

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	PT 0907(89)317	A1	A4

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Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	2	Each
009E3225	Reestablish Public Land Survey System Corner	21	Each
009E3230	Grade Staking	2.500	Mile
009E3250	Miscellaneous Staking	1.735	Mile
009E3280	Slope Staking	1.250	Mile
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4200	Construction Schedule, Category II	Lump Sum	LS
110E0600	Remove Fence	5,207	Ft
110E0700	Remove 3 Cable Guardrail	590	Ft
110E0707	Remove High Tension 4 Cable Guardrail	260	Ft
110E0730	Remove Beam Guardrail	287.5	Ft
110E0745	Remove 3 Cable Guardrail Slip Base Anchor Assembly	4	Each
110E1010	Remove Asphalt Concrete Pavement	10,045.7	SqYd
110E1100	Remove Concrete Pavement	19,066.7	SqYd
110E6006	Remove High Tension 4 Cable Guardrail for Reset	227	Ft
110E6016	Remove High Tension 4 Cable Guardrail Anchor Assembly for Reset	3	Each
110E6200	Remove Double Thrie Beam Guardrail for Reset	12.5	Ft
110E6250	Remove Beam Guardrail Trailing End Terminal for Reset	2	Each
110E7510	Remove Pipe End Section for Reset	6	Each
120E0010	Unclassified Excavation	28,341	CuYd
120E0600	Contractor Furnished Borrow Excavation	52,097	CuYd
120E1000	Muck Excavation	476	CuYd
120E6100	Water for Embankment	727.0	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
260E6010	Granular Material	72.0	Ton
421E0100	Pipe Culvert Undercut	39	CuYd
450E0122	18" RCP Class 2, Furnish	82	Ft
450E0130	18" RCP, Install	82	Ft
450E0142	24" RCP Class 2, Furnish	232	Ft
450E0150	24" RCP, Install	232	Ft
450E2304	18" RCP Safety End, Furnish	3	Each
450E2307	18" RCP Safety End, Install	3	Each
450E2308	24" RCP Safety End, Furnish	6	Each
450E2311	24" RCP Safety End, Install	6	Each
450E3052	48" RCP Arch Class 2, Furnish	60	Ft
450E3060	48" RCP Arch, Install	60	Ft
* 450E8900	Cleanout Pipe Culvert	3	Each
450E9001	Reset Pipe End Section	6	Each
462E0100	Class M6 Concrete	3.3	CuYd
464E0100	Controlled Density Fill	11.2	CuYd
480E0100	Reinforcing Steel	386	Lb

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
600E0300	Type III Field Laboratory	1	Each
620E0030	Type 3 Right-of-Way Fence	5,207	Ft
620E0515	Type 1A Temporary Fence	1,900	Ft
620E1020	2 Post Panel	4	Each
620E1030	3 Post Panel	4	Each
629E0110	High Tension 4 Cable Guardrail	725	Ft
629E0211	Reset High Tension 4 Cable Guardrail	227	Ft
629E0290	High Tension Cable Guardrail Anchor Assembly	4	Each
629E0295	Reset High Tension Cable Guardrail Anchor Assembly	3	Each
* 629E1107	Furnish High Tension Cable Guardrail Post	50	Each
630E0010	Straight Class A Thrie Beam Guardrail with Wood Posts	37.5	Ft
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	37.5	Ft
630E0500	Type 1 MGS	75.0	Ft
630E2001	Asymmetrical W Beam to Thrie Beam Guardrail Transition	3	Each
630E2017	MGS MASH Flared End Terminal	1	Each
630E2018	MGS MASH Tangent End Terminal	2	Each
630E5110	Reset Double Thrie Beam Guardrail with Wood Posts	12.5	Ft
630E5210	Reset Beam Guardrail Trailing End Terminal	2	Each
670E4205	Type M Frame and Grate Assembly	2	Each

^{* -} Denotes Non-Participating

Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0110	Traffic Control Signs	1,593.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	4	Each
634E0380	Tubular Marker	82	Each
634E0390	Replace Tubular Marker	10	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0630	Temporary Pavement Marking	5.3	Mile
634E1002	Detour and Restriction Signing	1,431.6	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each

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A1 and A2 Estimate of Quantities for Sections B, C, D, F, M,

A3 to A5 **Environmental Commitments**

Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	1.0	CuYd
110E1693	Remove Erosion Control Wattle	110	Ft
110E1700	Remove Silt Fence	500	Ft
230E0010	Placing Topsoil	7,737	CuYd
730E0100	Cover Crop Seeding	4.0	Bu
730E0212	Type G Permanent Seed Mixture	249	Lb
731E0200	Fertilizing	4.80	Ton
732E0100	Mulching	19.2	Ton
734E0103	Type 3 Erosion Control Blanket	309	SqYd
734E0132	Type 2 Turf Reinforcement Mat	170.0	SqYd
734E0154	12" Diameter Erosion Control Wattle	440	Ft
734E0165	Remove and Reset Erosion Control Wattle	110	Ft
734E0602	Low Flow Silt Fence	1,200	Ft
734E0604	High Flow Silt Fence	800	Ft
734E0610	Mucking Silt Fence	139	CuYd
734E0620	Repair Silt Fence	500	Ft
900E1320	Construction Entrance	1	Each

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Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	1,304.9	SqYd
120E0010	Unclassified Excavation	4,876	CuYd
120E6200	Water for Granular Material	368.9	MGal
120E9000	Pit Run	8,083.1	Ton
260E1010	Base Course	8,721.8	Ton
260E2010	Gravel Cushion	13,926.0	Ton
320E1200	Asphalt Concrete Composite	4,970.5	Ton
320E5010	Saw and Seal Shoulder Joint	4,270	Ft
380E0120	11.5" Nonreinforced PCC Pavement	19,066.6	SqYd
380E0800	PCC Shoulder Pavement	10,266.6	SqYd
380E6000	Dowel Bar	10,512	Each
380E6110	Insert Steel Bar in PCC Pavement	96	Each
450E4749	15" CMP 16 Gauge, Furnish	1,442	Ft
450E4750	15" CMP, Install	1,442	Ft
450E5005	15" CMP Elbow, Furnish	4	Each
450E5006	15" CMP Elbow, Install	4	Each
450E5100	CMP Tee, Furnish	2	Each
450E5101	CMP Tee, Install	2	Each
450E5402	15" CMP Safety End, Furnish	4	Each
450E5403	15" CMP Safety End, Install	4	Each
450E6119	15" Slotted CMP 16 Gauge, Furnish	590	Ft
450E6120	15" Slotted CMP, Install	590	Ft
462E0100	Class M6 Concrete	52.9	CuYd
464E0100	Controlled Density Fill	21.8	CuYd
629E9010	Interim Crossover Closure	784	Ft
831E0210	Non-woven Separator Fabric	12,228	SqYd

Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E3000	Durable Pavement Marking, 4" White	12,012	Ft
633E3005	Durable Pavement Marking, 4" Yellow	9,610	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	21,622	Ft

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E0130	Remove Traffic Sign	1	Each
110E0135	Remove Delineator	16	Each
110E7150	Remove Sign for Reset	5	Each
632E0010	1.25' Diameter Breakaway Support Concrete Footing	16.0	Ft
632E1320	2.0"x2.0" Perforated Tube Post	48.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	57.6	Ft
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	20	Each
632E2100	Reset Delineator	16	Each
632E2220	Guardrail Delineator	15	Each
632E2520	Type 2 Object Marker	4	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	16.5	SqFt
632E3500	Reset Sign	5	Each

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.

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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/3677d319/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 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 (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.

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:

< https://sdleastwanted.sd.gov/maps/default.aspx >

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

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

This project may be in the vicinity of multiple streams and wetlands. These waters are considered waters of the state and are protected under Administrative Rules of South Dakota (ARSD) Chapter 74:51. Special construction measures may have to be taken to ensure that this water body is not impacted.

Action Taken/Required:

The Contractor is advised that the South Dakota Surface Water Quality Standards, administered by the South Dakota Department of Agriculture and Natural Resources (DANR), apply to this project. Special construction measures will be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT D2: SURFACE WATER DISCHARGE

The DANR General Permit for Temporary Discharge is required for temporary dewatering and discharges to waters of the state. The effluent limit for total suspended solids will be 90 mg/L 30-day average. The effluent limit applies to discharges to all waters of the state except discharges to waters classified as cold water permanent fish life propagation waters according to the ARSD 74:51:01:45. For discharges to waters of the state classified as cold water permanent fish life propagation waters, the effluent limit for total suspended solids will be 53 mg/L daily maximum.

The permittee has the option of completing effluent testing or implementing a pollution prevention plan for compliance with this permit. If the permittee develops a pollution prevention plan instead of total suspended solids sampling, the plan must be developed and implemented prior to discontinuing total suspended solids sampling. Refer to Section 4.0 of the permit. If any pollutants are suspected of being discharged, a sample must be taken for those parameters listed in Section 3.4 of the permit.

Refer to Commitment D1: Surface Water Quality for stream classification.

Action Taken/Required:

If construction dewatering is required and this project is not required to be covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the Contractor will obtain the General Permit for Temporary Discharge Activities from the DANR Surface Water Program, 605-773-3351.

https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR TemporaryDischargeNOI2018Fillable.pdf >

If construction dewatering is required and this project is currently covered under a General Permit for Stormwater Discharges Associated with Construction Activities, the contractor will need to submit the dewatering information to the SDDANR using the following form:

The Contractor will provide a copy of the approved permit or the submitted dewatering information to the Project Engineer prior to proceeding with any dewatering activities. The approved permit or submitted dewatering information must be kept on-site and as part of the project records.

Effluent monitoring, as a result of dewatering activities, will be summarized for each month and recorded on a separate Discharge Monitoring Report (DMR) and submitted to DANR monthly. Additional information can be found at:

https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/swdpermitting/Ereporting.aspx >

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work in a waterway.

COMMITMENT E: STORM WATER

Discharges to Waters of the State."

Action Taken/Required:

The DANR General Permit for Stormwater Discharges Associated with Construction Activities is required for construction activity disturbing one or more acres of earth and work in a waterway. The SDDOT is the owner of this permit and will submit the NOI to DANR 15 days prior to project start in order

Construction activities constitute 1 acre or more of earth disturbance and/or

to obtain coverage under the General Permit. Work can begin once the DANR letter of approval is received.

The Contractor will complete the DANR Contractor Certification Form prior to the pre-construction meeting. The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the permit for this project. Work may not begin on this project until this form is

The Contractor must adhere to the "Special Provision Regarding Storm Water

The form can be found at:

signed and submitted to DANR.

https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR CGPA ppendixCCA2018Fillable.pdf >

The Contractor is advised that permit coverage may also be required for offsite activities, such as borrow and staging areas, which are the responsibility of the Contractor.

Storm Water Pollution Prevention Plan

The Storm Water Pollution Prevention Plan (SWPPP) will be developed prior to the submittal of the NOI and will be implemented for all construction activities for compliance with the permit. The SWPPP must be kept on-site and updated as site conditions change. Erosion control measures and best management practices will be implemented in accordance with the SWPPP.

The DOT 298 Form will be used for site inspections and to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents and retained for a minimum of three years.

The inspection will include disturbed areas of the construction site that have not been finally stabilized, areas used for storage materials, structural control measures, and locations where vehicles enter or exit the site. These areas will be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the SWPPP will be observed to ensure that they are operating correctly, and sediment is not tracked off the site.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT: < https://dot.sd.gov/doing-business/environmental/stormwater >

DANR:<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/default.aspx >

EPA: < https://www.epa.gov/npdes >

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.

All costs 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

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans 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 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.

SHPO review does not relieve the Contractor of the responsibility 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.