASK 3: Develop Draft Report and Submit:** The ENGINEER will prepare a report that summarizes findings of the field investigations, I/I determination, recommended I/I rehabilitation methods and locations, and high-level cost estimates of rehabilitation.

**SUBTASK 4: Draft Report Review Meeting:** The ENGINEER will schedule a meeting with the CITY to go over the results of the field investigations and analysis.

**SUBTASK 5: Develop Final Report and Submit:** The ENGINEER will prepare a final report based on the report review meeting with the CITY and any comments received from the CITY.

SUBTASK 6: Present Findings to Council: The ENGINEER will present the findings of this project at a City Council meeting.

**ADDITIONAL SERVICES:**

Services specifically excluded under this Agreement include:

1. Hydraulic Capacity Spreadsheet Model with Growth Expectations.
2. Any designs or reports not specifically listed.
3. Additional meetings and site visits not specifically listed.
4. Any other service not specifically listed.

**COMPENSATION:**

TASK 100 FEE:	\$7,894
TASK 200 FEE:	\$52,019
TASK 300 FEE:	\$1,626
TASK 400 FEE:	\$10,687

*TOTAL:* \$72,226

CITY OF MANOR, TEXAS

GEORGE BUTLER ASSOCIATES, INC.

By: \_\_\_\_\_

By: Frank T. Phelon

Date: \_\_\_\_\_

Date: 1/23/2024