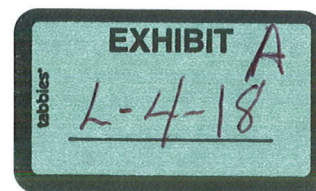


Scope of Work  
And  
Price Proposal  
For

Engineering Services During Design and  
Construction of the Broadrock Court and  
Old Rockside Road  
Sanitary Sewer Improvement Project

Submitted to  
City of Parma  
6611 Ridge Road  
Parma, Ohio 44129

Submitted by  
Mackay  
Engineering and Surveying Company  
7017 Pearl Road  
Middleburg Heights, Ohio 44130  
(440)886-4500  
December 7, 2017



Scope of Work  
And  
Price Proposal  
For  
Engineering Services During Design  
And Construction of the Broadrock Court  
and Old Rockside Road  
Sanitary Sewer Improvement Project  
December 7, 2017

Mackay Engineering and Surveying Company is pleased to provide you with the following estimated fees for engineering and surveying services for the design of gravity sanitary sewers for Broadrock Court and Old Rockside Road. The project will have gravity sewers that will flow down Broadrock Court to a manhole to be installed by Cuyahoga County and down Old Rockside Road to a drill drop connection into the Northeast Ohio Regional Sewer District (NEORS) trunk sewer. The drill drop connection and manhole on Broadrock Court will be constructed by the Cuyahoga County Department of Public Works - Sanitary Division (CCDPW-Sanitary).

The project services are for the detailed design for proposed gravity sewers to service Broadrock Court and Old Rockside Road. The project services and project design will incorporate into the plans the proposed drill drop connection into the NEORS trunk sewer (as designed by others) and the proposed manhole on Broadrock Court (also designed by others).

Preliminary plans and cost estimate will be developed first and provided to the City and CCDPW-Sanitary office for review. Once the City and the County approve the preliminary plans, then Mackay will complete the detailed design, construction and bidding documents, and provide assistance to the City during construction. The estimated fees do not include inspection, construction administration or construction staking for the project.

Scope of Work  
and  
Price Proposal For  
Broadrock Court/Old Rockside Road  
December 7, 2017  
Estimated Manhours

A. Design Phase - (Preliminary and Final)

Project Manager	30 hours	@ \$130.00/hour	\$ 3,900.00
Sr. Project Engineer	80 hours	@ \$130.00/hour	10,400.00
Engineer	240 hours	@ \$ 98.00/hour	23,520.00
Survey Crew	24 hours	@ \$135.00/hour	3,240.00
Copying Expense (Estimated)			3,000.00
Soil Borings (Estimated; may Change Based on Quotes)			6,000.00
EPA Fees (Estimated; may Change Based on Final Design)			6,000.00
Easement legal descriptions and exhibits (if needed)			<u>1,500.00</u>
			\$57,560.00

B. Bidding Phase

Lump sum fee estimate to be used as needed by the City. \$ 5,000.00  
This fee is an estimate and fees to be paid by the City will be based on the actual time spent on tasks requested by the City.

C. Engineering Services during Construction Phase (if required)

\$ 5,000.00

Lump sum fee estimate to be used as needed by the City.  
This fee is an estimate and fees to be paid by the City will be based on actual time spent on tasks requested by the City.

D. Design Contingency Allowance

\$ 7,000.00

Fees to be paid by the City will be based on the actual time spent on tasks requested by the City.

**TOTAL \$74,560.00**

NOTES:

1. This proposal is based on the City of Parma obtaining rights-of-entry to private property.
2. This proposal does not include land or easement acquisition or construction staking.
3. The hours and costs set forth above are approximate and may change as the project develops.
4. The copy costs above are estimated and may change as the project proceeds. Copy expenses will be paid directly by the City of Parma.
5. The soil borings and geotechnical report fees are estimated and may increase. The City will pay the actual cost for the soil borings and reports.
6. The EPA fees are estimated and may increase. The City will pay the actual amount of the EPA fees.
7. The above hourly rates are valid through December 31, 2018 and subject to adjustment for services rendered thereafter.
8. The allocation of the hours and costs set forth above is approximate and may change as the project develops.