

A detailed map of the Sioux Falls Area, South Dakota, and its surrounding regions. The map highlights three specific project locations with callout boxes:

- 000I-271 INTERSTATE 90**
MRM 395.00 to MRM 402.00
- 000I-271 INTERSTATE 29**
MRM 71.00 to MRM 86.00
- 000I-271 INTERSTATE 229**
MRM 0.00 to MRM 11.00

The map shows major highways including Interstate 90, Interstate 29, and Interstate 229. It also displays the locations of Sioux Falls, South Dakota, and the surrounding areas of South Dakota, Minnesota, and Iowa. Key features include the Vermillion River, the East Fork Vermillion River, and the city of Sioux Falls. The map is oriented with North at the top, indicated by a compass rose.

	DESIGN DESIGNATION		
ROUTE	I29	I90	I229
ADT(2025)	47,508	26,117	35,833
ADT(2045)	75,837	41,002	57,510
DHV	8,385	4,767	6,314
D	100%	100%	100%
T DHV	6.6%	6.1%	4.1%
T ADT	14.5%	13.5%	9.0%
V (RURAL)	80 MPH	-	-
V (URBAN)	65 MPH	65 MPH	65 MPH

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INDEX OF SHEETS

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ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
910E1210	Truck with Operator, Street Sweeping	120	Hour

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 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 B4: BALD EAGLE

Bald eagles are known to occur in this area.

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

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.

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.

COMMITMENT C: WATER SOURCE (CONTINUED)

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 (DANR) 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>>

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.

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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 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.

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.

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SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2025 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

SCOPE OF WORK

Contractor will furnish all necessary vehicles, equipment, supervision, labor, material, tools, water, debris disposal and incidentals necessary to complete the work to the satisfaction of the Highway Maintenance Supervisor. Work to be done consists of sweeping on I29, I90 and I229 within the Sioux Falls Area. The locations consist of curbs for bridge approach slabs, bridge deck curb lines, along median barriers, interchange ramps and at adjacent crossroads with curb and gutter, as directed by the Supervisor. The cleaning/sweeping operation will consist of removing all dirt, mud, silt, sand, paper, rocks, cans, glass, dead animal carcasses, tire retreads, vehicle parts and other debris. Unforeseen conditions, such as weather, can bring unusual amounts of debris to bridge sites. Removal of all debris regardless of scope and magnitude is the responsibility of Contractor.

The Contractor will expect to perform a cleaning/sweeping as follows during the terms of this contract.

The first cleaning/sweeping will be conducted during the months of October or November of each year as directed by the Highway Maintenance Supervisor at the following locations only:

I29

Exit 71 County Road 110 Bridge

Exit 73 Bridges & Along Concrete Barrier on Mainline and in front of Larry Truck Stop in NE Quadrant Along County Road 106

Exit 75 Bridges over I229

Mainline Under 57th Street Bridge (MRM 76.19)

Mainline Under 49th Street Bridge (MRM 76.72)

41st Street DDI walls & islands (MRM 77.26)

Mainline Under 41st Street Bridge (MRM 77.26)

Mainline Under 26th Street Bridge (MRM 78.12)

Skunk Creek Bridges North of 26th Street (MRM 78.38)

12th Street Bridges (MRM 79.26)

RR Bridges North of 12th Street (MRM 79.54)

Madison Street Bridges and C&G on ramps underneath (MRM 80.29)

Russell Street Bridge & NB On Ramp & Along Concrete Barrier on Mainline (MRM 81.32)

Benson Road Bridges and C&G underneath (MRM 81.41)

Mainline Under I90 Bridges (MRM 84.14)

I90

Mainline Under Exit 395 (Marion Road)

Exit 396 Bridges over I29

RR Bridges (MRM 397.45)

Big Sioux River Bridges (MRM 397.86)

I90 (CONTINUED)

Silver Creek Bridges (MRM 398.49)

RR Bridges (MRM 398.69)

Exit 399 (Cliff Avenue) Bridges

Exit 400 Bridges Over I229

Mainline Under Exit 402 (Eros) Bridge

I229

Mainline Under I29 (MRM X.XX)

Mainline under Solberg Avenue Bridge (MRM X.XX)

Big Sioux River Bridges South of Western Avenue (MRM 2.08)

Minnesota Avenue Bridges (MRM 3.12)

Cliff Avenue Bridges (MRM 4.16)

Mainline Under 26th Street Bridge (MRM 5.32)

Big Sioux River Bridges North of 26th Street (MRM 5.52)

RR Bridges South of 10th Street (MRM 5.70)

Both sides of Concrete Median Barrier from South of 18th Street to North of 6th Street (MRM 5.88 to 7.12)

Rice Street Bridges (MRM 7.84)

Big Sioux River Bridges North of Rice Street (MRM 8.28)

Benson Road DDI walls & islands (MRM 9.46)

Mainline Under 60th Street Bridge (MRM 10.47)

Mainline Under Exit 10 & MSE Walls (MRM 10.79)

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SCOPE OF WORK (CONTINUED)

Additional sweepings will be directed by the Highway Maintenance Supervisor and will include the following:

All Bridges on mainline I29, I90 & I229 in the Sioux Falls City limits.

All Ramps with Curb & Gutter, Barrier Walls and Median Islands

I29 Exit 73 (Tea) underneath

GENERAL REQUIREMENTS

Contractor will comply with all Federal, State, County and Local regulations, including disposal of debris collected.

The work may be performed during either day time or night time hours except at the locations listed below. No work will occur in these areas during the peak hours defined as 6:30AM-8:30AM and 4:00PM-6:00PM.

- I29: Exit 71 (County Road 110) to Exit 86 (Renner/Crooks)
- I229: Entire route
- I90: Exit 395 (Marion Road) to Exit 402 (Eros)

Equipment and vehicles will not be stored in the highway Right-of-Way.

COMMUNICATION REQUIREMENTS

The Contractor will provide the Supervisor a phone number to be able to contact the onsite Foreman of the crew during working hours. The Highway Maintenance Supervisor (Supervisor) is Chris Peters, Mobile: (605) 906-2030, Office: (605) 367-5680, Email: Chris.Peters@state.sd.us.

TRAFFIC CONTROL

For a 4 lane divided roadway, traffic control will be as per the traffic control details for **MOBILE SWEEPING OPERATIONS ON A DIVIDED 4-LANE ROADWAY** included in these plans.

Vehicles and equipment working in traffic or alongside traffic will be equipped with a flashing amber light visible from all directions at a minimum distance of 1/2 mile. The amber light will be mounted on the uppermost part of the Contractor's vehicle. Lights must flash at 75 ±15 flashes per minute. The sweeper will have lights, meeting the aforementioned requirements, at the front and back of the equipment. Vehicle flasher/hazard lights are not acceptable.

The Contractor's equipment will be required to enter and leave the project only at interchanges. Crossing of the median will not be allowed.

SWEEPING REQUIREMENTS

Sweeping areas will include all curb lines along both sides of the bridge deck and approach slabs, or to the edge of the pavement where no curbs exist, along all curbs on raised medians, and along concrete barriers. Contractor is responsible for sweeping from the marked white or yellow edge line to the edge of bridge deck or approach slab regardless of the width.

Effort beyond a mechanical sweeper may be required to loosen harden and packed material on the surface and along the curb face.

Sweeping will always be accomplished in the same direction as traffic flow.

Contractor will make every reasonable effort to minimize streaks left by sweepers.

At least 2 passes of the sweeper will be made over areas that require sweeping. The total number of passes required will vary based upon the width of sweeping required and the width of the sweeper used.

Sweeping operations will extend at least 50 feet beyond both ends of the approach slab, or end of bridge deck if no approach slab is present. There should be no ridge or pile of material left on the roadway or shoulder surface at the end of the sweeping operations.

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DISPOSAL

All refuse material and debris collected will become the property of the Contractor and will be properly disposed of. Material may be deposited at the Sioux Falls Area DOT complex located at 5316 W. 60th St. North, Sioux Falls, SD 57107

No on-road storage or dumping will be permitted.

EQUIPMENT

All equipment will be adequately maintained mechanically, aesthetically, and will be fully operational during all sweeping operations.

All equipment will be properly registered and insured according to motor vehicles laws of the State of South Dakota.

All units will be clearly and prominently marked with Contractor's company name.

- **SWEEPER**

Minimum width of main broom or pickup head will be 54 inches. Sweeper will utilize both left side and right side brooms for picking up debris. Sweeper will have an internal self-contained storage hopper. Storage hopper will be a minimum capacity of 4 Cubic Yards.

- **SWEEPER BRUSH/BROOM REPLACEMENT**

Worn brushes and brooms will be replaced and adjusted to ensure maximum efficiency:

- Six inches on the main broom,
- Six inches on the gutter brushes,
- As required on trash direction brush.

These will be minimum criteria and final determination will be on the effectiveness of all brushes and brooms.

- **ATTENUATOR**

Truck mounted or trailer attenuators may be utilized, provided attenuators conform to and are maintained in accordance with the requirements of Section 634.2 and Part 6 of the MUTCD for Category III traffic control devices.

DUST CONTROL

Contractor will use all reasonable methods to minimize dust emissions during the performance of this Contract. Contractor will not create dust in such a quantity to create a nuisance, danger, or impair visibility.

Spraying of water during sweeping operations may be required to control dust.

PERFORMANCE

Primary objectives of the cleaning/sweeping program are:

- Remove debris buildup to reduce infiltration of roadway deicers into concrete.
- Prevent debris from enter storm drains and bridge deck drains.
- Prevent debris from entering waterways.
- Maintain gutter flow lines free of debris for free flow of water.
- Maintain a state of cleanliness for safety and acceptable to travelers.

Sweeping will normally consist of a pass (or passes) over an area. Contractor will make as many passes, or such extra effort as may be required to adequately clean the bridge deck and approach slabs. Obstructions such as accumulations of silt, compacted dirt, leaves and similar debris will be removed. Items such as small tree limbs, dead animal carcasses, tire retreads, vehicle parts and rocks may require removal prior to sweeping with a mechanical sweeper.

Sweeping operations will begin within 10 calendar days after notification by the Highway Maintenance Supervisor. Once sweeping operations have begun, all sweeping identified by the Highway Maintenance Supervisor will be completed within ten (10) working days.

Inspections will be performed on a regular basis, as well as spot checks and response to complaints.

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PERFORMANCE (CONTINUED)

The Supervisor will decide adequacy of cleaning/sweeping.

If the results of a cleaning/sweeping are considered unsatisfactory by the Department, the Contractor will re-clean/re-sweep unsatisfactory area(s) at Contractor's expense within 10 days after notification.

SDDOT reserves the right to withhold payment for missed, incomplete, or unsatisfactory sweeping performance.

DEFICIENT PERFORMANCE

Liquidated Damages will be applied to deficient performance and/or late completion.

Repeated instances of failure to perform will result in cancellation of the Contract.

BASIS OF MEASUREMENT AND PAYMENT

Cost for mobilization to and from the site, equipment, material, labor and incidentals to clean/sweep will be incidental to the contract unit price per hour for Truck with Operator, Street Sweeping. Cost for disposal of all refuse material and debris, including dump fees, will be included in the contract unit price per hour for Truck with Operator, Street Sweeping.

Cost for shadow vehicles, traffic control signs, arrow boards, flaggers, impact attenuators, and other safety devices will be incidental to the contract unit price per hour for Truck with Operator, Street Sweeping.

Sweeping may be increased or decreased based on need and available budget.

MOBILE SWEEPING OPERATIONS ON A DIVIDED 4-LANE ROADWAY

* In situations where multiple work locations in a limited distance make it practical to place stationary signs, the distance between the advance warning sign and the work should not exceed 5 miles.

The ROAD WORK NEXT xx MILES sign may be used instead of the ROAD WORK AHEAD sign if the work locations occur over a distance of more than 2 miles.

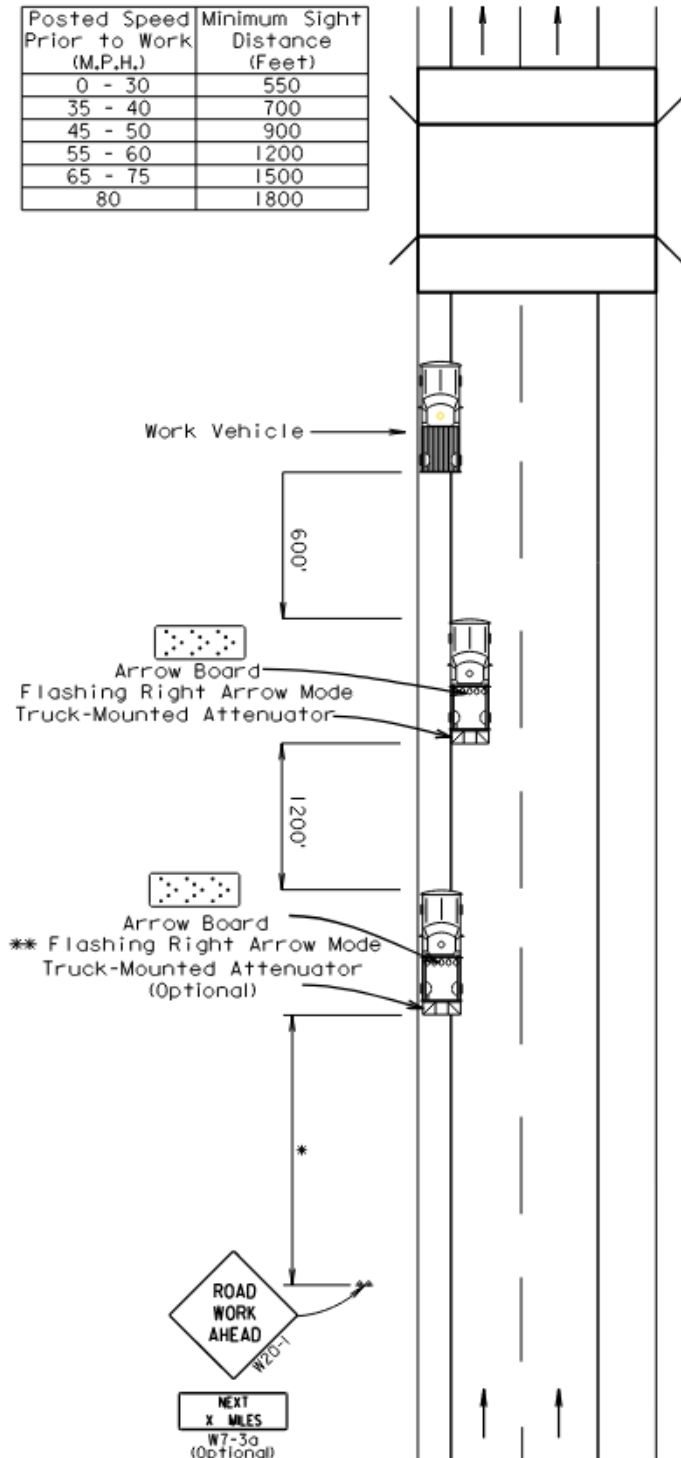
An activated flashing yellow light will be used on all vehicles and equipment.

ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)

Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.

** Or Stand Alone Arrow Board with Traffic Control Devices

Posted Speed Prior to Work (M.P.H.)	Minimum Sight Distance (Feet)
0 - 30	550
35 - 40	700
45 - 50	900
55 - 60	1200
65 - 75	1500
80	1800



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