



2125 County Road 1

South Point, OH 45680

P: 740-451-1010 | F: 740-894-3168

6/3/2022

LFUCG

Attn: Bob Peterson, PE  
125 Lisle Industrial Ave  
Lexington, KY 40511

Re: Wolf Run F Change Order Pricing Revised

Dear Bob,

This letter serves as Tribute Contracting's quote for the Wolf Run F change order from the plans provided by LFUCG, Pricing is as follows;

- 1) Clearing & Grubbing LS \$16,800.00
  - 2) Erosion Control LS \$2,320.00
  - 3) Construction Entrance LS \$3,000.00
  - 4) General Conditions LS \$34,800.00
  - 5) Temporary Fencing LS \$1,000.00
  - 6) Fencing (Privacy) 160' with one walk gate @ \$83.70.00 = \$13,392.00
  - 7) Pipe Bursting 21" 491' @ \$865.00 = \$424,715.00
  - 8) 21" PVC Pipe 76' @ \$346.00 = \$26,296.00
  - 9) 4' Dia. Manhole 4 @ \$8,000.00 = \$32,000.00
  - 10) 6" house service lateral 45' @ \$172.00 = \$7,740.00
  - 11) House service lateral connections to 21" PVC 3 @ \$1,600.00 = \$4,800.00
  - 12) House service Cleanouts 3 @ \$890.00 = \$2,670.00
  - 13) Connect to existing 18" sewer (manhole F-4) \$4,000.00
  - 14) Connect to existing 15" sewer (manhole F-1) \$3,600.00
  - 15) Connect to existing 8" sewer (manhole F-2) \$1,200.00
  - 16) Plug existing 18" sewer 2 @ \$800.00 = \$1,600.00
  - 17) Bypass Pumping \$21,000.00
  - 18) CCTV 567' @ \$2.00 = \$1,134.00
  - 19) MOU conditions at property's 836,838, and 840 without fencing \$65,868.06
  - 20) MOU conditions at property 842 without fencing \$33,400.00 ? Still need final pricing from Landscaper  
\$21,000.00 budgeted
  - 21) Concrete ditch repair \$2,000.00
  - 22) Method B site restoration 990sy @ \$3.50 = \$3,465.00
- Total \$706,800.06**

If you have any questions or need any additional information, please let me know.

Sincerely,

Todd Harrah, Manager/Member



2125 County Road 1  
South Point, OH 45680  
P: 740-451-1010 | F: 740-894-3168  
[tharrah88@yahoo.com](mailto:tharrah88@yahoo.com)

06/09/2022

**GRW, Inc.**  
Attn: Brittany Goodwin, PE  
801 Corporate Drive  
Lexington, KY 40503

Re: Wolf Run Trunk Sewer D&E- RFI #17- Request for 60-day time extension

Dear Brittany,

This letter serves as Tribute Contracting's RFI #17. This request is for a 60-day time extension to complete the Wolf Run F change order extension.

If you have any questions or need additional information regarding this RFI, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Todd Harrah'.

Todd Harrah, Manager/Member



engineering | architecture | geospatial

# Field Order

<b>Field Order No.:</b>	<u>14</u>	<b>Project No.:</b>	<u>4790</u>
<b>Date:</b>	<u>12/29/21</u>	<b>Owner:</b>	<u>LFUCG</u>
<b>Project:</b>	<u>Wolf Run Trunk Sewers D&amp;E</u>	<b>Contractor:</b>	<u>Tribute Contracting</u>

The **Contractor** is directed to execute this **Field Order** which interprets the **Contract Documents** or which orders minor revisions in the **Work**. By executing this **Field Order** the **Contractor** waives all subsequent claims for additional time and/or compensation for extra work related to this **Field Order**.

In the event that the execution of this **Field Order** entitles the **Contractor** to claim additional time and/or compensation, the **Contractor** must submit a proposal for review by the **Engineer**. No compensable work is to be performed until a **Change Order** has been executed by the **Owner** and by the Contractor.

1. As discussed during the onsite meeting held on December 21<sup>st</sup>, Contractor to include a portion of work from the “Wolf Run Trunk Sewer Line F” project, highlighted in the attached drawing, as part of the “Wolf Run Trunk Sewer D & E” project. Work includes, but is not limited to the following:
  - Pipe bursting approximately 491 LF of 21” sewer and 70 LF of 18” sewer.
  - Replace Manhole E-24A
  - Service Reconnection(s)

**ARCHITECT-ENGINEER:**

**CONTRACTOR:**

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**DATE**

**CC:** \_\_\_\_\_

**ATTACHMENT:** \_\_\_\_\_

Bob Peterson & Fletcher Gabbard (LFUCG)

DWG: SHT C-07 (Line “F”)

Tyler Bridges (Hazen & Sawyer)

SPEC: 02509 – Pipe Bursting

Odus Baker (Vision)

\_\_\_\_\_



## SECTION 02509 - PIPE BURSTING

### PART 1 - GENERAL

#### 1.1 WORK INCLUDED

- A. Rehabilitation of existing sanitary sewers by the pipe bursting method.
1. The pipe bursting process involves the rehabilitation of deteriorated gravity sewer pipe by installing new pipe material within the enlarged bore created by the use of using a static, hydraulic, or pneumatic hammer "moling" device, suitably sized to break the existing pipe or by using a modified boring "knife" with a flared plug that crushes the existing sewer pipe. Forward progress of the "mole" or the "knife" may be aided by hydraulic equipment or other apparatus. Replacement pipe is pulled into the bore. Sewer services are reconnected to the new pipe through small excavations from the surface. Sewage flows from the upstream line and from the services are pumped as required to prevent overflows and provide continual service. All excavations required for reconnecting and pumping service flows, entry pits, exit pits, obstruction removal, point repairs, among others, are to be kept to a minimum and all damage to surface and underground features, facilities, utilities and improvements are to be repaired.
- B. The work shall include:
1. Furnishing all labor, tools, and equipment required to perform pipe bursting and installation of the replacement pipe, at the locations indicated on the Contract Drawings.
  2. Providing, installing, operating and maintaining all equipment required to perform by-pass pumping as required, for the duration of the project.

#### 1.2 SUBMITTALS

- A. The following information shall be submitted in accordance with the requirements of Section 01300:
1. A list of 5 jobs similar in size and length successfully completed within the last 5 years with references.
  2. Name, business address, and telephone number of the pipe bursting company.
  3. Name(s) of all personnel to be directly involved with pipe bursting for this project. For each individual, list previous pipe bursting projects, and the responsibilities of supervisory personnel.
  4. List of past pipe bursting projects and pertinent details; existing and final diameter, existing pipe material, owner's contact with telephone number, project engineer with telephone number.
  5. Engineering drawings and details for the particular pipe bursting process to be employed for the Project, including maximum pulling forces and capabilities for injection of lubricant to assist in the installation.
  6. Written description of the construction methods and equipment to be used, with access shaft or pit sizes required for equipment and material.
  7. Detailed bypass pumping schedule that identifies all bypass pumping equipment to be used, including pumping capacity, schematics, number of main units, number of reserve units and capacity.

### 1.3 WARRANTY

- A. The Contractor shall warrant a useable pipeline that is of the diameter specified in the Contract Documents. The pipeline shall be smooth and continuous over the entire length of the installation.
- B. The Contractor shall also warrant that the equipment used on this Project, where covered by patents or license agreements, is furnished in accordance with such agreements and that the prices bid for the work on the Project cover all applicable royalties and fees in accordance with such license agreements. The Contractor shall defend, indemnify and hold the Owner and Engineer harmless from and against any and all cost, loss, or damage or expense arising out of or in any way connected with any claim of infringement of patent, trademark, or violation of license agreement.

## PART 2 - MATERIALS

### 2.1 FUSIBLE C900/905 PVC

- A. Fusible C900 or C905 PVC pipe shall have a minimum dimension ratio (DR) of 25. The plain end pipe sections shall have field fused joints utilizing the pipe manufacturer's fusion equipment in accordance with the pipe manufacturer's recommended procedures.
- B. The Contractor shall adhere to the pipe manufacturer's most current calculation for safe pulling force and bend radius for trenchless application. This calculation shall be part of the required submittal prior to work. (See chart below).

Size (in)	DR	Working Pressure Rating	Pipe O.D. (in)	Safe Pulling Force (lbs.)	Bend Rating (ft.)
3	21	200	3.50	4,900	73
4	21	200	4.50	8,100	94
6	21	200	6.63	17,500	138
8	21	200	8.63	29,600	180
10	21	200	10.75	46,000	224
12	21	200	12.75	64,700	266
14	25	165	15.30	79,100	319

- C. Fusible restrained joint PVC pipe shall be as manufactured by Underground Solutions, Inc. or equal.
- D. The Contractor shall furnish and install any transition couplings and/or mechanical restraint system to secure the transition between the restrained joint PVC piping and the standard bell joint PVC piping.

### 2.2 SERVICE LATERAL CONNECTIONS

- A. Laterals shall be reconnected to the pipeline with a sewer saddle that has a gasketed penetration and a stainless steel strap that wraps around the mainline pipe. Sewer saddle shall be as manufactured by Romac Industries or equal.

## **PART 3 - EXECUTION**

### **3.1 GENERAL**

- A. The Engineer must be notified 48 hours in advance of starting work. The Engineer's approval for beginning the installation shall in no way relieve the Contractor of the ultimate responsibility for the satisfactory completion of the work as authorized under the Contract.
- B. The Contractor shall be fully responsible for all damages resulting from his failure to comply with all applicable state, federal and local regulations, and requirements of these specifications.

### **3.2 PRE-INSTALLATION TELEVISION INSPECTION**

Prior to the initiation of pipe bursting work on any line segment, a pre-installation television inspection shall have been completed.

### **3.3 PIPE BURSTING AND INSTALLATION**

- A. Location and number of insertion or launching pits will be chosen by the Contractor, and will typically be located near existing or proposed manholes or at locations to comply with access or maintenance requirements. Pits must be contained within the Owner's property and easements. Pits shall be placed and located to minimize the total number of pulls and maximize the length of pipe replaced per pull, within the constraints of maintaining service and access and other requirements
- B. The Contractor shall provide equipment, planning, and job execution necessary to accomplish the work in an efficient manner and consistent with the objectives of this specifications, including preventing damage to existing infrastructure, maintaining pedestrian and vehicle access, and providing continual sewer service to customers.
- C. Pipe shall be assembled and fused on the ground for the approximate distance between the manholes of the anticipated pull. During installation, all bending and loading the pipe shall be in conformance with manufacturers recommendations and shall not damage pipe.
- D. The Contractor shall utilize pipe bursting/crushing equipment with adequate pulling/pushing force to complete pulls in a timely manner. The Contractor shall provide equipment on the pulling mechanism to verify the pulling/pushing force exerted on the pipe does not exceed the manufacturer's recommendation for allowable pulling force to prevent damage to the pipe. The pulling force may not exceed the following: 6 tons for 8.625 inch outside diameter (OD); 10 tons for 10.75 inch OD; 17 tons for 14 inch OD; 23 tons for 16 inch OD; 28 tons for 18 inch OD. Allowable pulling force for all diameters shall be determined by the Contractor depending on the pipe size, wall thickness, manufacturer, field conditions, pull distance, manhole integrity, bearing capacity of soils, adjacent infrastructure, related equipment and cable strength, and related considerations.
- E. Equipment shall be configured with adequate knives or other appropriate devices to minimize interruptions in the installation process due to obstruction removal and other problems. Pipe shall be secured to the pulling/pushing device in accordance with standard practice. The diameter of the pulling/pushing head shall be equal or slightly greater than the pipe OD.
- F. The Contractor shall provide for the general safety of workers, pedestrians and traveling public throughout this project. Existing surface improvements and underground facilities and utilities shall also be protected. Damage caused by the Contractor shall be repaired at his own expense.
  - 1. Do not allow sand, debris, or runoff to enter sewer system.

2. Verify location of all underground utilities and facilities potentially impacted by rehabilitation related or other project activities and take necessary precautions to provide protection from damage. Damage caused by the Contractor shall be at his cost and responsibility.
3. Protect the new pipe and components during all phases of work, including hauling, installation, entry into the entry pit, and prevention of scarring or gouging of the pipe or components.

#### **3.4 SEALING REPLACEMENT PIPE IN MANHOLE**

- A. Allow liner pipe to normalize to ambient temperatures as well as recover from imposed stretch before cutting to fit between manholes, sealing at manholes, and manhole invert shaping.
- B. Cut liner so that it extends four inches into manhole. Make a smooth, vertical cut and slope area over top of exposed liner using non-shrink grout.
- C. A flexible pipe-to-manhole joint connector shall be used for connection of pipe to manholes. The rubber shall meet the requirements given in ASTM C 923. The seal shall be of a size specifically designed for the pipe size.

#### **3.5 FIELD TESTING**

- A. After the existing sewer is completely replaced, the Contractor shall perform a post-installation television inspection. Copies of the inspection video tape shall be provided to the Owner for review and acceptance prior to final acceptance.
- B. The finished pipe will be continuous over the entire length of the sewer between two manholes, unless the Engineer has approved a non-fused joint at a particular location, and to be free from visual defects. Defects which may affect the integrity or strength of the pipe in the opinion of the Engineer will be repaired or the pipe replaced at the Contractor's expense.
- C. All pipe testing shall be as required in Section 02531.

END OF SECTION