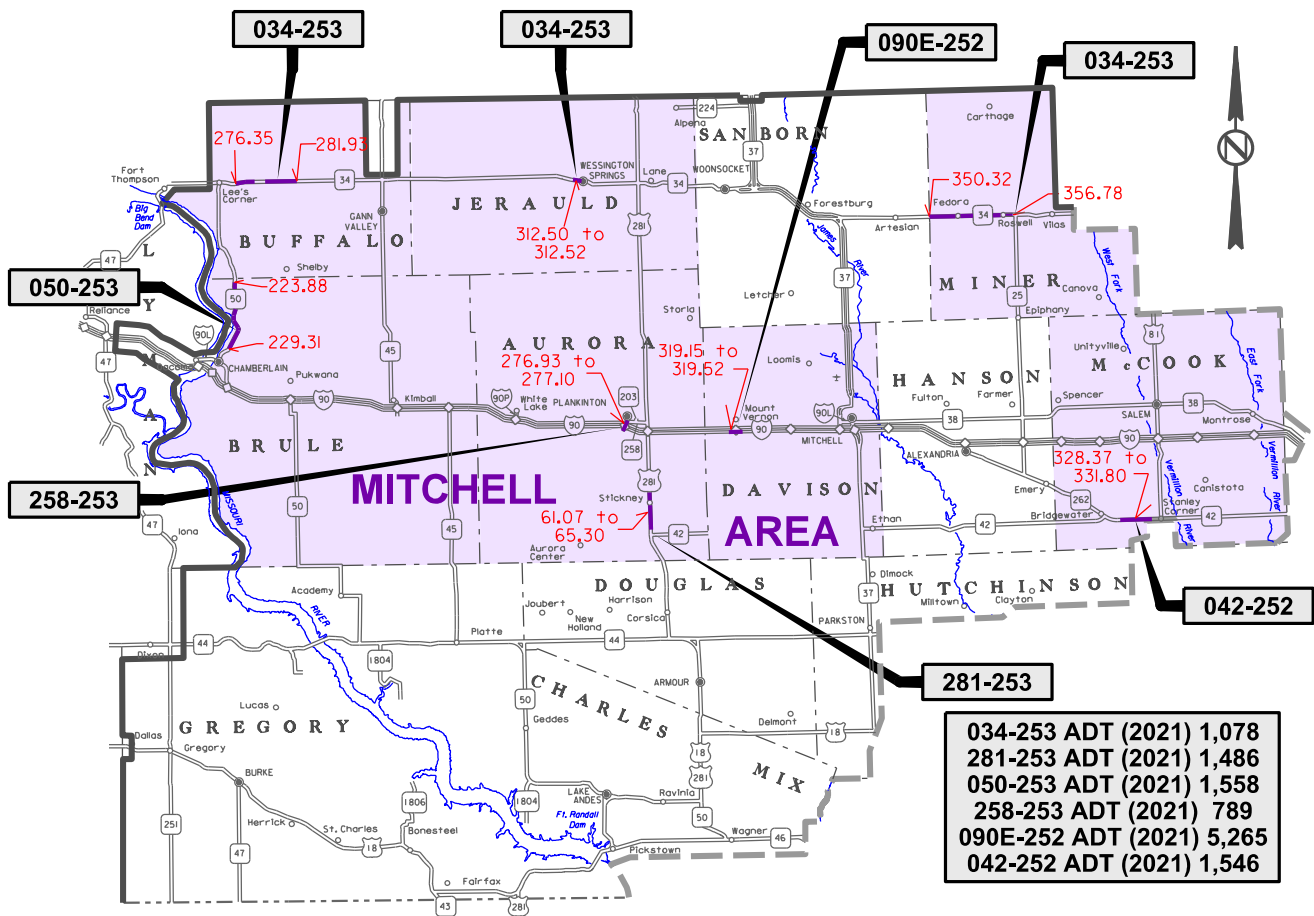


**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED**

**PROJECTS 034-253, 034-253, 034-253, 281-253,
050-253, 258-253, 090E-252 & 042-252
AURORA, BRULE, BUFFALO, DAVISON
JERAULD, McCOOK & MINER COUNTIES
SPOT ASPHALT CONCRETE RESURFACING
PCN I6TQ, I6TR, I6TT, I6TU, I6TV, I6TW, I6TX & I6TY**



034-253 ADT (2021)	1,078
281-253 ADT (2021)	1,486
050-253 ADT (2021)	1,558
258-253 ADT (2021)	789
090E-252 ADT (2021)	5,265
042-252 ADT (2021)	1,546

**STORM WATER PERMIT
(None required)**

INDEX OF SHEETS

Sheet 1	Layout Map
Sheet 2	Index of Sheets
Sheets 3 & 4	Estimate of Quantities
Sheets 5 - 7	Environmental Commitments & Plan Notes
Sheets 8 & 9	Tables of Spot Asphalt Concrete Resurfacing

ESTIMATE OF QUANTITIES

034-253 PCN I6TQ

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	226.0	Ton

034-253 PCN I6TR

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	183.0	Ton

034-253 PCN I6TT

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	30.0	Ton

281-253 PCN I6TU

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	75.0	Ton

050-253 PCN I6TV

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	94.0	Ton

258-253 PCN I6TW

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	172.0	Ton

034-253, 281-253, 050-253, 258-253, 090E-252 & 042-252
AURORA, BRULE, BUFFALO, DAVISON, JERAULD, McCOOK & MINER COUNTIES

ESTIMATE OF QUANTITIES (CONTINUED)

090E-252 PCN I6TX

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	400.0	Ton

042-252 PCN I6TY

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	72.0	Ton

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <<https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥ 140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at:

< <http://sdleastwanted.com/maps/default.aspx> >

< [South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species:](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04)
<https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04> >

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, No Dumping Allowed.
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

Cost associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

State Historic Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

Action Taken/Required:

All earth disturbing activities require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES (CONTINUED)

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow 30 Days from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

The Contractor is responsible for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

GENERAL SCOPE OF WORK

Spot asphalt concrete resurfacing on various routes within the SDDOT Mitchell Area. See Tables in plans.

ASPHALT COMPOSITE

Virgin mineral aggregate for Asphalt Concrete Composite shall conform to the requirements for Class E, Type 1. The asphalt binder used in the mixture shall be PG 58-34, PG 64-22, PG 64-28, PG 64-34, or PG 58-28 Asphalt Binder. All other requirement in the specifications for Asphalt Concrete Composite shall apply.

TRAFFIC CONTROL

Traffic Control and Flagging will be provided by the SDDOT Maintenance Forces. The Engineer must be given a 48 hour notice before work is to begin on an individual route to coordinate the traffic control and flagging with the maintenance forces.

**034-253, 281-253, 050-253, 258-253, 090E-252 & 042-252
AURORA, BRULE, BUFFALO, DAVISON, JERAULD, McCOOK & MINER COUNTIES**

TABLES OF SPOT ASPHALT CONCRETE RESURFACING

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	276.00	0.350	276.00	0.433	BOTH	24	440	98
SD34	276.00	0.740	276.00	0.759	WB	12	100	11
SD34	276.00	0.920	276.00	0.943	EB	12	120	13
SD34	277.00	0.040	277.00	0.085	EB	12	240	27
SD34	277.00	0.040	277.00	0.061	WB	12	110	12
SD34	277.00	0.580	277.00	0.629	WB	12	260	29
SD34	281.00	0.650	281.00	0.682	WB	12	170	19
SD34	281.00	0.900	281.00	0.928	WB	12	150	17
034-253 PCN I6TQ Total Tons								226

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	350.00	0.320	350.00	0.338	WB	12	95	11
SD34	353.00	0.050	353.00	0.071	EB	12	110	12
SD34	353.00	0.430	353.00	0.443	WB	12	70	8
SD34	353.00	0.680	353.00	0.693	WB	12	70	8
SD34	353.00	0.790	353.00	0.807	EB	12	90	10
SD34	353.00	0.860	353.00	0.875	EB	12	80	9
SD34	353.00	0.980	353.00	0.991	WB	12	60	7
SD34	354.00	0.450	354.00	0.490	EB	12	210	23
SD34	354.00	0.950	354.00	0.969	EB	12	100	11
SD34	356.00	0.000	356.00	0.062	EB	12	325	36
SD34	356.00	0.250	356.00	0.285	WB	12	185	21
SD34	356.00	0.700	356.00	0.734	EB	12	180	20
SD34	356.00	0.770	356.00	0.781	WB	12	60	7
034-253 PCN I6TR Total Tons								183

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	312.00	0.500	312.00	0.517	BOTH	36	90	30
034-253 PCN I6TT Total Tons								30

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US281	61.00	0.070	61.00	0.089	SB	12	100	11
US281	61.00	0.300	61.00	0.339	SB	12	210	23
US281	65.00	0.190	65.00	0.232	NB	12	220	24
US281	65.00	0.270	65.00	0.299	NB	12	155	17
281-253 PCN I6TU Total Tons								75

**034-253, 281-253, 050-253, 258-253, 090E-252 & 042-252
AURORA, BRULE, BUFFALO, DAVISON, JERAULD, McCOOK & MINER COUNTIES**

TABLES OF SPOT ASPHALT CONCRETE RESURFACING (CONTINUED)

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	223.00	0.880	223.00	0.912	BOTH	24	170	38
SD50	229.00	0.260	229.00	0.307	BOTH	24	250	56
050-253 PCN I6TV Total Tons								94

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
258	276.00	0.930	277.00	0.063	BOTH	24	700	155
258	277.00	0.014	277.00	0.100	BOTH	24	75	17
258-253 PCN I6TW Total Tons								172

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
I90	319.00	0.150	319.00	0.301	BOTH	24	800	178
I90	319.00	0.330	319.00	0.519	BOTH	24	1000	222
090E-252 PCN I6TX Total Tons								400

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD42	328.00	0.365	328.00	0.398	BOTH	24	175	39
SD42	331.00	0.773	331.00	0.801	BOTH	24	150	33
042-252 PCN I6TY Total Tons								72

These quantities and locations are based on 1.5" depth. Final locations and dimensions will be marked by the Engineer and are subject to change.