



**LAKE COUNTY
5-YEAR HIGHWAY &
BRIDGE IMPROVEMENT
PLAN
2018-2022**

**HIGHWAY SUPERINTENDENT
DAVE FEDELER**

Publish: September 15, 2017 & September 22, 2017

**NOTICE OF PUBLIC MEETING/OPEN HOUSE
FOR
LAKE COUNTY TRANSPORTATION PLAN**

Date: October 2, 2017

Time: 1:00 p.m. to 2:00 p.m.

**Place: Lake County Courthouse Commission Room
200 E. Center, Madison, SD 57042**

Lake County will hold an open house style public meeting to discuss and receive public input on the development of a Transportation Plan for Lake County. The open house will be informal with one on one discussion with County officials & staff.

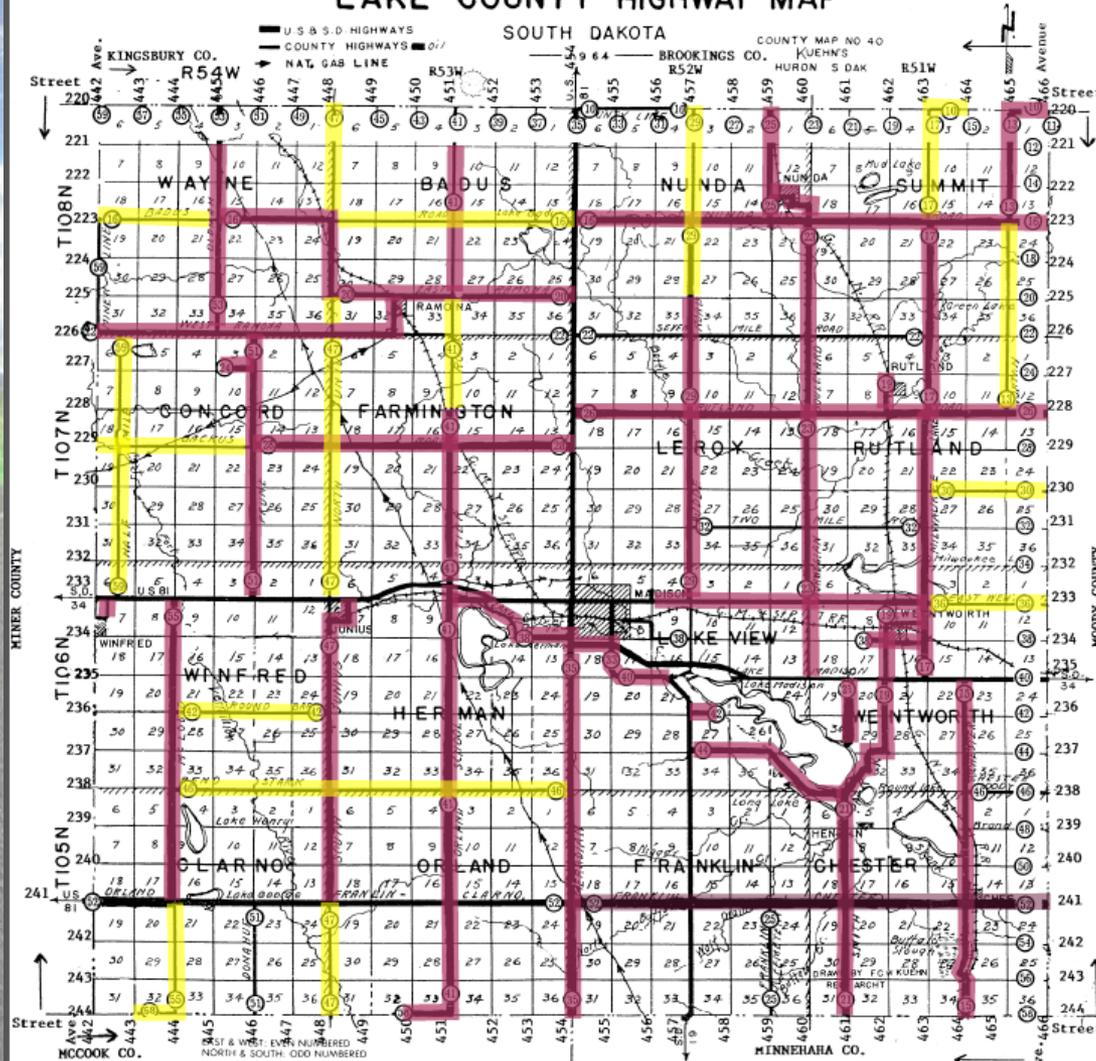
Between 1:00 p.m. and 2:00 p.m. County staff will be available to discuss transportation issues with Lake County and answer your questions. During this time you will also have the opportunity to present written comments.

Published twice at a total approximate cost of \$_____

2017 LAKE COUNTY 5 YEAR ROAD PLAN ROAD INVENTORY

- HARD SURFACE ROADS
- GRAVEL SURFACE ROADS

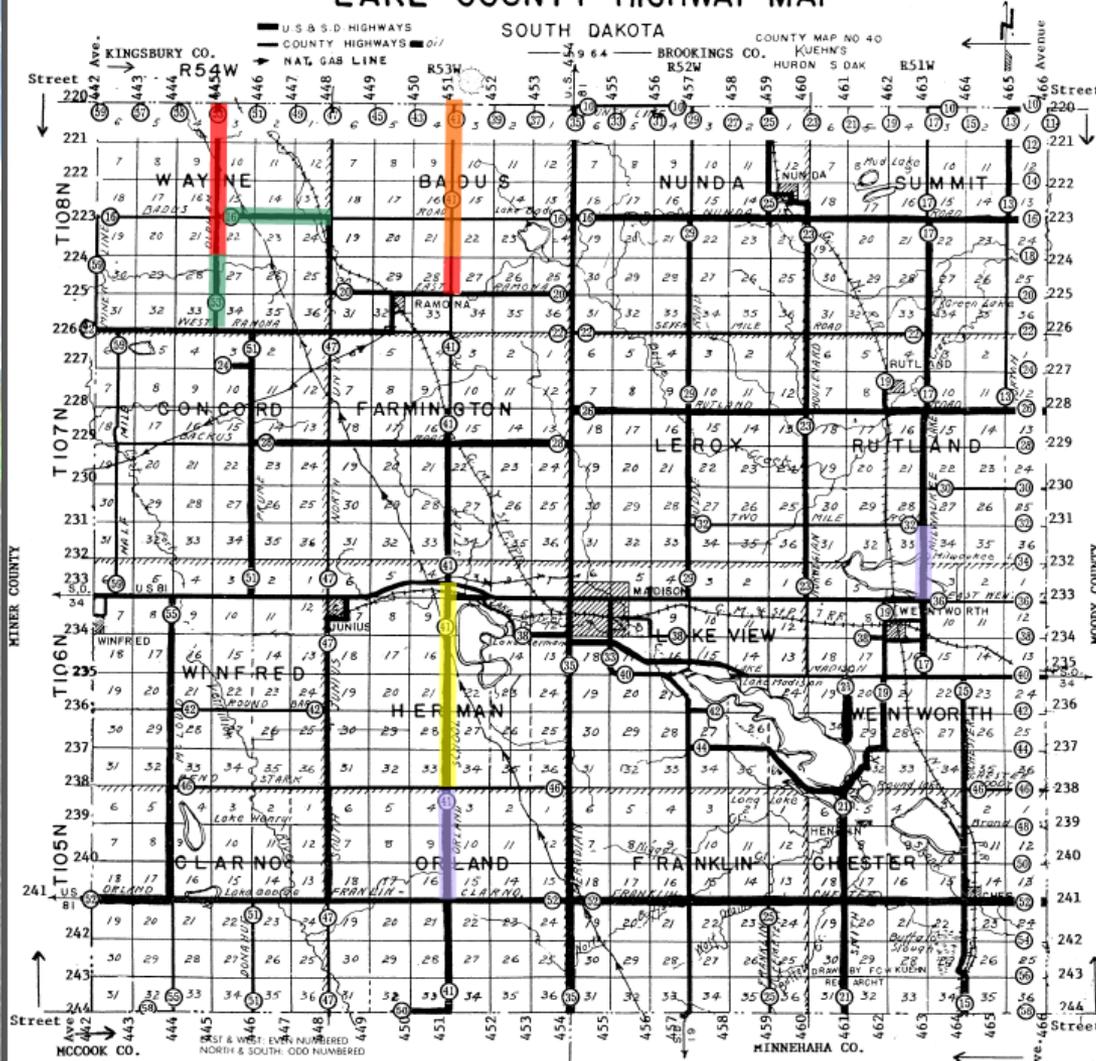
LAKE COUNTY HIGHWAY MAP



2017 LAKE COUNTY 5 YEAR ROAD PLAN OVERLAY

- 2018 - 5.0 MILES
- 2019 - 5.0 MILES
- 2020 - 4.0 MILES
- 2021 - 5.2 MILES
- 2022 - 5.0 MILES

LAKE COUNTY HIGHWAY MAP



FIVE-YEAR PROGRAMMED PROJECT LISTING -OVERLAY

Project Location	Project Description	Year	Proposed Five-Year Project Funding Information (in thousands of dollars)						Total Project Cost
			(All Dollars in Thousands)						
			Local Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant	Total Funding	
R16 (445 Ave. to 448 Ave.)3 miles FAS ROAD	Overlay/Reconstruction/Grind-engineer core tested-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2018	639					639	639
R53 (224 St. to 226 St.) 2 miles	Overlay/Reconstruction/Grind-engineer core tested-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2018	426					426	426
R53 (220 St. to 224 St.) 4 miles	Overlay/Reconstruction/Grind-engineer core tested-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2019	852					852	852
R41 (224 St. to 225 St.) 1 mile	Overlay/Reconstruction/Grind-will engineer core test-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2019	213					213	213
R41 (220 St. to 224 St.) 4 miles	Overlay/Reconstruction/Grind-will engineer core test-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2020	852					852	852
R41 (233 St. to 238 St.) 5 miles	Overlay/Reconstruction/Grind-will engineer core test-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2021	1,065					1,065	1,065
R41(241 St. To 238 St.)3miles	Overlay/Reconstruction/Grind-will engineer core test-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2022	839					639	639
R17(233 St. to 231 st.)	Overlay/Reconstruction/Grind-will engineer core test-rebuild road 8"base,with 2 compacted 2"lifts of asphalt	2022	426					426	426

Local Funding Includes: Match on BIG funding, traditional BRO & BRF projects, TAP projects, etc., and some shortfalls/balances on misc. projects. Also STP Payout funds.

Federal Funding Includes: 100% of Signing & Delineation projects, and approx. 80% of STP, BRO, BRF, and TAP projects. Federal portion of ER/FEMA projects.

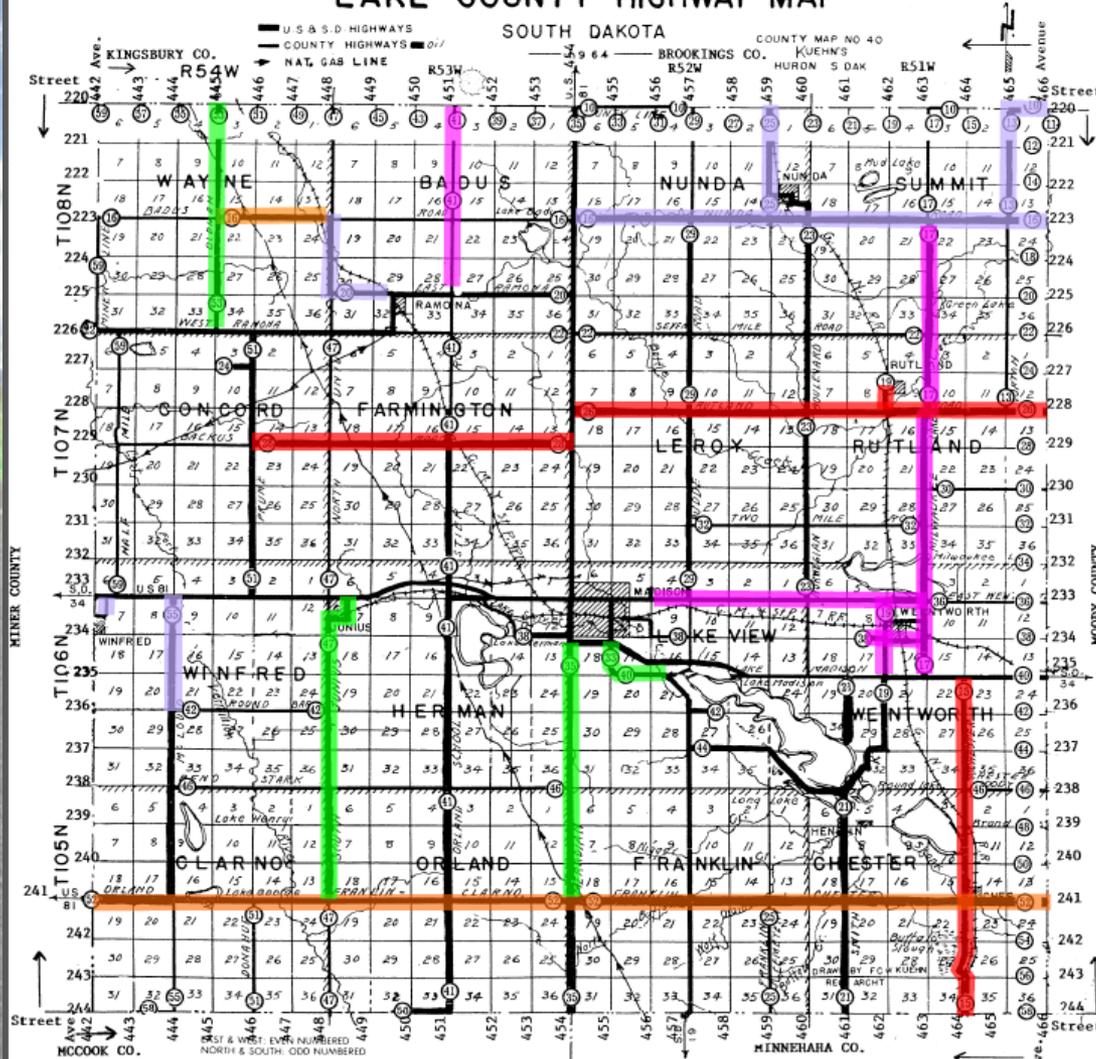
State Funding Includes: 80% of awarded BIG projects and approx. 20% match on STP projects.

Anticipated Grant (BIG): 80% of total

2017 LAKE COUNTY 5 YEAR ROAD PLAN SEAL COAT & FOG SEAL

- 2018 - 25.8 MILES
- 2019 - 27.0 MILES
- 2020 - 23.5 MILES
- 2021 - 27.0 MILES
- 2022 - 29.5 MILES

LAKE COUNTY HIGHWAY MAP



FIVE-YEAR PROGRAMMED PROJECT LISTING(Sealcoating Rate .35 sq/yd CRS-2P #8 Red Chips)INCLUDED FOG SEAL

Project Location	Project Description	Year	Proposed Five-Year Project Funding Information(in Thousands of dollars)						Total Project Cost
			Local Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant	Total Funding	
R55(236 ST. TO 233 ST.) BALC 2017	Sealcoating 3 miles	2018	100%						46
R59(233 ST. TO 234 ST.)BALC 2017	Sealcoating .5 miles	2018	100%						8
R16(454 AVE. TO 466 AVE.)	Sealcoating 12 miles	2018	100%						184
R47(225 ST. TO 223 ST.)	Sealcoating 2 miles	2018	100%						31
R20 (448 AVE. TO PLEASANT AVE.)	Sealcoating 1.3 miles	2018	100%						20
R25 (223 ST. TO 220 ST.)	Sealcoating 3 miles	2018	100%						46
R10 (465 AVE. TO 466 AVE.)	Sealcoating 1 mile	2018	100%						15
R13 (223 ST. TO 220 ST.)	Sealcoating 3 miles	2018	100%						46
R16 (445 AVE. TO 448 AVE.)	Sealcoating 3 miles	2019	100%						46
R52(442 AVE. TO 466 AVE.)	Sealcoating 24 miles	2019	100%						367
R53 (226 ST. TO 220 ST.)	Sealcoating 6 miles	2020	100%						92
R47(233 ST. TO 241 ST.)	Sealcoating 8 miles	2020	100%						122
R35(234 ST. TO 241 ST.)	Sealcoating 7 miles	2020	100%						107
R33(234 ST. TO 235 ST.)	Sealcoating 1 mile	2020	100%						15

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State Funding Includes: 80% of awarded BIG projects and approx. 20% match on STP projects.

Anticipated Grant (BIG): 80% of total

FIVE-YEAR PROGRAMMED PROJECT LISTING(Sealcoating Rate .35 sq/yd CRS-2P #8 Red Chips)INCLUDED FOGSEAL

Project Location	Project Description	Year	Proposed Five-Year Project Funding Information(in Thousands of dollars)						Total Project Cost
			Local Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant	Total Funding	
R40(455 AVE. TO 457 AVE.)	Sealcoating 1.5 miles	2020	100%						23
R41(225 ST. TO 220 ST.)	Sealcoating 5 miles	2021	100%						76
R17(235 ST. TO 223 ST.)	Sealcoating 12 miles	2021	100%						184
R36(463 AVE. TO AIRPORT CORNER)	Sealcoating 6.5 miles	2021	100%						99
R19(235 ST. TO 233 ST.)	Sealcoating 2 miles	2021	100%						31
R38(463 AVE. TO 461 AVE.)	Sealcoating 1.5 miles	2021	100%						23
R28 (446 AVE. TO 454 AVE.)	Sealcoating 8 miles	2022	100%						122
R26 (454 AVE. TO 466 AVE.)	Sealcoating 12 mile	2022	100%						184
R15(244 ST. TO 235 ST.)	Sealcoating 9 miles	2022	100%						138
R19(228 ST. TO 227 ST.)Village	Sealcoating .5 miles	2022	100%						8

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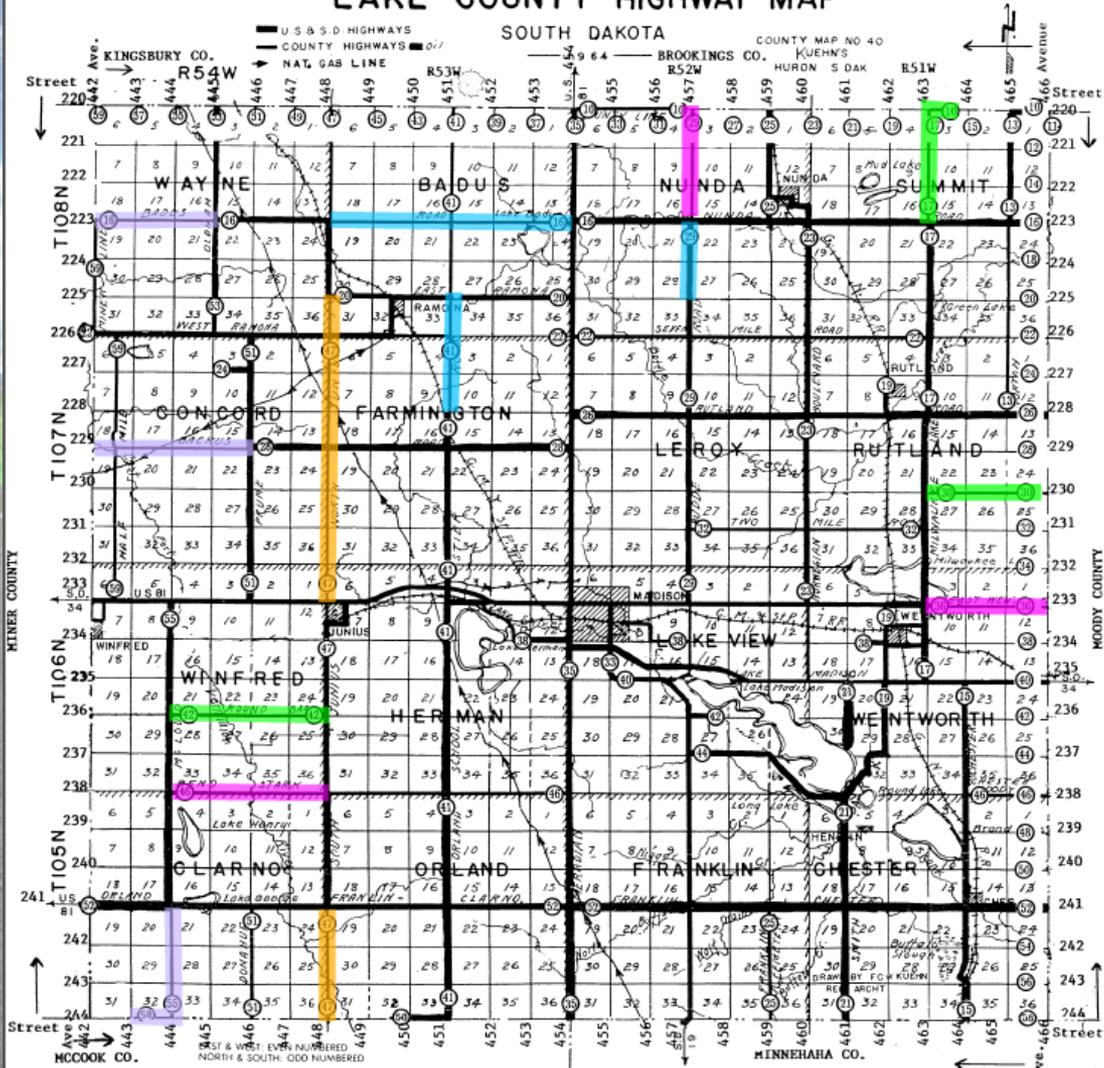
State Funding Includes: 80% of awarded BIG projects and approx. 20% match on STP projects.

Anticipated Grant (BIG): 80% of total

2017 LAKE COUNTY 5 YEAR ROAD PLAN GRAVEL SURFACE

- 2018 - 11.0 MILES
- 2019 - 10.0 MILES
- 2020 - 10.5 MILES
- 2021 - 11.0 MILES
- 2022 - 11.0 MILES

LAKE COUNTY HIGHWAY MAP



FIVE-YEAR PROGRAMMED PROJECT LISTING-GRAVEL SURFACE ROAD PLAN(County Gravel Pit)

Project Location	Project Description	Year	Proposed Five-Year Project Funding Information(in thousands of dollars)						Total Project Cost
			Local Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant	Total Funding	
R47(224 ST. TO 241 ST.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2018	100%						22
R47(225 ST. TO 233 ST.)	Will Repalce in Kind Gravel 3" lift-8 miles Pull Shoulders. Did not do 2017-haul route/overlay	2018	100%						59
R46(238 ST. 444 AVE. TO 448 AVE.)	Will Repalce in Kind Gravel 3" lift-4 miles Pull Shoulders	2019	100%						29
R29(220 ST. TO 223 ST.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2019	100%						22
R36(463 AVE. TO 466 AVE.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2019	100%						22
R42(444 AVE. TO 448 AVE.)	Will Repalce in Kind Gravel 3" lift-4 miles Pull Shoulders	2020	100%						30
R30(463 AVE. TO 466 AVE.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2020	100%						22
R17(220 ST. TO 223 ST.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2020	100%						22
R10(363 AVE. TO 464 AVE.)	Will Repalce in Kind Gravel 3" lift-.5 miles Pull Shoulders	2020	100%						4

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State Funding Includes: 80% of awarded BIG projects and approx. 20% match on STP projects.

Anticipated Grant (BIG): 80% of total

FIVE-YEAR PROGRAMMED PROJECT LISTING-GRAVEL SURFACE ROAD PLAN(County Gravel Pit)

Project Location	Project Description	Year	Proposed Five-Year Project Funding Information(in thousands of dollars)						Total Project Cost
			Local Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant	Total Funding	
R28(442 AVE. TO 446 AVE.)	Will Repalce in Kind Gravel 3" lift-4 miles Pull Shoulders	2021	100%						30
R16(442 AVE. TO 445 AVE.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2021	100%						22
R55(241 ST. TO 244 ST.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2021	100%						22
R58(443 AVE. TO 444 AVE.)	Will Repalce in Kind Gravel 3" lift-1 miles Pull Shoulders	2021	100%						7
R16(448 AVE. TO 454 AVE.)	Will Repalce in Kind Gravel 3" lift-6 miles Pull Shoulders	2022	100%						44
R41(225 ST. TO 228 ST.)	Will Repalce in Kind Gravel 3" lift-3 miles Pull Shoulders	2022	100%						22
R29(225 ST. TO 223 ST.)	Will Repalce in Kind Gravel 3" lift-2 mile Pull Shoulders	2022	100%						15

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#1
2018 BRIDGE - B189210
ON CO. RD R52

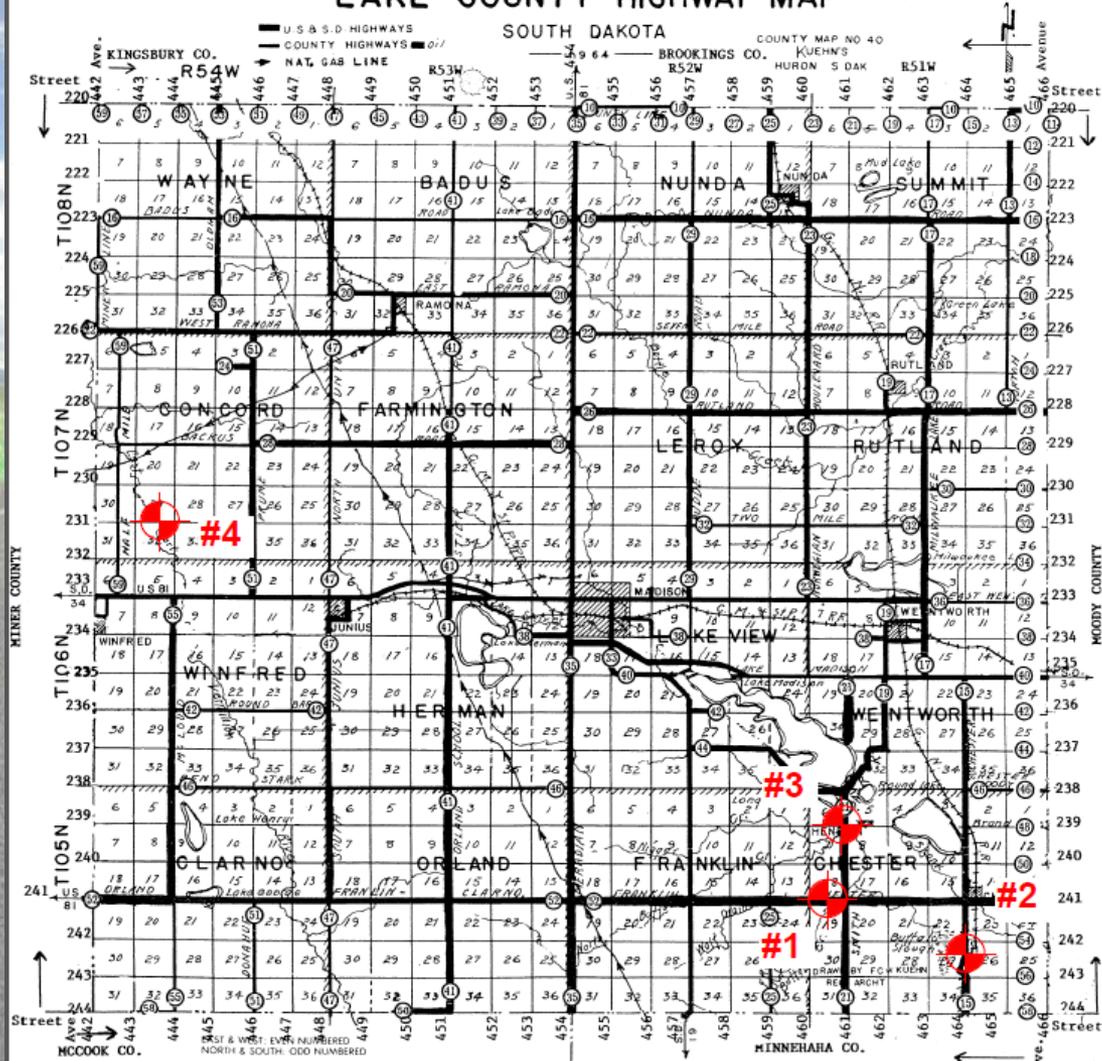
#2
2018 BRIDGE - B220223
ON CO. RD R15

#3
2018 BRIDGE - B190192
ON CO. RD R21

#4
2019 BRIDGE - B015110
IN CONCORD TWP

2017 LAKE COUNTY BRIDGE PLAN

LAKE COUNTY HIGHWAY MAP



FIVE-YEAR PROGRAMMED PROJECT LISTING BRIDGE IMPROVEMENT GRANT (BIG)PROCEDURE

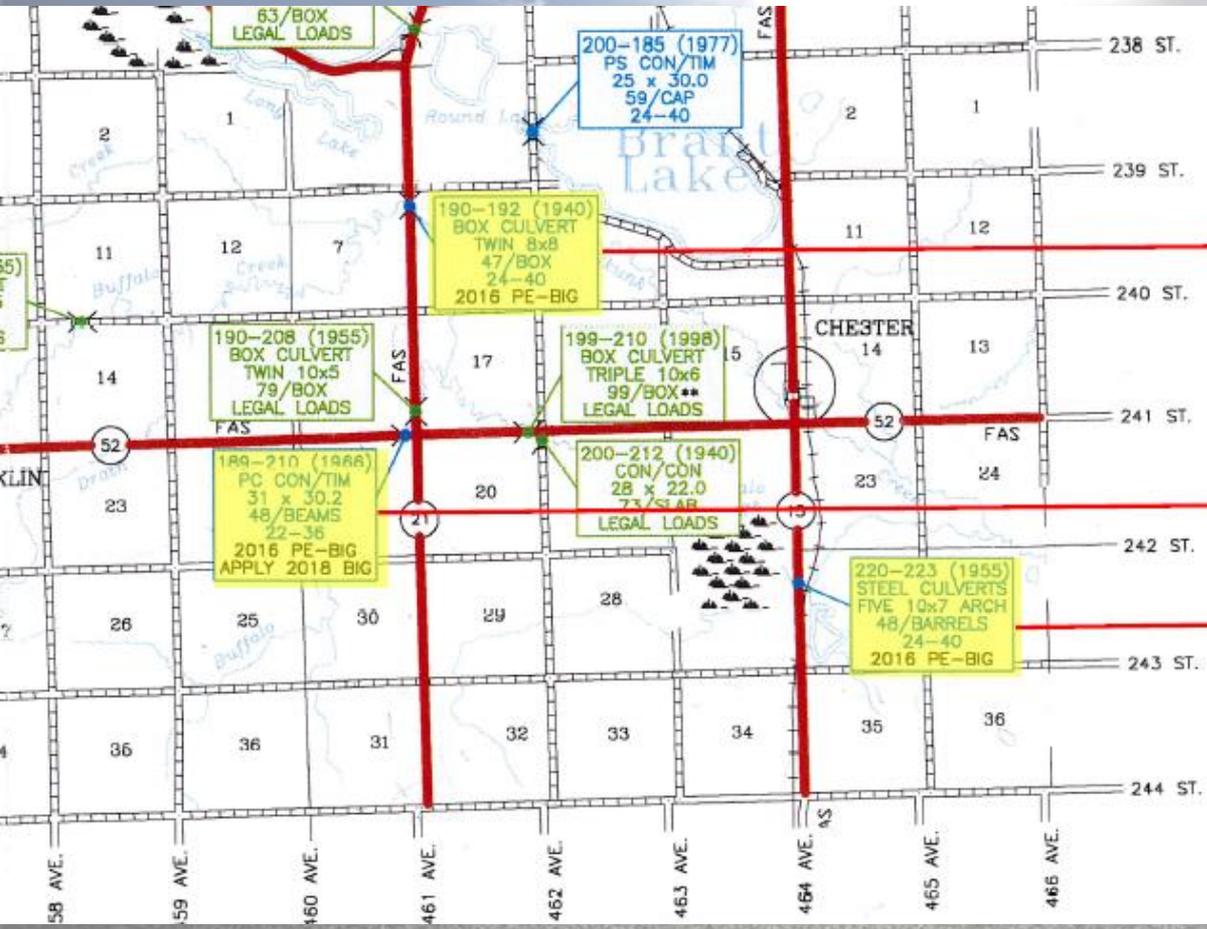
Project Location	Project Description	Year Built	Suff Rate	Year	Proposed Five-Year Project Funding Information(in thousands of dollars)					Total Project Cost	
					Local & STP FUNDS Funding	Federal Funding	State Funding	Unfunded	Anticipated Grant		Total Funding
					Suff Rate 2017 inspection						
B-40-189-210 Prioritization Ranking: 1 Engineering completed-Will be Shovel ready 100%	3.W & 0.2 S Chester On FAS Route R52	1966	47.9	2018	80				apply for BIG Funds 320	400	
B-40-220-223 Prioritization Ranking: 2 Big Grant Hydraulic Engineering completed	1.6 S Chester On FAS Route R15	1955	48.1	2018	170				apply for BIG Funds 681	851	
B-40-190-192 Prioritization Ranking: 3 Big Grant Hydraulic Engineering completed	6.2 S & 6.0 E Madison On FAS Route R21	1940	47.4	2018	86				apply for BIG Funds 344	430	
B-40-015-110 Prioritization Ranking: 4	2.3 N & 1/2 E Winfred Concord Twp Road sec. 29/32 Vermillion River Fork	1930	44.5	2020				400		400	

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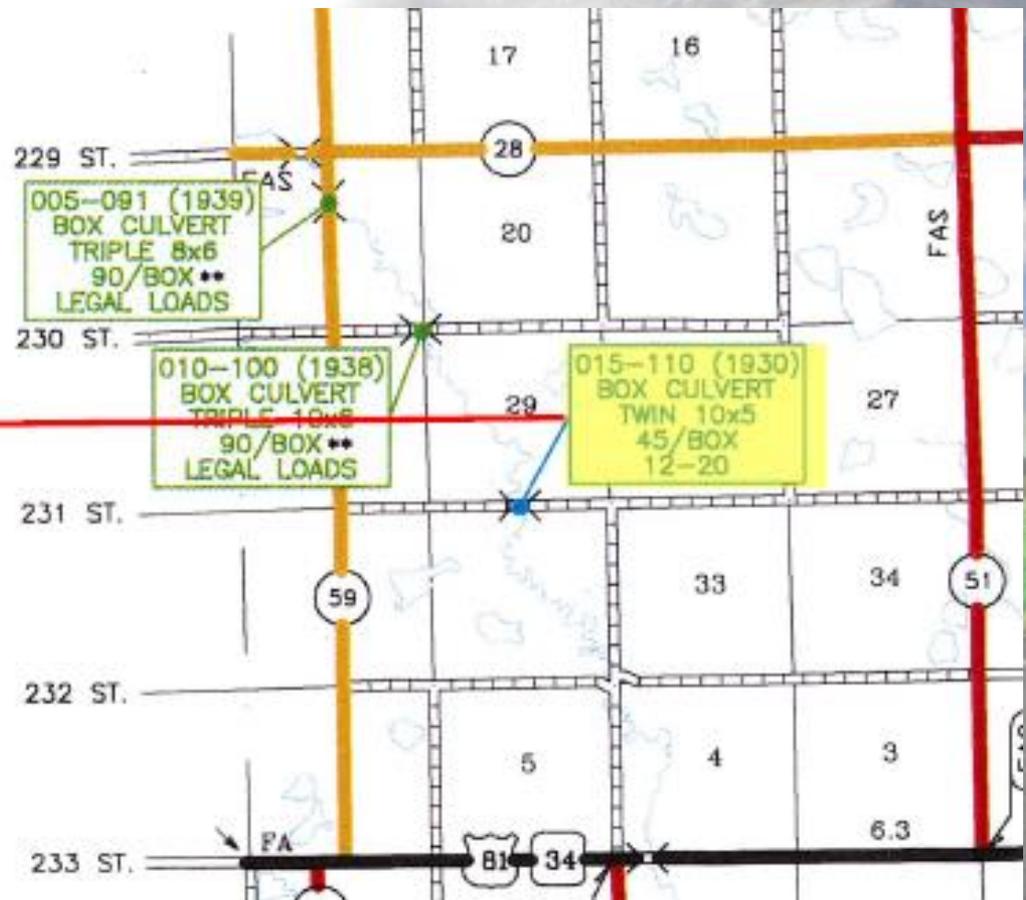


 = LEGAL

- 3) 2018 Bridge County R21 Road (FAS Route)
- 1) 2018 Bridge County R52 Road (FAS Route)
Will have shovel ready 100%
- 2) 2018 Bridge County R15 Road (FAS Route)

AAS

4) Concord Twp
Sec 29/32
Vermillion River Fork
2020



LAKE COUNTY
STRUCTURE 40-189-210 REPLACEMENT
PRELIMINARY COST ESTIMATE (2016)

SIZE	TYPE	TOTAL
2 - 11'x8'	CAST IN PLACE BOX CULVERT	\$320,740.00
2 - 12'x8'	PRECAST BOX CULVERT	\$320,190.00

Used
400,000

LAKE COUNTY
STRUCTURE 40-220-223 REPLACEMENT
PRELIMINARY COST ESTIMATE (2017)

SIZE	TYPE	TOTAL
3 - 12' x 10'	CAST-IN-PLACE BOX CULVERT	\$555,425.00
3 - 14' x 10'	PRECAST CONCRETE BOX CULVERT	\$604,775.00
5 - 10' Diameter	RC PIPE CULVERT	\$851,230.00

Used
851,000

LAKE COUNTY
STRUCTURE 40-190-192 REPLACEMENT
PRELIMINARY COST ESTIMATE (2017)

SIZE	TYPE	TOTAL
2 - 10' x 8'	CAST-IN-PLACE BOX CULVERT	\$333,620.00
4 - 7.5' Diameter	RC PIPE CULVERT	\$428,390.00

Used
430,000

0.*
2,081,000.*
20.*
416,200.00*

- Total on Rev Page = 1,681,000

+ Twp Bridge 400,000

Grand Total 2,081,000