



HUBBELL, ROTH & CLARK, INC
CONSULTING ENGINEERS SINCE 1915

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Bloomfield Hills, MI 48302

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March 07, 2022

City of Rochester Hills
1000 Rochester Hills Drive
Rochester Hills, Michigan 48309

Attn: Ken Elwert, CPRE – Director of Parks and Forestry

Re: Innovation Hills
Clinton River Rope Bridge
Proposal for Design Engineering Services

HRC Job No. 20210875

Hubbell, Roth & Clark, Inc. (HRC) is pleased to offer engineering services to the City of Rochester Hills for the subject project. We propose that all items of work be completed under the terms and conditions of our existing Agreement for Professional Engineering Services. It is our understanding that the City is requesting HRC to develop a package of Plans and Specifications which will be utilized to obtain competitive construction bids.

The proposed Clinton River Rope Bridge is part of a network of proposed improvements being developed within Innovation Hills. The proposed location of the Rope Bridge is located with an area that may impact some wetlands and/or have 100-year flood elevation restrictions requiring a Michigan Department of Environment, Great Lakes, and Energy (EGLE) permit (permit fee will be a direct reimbursable). HRC completed a field assessment related to possible Rope Bridge locations on 9/15/2021, after this assessment HRC suggests the original location, near the beginning of the Riverside Boardwalk, shall be the final location of the Bridge.

A breakdown of our proposed services and budgeted hours are summarized below and in the following table:

1. **Topographic Survey** – HRC will complete a detailed topographic survey along both sides of the Clinton River at the proposed location of the Rope Bridge. The survey team will collect ground elevations, riverbed cross section elevations and tag trees to assist with determining the bridge’s exact location and structural design.
2. **Initial Concept Phase** – under this task HRC’s structural engineers will develop up to three (3) rope bridge design options and discuss these with City staff to determine the overall “look” of the bridge. Structural requirements and costs will be considered during the initial concept phase. Once City staff have come to a consensus on the aesthetics of the bridge, HRC will move into the Plan and Specification phase of the project.
3. **Permits** – under this task HRC will prepare and submit the permit required from EGLE for the proposed bridge construction within the Clinton floodplain. Included in this effort is a pre-application meeting with EGLE and City staff as necessary.
4. **Plans and Specifications** – under this task HRC will complete engineering plans and technical specifications for the selected option of Clinton River Rope Bridge. Connecting the Bridge to the existing trail network will be included in the design effort. HRC will develop a conceptual plan of future walking paths on the north side of the River.
5. **Project Management and Coordination** – under this task HRC will coordinate with the City’s contractor, TEC, to have soil borings obtained. HRC will develop cost estimates at the 30% and 90% completion stages and attend progress meeting at these completion stages.
6. **Bidding Assistance** – under this task HRC will assist in the bidding process, answer RFI, make recommendation of award and prepare the Contract Documents for execution by the selected Contractor. Additionally HRC will hold an onsite meeting with perspective bidders.

Bloomfield Hills
555 Hulet Drive
Bloomfield Hills, MI 48302
248-454-6300

Delhi Township
2101 Aurelius Rd.
Suite 2A
Holt, MI 48842
517-694-7760

Grand Rapids
801 Broadway NW
Suite 215
Grand Rapids, MI 49504
616-454-4286

Howell
105 W. Grand River
Howell, MI 48843
517-552-9199

Jackson
401 S. Mechanic St.
Suite B
Jackson, MI 49201
517-292-1295

Kalamazoo
834 King Highway
Suite 107
Kalamazoo, MI 49001
269-665-2005

Lansing
215 S. Washington
SQ
Suite D
Lansing, MI 48933
517-292-1488

Task Description	Rate Classification & Estimated Hours			
	Survey Crew	Engineer/ Surveyor	Total Hours	Estimated Fees
	\$ 140	\$ 130		
1 Topographic Survey	80	28	108	\$ 14,840.00
2 Initial Concept Phase		97	97	\$ 12,610.00
3 Plans and Specifications		262	262	\$ 34,060.00
4 EGLE Permit Assistance		32	32	\$ 4,160.00
5 Project Management, Meetings & Bidding Assistance		88	88	\$ 11,440.00
TOTALS				\$ 77,110.00

We are proposing Mr. Roland Alix, P.E. as the Project Manager. Mr. Alix will be supported by various HRC staff including Surveyors and our Structural Engineers Ms. Krista Schoonveld, P.E. and Mr. Rich Nacey P.E.. Utilizing a blended rate of \$130/hr for these personnel and \$140/hr for a surveying crew we would propose a **not-to-exceed fee of \$77,110.00** to complete the scope of this project.

Schedule: Assuming an authorization to proceed is received by mid-March 2022, we propose the following schedule:

Early-April 2022	Complete topographic survey
May 2022	Meeting to discuss Initial Bridge Concepts
July 2022	30% Design Review Meeting
November 2022	90% Design Review Meeting
January 2023	Final Bid Documents Delivered
February 2023	Project Let for Bidding
March 2023	Award of Project to Lowest Responsible Bidder


Clarifications:

- HRC's topographic efforts for spot elevation throughout the 46 northerly parcel are not included in this proposal, HRC will issue a separate proposal covering those topographic services.
- It is our understanding the City has obtain grant monies to fund portions of this project. Due to the unknown requirements of said grant, HRC has not included any costs related to grant assistance in our scope of services.
- Soil borings will be required to complete HRC's design efforts. Costs for soil boring and soils analysis are not included in HRC's scope of services. It is assumed the City will contract with their Geotechnical Consultant to complete the geotechnical analysis.
- The only services HRC has included related to expanding the trail system to the north of the bridge landing is a conceptual plan.
- HRC has not included construction administration, survey layout (bridge and/or trail system), testing or observation services with this proposal. HRC would be happy to provide an additional proposal at the end of the design efforts if requested to do so by the City.

Should you concur with this proposal, please sign below to serve as our authorization to proceed. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.


Roland N. Alix, P.E.
Vice-President

pc: Rochester Hills; L. Cummins

Recommended by:
CITY OF ROCHESTER HILLS



Ken Elwert, Parks and Forestry Director

Date: 3-10-22

Approved by:
CITY OF ROCHESTER HILLS

Bryan K. Barnett, Mayor

Date: _____