

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	1	75

Plotting Date: 07/22/2015

INDEX OF SECTIONS

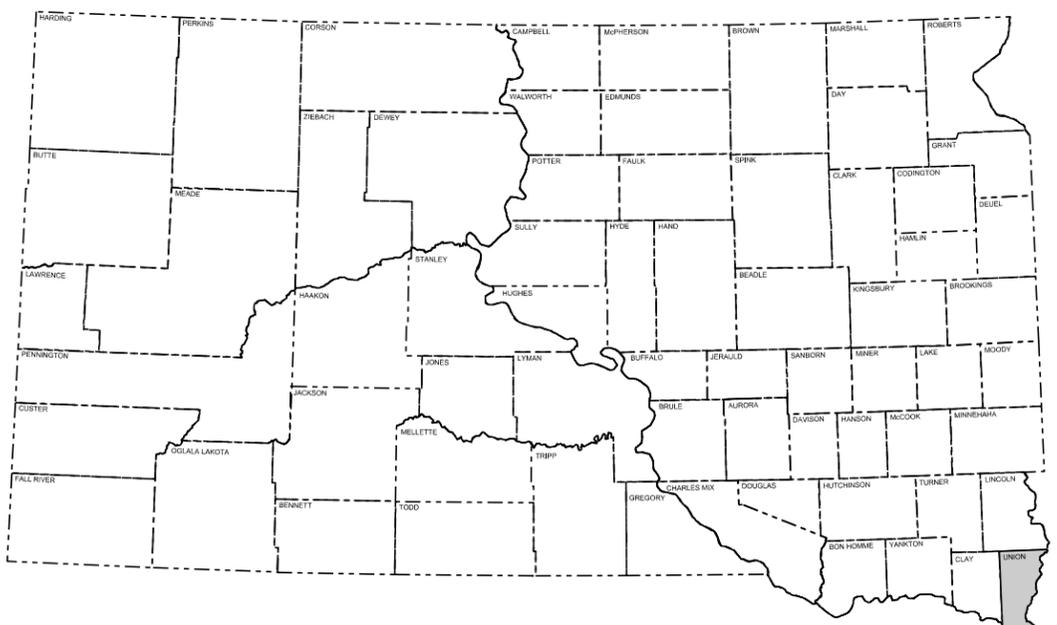
- Section A: Estimate of Quantities and Environmental Commitments
- Section B: Grading Plans
- Section C: Traffic Control Plans
- Section D: Erosion and Sediment Control Plans
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- Section M: Pavement Marking Plans
- Section S: Permanent Signing Plans

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

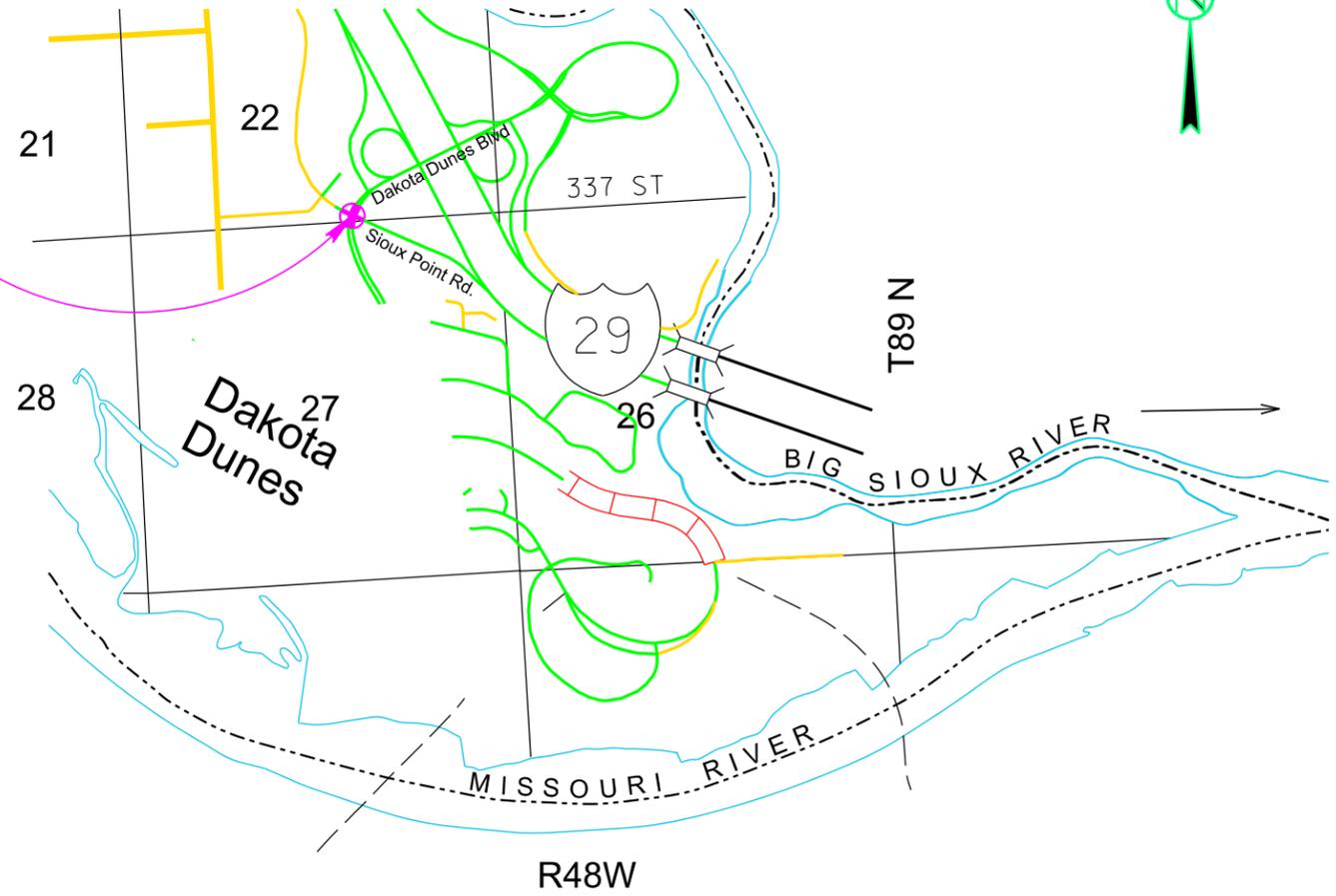
**PROJECT IM 0291(126)1
INTERSTATE 29
UNION COUNTY**

CURB RAMP UPGRADES, PCC PAVEMENT, SIGNALS,
& ROW PLANS
PCN 03RK



PROJECT

IM 0291(126)1
At the intersection
of Dakota Dunes Blvd.
and the on - ramp to
Southbound I29
in Dakota Dunes,
Union County, SD



DESIGN DESIGNATION

ADT (2013)	9000
ADT (2038)	12600
DHV	1375
D	50%
T DHV	1.5%
T ADT	3.4%
V	35 mph

STORM WATER PERMIT
NONE REQUIRED

Plot Scale - 1:200

Plotted From - trpr17192

File - U:\trproj\unim03RK\title.dgn

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	A1	A2

Plotting Date: 08/13/2015

Grading – Section B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	28	Ft
110E1100	Remove Concrete Pavement	12.8	SqYd
110E1140	Remove Concrete Sidewalk	15.0	SqYd
650E0090	Type B69 Concrete Curb and Gutter	27	Ft
650E0390	Type BL69 Concrete Curb and Gutter	68	Ft
651E0050	5" Concrete Sidewalk	726	SqFt
651E7000	Type 1 Detectable Warnings	48	SqFt

Traffic Control – Section C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	40.0	Hour
634E0110	Traffic Control Signs	303	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0280	Type 3 Barricade, 8' Single Sided	1	Each
634E0285	Type 3 Barricade, 8' Double Sided	7	Each
634E0330	Temporary Raised Pavement Markers	1,600	Ft
634E0400	Type A Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	400	Ft
634E0565	Remove Pavement Marking, Arrow	2	Each

Erosion and Sediment Control – Section D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
734E0010	Erosion Control	Lump Sum	LS

Surfacing – Section F

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
380E5030	Nonreinforced PCC Pavement Repair	142.6	SqYd
380E6000	Dowel Bar	63	Each
380E6110	Insert Steel Bar in PCC Pavement	181	Each
390E0200	Repair Type A Spall	82.0	SqFt

Signal and Lighting – Section L

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1540	Remove Luminaire Pole Footing	2	Each
110E5100	Salvage Luminaire Pole	2	Each
635E2150	Signal Pole with 50' Mast Arm and Luminaire Arm	2	Each
635E2165	Signal Pole with 65' Mast Arm and Luminaire Arm	2	Each
635E3340	Roadway Luminaire, 400 Watt with Photoelectric Cell	4	Each
635E4030	3 Section Vehicle Signal Head	10	Each
635E4050	5 Section Vehicle Signal Head	1	Each
635E4080	3 Section Directional Vehicle Signal Head	4	Each
635E4090	4 Section Directional Vehicle Signal Head	4	Each
635E5030	3' Diameter Footing	50.0	Ft
635E5302	Type 2 Electrical Junction Box	9	Each
635E5303	Type 3 Electrical Junction Box	1	Each
635E5405	Electrical Service Cabinet with Secondary Disconnect	1	Each
635E5430	Traffic Signal Controller	1	Each
635E5440	Master Controller	1	Each
635E5470	Wireless Interconnect System	1	Each
635E5515	Signal Head Battery Backup and Flash System	1	Each
635E5540	Sawed-In Detector Loop	30	Each
635E5550	Detector Unit	10	Each
635E5560	Emergency Vehicle Preemption Unit	1	Each
635E5570	Optical Detector	4	Each
635E5900	Pedestrian Push Button	4	Each
635E5910	Pedestrian Push Button Pole	4	Each
635E5922	Pedestrian Signal Head with Countdown Timer	4	Each
635E5930	Pedestrian Crossing Sign	4	Each
635E8120	2" Rigid Conduit, Schedule 40	340	Ft
635E8130	3" Rigid Conduit, Schedule 40	740	Ft
635E8150	5" Rigid Conduit, Schedule 40	20	Ft
635E8240	4" Rigid Conduit, Schedule 80	430	Ft
635E9013	1/C #3 AWG Copper Wire	2,355	Ft
635E9016	1/C #6 AWG Copper Wire	3,960	Ft
635E9504	4/C #14 AWG Copper Tray Cable, K2	2,010	Ft
635E9505	5/C #14 AWG Copper Tray Cable, K2	195	Ft
635E9507	7/C #14 AWG Copper Tray Cable, K2	205	Ft
635E9524	24/C #14 AWG Copper Tray Cable, K2	815	Ft
635E9600	#16 AWG Copper Twisted Shielded Pair	2,225	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	260	Ft
635E9800	Preemption Cable	2,205	Ft
900E2024	Miscellaneous Work, Electrical	Lump Sum	LS

INDEX OF SHEETS

A1	Estimate of Quantities for Sections B, C, D, F, L, M, and S
A2	Environmental Commitments

Pavement Marking – Section M

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	2,880	Ft
633E0020	Cold Applied Plastic Pavement Marking, 8"	860	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	525	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	15	Each
633E0050	Cold Applied Plastic Pavement Marking, Message	4	Word
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	2,880	Ft
633E5005	Grooving for Cold Applied Plastic Pavement Marking, 8"	860	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	525	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	15	Each
633E5035	Grooving for Cold Applied Plastic Pavement Marking, Message	4	Word
634E0560	Remove Pavement Marking, 4" or Equivalent	2,950	Ft
634E0565	Remove Pavement Marking, Arrow	12	Each
634E0570	Remove Pavement Marking, Message	12	Word

Permanent Signing – Section S

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0100	Remove Concrete Footing(s)	Lump Sum	LS
110E5020	Salvage Traffic Sign	9	Each
110E7152	Remove Delineator for Reset	2	Each
632E0010	1.25' Diameter Breakaway Support Concrete Footing	8.0	Ft
632E1320	2.0"x2.0" Perforated Tube Post	19.0	Ft
632E1340	2.5"x2.5" Perforated Tube Post	9.7	Ft
632E1410	3" Diameter Steel Post, .216" Shell	10.2	Ft
632E2100	Reset Delineator	2	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	30.8	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	61.0	SqFt

SPECIFICATIONS

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

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	IM 0291(126)1	A2	A2

Plotting Date: 07/01/2015

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived 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. The environmental commitments associated with this project are as follows:

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 shall 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 State or City ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway 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) shall 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 Project Engineer.

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

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of 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 shall 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) shall be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical Preservation Office (SHPO or THPO) for all work included within the project limits and all designated option borrow sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require review of cultural resources impacts. This work includes, but is not limited to: staging areas, borrow sites, waste disposal sites, and all material processing sites.

The Contractor shall arrange and pay for a cultural resource survey and/or records search. 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; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on 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 shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). 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.

If evidence for cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands, threatened and endangered species, or waterways. The Contractor shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.