



Engineering Department

DATE: March 16, 2022
FROM: Gabe Schell, City Engineer
ITEM: Bismarck Expy Lighting Award Concurrence

REQUEST:

Consider approval of award concurrence of Bismarck Expy Lighting and RR overpass repairs SHE-1-810(030)004 & CVD-NHU-1-810(029)004, PCN 23155 & 22905, City Projects HC 141 and 135

Please place this item on the March 22, 2022 City Commission meeting agenda.

BACKGROUND INFORMATION:

The project consists of the installation of roadway lighting on Bismarck Expressway between Burlington Dr and Main Avenue (HC 141) and structure repairs to the BNSF and CP railroad overpass (HC 135). The North Dakota Department of Transportation (NDDOT) received bids for this project on March 11, 2022. A bid tabulation is attached. There were two bidders with the low bid from Strata Corporation of \$649,955.55.

The Board of City Commissioners approved the Cost Participation, Construction, and Maintenance Agreement with NDDOT for HC 141 at their February 22, 2022 meeting and for HC 135 at their March 8, 2022 meeting. The estimated City cost share based on the bid amounts per the NDDOT's March 11, 2022 letter is \$38,977.02. A City cost share of \$44,000 in sales tax funds was included in the 2022 budget.

RECOMMENDED CITY COMMISSION ACTION:

Concur with NDDOT in the award of SHE-1-810(030)004 & CVD-NHU-1-810(029)004, PCN 23155 & 22905, City Projects HC 141 and 135 to Strata Corporation of \$649,955.55.

STAFF CONTACT INFORMATION:

Gabe Schell, PE | City Engineer, 355-1505 or gshell@bismarcknd.gov

NORTH
Dakota | Transportation
Be Legendary.™

March 11, 2022

Gabe Schell
City Engineer
221 N 5th Street
Bismarck, ND 58506

PROJECTS: SHE-1-810(030)004 & CVD-NHU-1-810(029)004, PCN 23155 & 22905 – BISMARCK, ND 810,
BURLINGTON DR TO MAIN AVE & ND 810 BNSF & CP RAILROAD OVERHEAD E OF
VERMONT AVE

Bids for the construction on the above noted project were taken at our bid opening of March 11, 2022.
A copy of the Contract Detail Estimate and Abstract of Bids are enclosed.

The low bid for Lighting & Turn Lanes was submitted by Strata Corporation of Grand Forks, ND in the
amount of \$649,955.55. According to the agreement with the City of Bismarck, the City's share of
project SHE-1-810(030)004 is estimated to be \$38,477.02. The City's share of project CVD-NHU-1-
810(029)004 is estimated to be \$500.00. See contract detail estimates for cost breakdown and limits.

Before we can award to the low bidder, we need the City of Bismarck to **concur**, in writing, in the
estimated amount before March 22, 2022, if possible.

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



PHILLIP MURDOFF, P.E. - CONSTRUCTION SERVICES ENGINEER

80/pm/jmt
Enclosure

Via e-mail only

North Dakota **FEDERAL AID**

Bid Opening Date: **3/11/2022**

Project Number: **CVD-NHU-1-810(029)004**

PCN: **22905**

Job Number: **23155**

English/Metric: **ENGLISH**

Contract with **STRATA CORPORATION GRAND FORKS, ND**

Signed Date:

County(s): **BURLEIGH**

Location: **ND 810, BNSF & CP RAILROAD OVERHEAD E OF VERMONT AVE - BISMARCK**

Roadway: **URBAN**

NBI #0810-004.480 LRS_ID S810E000M MEASURE 4.773

Type: **CONCRETE SPALL REPAIR, JOINT REPAIR, BRIDGE DECK CRACK SEALING**

Participating: **Y**

Spec Code	Item Description	Quantity	Unit	Unit Price	Amount
103 0100	CONTRACT BOND	0.250	L SUM	\$3,300.00	\$825.00
107 0100	RAILWAY PROTECTION INSURANCE	1.000	L SUM	\$5,500.00	\$5,500.00
107 0140	RAILROAD COORDINATION	1.000	L SUM	\$4,500.00	\$4,500.00
602 1250	PENETRATING WATER REPELLENT TREATMENT	1,859.000	SY	\$7.00	\$13,013.00
602 1260	BRIDGE DECK CRACK SEALING	1,730.000	LF	\$4.00	\$6,920.00
650 0805	DECK SPALL REPAIR	375.000	SF	\$155.00	\$58,125.00
702 0100	MOBILIZATION	0.250	L SUM	\$88,109.00	\$22,027.25
704 0100	FLAGGING	50.000	MHR	\$85.00	\$4,250.00
704 1000	TRAFFIC CONTROL SIGNS	928.000	UNIT	\$1.70	\$1,577.60
704 1052	TYPE III BARRICADE	6.000	EA	\$100.00	\$600.00
704 1060	DELINEATOR DRUMS	41.000	EA	\$25.00	\$1,025.00
704 1067	TUBULAR MARKERS	23.000	EA	\$10.00	\$230.00
704 1087	SEQUENCING ARROW PANEL-TYPE C	2.000	EA	\$850.00	\$1,700.00
704 1500	OBLITERATION OF PAVEMENT MARKING	1,544.000	SF	\$2.00	\$3,088.00
762 0113	EPOXY PVMT MK 4IN LINE	4,630.000	LF	\$1.00	\$4,630.00
762 0420	SHORT TERM 4IN LINE-TYPE R	8,680.000	LF	\$1.00	\$8,680.00
930 8850	POLYURETHANE FOAM JOINT SEAL	147.000	LF	\$115.00	\$16,905.00
930 9612	SPALL REPAIR	7.000	SF	\$405.00	\$2,835.00

Subtotal **\$156,430.85**

Eng and Contg **\$15,643.09**

Total **\$172,073.94**

Length **0.0000 Miles**

Construction

Estimated Cost		
		\$172,073.94
CVD FEDERAL FUNDS	100.00%	\$172,073.94
NHU FEDERAL FUNDS		\$0.00
NHU STATE FUNDS		\$0.00
NHU BISMARCK CITY FUNDS		\$0.00

North Dakota **FEDERAL AID**

Bid Opening Date: **3/11/2022**

Project Number: **CVD-NHU-1-810(029)004**

PCN: **22905**

Job Number: **23155**

English/Metric: **ENGLISH**

Type: **SPECIAL ITEMS**

Item Description	Amount
RAILROAD FLAGGING	\$5,000.00
Funding Splits:	
NHU FEDERAL FUNDS	80.93% \$4,046.50
NHU STATE FUNDS	9.07% \$453.50
NHU BISMARCK CITY FUNDS	10.00% \$500.00

Summary for Project

Length **0.0000 Miles**

Estimated Total Construction Cost: **\$156,430.85**

Estimated Total Eng and Contg: **\$15,643.09**

	Construction	Special Items	Total
Estimated Cost	\$172,073.94	\$5,000.00	\$177,073.94
CVD FEDERAL FUNDS	\$172,073.94	\$0.00	\$172,073.94
NHU FEDERAL FUNDS	\$0.00	\$4,046.50	\$4,046.50
NHU STATE FUNDS	\$0.00	\$453.50	\$453.50
NHU BISMARCK CITY FUNDS	\$0.00	\$500.00	\$500.00

NDDOT TO MAKE CONTRACTOR PAYMENTS. CVD FUNDS ARE 100% FEDERAL WITH A CAPPED AMOUNT OF \$180,000. ANY AMOUNT OVER THE CAP WILL BE FUNDED AT URBAN SECONDARY REGIONAL WITH SPLITS OF 80.93/9.07/10. USE CVD FUNDS FIRST, THEN NHU FUNDS.

North Dakota **FEDERAL AID**

Bid Opening Date: **3/11/2022**

Project Number: **SHE-1-810(030)004**

PCN: **23155**

Job Number: **23155**

English/Metric: **ENGLISH**

Contract with **STRATA CORPORATION GRAND FORKS, ND**

Signed Date:

County(s): **BURLEIGH**

Location: **ND 810, BURLINGTON DR TO MAIN AVE - BISMARCK**

North Dakota **FEDERAL AID**Bid Opening Date: **3/11/2022**Project Number: **SHE-1-810(030)004**PCN: **23155**Job Number: **23155**English/Metric: **ENGLISH**Roadway: **URBAN****ND 810, LRS_ID S810E000M RP 4.451 (4.468) TO RP 5.778 (5.787)**Type: **LIGHTING, TURN LANE**Participating: **Y**

Spec	Code	Item Description	Quantity	Unit	Unit Price	Amount
103	0100	CONTRACT BOND	0.750	L SUM	\$3,300.00	\$2,475.00
202	0130	REMOVAL OF CURB & GUTTER	47.000	LF	\$50.00	\$2,350.00
202	0136	REMOVAL OF PAVEMENT	31.000	TON	\$100.00	\$3,100.00
203	0101	COMMON EXCAVATION-TYPE A	161.000	CY	\$68.00	\$10,948.00
203	0109	TOPSOIL	225.000	CY	\$52.00	\$11,700.00
203	0140	BORROW-EXCAVATION	122.000	CY	\$88.00	\$10,736.00
251	0200	SEEDING CLASS II	0.300	ACRE	\$5,100.00	\$1,530.00
251	1000	WETLAND SEED	0.100	ACRE	\$4,190.00	\$419.00
251	2000	TEMPORARY COVER CROP	0.400	ACRE	\$287.00	\$114.80
253	0101	STRAW MULCH	0.700	ACRE	\$557.00	\$389.90
255	0101	ECB TYPE 1	440.000	SY	\$2.74	\$1,205.60
260	0200	SILT FENCE SUPPORTED	251.000	LF	\$2.65	\$665.15
260	0201	REMOVE SILT FENCE SUPPORTED	251.000	LF	\$0.80	\$200.80
261	0112	FIBER ROLLS 12IN	140.000	LF	\$3.86	\$540.40
261	0113	REMOVE FIBER ROLLS 12IN	60.000	LF	\$0.88	\$52.80
302	0121	AGGREGATE BASE COURSE CL 5	267.000	CY	\$120.00	\$32,040.00
411	0100	MILLING PAVEMENT SURFACE	31.000	TON	\$425.00	\$13,175.00
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	168.000	TON	\$225.00	\$37,800.00
702	0100	MOBILIZATION	0.750	L SUM	\$88,109.00	\$66,081.75
704	0100	FLAGGING	50.000	MHR	\$85.00	\$4,250.00
704	1000	TRAFFIC CONTROL SIGNS	690.000	UNIT	\$1.70	\$1,173.00
704	1052	TYPE III BARRICADE	2.000	EA	\$100.00	\$200.00
704	1060	DELINEATOR DRUMS	38.000	EA	\$25.00	\$950.00
704	1067	TUBULAR MARKERS	8.000	EA	\$10.00	\$80.00
704	1087	SEQUENCING ARROW PANEL-TYPE C	1.000	EA	\$850.00	\$850.00
722	6140	ADJUST GATE VALVE BOX	1.000	EA	\$850.00	\$850.00
748	0140	CURB & GUTTER-TYPE I	64.000	LF	\$200.00	\$12,800.00
762	0103	PVMT MK PAINTED-MESSAGE	48.000	SF	\$5.00	\$240.00
762	1104	PVMT MK PAINTED 4IN LINE	475.000	LF	\$2.00	\$950.00
762	1108	PVMT MK PAINTED 8IN LINE	300.000	LF	\$4.00	\$1,200.00
770	0020	CONCRETE FOUNDATION-HIGHWAY LIGHTING	25.000	EA	\$800.00	\$20,000.00
770	0100	PULL BOX	2.000	EA	\$1,500.00	\$3,000.00
770	0330	2IN DIAMETER RIGID CONDUIT	10,310.000	LF	\$8.00	\$82,480.00
770	0504	UNDERGROUND CONDUCTOR NO4-TYPE RHW	15,510.000	LF	\$3.25	\$50,407.50
770	0505	UNDERGROUND CONDUCTOR NO6-TYPE RHW	16,068.000	LF	\$2.50	\$40,170.00
770	1676	LT STD 6FT MA 40FT MT HT BREAKAWAY	7.000	EA	\$2,400.00	\$16,800.00
770	1826	LT STD 12FT MA 40FT MT HT BREAKAWAY	18.000	EA	\$2,600.00	\$46,800.00
770	4210	LED LUMINAIRE	25.000	EA	\$592.00	\$14,800.00

Subtotal

\$493,524.70

North Dakota **FEDERAL AID**

Bid Opening Date: **3/11/2022**

Project Number: **SHE-1-810(030)004**

PCN: **23155**

Job Number: **23155**

English/Metric: **ENGLISH**

Eng and Contg **\$49,352.47**

Total **\$542,877.17**

Length **1.3020 Miles**

		<u>Construction</u>
Estimated Cost		\$542,877.17
SHE FEDERAL FUNDS	90.00%	\$488,589.45
SHE STATE FUNDS	5.00%	\$27,143.86
SHE BISMARCK CITY FUNDS	5.00%	\$27,143.86

Type: **SPECIAL ITEMS**

Item Description				Amount
PRELIMINARY ENGINEERING				\$221,663.27
Funding Splits:	SHE FEDERAL FUNDS	90.00%	\$199,496.95	
	SHE STATE FUNDS	5.00%	\$11,083.16	
	SHE BISMARCK CITY FUNDS	5.00%	\$11,083.16	
ESTIMATED COST OF RIGHT OF WAY				\$5,000.00
Funding Splits:	SHE FEDERAL FUNDS	90.00%	\$4,500.00	
	SHE STATE FUNDS	5.00%	\$250.00	
	SHE BISMARCK CITY FUNDS	5.00%	\$250.00	

Summary for Project

Length **1.3020 Miles** **BURLEIGH** **1.3020 Miles**

Estimated Total Construction Cost: **\$493,524.70**

Estimated Total Eng and Contg: **\$49,352.47**

	<u>Construction</u>	<u>Special Items</u>	<u>Total</u>
Estimated Cost	\$542,877.17	\$226,663.27	\$769,540.44
SHE FEDERAL FUNDS	\$488,589.45	\$203,996.95	\$692,586.40
SHE STATE FUNDS	\$27,143.86	\$11,333.16	\$38,477.02
SHE BISMARCK CITY FUNDS	\$27,143.86	\$11,333.16	\$38,477.02

NDDOT TO MAKE CONTRACTOR PAYMENTS. THIS PROJECT IS FUNDED WITH HSIP FUNDING AT SPLITS OF 90/5/5.

ND DEPARTMENT OF TRANSPORTATION

SHEET NO 1 OF 2

ABSTRACT OF BIDS RECEIVED

PROJECT NO.	SHE-1-810(030)004 CVD-NHU-1-810(029)004	NO.	23155	BIDDER	ENGINEERS ESTIMATE	BIDDER	STRATA CORPORATION	BIDDER	EDLING ELECTRIC INC
COUNTY & DATE	BURLEIGH (015)	MAR 11, 2022 09:30AM			GRAND FORKS, ND			BISMARCK, ND	
LENGTH & TYPE	1.302 ND 810, BURLINGTON DR TO MAIN AVE - BIS				c.c. CHECK RANK 00			c.c. BOND RANK 01	
COMPLETION TIME	25 DAYS LIGHTING, TURN LANES				c.c. BOND RANK 02				

SPEC. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	BID PRICE	AMOUNT	BID PRICE	AMOUNT	BID PRICE	AMOUNT
103	CONTRACT BOND	L SUM	1.000	8600000	8600000	3300000	3300000	4000000	4000000
107	RAILWAY PROTECTION INSURANCE	L SUM	1.000	5000000	5000000	5500000	5500000	1000000	1000000
107	RAILROAD COORDINATION	L SUM	1.000	1000000	1000000	4500000	4500000	3500000	3500000
202	REMOVAL OF CURB & GUTTER	LF	47000	20000	940000	50000	2350000	35000	1645000
202	REMOVAL OF PAVEMENT	TON	31000	14000	434000	100000	3100000	77000	2387000
203	COMMON EXCAVATION-TYPE A	CY	161000	5000	805000	68000	10948000	36000	5796000
203	TOPSOIL	CY	225000	4000	900000	52000	11700000	53000	11925000
203	BORROW-EXCAVATION	CY	122000	34000	4148000	88000	10736000	52000	6344000
251	SEEDING CLASS II	ACRE	300	2700000	810000	5100000	1530000	5800000	1740000
251	WETLAND SEED	ACRE	100	1000000	100000	4190000	4190000	4800000	4800000
251	TEMPORARY COVER CROP	ACRE	400	900000	360000	2870000	1148000	1000000	4000000
253	STRAW MULCH	ACRE	700	1200000	840000	5570000	3899000	1000000	7000000
255	ECB TYPE I	SY	440000	5000	2200000	2740	1205600	4000	1760000
260	SILT FENCE SUPPORTED	LF	251000	2500	627500	2650	6651500	4000	1004000
260	REMOVE SILT FENCE SUPPORTED	LF	251000	500	125500	800	200800	1500	376500
261	FIBER ROLLS 12IN	LF	140000	3000	420000	3860	5404000	5000	7000000
261	REMOVE FIBER ROLLS 12IN	LF	60000	500	30000	880	528000	2000	1200000
302	AGGREGATE BASE COURSE CL 5	CY	267000	90000	24030000	120000	32040000	110000	29370000
411	MILLING PAVEMENT SURFACE	TON	31000	160000	4960000	425000	13175000	142000	4402000
430	COMMERCIAL GRADE HOT MIX ASPHALT	TON	168000	75000	12600000	225000	37800000	152000	25536000
602	PENETRATING WATER REPELLENT TREATMENT	SY	1859000	7000	13013000	7000	13013000	8000	14872000
602	BRIDGE DECK CRACK SEALING	LF	1730000	8000	13840000	4000	6920000	5000	8650000
650	DECK SPALL REPAIR	SF	375000	150000	56250000	155000	58125000	180000	67500000
702	MOBILIZATION	L SUM	1.000	100000000	100000000	88109000	88109000	96000000	96000000
704	FLAGGING	MHR	100000	42000	4200000	85000	8500000	65000	6500000
704	TRAFFIC CONTROL SIGNS	UNIT	1618000	2000	3236000	1700	2750600	2250	3640500
704	TYPE III BARRICADE	EA	8000	125000	1000000	100000	800000	125000	1000000
704	DELINEATOR DRUMS	EA	79000	23000	1817000	25000	1975000	30000	2370000
704	TUBULAR MARKERS	EA	31000	4000	124000	10000	310000	12000	372000
704	SEQUENCING ARROW PANEL-TYPE C	EA	3000	500000	1500000	850000	2550000	975000	2925000
704	OBLITERATION OF PAVEMENT MARKING	SF	1544000	2900	4477600	2000	3088000	2300	3551200
722	ADJUST GATE VALVE BOX	EA	1000	400000	400000	850000	850000	470000	4700000
748	CURB & GUTTER-TYPE I	LF	64000	65000	4160000	200000	12800000	62000	3968000
762	PVMT MK PAINTED-MESSAGE	SF	48000	4500	2160000	5000	2400000	6000	2880000
762	EPOXY PVMT MK 4IN LINE	LF	4630000	300	1389000	1000	4630000	1300	6019000
762	SHORT TERM 4IN LINE-TYPE R	LF	8680000	1500	13020000	1000	8680000	1200	10416000
762	PVMT MK PAINTED 4IN LINE	LF	475000	100	475000	2000	950000	2300	1092500
762	PVMT MK PAINTED 8IN LINE	LF	300000	400	1200000	4000	1200000	4600	1380000
770	CONCRETE FOUNDATION-HIGHWAY LIGHTING	EA	25000	1200000	30000000	800000	20000000	1500000	37500000
770	PULL BOX	EA	2000	1500000	3000000	1500000	3000000	1700000	3400000
770	2IN DIAMETER RIGID CONDUIT	LF	10310000	7000	72170000	8000	82480000	9000	92790000
770	UNDERGROUND CONDUCTOR NO4-TYPE RHW	LF	15510000	1850	28693500	3250	50407500	2800	43428000
770	UNDERGROUND CONDUCTOR NO6-TYPE RHW	LF	16068000	1650	26512200	2500	40170000	2000	32136000
770	LT STD 6FT MA 40FT MT HT BREAKAWAY	EA	7000	4800000	33600000	2400000	16800000	2850000	19950000
770	LT STD 12FT MA 40FT MT HT BREAKAWAY	EA	18000	4800000	86400000	2600000	46800000	2950000	53100000
770	LED LUMINAIRE	EA	25000	700000	17500000	592000	14800000	750000	18750000
930	POLYURETHANE FOAM JOINT SEAL	LF	147000	175000	25725000	115000	16905000	130000	19110000

ACTION TAKEN BY DEPARTMENT OF TRANSPORTATION
Deputy Director For Engineering:

AWARD TO: STRATA CORPORATION

WHEN PRELIMINARY ARRANGEMENTS ARE COMPLETED.

41

DATE OF AWARD

DEPARTMENT OF TRANSPORTATION Deputy Director For Engineering

ND DEPARTMENT OF TRANSPORTATION

SHEET NO 2 OF 2

ABSTRACT OF BIDS RECEIVED

PROJECT NO. SHE-1-810(030)004 CVD-NHU-1-810(029)004	NO. 23155	BIDDER ENGINEERS ESTIMATE	BIDDER STRATA CORPORATION	BIDDER EDLING ELECTRIC INC
COUNTY & DATE BURLEIGH (015) MAR 11, 2022 09:30AM LENGTH & TYPE 1.302 ND 810, BURLINGTON DR TO MAIN AVE - BIS			GRAND FORKS, ND	BISMARCK, ND
COMPLETION TIME 25 DAYS LIGHTING, TURN LANES		c.c. CHECK RANK 00	c.c. BOND RANK 01	c.c. BOND RANK 02

SPEC. NO.	ITEM DESCRIPTION	UNIT	QUANTITY	BID PRICE	AMOUNT	BID PRICE	AMOUNT	BID PRICE	AMOUNT
930	SPALL REPAIR	SF	7000	2000000	1400000	405000	283500	460000	322000
	TOTAL				62534080	NO LIMIT	64995555	NO LIMIT	65758370

ACTION TAKEN BY DEPARTMENT OF TRANSPORTATION Deputy Director For Engineering: **42**

AWARD TO: STRATA CORPORATION WHEN PRELIMINARY ARRANGEMENTS ARE COMPLETED.

DATE OF AWARD _____ DEPARTMENT OF TRANSPORTATION Deputy Director For Engineering