

REQUEST FOR PROPOSAL

TO PERFORM PRELIMINARY ENGINEERING

July 30, 2022

FOR PROJECT:

ROM-0300(153), PCN 23677

Bridge Replacement of Structure No. 51-117-20.1
County Road 5 (a.k.a. Main Street North), Over the Des Lacs River,
In Donnybrook City (T158N, R87W, S14)

Dana G Larsen, P.E.

**WARD COUNTY ENGINEER
WARD COUNTY HIGHWAY DEPARTMENT
MINOT, NORTH DAKOTA**

**PROPOSALS MUST BE DELIVERED TO
THE OFFICE OF THE WARD COUNTY ENGINEER
200 72nd Street SE
Minot, ND 58701
BY 2:00 P.M., August 22, 2022**

REQUEST FOR PROPOSAL

INTRODUCTION

The Ward County Highway Department will engage the services of a prequalified engineering firm to perform preliminary engineering on the following project in Ward County Scheduled to be included in the NDDOT April 14, 2023 Bid Letting.

ROM-0300(153), PCN 23677

Bridge Replacement of Structure No. 51-117-20.1; County Road 5 (a.k.a. Main Street North),
Over the Des Lacs River,
Donnybrook, North Dakota.

Description of Projects:

Structure 51-117-20.1 runs in a south to north direction and the river runs from west to east. The single span structure was built in 1960 and consists of 9 conventionally reinforced concrete channel beams spanning 31 feet. The substructure consists of two concrete abutments with concrete wingwalls. The structure has a bridge health index of 85.25 with an operating rating of 38.4 ton and inventory rating of 23 tons.

The precast concrete top flange (deck) of channel beam is in good overall condition, NBI 7. The top flange is covered by a 2" asphalt wearing surface and is not visible for inspection. The east exterior beam is elevated higher than the adjacent beams and acts as a sidewalk; however, it is included as part of the top flange quantity.

The precast C-channel concrete beam (superstructure) is in fair condition, NBI 5. Beams 1 and 2 have exposed rebars with approximately 10% section loss for full length of beam. Beams 3 and 4 have exposed rebar with approximately 10% section loss at mid span and close to the abutments. Beams 5 and 6 near the west abutment have exposed rebar with approximately 10% section loss. Beams 7 and 8 near the west abutment and mid span have exposed rebar with up to 10% section loss. The bottom legs of the channel beams have several longitudinal cracks with rust staining on the surrounding area throughout.

The concrete substructure is in fair condition, NBI 5. The concrete abutments have boulders in the middle of the front face. East abutment under beam 9, has 1/4-inch diagonal crack at bearing location. 3' x 1" delamination/spall located on the west abutment near mid span. Vertical cracking on the southeast wingwall up to 0.02 inches wide. Northeast wingwall has a vertical crack up to 1-inch-wide with some exposed rebar, no section loss observed. Northwest wingwall has a vertical crack up to 1 inch wide. Southwest wingwall has 1' x 2' x 2" spall with exposed reinforcing reinforcing, rebar has over 50% section loss.

The channel is in overall satisfactory condition, NBI 6, with well vegetated banks. The channel appears to be stable. The channel has little to no rip rap in place at the corners or in front of the abutments. The water stretches from abutment to abutment with no embankment fill above the water line.

This structure is located 1-mile south of Sawyer in Sawyer Township, North Dakota. The selected consultant will be required to determine the best option for a structure at this location.

A new bridge structure is needed at this project location that meets the federal requirements and constructed to HL-93 (LRFD) and have a minimum width of 36 feet. If the structure is replaced by a box culvert, the culvert should be long enough to ensure the clear zone requirements are met without the use of guard rail.

WORK TO BE PERFORMED BY CONSULTANT

Design: Creation of SOV, Environmental Documents, ROW or Easements, Plans, Bid documents, submittal of a BrR model and load rating report of the new structure as part of the NDDOT Load Rating Manual, and additional services, if required, may be negotiated and supplemental agreements issued, based on the outcome of the environmental document, consultant performance, the consultant's proposal, and available funding.

Firms interested in performing the work must be qualified to perform road and bridge design. All design and project data will become the property of Ward County upon completion of the final submittal. All project information will be generated in the following formats and standards:

- MS Word and MS Excel
- AutoCAD
- PDF
- NDDOT CADD Manual
- NDDOT Design Manual and Plan Preparation Guide Website
- NDDOT Right of Way Manual

Schedule: All bid documents and plans for all projects must be completed and incorporated in the April 14, 2023 State Bid Letting. Project bid documents and plans for all projects must be completed and submitted for review no later than January 23, 2023.

EVALUATION AND SELECTION PROCESS

Engineering firms interested in performing the work shall submit **one electronic copy in PDF format** of their proposal to:

Ward County Highway Department
200 72nd St SE
PO Box 5005
Minot, ND 58702-5005
Travis.Schmit@co.ward.nd.us

The proposal pages shall be numbered and must be limited to 10 pages in length. Proposals that exceed the 10 page length requirement will not be considered. Each proposal shall contain a cover letter signed by an authorized officer of the firm. The cover letter will not be counted as one of the 10 pages. The proposal should list the personnel who will be assigned to work on the project, including titles, education, and work experience. Ward County will only consider proposals received prior to **2:00 P.M., August 22, 2022**. Late proposals will be deemed unresponsive.

The consultant's proposal may include an appendix. Resumes, references, a statement of qualifications, and other materials outlining experience may be included in an appendix. The appendix will not be considered as a part of the 10 page proposal.

Selection will be on the basis of the following criteria:

- Past performance
- Ability of professional personnel
- Willingness to meet time and budget requirements

- Location
- Recent, current, and projected workloads of the persons and/or firms
- Related experience on similar projects
- Project understanding, issues, & approach

The proposal must contain a list of any tasks that may be let to sub consultants should the consultant be awarded the contract.

Due to the timing of this project, Interviews will be planned to be conducted on either August 29th, 30, or 31st, 2022. Consultants selected for interviews will be notified by end of business on August 24th, 2022.

RIGHT OF REJECTION

The Ward County reserves the right to reject any or all proposals.

Title VI assures that no person or group of persons may, on the grounds of race, color, national origin, sex, age, or handicap or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any and all programs or activities administered by the Department. For information regarding the Title VI Program see the NDDOT website at: <http://www.dot.nd.gov/divisions/civilrights/titlevi.htm>