

Chevy Blvd. Storm Sewer Improvements (near Meadow Apts. north of Snow Road)

3/27/2019

<u>ITEM 1 - DRAINAGE STUDY</u>	
Drainage area delineation (LiDAR, CCBO, Rec. Plans, Field Invest.)	12 0
Records research and field visit	16
Hydraulic calculations*	8
Recommendations/Report	14
Meeting with City of Parma	4 0
	54
* Rational Method and existing plan information to be utilized	
<u>ALT. BID A - DOWNSTREAM CONDUIT CAPACITY ANALYSIS</u>	
Drainage area delineation (LiDAR, CCBO, Rec. Plans, Field Invest.)	16 0
Records research and field visit	20
Hydraulic calculations*	18
Summary of Findings	4 0
	58
* Rational Method and existing plan information to be utilized	
<u>ITEM 2 - FIELD SURVEY</u>	
Field - Utility/Topography	22
Office	4
Basemap generation (incl. utility plotting)	20
Field - Property Corners	8 0
	54
<u>ITEM 3 - FINAL IMPROVEMENT PLANS</u>	
Title Sheet	8
Typical Sections/Misc. Details	8
General Notes/Specifications	18
Plan and Profile (Scale: 1"=20' H, 1"=5' V)	26
Grading Plan (Scale: 1"=20')	16
Erosion and Sediment Control Notes/Details	16
Estimated Quantities & Engineer Estimate	6
Project Manual	42
Legal Descriptions and Exhibits (3)	28
Meeting with City of Parma	4 0
Printing/Reproductions (for Bidding)	8
Respond to Pre-Bid Questions	6 0 0
	186





March 27, 2019

Mr. Paul W. Deichmann, P.E.
City of Parma
6611 Ridge Road
Parma, Ohio 44129

Attn: James Mihelich, P.E.

Re: Chevy Blvd. Storm Sewer Improvements (near Meadow Apts. north of Snow Road)
City of Parma, Ohio

Dear Mr. Mihelich:

Euthenics is pleased to submit this proposal to provide the engineering and surveying services for the proposed Chevy Blvd. Storm Sewer Improvements (near Meadow Apartments north of Snow Road), as described in the Exhibit provided at the meeting held in your office on March 8, 2019.

Project Understanding:

The lower units of the Meadows Patio Apartments along with several adjacent residential properties on Magdala and Nathan Drives, experience regular flooding conditions due to capacity limitations within the existing storm sewer system and general topography of the area. There is approximately 7.15 acres of upslope contributing drainage, which discharges to the northwest corner of the James Hanna School Property. The existing Meadows Patio Apartment storm sewer system capacity is insufficient to accommodate the 1-year storm event from the upslope area. The various proposed storm sewer and grading improvements will help to mitigate the current drainage issues that are currently impacting the residents in the Meadows Patio Apartments and the rear yards of some residents along Magdala and Nathan Drives.

Scope of Work:

- Delineate upslope drainage area to the northwest corner of the James Hanna School Property (PPN 442-44-001) using ODOT LiDAR, Cuyahoga County topography, record plans and field investigations.
- Calculate flow rates generated from the Rational Method using rainfall intensities from ODOT Locations and Design Manual, Volume 2 for the upslope drainage area for 1, 2, 5, 10, 25, 50 and 100 year storm events.
- Submit report with analysis, conclusions and recommendations.
- Downstream existing conduit capacity analysis, to just west of Gabriella/Abraham Intersection (Alt. Bid A).
- Perform topographic field survey as required to generate a basemap suitable for final design plan development for the installation of approximately 300' of storm sewer and appurtenances. It is anticipated that an inlet basin or basins will be installed in the northwest corner of PPN 442-44-001. The basin or basins would drain via new storm conduit across the Meadows Patio Apartments parcels and ultimately tie into an existing storm structure located on the Chevybrook Estates property.

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Mr. Paul Deichmann, P.E.
March 27, 2019
Page 2

- Survey, basemapping and plan development will include areas along the northerly and westerly property lines of PPN 442-44-001 such that drainage swales and/or diversion mounds can be installed to direct upslope stormwater runoff to the new inlet basin or basins.
- Final Construction Plans/Documents
 - Title Sheet
 - Typical Sections/Miscellaneous Details
 - General Notes/Specifications
 - Plan and Profile (Scale: 1"=20'H, 1"=5'V)
 - Grading Plan (Scale: 1"=20')
 - Erosion and Sediment Control Notes and Details
 - Estimated Quantities & Engineer Estimate
- Project Manual (City to provide all documents for except the Bid Form and Detailed Specifications)
- Prepare legal descriptions and exhibits for three (3) temporary, permanent maintenance or ingress/egress easements.
- Meeting with the City of Parma
- Printing/Reproductions for Bidding
- Respond to Pre-Bid questions

We are proposing a lump sum fee of \$32,000 to complete the above services as indicated below:

The following services are not included with this proposal:

- Capacity Analysis of downstream existing conduit (Alt. Bid A - if Authorized)
- Coordination with School/Residents/Apartment Complex Owner(s)
- Permits and/or Application Fees
- Private Utility Coordination
- Soil Borings (Alt. Bid B - if Authorized)
- CCTV of the existing sewer
- Construction Engineering Services
- Right of Way Plans/Boundary Survey/Construction Staking
- Subsurface Utility Exploration (SUE)
- Easement negotiations or recording

Additional services as requested during 2019 can be provided at the following hourly rates:

Project Manager	\$130	Designer/Technician	\$88
Project Engineer	\$105	Professional Surveyor	\$106
Professional Engineer	\$95	Survey Crew	\$150
Engineering Intern	\$65		

Written authorization to proceed with any additional services will be obtained prior to commencing with any work that is not included in the Items as described herein. The fees shown in the Proposal will be held for work in progress through the end of December 2019.

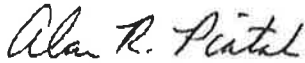
If additional work or work of significantly increased complexity, clearly not contemplated in the original scope of services, is required, or if Euthenics, Inc. is required to abandon or perform or re-perform approved work,

Mr. Paul Deichmann, P.E.
March 27, 2019
Page 3

supplemental or modification agreements shall be negotiated providing for the cost and suitable profit for such work. If this Agreement is terminated during performance of the work, Euthenics, Inc. shall be paid for services rendered to the date of termination.

We appreciate the opportunity to provide this proposal and look forward to working with you on this project. Please advise me if you have any questions or required additional information. Please sign and return one copy of this letter agreement.

Very Truly Yours,
EUTHENICS INC.



Alan R. Piatak, P.E.
President

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Encls.

Engineering Surveying Services for the Chevy Blvd. Storm Sewer Improvements (near Meadow Apts. north of Snow Road)

The lump sum fee of \$32,000.00 is agreed to.

Signature/Title

Date _____

Downstream Conduit Capacity Analysis (Alt. Bid A) - if Authorized

The lump sum fee of \$6,700.00 is agreed to.

Signature/Title

Date _____

Soil Borings (Alt. Bid B) - if Authorized

The lump sum fee of \$3,900.00 is agreed to.

Signature/Title

Date _____