

Resolution #17-27

BRIDGE IMPROVEMENT GRANT PROGRAM
RESOLUTION AUTHORIZING SUBMISSION OF APPLICATIONS

WHEREAS, Brookings County wishes to submit an application/applications for consideration of award for the Bridge Improvement Grant Program:

STRUCTURE NUMBER(S) AND LOCATION(S):

06-280-116 (9.4N and 4W of Elkton on 482nd Ave.) Preliminary

and WHEREAS, Brookings County certifies that the project(s) are listed in the county's Five-Year County Highway and Bridge Improvement Plan*;

and WHEREAS, Brookings County agrees to pay the 20% match on the Bridge Improvement Grant funds;

and WHEREAS, Brookings County hereby authorizes the Bridge Improvement Grant application(s) and any required funding commitments.

NOW THEREFORE BE IT RESOLVED:

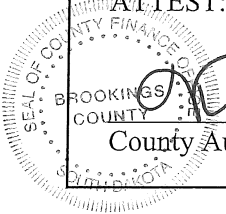
That the South Dakota Department of Transportation be and hereby is requested to accept the attached Bridge Improvement Grant application(s).

Vote of Commissioners/Council: Yes

5 No 0

Dated at Brookings, SD, this 11th day of July, 2017.

ATTEST:



Riki Buseeth
County Auditor/City Finance Officer

[Signature]
Chairman/Mayor

*NOTE – not applicable for cities applying for the grant – simply mark 'NA'



2018 APPLICATION FOR BRIDGE IMPROVEMENT GRANT (BIG) PE FUNDS

South Dakota Department of Transportation
SUBMIT APPLICATION TO: Wade.Dahl@state.sd.us

Identification	Bridge ID # <u>06-280-116</u>	Fed Aide Route Number: <u>NA</u>
	Owner <u>Brookings County</u>	Over: <u>Deer Creek</u>
	Location <u>9.4N and 4W of Elkton on 482nd Ave.</u>	Road/Street/Avenue Name: <u>482nd Ave.</u>
		BIG Score: <u>28.76</u>
Grant	Total Project Amount \$ <u>24,100</u> Requested Grant Amount \$ <u>19,280</u> + Local Match \$ <u>4820</u> (20% minimum)	
Eligibility	All Projects: (Attach separate sheet with explanation if any of the following are False) Structure serves multiple residences, farms, ranches or a multi-lot development? ☒ True ☐ False Structure is located on a Full Maintenance Road? ☒ True ☐ False Roadway does not terminate into a field entrance, driveway, single residence, farm, or ranch? ☒ True ☐ False Local Public Agency (LPA) is in full compliance with Federal and State NBIS requirements? ☒ True ☐ False County Applicant: Amount of County Wheel Tax per wheel for >6000 lb classification: <u>\$4.00 up to 4 wheels</u> Is the structure listed in the Approved County 5-Year Plan <u>or</u> ☒ Yes ☐ No Revised Plan (Attach with signed standard resolution)? Has general maintenance been performed on the structure (Attach maintenance record)? ☒ Yes ☐ No Preliminary Engineering: (Attach cost proposal (DOT format as attached for the requested work; maximum allowable fixed fee = 13%)	
Prioritization	Describe the economic importance of evaluating/replacing this bridge (attach additional sheets as needed): <u>The materials, supplies, repairs and construction materials cross this structure to get to Basin Electric Power Plant.</u> <u>It also serves heavy agriculture traffic.</u> _____ _____ _____	
LPA Authorization	LPA Contact (print) _____ Contact email and phone number: _____ Attach resolution from Commission/Council authorizing application for grant(s).	

BANNER ASSOCIATES, INC.

ATTACHMENT

PRELIMINARY ENGINEERING COST ESTIMATE - PHASE I SERVICES
SURVEY AND HYDRAULICS
BROOKINGS COUNTY, STR. NO. 06-280-116, OVER DEER CREEK1. DIRECT LABOR SALARY COST:

Doug Wessel - Sr. Project Manager	24 hrs.	x	\$55.91	=	\$1,341.84
Kent Johnson - Project Manager	120 hrs.	x	\$39.87	=	\$4,784.40
Rich Uckert - Project Manager	24 hrs.	x	\$38.88	=	\$933.12
Nate Nielson - Survey Manager	4 hrs.	x	\$33.66	=	\$134.64
Austin Johnson - Land Surveyor	24 hrs.	x	\$24.72	=	\$593.28
Chadwick Martinson - Survey Tech.	24 hrs.	x	\$21.88	=	\$525.12
Troy Schmeling - CADD Tech.	24 hrs.	x	\$22.93	=	\$550.32
TOTAL DIRECT LABOR COST	244 hrs.				\$8,862.72

2. LABOR OVERHEAD COST:

Employee Benefits	44.878 %	x	\$8,862.72	=	\$3,977.41
G & A Overhead	90.696 %	x	\$8,862.72	=	\$8,038.13
TOTAL LABOR OVERHEAD COST					\$12,015.54

3. TRANSPORTATION COST:

Vehicle	500 mi.	x	\$0.50	=	\$250.00
Meals	6 ea.	x	\$11.00	=	\$66.00
TOTAL TRANSPORTATION COST					\$316.00

4. MATERIALS & SUPPLIES COST:

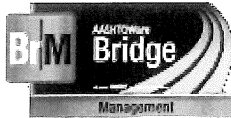
Photocopies	300 ea.	x	\$0.054	=	\$16.20
Miscellaneous	at cost			=	\$49.51
TOTAL MATERIALS AND SUPPLIES COST					\$65.71

5. TOTAL COST: = \$21,259.97

6. FIXED FEE: 13.0 % x (\$8,862.72 + \$12,015.54) = \$2,714.17

7. CAPITAL COST OF MONEY: 1.42 % x \$8,862.72 = \$125.86

8. TOTAL COST-PLUS-FIXED FEE: = \$24,100.00



Welcome: z Banner East
Database: HB31BRM621
Help ? Account LogOut

Menu

Bridges Reports Inspection Analysis Custom Bridge

Condition
Appraisal
Inventory
Schedule
Work
Multimedia
Assessments
Custom - Bridge
Custom - Inspection
Custom - Roadway
Custom - Structure Unit
Custom - SD BIG SCORE

Bridge 06280116

BIG SCORE

10.22000000112107

Adjusted BIG Score = 28.76

Calculate

Reset

Inputs

Wheel Tax \$ 4

* Value must be numeric. 0.00 - 5.00

Bid Ready 0

* Value must be numeric. 0 or 10

LPA Financial Commitment 0

* Value must be numeric. 0.00 - 10.00

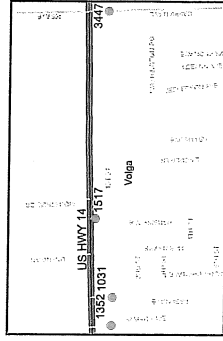
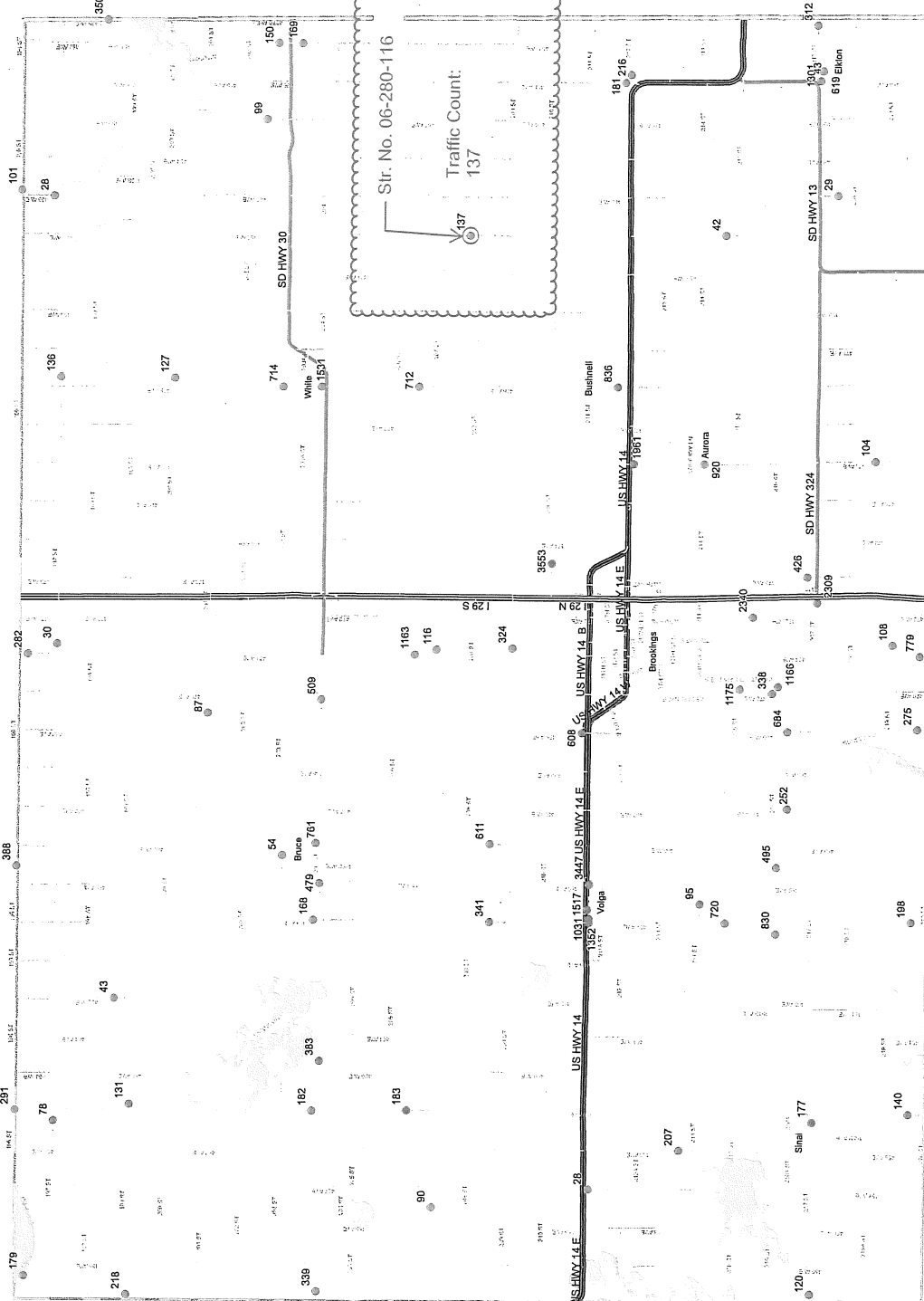
Calculated Score Values

1	2	3
Bridge Condition Score 8.429	User Impact Score 1.80000000112107	Local Planning Score 8
12.33 points (See below)		

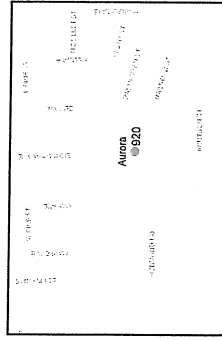
Values Used In Calculations

Adjusted Score Calc 1 + 2 + 3	Owner/Custodian Value 2	Bridge Deficiency S
Posting 5	FA Route 0000	Wheel Tax \$ 4
Substructure 4	Recent ADT 90	Bid Ready 0
Superstructure Condition 5	Detours (Length) 6.0000111173001	LPA Financial Commitment 0
Culvert Condition N	137 (See attached)	
Fracture Critical N	9 miles (See attached)	
Scour Critical U	Adjusted User Impact Score: Off-System (137 * 9) / 100 = 12.33 < 20 max. Therefore; use 12.33 points	
Sufficiency Rating Tie Breaker 57.1		

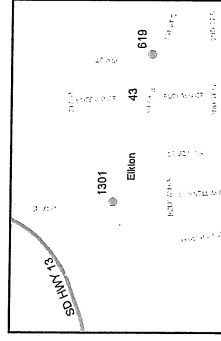
View Rules



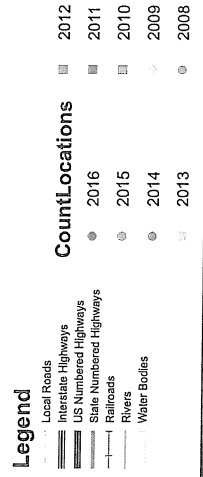
Volga



Aurora



Elkton



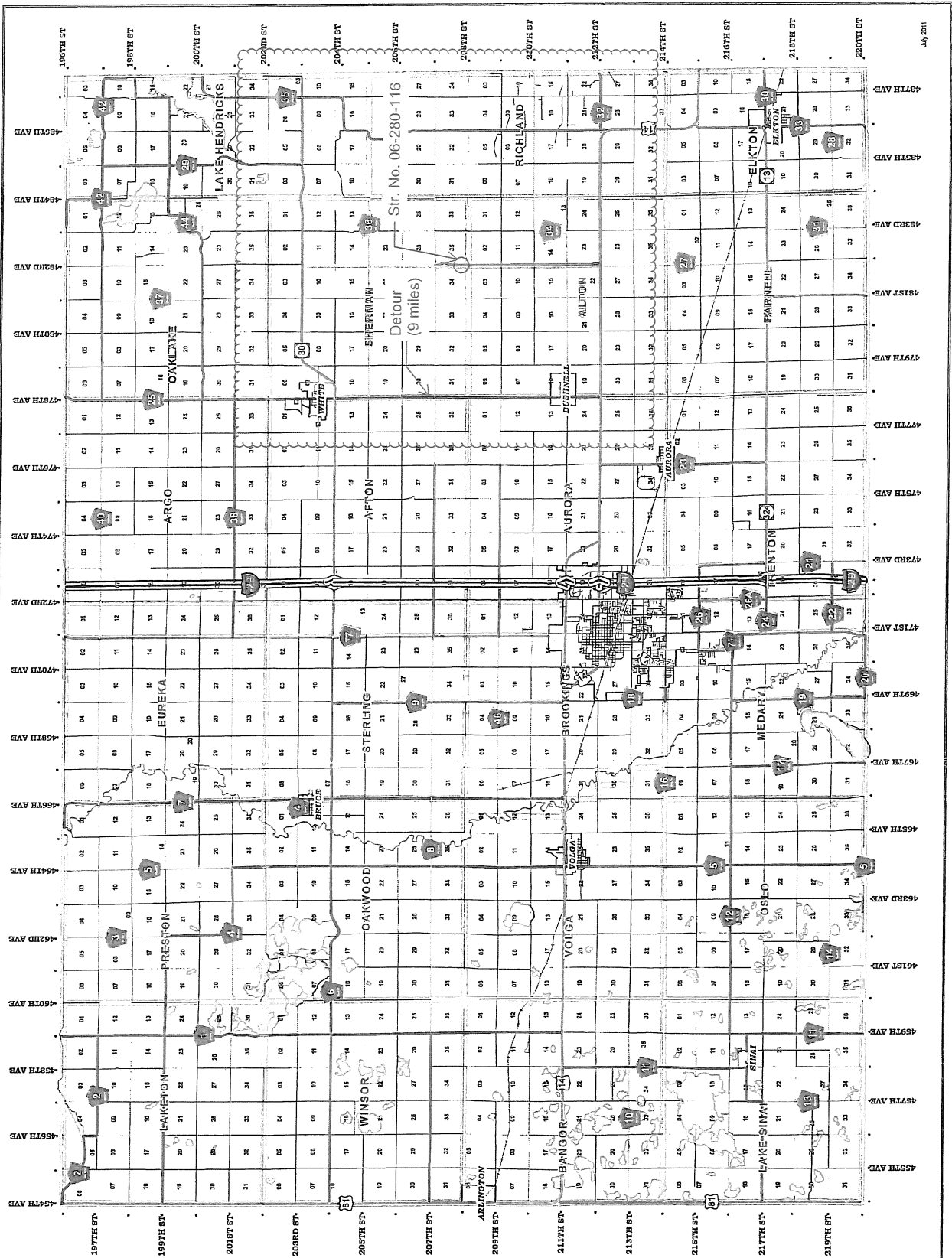
Brookings County



Legend

- Interstate 29
- US Highways
- State Highways
- Paved Roads
- Gravel Roads
- roads 911
- Rail Road
- Cities
- Big Sioux River
- Section Lines
- Township Lines
- Lakes

0 2.5 5 Miles



06/26/2017

**BROOKINGS COUNTY HIGHWAY DEPT
JOB COST REPORT**

Page 1

Asset Code	Date	Exp Type	Refer.#	Item #	Description	Fun / Fnc / Obj	Units	Direct Cost	Indirect Cost	Total Cost	Pr Cd
BRG 280116	09/16/2016	4	17262		PUMPER TRUCK	201 457 259	1.00	550.00	.00	550.00	0
BRG 280116	09/16/2016	4	8223060			201 457 399	1.00	359.00	.00	359.00	0
BRG 280116	09/25/2016	4	428572			201 457 251	1.00	4285.72	.00	4285.72	0
Subtotal for Expense Type 4							3.00	5,194.72	.00	5,194.72	
Subtotal for Function RPR/MAINT BRDGS							3.00	5,194.72	.00	5,194.72	
BRG 280116	08/19/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	08/20/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	08/21/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	08/26/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	08/27/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	08/28/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	09/02/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	1.00	26.77	13.12	39.89	1
BRG 280116	09/03/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	09/04/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	09/08/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 116	1.00	26.77	13.12	39.89	0
BRG 280116	09/08/2016	1	1	MD	DENNIS W MILLER	201 461 116	1.00	24.90	12.20	37.10	0
BRG 280116	09/09/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	09/10/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
BRG 280116	09/11/2016	1	1	FC	CLIFFORD A FRIEDRIC	201 461 121	2.00	53.54	26.23	79.77	1
Subtotal for Expense Type 1							25.00	667.38	326.97	994.35	
BRG 280116	09/08/2016	2	1	0388	DODGE FLATBED	201 461 651	1.00	3.29	8.43	11.72	0
Subtotal for Expense Type 2							1.00	3.29	8.43	11.72	
BRG 280116	08/30/2016	3	1	24	24CULVERT HCT	201 461 381	10.00	151.00	.00	151.00	0
Subtotal for Expense Type 3							10.00	151.00	.00	151.00	
Subtotal for Function Insp/check brdg							36.00	821.67	335.40	1,157.07	
BRG 280116	08/29/2016	1	1	MD	DENNIS W MILLER	201 467 116	1.00	24.90	12.20	37.10	0
Subtotal for Expense Type 1							1.00	24.90	12.20	37.10	
BRG 280116	08/29/2016	2	1	0381	FORD PICKUP 4 DOOF	201 467 651	1.00	18.70	6.80	25.50	0
Subtotal for Expense Type 2							1.00	18.70	6.80	25.50	
Subtotal for Function WING/STRUCTURAL							2.00	43.60	19.00	62.60	
TOTAL FOR ASSET # 280116							41.00	6,059.99	354.40	6,414.39	
FINAL TOTAL:							41.00	6,059.99	354.40	6,414.39	