



## *Engineering Department*

**DATE:** March 16, 2021  
**FROM:** Gabe Schell, City Engineer  
**ITEM:** Bismarck Expressway Bridge Award – HC 137

### **REQUEST**

Consider approval of award of Bismarck Expressway Bridge Award – NHU-1-810(028)000, PCN 22863, HC 137

Please place this item on the 3/23/2021 City Commission meeting agenda.

### **BACKGROUND INFORMATION**

The North Dakota Department of Transportation (NDDOT) received bids on March 12, 2021 for a maintenance project consisting of painting, joint repair, deck grinding, and crack sealing on the Bismarck Expressway Bridge over the Missouri River. This project was originally bid on November 13, 2020 and approved by the City of Bismarck on November 24, 2020 contingent on concurrence from NDDOT. The bids were rejected by NDDOT and the project was rebid.

The Commission approved a cost participation and maintenance agreement at their meeting on September 22, 2020, agreeing to 5% local cost share on this project.

The low bid was submitted by Knife River Corporation in the total amount of \$5,974,860.99 (\$1,287,878.12 for the bridge project only). The City's estimated share of the bridge project is \$70,833.30 and would not be responsible for any cost share for the other tied projects bid as part of this package.

Bidder ID	Bidder Name	Address	Published	Bid Amount
9048	ENGINEERS ESTIMATE	607 E BOULEVARD AVE BISMARCK ND 58505-0606	Yes	\$5,715,167.50
1113	KNIFE RIVER CORPORATION - NORTH CENTRAL	4787 SHADOWWOOD DR NE SAUK RAPIDS MN 56379-9431	Yes	\$5,974,860.99
140	NORTHERN IMPROVEMENT COMPANY	PO BOX 2846 FARGO ND 58108-2846	Yes	\$6,311,406.55

The NDDOT would consider award at their March award meeting and have requested concurrence in the award by the cities of Mandan and Bismarck. The local cost share for this project is included in the 2021 capital improvement plan and will be revised accordingly with revised estimated costs.

**RECOMMENDED CITY COMMISSION ACTION**

Concur with NDDOT in the award of Bismarck Expressway Bridge Award – NHU-1-810(028)000, PCN 22863 to Knife River Corporation in the total amount of \$5,974,860.99 with estimated City share of \$70,833.30.

**STAFF CONTACT INFORMATION**

Gabe Schell, PE | City Engineer, 355-1505 or [gschell@bismarcknd.gov](mailto:gschell@bismarcknd.gov)

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**Dakota** | Transportation  
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March 15, 2021

Mr. Gabe Schell  
City Engineer  
PO Box 5503  
Bismarck, ND 58506

PROJECT: NHU-1-810(028)000, PCN 22863 – ND 810, BISMARCK EXPRESSWAY BRIDGE

Bids for the construction on the above noted project and two tied projects were taken at our bid opening of March 12, 2021. A copy of the Contract Detail Estimate is enclosed.

The low bid for PCC Pavement & Concrete Median Barrier, Structural Steel Painting, Pack Rust Repair, Expansion Joint Repair, Deck/Approach Surface Grinding, Concrete Spall Repair & Concrete Crack Sealing was submitted by Knife River Corporation – North Central of Sauk Rapids, MN in the amount of \$5,974,860.99. According to the agreement with the City of Bismarck, the City's 5 percent share of project NHU-1-810(028)000 is estimated to be \$75,833.30. See contract detail estimate for cost breakdown and limits. The City is not responsible for any costs on tied projects HEN-1-194(008)000 and HEN-1-810(027)000.

Before we can award to the low bidder, we need the City of Bismarck to **concur**, in writing, in the estimated amount by March 23, 2021, if possible.

Questions should be addressed to the Construction Services Division at (701)328-2566.



PHILLIP MURDOFF, P.E. - CONSTRUCTION SERVICES ENGINEER

80/pm/lp  
Enclosure

North Dakota **FEDERAL AID**

Bid Opening Date: **3/12/2021**

Project Number: **NHU-1-810(028)000**

PCN: **22863**

Job Number: **24**

English/Metric: **ENGLISH**

Contract with **KNIFE RIVER CORPORATION - NORTH CENTRAL SAUK RAPIDS, MN**

Signed Date:

County(s): **BURLEIGH MORTON**

Location: **ND 810, 1 MI W OF WASHINGTON ST (BISMARCK EXPRESSWAY BRIDGE)**

Roadway: **URBAN**

**NBI #810-000.846**

Type: **STRUCTURAL STEEL PAINTING, PACK RUST REPAIR, EXPANSION JOINT REPAIR, DECK/APPROACH SURFACING GRINDING, CONCRETE SPALL REPAIR & CONCRETE CRACK SEALING**

Participating: **Y**

Spec Code	Item Description	Quantity	Unit	Unit Price	Amount
103 0100	CONTRACT BOND	0.300	L SUM	\$52,000.00	\$15,600.00
550 0210	PCC PAVEMENT GRINDING	2,844.000	SY	\$7.35	\$20,903.40
602 1250	PENETRATING WATER REPELLENT TREATMENT	2,813.000	SY	\$5.50	\$15,471.50
630 0100	SAND BLASTING & PAINTING	1.000	L SUM	\$390,955.00	\$390,955.00
630 0110	SAND BLASTING & SPOT PAINTING	585.000	SF	\$78.40	\$45,864.00
630 0200	PACK RUST REPAIR	65.000	SF	\$1,405.00	\$91,325.00
630 9000	CONTAINMENT SYSTEM	1.000	L SUM	\$95,500.00	\$95,500.00
630 9001	CONTAINMENT SYSTEM	21.000	EA	\$1,410.00	\$29,610.00
650 0805	DECK SPALL REPAIR	41.000	SF	\$155.00	\$6,355.00
702 0100	MOBILIZATION	0.300	L SUM	\$677,000.74	\$203,100.22
704 0100	FLAGGING	200.000	MHR	\$42.00	\$8,400.00
704 1000	TRAFFIC CONTROL SIGNS	1,044.000	UNIT	\$1.50	\$1,566.00
704 1052	TYPE III BARRICADE	2.000	EA	\$100.00	\$200.00
704 1060	DELINEATOR DRUMS	24.000	EA	\$50.00	\$1,200.00
704 1067	TUBULAR MARKERS	112.000	EA	\$4.00	\$448.00
704 1087	SEQUENCING ARROW PANEL-TYPE C	2.000	EA	\$400.00	\$800.00
930 8800	6.5IN EXPANSION JOINT SEAL	70.000	LF	\$1,410.00	\$98,700.00
930 8805	9IN EXPANSION JOINT SEAL	162.000	LF	\$1,550.00	\$251,100.00
930 9223	CRACK SEALING	1,540.000	LF	\$7.00	\$10,780.00

Subtotal **\$1,287,878.12**

Eng and Contg **\$128,787.81**

Total **\$1,416,665.93**

Length **0.0000 Miles**

Construction

Estimated Cost **\$1,416,665.93**

<b>NHU FEDERAL FUNDS</b>	<b>80.93%</b>	<b>\$1,146,507.73</b>
<b>NHU STATE FUNDS</b>	<b>9.07%</b>	<b>\$128,491.60</b>
<b>NHU BISMARCK CITY FUNDS</b>	<b>5.00%</b>	<b>\$70,833.30</b>
<b>NHU MANDAN CITY FUNDS</b>	<b>5.00%</b>	<b>\$70,833.30</b>

North Dakota **FEDERAL AID**

Bid Opening Date: **3/12/2021**

Project Number: **NHU-1-810(028)000**

PCN: **22863**

Job Number: **24**

English/Metric: **ENGLISH**

Type: **SPECIAL ITEMS**

Item Description	Amount
<b>PRELIMINARY ENGINEERING</b>	<b>\$100,000.00</b>
Funding Splits:	
<b>NHU FEDERAL FUNDS</b>	<b>80.93%      \$80,930.00</b>
<b>NHU STATE FUNDS</b>	<b>9.07%      \$9,070.00</b>
<b>NHU BISMARCK CITY FUNDS</b>	<b>5.00%      \$5,000.00</b>
<b>NHU MANDAN CITY FUNDS</b>	<b>5.00%      \$5,000.00</b>

Summary for Project

Length      **0.0000 Miles**

Estimated Total Construction Cost: **\$1,287,878.12**

Estimated Total Eng and Contg: **\$128,787.81**

	Construction	Special Items	Total
Estimated Cost	<b>\$1,416,665.93</b>	<b>\$100,000.00</b>	<b>\$1,516,665.93</b>
<b>NHU FEDERAL FUNDS</b>	<b>\$1,146,507.73</b>	<b>\$80,930.00</b>	<b>\$1,227,437.73</b>
<b>NHU STATE FUNDS</b>	<b>\$128,491.60</b>	<b>\$9,070.00</b>	<b>\$137,561.60</b>
<b>NHU BISMARCK CITY FUNDS</b>	<b>\$70,833.30</b>	<b>\$5,000.00</b>	<b>\$75,833.30</b>
<b>NHU MANDAN CITY FUNDS</b>	<b>\$70,833.30</b>	<b>\$5,000.00</b>	<b>\$75,833.30</b>