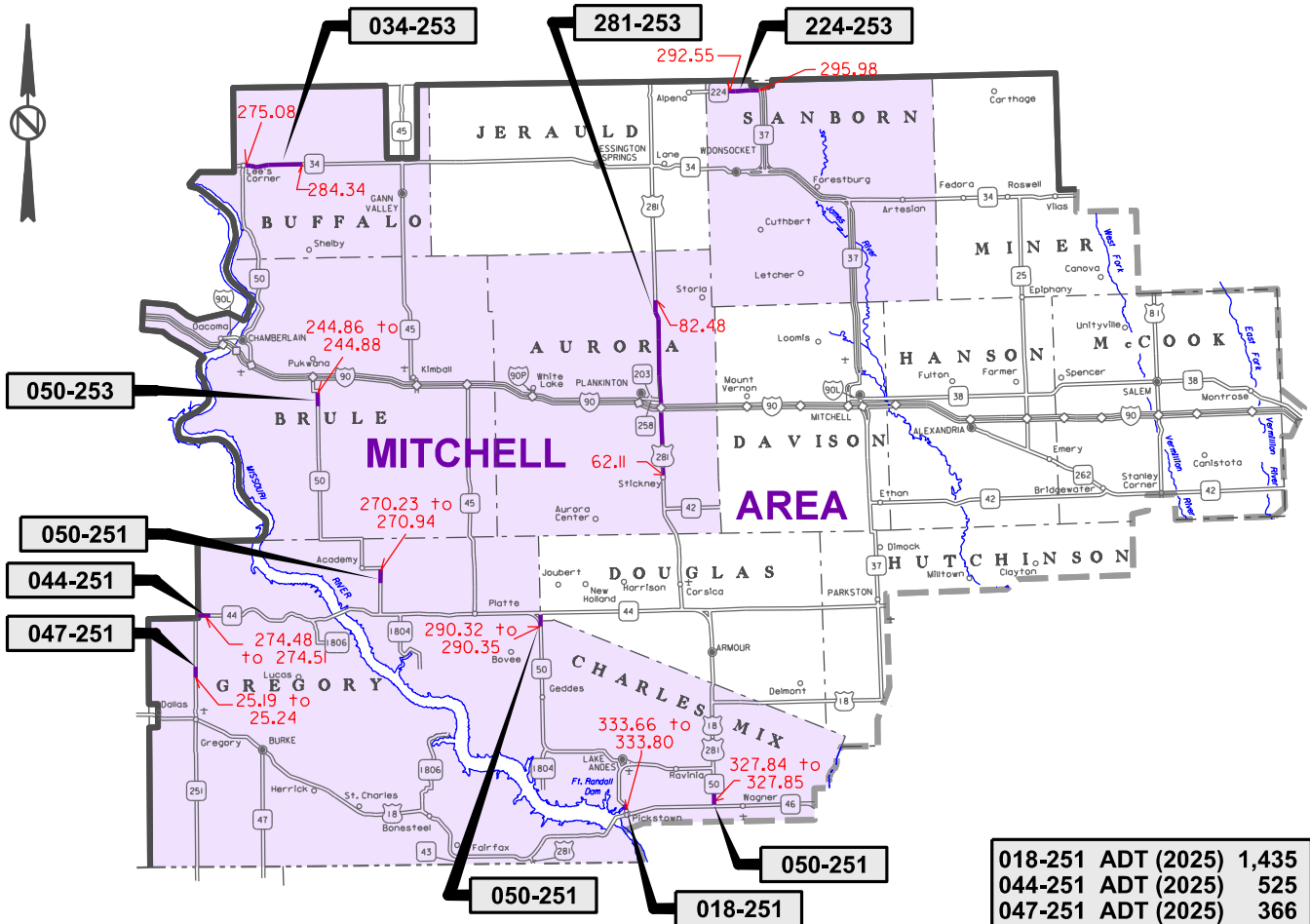


**STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED**

**PROJECTS 018-251, 044-251, 047-251, 050-251 (3 SEGMENTS),  
034-253, 050-253, 224-253 & 281-253  
AURORA, BRULE, BUFFALO, CHARLES MIX,  
GREGORY & SANBORN COUNTIES  
SPOT ASPHALT CONCRETE RESURFACING  
PCN I86E, I86F, I86G, I86H, I86J, I86K, I86L, I86M, I86N & I86P**



**STORM WATER PERMIT**  
(None required)

018-251	ADT (2025)	1,435
044-251	ADT (2025)	525
047-251	ADT (2025)	366
050-251	ADT (2025)	291
050-251	ADT (2025)	533
050-251	ADT (2025)	1,297
034-253	ADT (2025)	488
050-253	ADT (2025)	173
224-253	ADT (2025)	1,123
281-253	ADT (2025)	1,483

## **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**

**018-251 PCN I86E**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	135.0	Ton
332E5000	Grinding Asphalt Concrete	650	SqYd

**044-251 PCN I86F**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	122.0	Ton

**047-251 PCN I86G**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	63.0	Ton

**050-251 PCN I86H**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	123.0	Ton

**050-251 PCN I86J**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	31.0	Ton

**050-251 PCN I86K**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	34.0	Ton

**ESTIMATE OF QUANTITIES (CONTINUED)**

**034-253 PCN I86L**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	259.0	Ton

**050-253 PCN I86M**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	22.0	Ton

**224-253 PCN I86N**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	102.0	Ton

**281-253 PCN I86P**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	156.0	Ton

**SPECIFICATIONS**

Standard Specifications for Roads and Bridges, 10-1-25 Version, Required Provisions, and Special Provisions as included in the Proposal. The Standard Specifications for Roads and Bridges are available for download and viewing at <https://dot.sd.gov/doing-business/contractors/standard-specifications>. The Specifications will apply except that a Construction Schedule is not required.

## **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/doing-business/environmental/about-environmental/>>

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**

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

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 ( $\geq 140$  °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.

The Contractor will not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the SDDOT Environmental Office.

#### **Action Taken/Required:**

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

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website: <https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: < <https://sdleastwanted.sd.gov/maps/default.aspx> >

**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:**

Construction and/or demolition debris may not be disposed of within the Public ROW.

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 Agriculture 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 150 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 will conform to the requirements for Class E, Type 1. The asphalt binder used in the mixture will be PG 58-34, PG 64-22, PG 64-28, PG 64-34 or PG 58-28 Asphalt Binder. All other requirements in the specifications for Asphalt Concrete Composite will apply.

**GRINDING ASPHALT CONCRETE**

The Contractor will be required to grind the on and off ends of the US18 repairs (MRM 333.663 and 333.761). Grinding will be such that no vertical lip of any kind is present on either side of the patch that traffic encounters. To accomplish this, it may be necessary to grind into the existing concrete/asphalt concrete prior to the asphalt patch approximately 10 to 15 feet to achieve the desired smoothness. It is estimated that the grinding will be approximately 50 feet in length plus 10 to 15 feet at each plan specified location. The Engineer will determine the extent of grinding required at each location.

Additional grinding may be required on the repair area upon completion of the work, as directed by the Engineer, to achieve an acceptable smoothness.

Grinding will be accomplished with specially prepared circular diamond blades mounted on a horizontal shaft. Areas that have been ground will not be left smooth or polished but will have a uniform texture equal in roughness to the surrounding unground asphalt concrete. Grinding will be daylighted to the outside edge of the pavement.

The Contractor will establish a positive means for the removal of the grinding residue. Solid residue will be removed from the pavement surfaces before being blown by traffic action or wind. Residue will not be permitted to flow across lanes used by public traffic or into gutters or drainage facilities. Residue will be disposed of in a manner that will prevent residue, whether in solid or slurry form, from entering any waterway in a concentrated state.

Residue may continuously flow on adjacent vegetated roadway slopes or ditches within the right-of-way. A flexible drag hose will be attached to the discharge end of the slurry pipe to minimize splashing of slurry placed on roadway slopes or ditches.

If the Engineer determines that the slurry may enter a waterway or drainage facility, the slurry will be placed in storage tanks and deposited in settling basins, spread over flat vegetated areas, or filtered by other means approved by the Engineer at no additional cost.

Cost for this work will be included in the contract unit price per square yard for Grinding Asphalt Concrete.

**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.

**018-251, 044-251, 047-251, 050-251 (3 SEGMENTS), 034-253, 050-253, 224-253 & 281-253  
AURORA, BRULE, BUFFALO, CHARLES MIX, GREGORY & SANBORN COUNTIES**

**TABLES OF SPOT ASPHALT CONCRETE RESURFACING**

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US18	333.00	0.663	333.00	0.720	Both	29	301	81
US18	333.00	0.761	333.00	0.799	Both	29	201	54
<b>018-251 PCN I86E Total Tons</b>								<b>135</b>

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD44*	274.00	0.480	274.00	0.505	Both	50	132	122
<b>044-251 PCN I86F Total Tons</b>								<b>122</b>

\*Based on 3" depth.

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD47	25.00	0.188	25.00	0.242	Both	24	285	63
<b>047-251 PCN I86G Total Tons</b>								<b>63</b>

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	270.00	0.185	270.00	0.230	Both	24	238	53
SD50	270.00	0.880	270.00	0.940	Both	24	317	70
<b>050-251 PCN I86H Total Tons</b>								<b>123</b>

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	290.00	0.320	290.00	0.352	Both	20	169	31
<b>050-251 PCN I86J Total Tons</b>								<b>31</b>

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	327.00	0.840	327.00	0.854	Both	50	74	34
<b>050-251 PCN I86K Total Tons</b>								<b>34</b>

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	275.00	0.080	275.00	0.127	Both	24	250	56
SD34	275.00	0.710	275.00	0.750	EB	12	210	23
SD34	276.00	0.230	276.00	0.249	EB	12	100	11
SD34	276.00	0.690	276.00	0.711	EB	12	110	12
SD34	279.00	0.180	279.00	0.204	WB	12	125	14
SD34	280.00	0.920	289.00	0.964	EB	12	230	26
SD34	280.00	0.920	280.00	0.939	WB	12	100	11
SD34	281.00	0.840	281.00	0.867	Both	24	140	31
SD34	282.00	0.970	283.00	0.015	Both	24	240	53
SD34	284.00	0.320	284.00	0.339	Both	24	100	22
<b>034-253 PCN I86L Total Tons</b>								<b>259</b>

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	244.00	0.860	244.00	0.879	Both	24	100	22
<b>050-253 PCN I86M Total Tons</b>								<b>22</b>

**018-251, 044-251, 047-251, 050-251 (3 SEGMENTS), 034-253, 050-253, 224-253 & 281-253  
AURORA, BRULE, BUFFALO, CHARLES MIX, GREGORY & SANBORN COUNTIES**

**TABLES OF SPOT ASPHALT CONCRETE RESURFACING (CONTINUED)**

<b>Highway</b>	<b>MRM</b>	<b>DISP</b>	<b>MRM</b>	<b>DISP</b>	<b>Lane</b>	<b>Width</b>	<b>Length</b>	<b>Tons</b>
SD224	292.00	0.550	292.00	0.574	WB	12	125	14
SD224	292.00	0.880	292.00	0.927	WB	12	250	28
SD224	295.00	0.570	295.00	0.598	EB	12	150	17
SD224	295.00	0.680	295.00	0.708	EB	12	150	17
SD224	295.00	0.980	296.00	0.024	WB	12	230	26
<b>224-253 PCN I86N Total Tons</b>								<b>102</b>

<b>Highway</b>	<b>MRM</b>	<b>DISP</b>	<b>MRM</b>	<b>DISP</b>	<b>Lane</b>	<b>Width</b>	<b>Length</b>	<b>Tons</b>
US281	62.00	0.110	62.00	0.137	Both	24	140	31
US281	78.00	0.450	78.00	0.477	Both	24	140	31
US281	79.00	0.380	79.00	0.407	Both	24	140	31
US281	81.00	0.130	81.00	0.156	Both	24	135	30
US281	82.00	0.450	82.00	0.478	Both	24	150	33
<b>281-253 PCN I86P Total Tons</b>								<b>156</b>

Except where otherwise noted, 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.