

ESTABLISHED 1896

February 22, 2019

City of Broken Arrow
220 S First Street
Broken Arrow, OK 74012

Attn: Michael Skates

Re: Rose District Mixed Use
Flowable Fill

Dear Mr. Skates:

Per the request and direction of Michael Skates at the City of Broken Arrow, Cowen Construction has compiled the cost to excavate around the City owned sanitary sewer line and backfill with flowable fill. The work will be performed on the east/west line and be limited to 30 linear by 5 feet wide by a depth of 1 foot below the existing pipe.

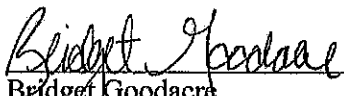
The attached proposal includes a cost of \$200 for our testing agency to observe the installation of the flowable fill and provide a report confirming it was installed correctly. Additionally, the city of Broken Arrow has requested we stake the correct elevation of the existing manhole; that cost is also included.

Please note this has not been designed or reviewed by an engineer or architect. Cowen Construction accepts no ownership or liability for the installation of the flowable fill or of the existing piping. Cowen Construction will notify the city 24 hours before the work is performed for the city to inspect, if they choose.

The earthwork in this area has been completed per our drawings and this change directly effects our critical path. Therefore, to avoid additional delays to the overall project this cost needs to be approved no later than February 26, 2019. Please sign the attached cost breakdown to accept this proposal.

Respectfully submitted,

COWEN CONSTRUCTION


Bridget Goodacre
Construction Manager

Cc: file

2200 SOUTH UTICA PL

SUITE 100 (74114-7070)

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BINGHAM RESOURCES, INC.

February 21, 2019

Mr. Parker Hull
Cowen Construction
2200 S. Utica Place, Suite 100
Tulsa, OK 74114

RE: Rose District Mixed Use – Broken Arrow
Cost Estimate for Undercut/Flowable Fill Backfill at Shallow Sanitary Sewer Location

Dear Mr. Hull:

Bingham Resources, Inc. is submitting the below cost estimate to undercut and backfill with flowable fill an area of the existing sanitary sewer line at the Rose District Mixed Use project. The proposed work is to mitigate the shallow coverage between the top of the existing sanitary sewer pipe and the proposed pavement finish grade. The scope of work includes an area 30 feet in length x 5 feet in width. The area of the proposed work is to be undercut to a depth of 1 foot below the existing sanitary sewer pipe and backfilled with flowable fill to the proposed pavement subgrade elevations. The following costs apply to the proposed scope of work:

1. Undercut/Export -	\$780.00
2. Flowable Fill/Backfill -	<u>\$3,380.00</u>
Total Estimated Cost:	\$4,160.00

Respectfully submitted,

Jeffrey L. Bingham

4515 East 105th Street
Tulsa, OK 74137
(918) 369-9459
1-800-750-3704



ESTABLISHED 1896
cowen
CONSTRUCTION

Project: Rose District Mixed Use

DATE
2/22/2019

Contractor Name	Type of Work	Amount	Remarks
Bingham Resources	Utilities	\$ 4,160.00	Install flowable fill around city owned sanitary sewer line.
Geodeca	Staking	\$ 300.00	Stake elevation of manhole
Building & Earth	Testing	\$ 200.00	Site Observation

Subcontractors Subtotal - \$ 4,660.00

General Conditions -	0	\$ -	
General Liability	0%	\$ -	
Fee	0.00%	\$ -	

Total: \$ 4,660.00 ✓

Recommended By: Bridget Goodacre, Cowen Construction

Bridget Goodacre

Dated: 2-22-19

Approved By:

Kenneth D. Schwal

(print name), City of Broken Arrow

02-22-19

Dated:



Project: Rose District Mixed Use

DATE
2/22/2019

Contractor Name	Type of Work	Amount	Remarks
Bingham Resources	Utilities	\$ 4,160.00	Install flowable fill around city owned sanitary sewer line.
Geodeca	Staking	\$ 300.00	Stake elevation of manhole
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General Liability	0%	\$ -	
Fee	0.00%	\$ -	

Total: \$ 4,660.00

Recommended By: Bridget Goodacre, Cowen Construction

Bridget Goodacre

Dated: 2-22-19

Approved By: _____ (print name), City of Broken Arrow

Dated: _____