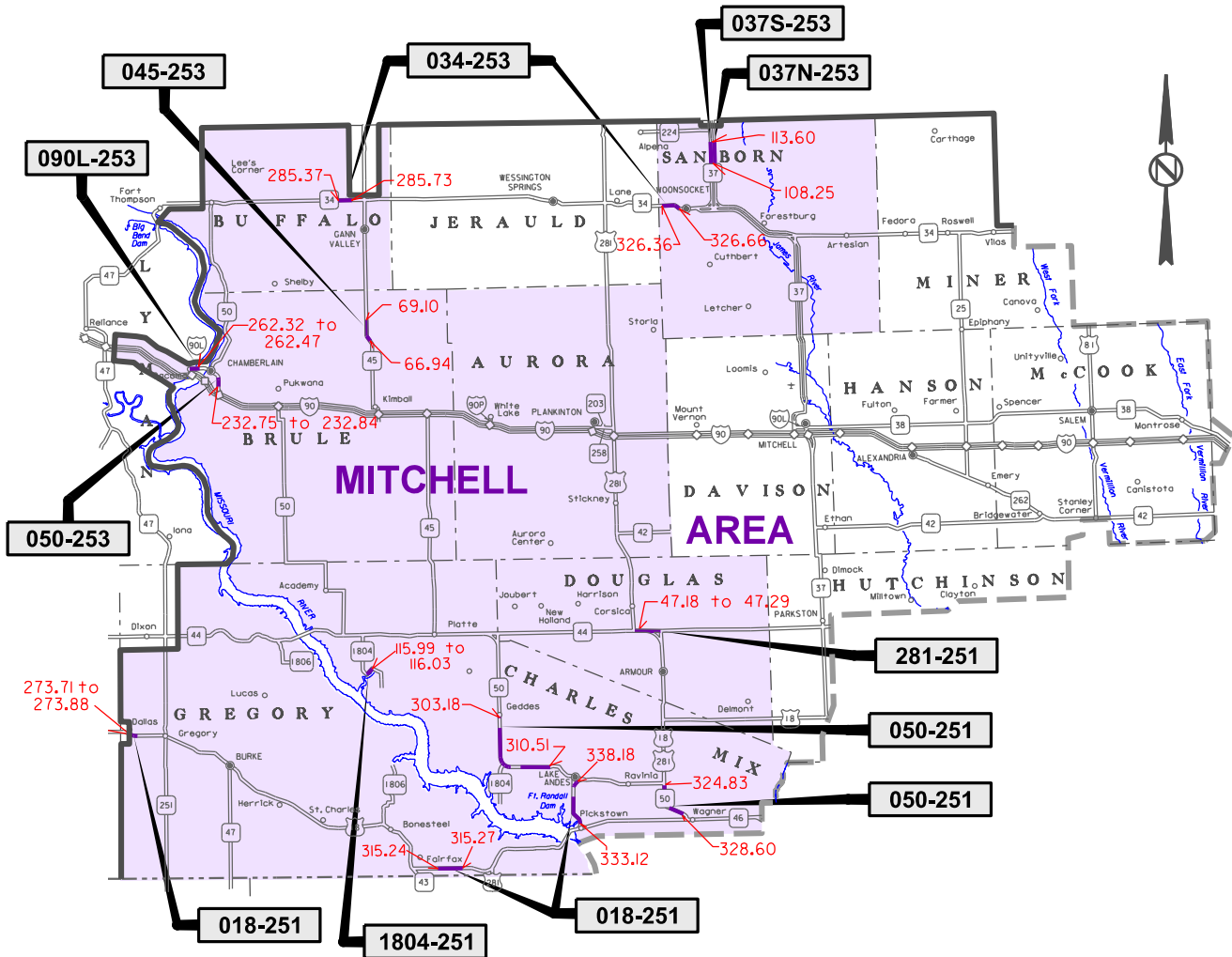


**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED**

**PROJECTS 018-251, 050-251, 1804-251 281-251,
037N-253, 037S-253, 045-253, 090L-253, 050-253 & 034-253
AURORA, BRULE, BUFFALO, CHARLES MIX, DOUGLAS,
GREGORY, LYMAN & SANBORN COUNTIES
SPOT ASPHALT CONCRETE RESURFACING
PCN I5N9, I5NA, I5NC, I5ND, I5NE, I5NF, I5NG, I5NH, I5NJ & I5NK**



018-251 ADT (2018)	1,202
050-251 ADT (2018)	660
1804-251 ADT (2018)	130
281-251 ADT (2018)	1,686
037N-253 ADT (2018)	1,528
037S-253 ADT (2018)	1,528
045-253 ADT (2018)	740
090L-253 (2018)	2,438
050-253 ADT (2018)	4,960
034-253 ADT (2018)	512

STORM WATER PERMIT
(None required)

INDEX OF SHEETS

Sheet 1	Layout Map
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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 I5N9

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	881.0	Ton

050-251 PCN I5NA

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	435.0	Ton

1804-251 PCN I5NC

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	47.0	Ton

281-251 PCN I5ND

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	124.0	Ton

037N-253 PCN I5NE

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

037S-253 PCN I5NF

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	23.0	Ton

018-251, 050-251, 1804-251, 281-251, 037N-253, 037S-253, 045-253, 090L-253, 050-253 & 034-253
 AURORA, BRULE, BUFFALO, CHARLES MIX, DOUGLAS, GREGORY, LYMAN & SANBORN COUNTIES

045-253 PCN I5NG

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	134.0	Ton

090L-253 PCN I5NH

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	66.0	Ton

050-253 PCN I5NJ

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	222.0	Ton

034-253 PCN I5NK

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
320E1200	Asphalt Concrete Composite	116.0	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 Section A 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. 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: <http://www.sddot.com/resources/Manuals/EnvironProcManual.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 Office at 605-773-3098 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

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 waters within South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment to prevent and control the introduction and spread of invasive species into the project vicinity.

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 Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of Aquatic Invasive Species in South Dakota can be accessed at: <http://sdleastwanted.com/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 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 completely 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 of time 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: HISTORICAL PRESERVATION OFFICE CLEARANCES

State Historical 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 of 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.

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.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES (CONTINUED)

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 will immediately cease, and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office 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.

TRAFFIC CONTROL

All 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, 050-251, 1804-251, 281-251, 037N-253, 037S-253, 045-253, 090L-253, 050-253 & 034-253
AURORA, BRULE, BUFFALO, CHARLES MIX, DOUGLAS, GREGORY, LYMAN & SANBORN COUNTIES**

TABLES OF SPOT ASPHALT CONCRETE RESURFACING

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US18	273.00	0.710	273.00	0.880	BOTH	24	900	240
US18	315.00	0.238	315.00	0.256	BOTH	24	95	21
US18	333.00	0.123	333.00	0.150	SB	12	143	16
US18	333.00	0.342	333.00	0.355	SB	12	69	8
US18	333.00	0.620	333.00	0.650	NB	12	158	18
US18	334.00	0.588	334.00	0.640	NB	12	275	30
US18	334.00	0.960	335.00	0.016	BOTH	24	296	66
US18	335.00	0.278	335.00	0.307	NB	12	153	17
US18	335.00	0.362	335.00	0.390	SB	12	148	16
US18	335.00	0.550	335.00	0.600	SB	12	264	29
US18	335.00	0.670	335.00	0.712	NB	12	222	25
US18	335.00	0.695	335.00	0.712	SB	12	90	10
US18	336.00	0.103	336.00	0.136	BOTH	24	174	39
US18	336.00	0.154	336.00	0.198	BOTH	24	232	52
US18	336.00	0.198	336.00	0.222	NB	12	127	14
US18	336.00	0.472	336.00	0.520	SB	12	253	28
US18	336.00	0.600	336.00	0.682	NB	12	433	48
US18	336.00	0.930	336.00	0.986	NB	12	296	33
US18	336.00	0.986	337.00	0.044	Both	24	306	68
US18	337.00	0.367	337.00	0.404	BOTH	24	195	43
US18	337.00	0.916	337.00	0.942	BOTH	24	137	30
US18	338.00	0.060	338.00	0.089	NB	12	153	17
US18	338.00	0.154	338.00	0.176	NB	12	116	13
018-251 Total Tons								881

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	303.00	0.189	303.00	0.217	BOTH	24	148	33
SD50	303.00	0.245	303.00	0.275	BOTH	24	158	35
SD50	304.00	0.934	304.00	0.949	BOTH	24	79	18
SD50	306.00	0.112	306.00	0.145	BOTH	24	174	39
SD50	306.00	0.195	306.00	0.249	BOTH	24	285	63
SD50	308.00	0.868	308.00	0.883	BOTH	24	79	18
SD50	309.00	0.836	309.00	0.860	BOTH	24	127	28
SD50	310.00	0.491	310.00	0.511	BOTH	24	106	23
SD50	324.00	0.829	324.00	0.904	SB	12	396	44
SD50	327.00	0.580	327.00	0.655	BOTH	24	396	88
SD50	328.00	0.561	328.00	0.600	BOTH	24	206	46
050-251 Total Tons								435

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD1804	115.00	0.990	116.00	0.030	Both	24	211	47
1804-251 Total Tons								47

018-251, 050-251, 1804-251, 281-251, 037N-253, 037S-253, 045-253, 090L-253, 050-253 & 034-253
 AURORA, BRULE, BUFFALO, CHARLES MIX, DOUGLAS, GREGORY, LYMAN & SANBORN COUNTIES

TABLES OF SPOT ASPHALT CONCRETE RESURFACING (CONTINUED)

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
US281	47.00	0.184	47.00	0.290	BOTH	24	560	124
281-251 Total Tons								124

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD37	110.00	0.980	110.00	0.994	NB BOTH	24	75	17
SD37	112.00	0.870	112.00	0.884	NB BOTH	24	75	17
037N-253 Total Tons								34

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD37	108.00	0.230	108.00	0.244	SB BOTH	24	75	17
SD37	113.00	0.590	113.00	0.599	SB PASSING	12	50	6
037S-253 Total Tons								23

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD45	66.00	0.940	67.00	0.035	Both	24	500	111
SD45	67.00	0.520	67.00	0.529	NB	12	50	6
SD45	69.00	.060	69.00	0.088	NB	12	150	17
045-253 Total Tons								134

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
090L-253	262.00	0.320	262.00	0.358	BOTH	24	100	22
090L-253	262.00	0.380	262.00	0.399	BOTH	24	100	22
090L-253	262.00	0.470	262.00	0.489	BOTH	24	100	22
090L-253 Total Tons								66

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD50	232.00	0.750	232.00	0.845	ALL 4 LANES	48	500	222
050-253 Total Tons								222

Highway	MRM	DISP	MRM	DISP	Lane	Width	Length	Tons
SD34	285.00	0.370	285.00	0.389	Both	24	100	22
SD34	285.00	0.430	285.00	0.449	Both	24	100	22
SD35	285.00	0.730	285.00	0.749	Both	24	100	22
SD36	326.00	0.361	326.00	0.380	Both	24	100	22
SD37	326.00	0.660	326.00	0.684	Both	24	125	28
034-253 Total Tons								116

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.