

Resolution #17-28

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):

06-240-141 (0.9N of Bushnell on 478th 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.

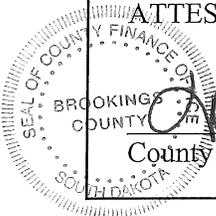
NOW THEREFORE BE IT RESOLVED:

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:



Aiki Buseth
County Auditor/City Finance Officer

[Signature]
Chairman/Mayor

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

PRELIMINARY ENGINEERING COST ESTIMATE - PHASE I SERVICES

SURVEY AND HYDRAULICS

BROOKINGS COUNTY, STR. NO. 06-240-141, OVER DEER CREEK

1. 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	450 mi.	x	\$0.50	=	\$225.00
Meals	6 ea.	x	\$11.00	=	\$66.00
TOTAL TRANSPORTATION COST					\$291.00

4. MATERIALS & SUPPLIES COST:

Photocopies	300 ea.	x	\$0.054	=	\$16.20
Miscellaneous	at cost			=	\$74.51
TOTAL MATERIALS AND SUPPLIES COST					\$90.71

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

BIG SCORE

Adjusted BIG Score = 36.56

Inputs

Wheel Tax \$ * Value must be numeric. 0.00 - 5.00
 Bid Ready * Value must be numeric. 0 or 10
 LPA Financial Commitment * Value must be numeric. 0.00 - 10.00

Calculated Score Values

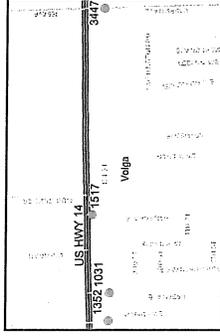
1	2	3
Bridge Condition Score <input type="text" value="8.556"/>	User Impact Score <input type="text" value="7.06287026403834"/>	Local Planning Score <input type="text" value="8"/>

20 points (See below)

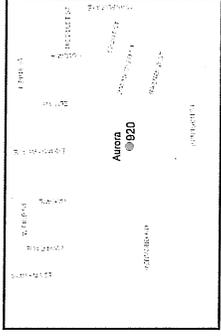
Values Used In Calculations

1	2	3
Adjusted Score Calc <input type="text" value="1 + 2 + 3"/>	Owner/Custodian Value <input type="text" value="2"/>	Bridge Deficiency <input type="text" value="S"/>
Posting <input type="text" value="5"/>	FA Route <input type="text" value="6317"/>	Wheel Tax \$ <input type="text" value="4"/>
Substructure <input type="text" value="5"/>	Recent ADT <input type="text" value="795 (See attached)"/>	Bid Ready <input type="text" value="0"/>
Superstructure Condition <input type="text" value="4"/>	Detours (Length) <input type="text" value="11 miles (See attached)"/>	LPA Financial Commitment <input type="text" value="0"/>
Culvert Condition <input type="text" value="N"/>		
Fracture Critical <input type="text" value="N"/>		
Scour Critical <input type="text" value="U"/>		
Sufficiency Rating Tie Breaker <input type="text" value="44.4"/>		

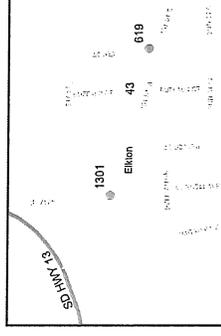
Adjusted User Impact Score:
 On-System
 $(795 * 11) / 350 = 24.99 > 20 \text{ max.}$
 Therefore; use 20 points



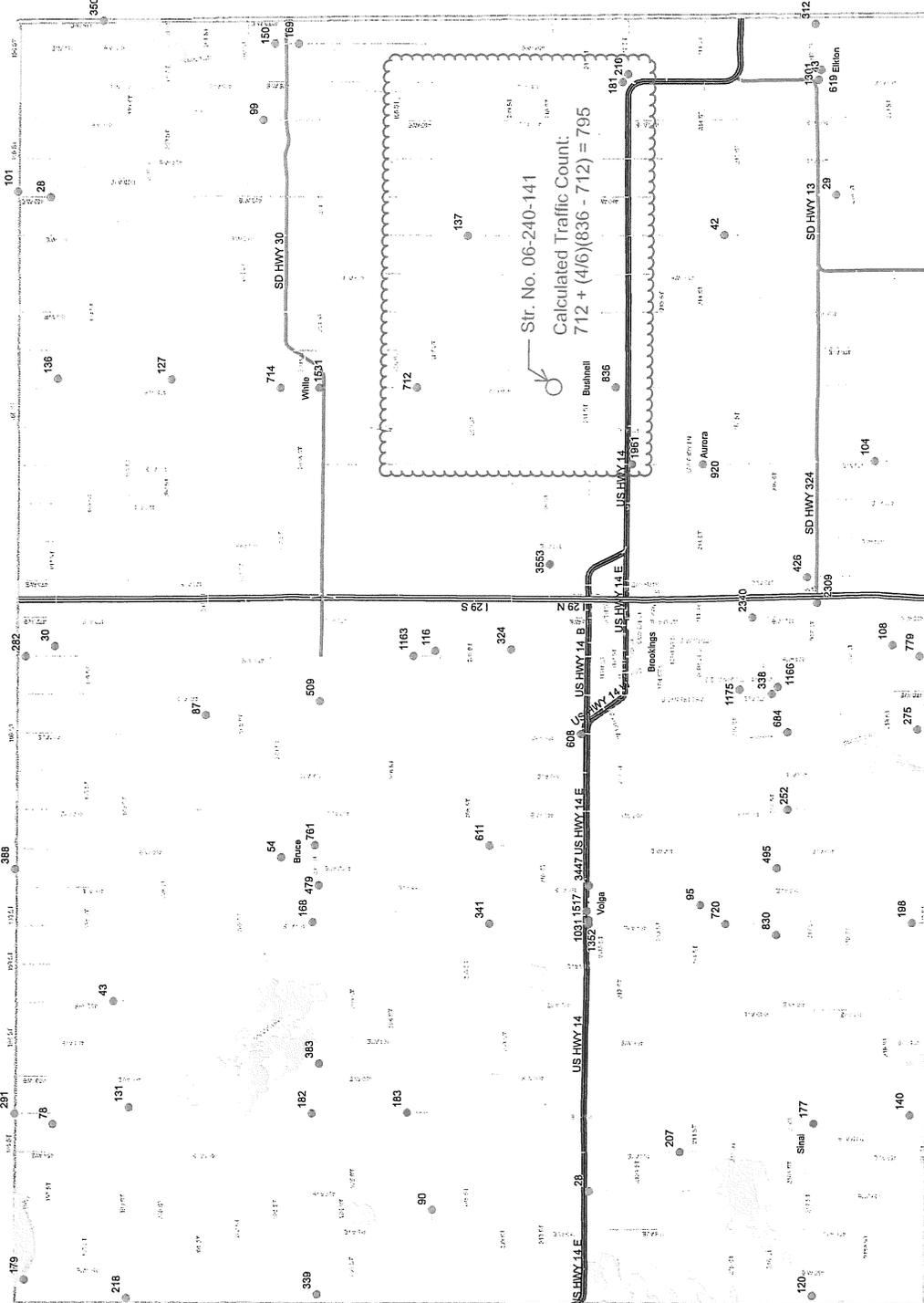
Volga



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

