

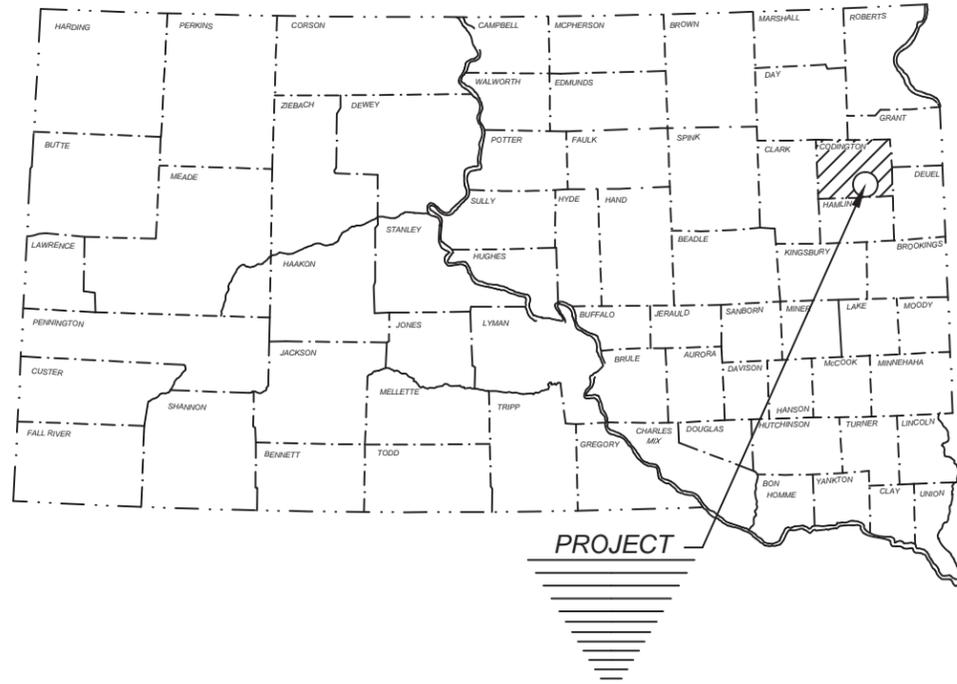
FOR BIDDING PURPOSES ONLY

State of SD	PROJECT	Sheet No.	Total Sheets
	P 4300(08)	1	181

Plot Date - 1-27-14

INDEX OF SECTIONS

- Section A: Estimate of Quantities
- Section B: Grading Plans
- Section C: Traffic Control
- Section D: Erosion Control
- Section F: Surfacing Plans
- Section X: Cross Sections



STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED
PROJECT P 4300(08)
3RD AVENUE NORTHWEST
CITY OF WATERTOWN, SOUTH DAKOTA

GRADING, STORM SEWER, CURB & GUTTER,
 ASPHALT CONCRETE SURFACING, AND SIDEWALK
 PCN 03CF

STORM WATER PERMIT DATA

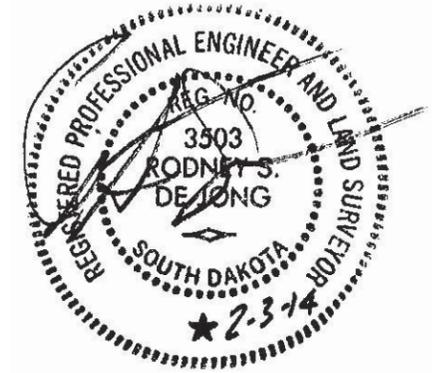
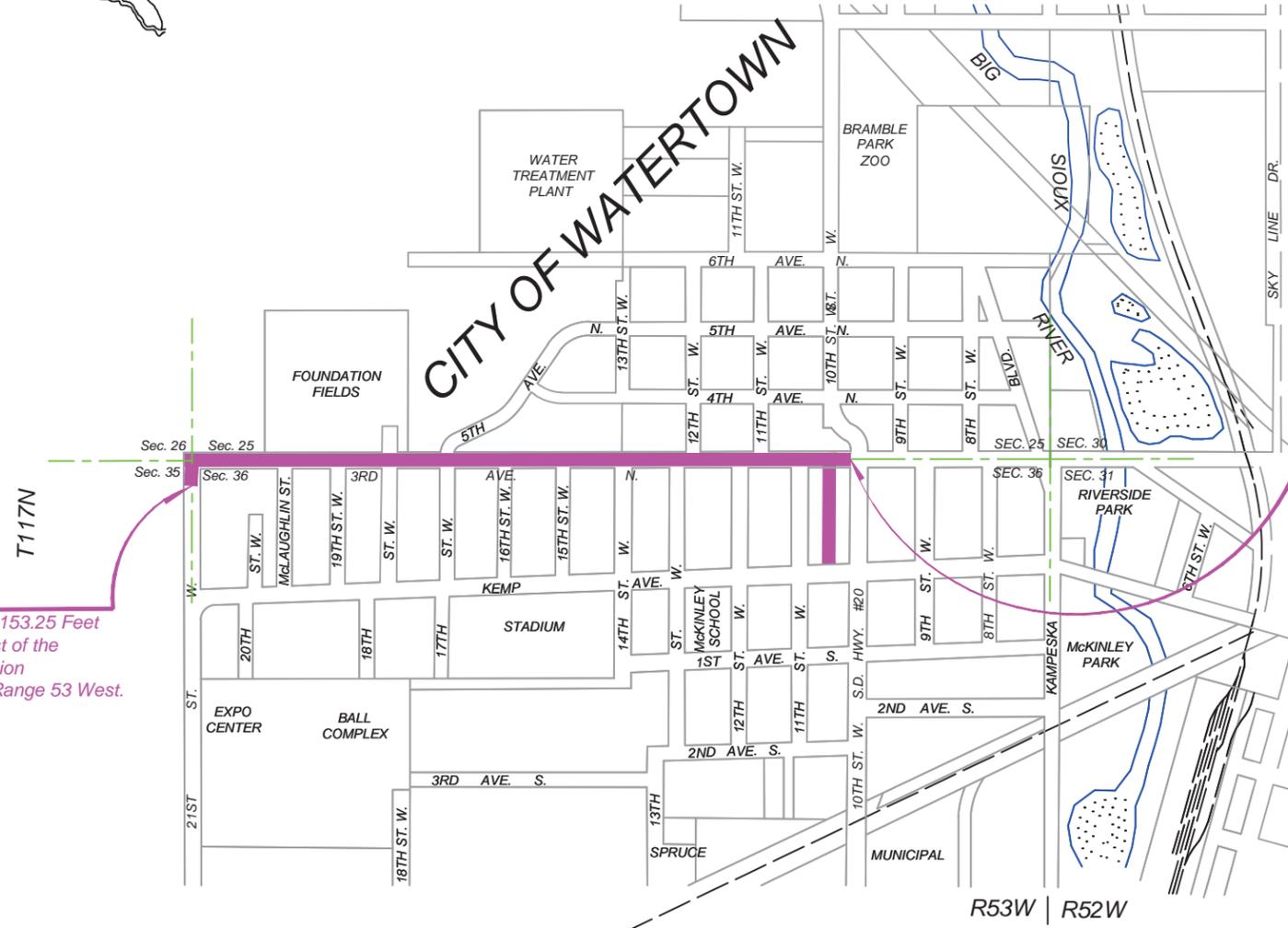
Major Receiving Body of Water: Big Sioux River
 Area Disturbed: 7.2 Acres
 Project Area: 9.5 Acres
 Approx. Begin Lat/Long: 44.9043, -97.1474

DESIGN DESIGNATION

ADT (2012)	2,250
ADT (2032)	2,975
DHV	320
D	50%
T (DHV)	1.5%
T*ADT	3.2%
V	30 mph

BEGIN P 4300(08)
 Station 0+10.00 - a point 153.25 Feet
 South and 2.97 Feet West of the
 Northwest Corner of Section
 36-Township 117 North-Range 53 West.

END P 4300(08)
 Station 42+76.92 - a point 32.14 Feet
 West and 1.31 Feet North of the
 Intersection of Third Avenue North and
 Tenth Street West (SD Highway 20).



Prepared By
 AASON ENGINEERING COMPANY, INC.

1022 SIXTH STREET S.E.
 WATERTOWN, SD
 Telephone 605-882-2371

SCALES

PLAN 1 INCH = 40 FEET & 50 FEET

PROFILE HORIZONTAL 1 INCH = 40 FEET
 VERTICAL 1 INCH = 5 FEET

CROSS SECTIONS HORIZONTAL 1 INCH = 10 FEET
 VERTICAL 1 INCH = 5 FEET

Gross Length	4266.92 Feet	0.808 Miles
Length of Exception	0.00 Feet	0.000 Miles
Net Length	4266.92 Feet	0.808 Miles

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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Grading – Section B

Grading – Section B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	0.974	Mile
009E3250	Miscellaneous Staking	0.974	Mile
009E3280	Slope Staking	0.974	Mile
009E3300	Three Man Survey Crew	40	Hour
100E0020	Clear and Grub Tree	36	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1668	Ft
110E0320	Remove Concrete Gutter	575	Ft
110E0400	Remove Drop Inlet	15	Each
110E0460	Remove Manhole	4	Each
110E1100	Remove Concrete Pavement	351.0	SqYd
110E1110	Remove Concrete Approach Pavement	1659.5	SqYd
110E1140	Remove Concrete Sidewalk	190.7	SqYd
110E5810	Salvage Chain Link Fence	94	Ft
110E7700	Remove Drop Inlet Frame and Grate Assembly for Reset	3	Each
120E0010	Unclassified Excavation	18233	CuYd
120E0600	Contractor Furnished Borrow	3418	CuYd
120E2000	Undercutting	6738	CuYd
120E6100	Water for Embankment	182	Mgal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	13772	Ton
380E3520	6" PCC Approach Pavement	1227.9	SqYd
380E3540	8" PCC Approach Pavement	190.9	SqYd
380E4010	6" PCC Fillet Section	368.6	SqYd
380E4080	9.5" PCC Fillet Section	2.7	SqYd
450E0122	18" RCP Class 2, Furnish	1360	Ft
450E0130	18" RCP, Install	1360	Ft
450E0142	24" RCP Class 2, Furnish	554	Ft
450E0150	24" RCP, Install	554	Ft
450E0162	30" RCP Class 2, Furnish	678	Ft
450E0170	30" RCP, Install	678	Ft
450E0182	36" RCP Class 2, Furnish	18	Ft
450E0190	36" RCP, Install	18	Ft
450E0192	42" RCP Class 2, Furnish	60	Ft
450E0200	42" RCP, Install	60	Ft
450E2008	18" RCP Flared End, Furnish	4	Each
450E2009	18" RCP Flared End, Install	4	Each
450E2028	36" RCP Flared End, Furnish	1	Each
450E2029	36" RCP Flared End, Install	1	Each
450E2304	18" RCP Safety End, Furnish	2	Each
450E2307	18" RCP Safety End, Install	2	Each
450E3002	18" RCP Arch Class 2, Furnish	374	Ft
450E3010	18" RCP Arch, Install	374	Ft
450E3022	30" RCP Arch Class 2, Furnish	944	Ft
450E3030	30" RCP Arch, Install	944	Ft
450E3042	42" RCP Arch Class 2, Furnish	92	Ft
450E3050	42" RCP Arch, Install	92	Ft
450E3052	48" RCP Arch Class 2, Furnish	472	Ft
450E3060	48" RCP Arch, Install	472	Ft
451E6080	Adjust Water Valve Box	32	Each
*451E6102	Water Main Lowering	1	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
462E0100	Class M6 Concrete	115.4	CuYd
480E0100	Reinforcing Steel	18620	Lb
650E0060	Type B66 Concrete Curb and Gutter	6558	Ft
650E0095	Type B69.5 Concrete Curb and Gutter	30	Ft
650E4660	Type P6 Concrete Gutter	1003	Ft
650E6060	6" Concrete Valley Gutter	452	Ft
651E0040	4" Concrete Sidewalk	42956	SqFt
651E7000	Type 1 Detectable Warnings	410	SqFt
670E1200	Type B Frame and Grate Assembly	42	Each
670E2200	Type C Frame and Grate	3	Each
670E3300	Type E Frame and Grate	3	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	1	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	5	Each
670E6000	Adjust Drop Inlet	1	Each
670E7000	Reset Drop Inlet Frame and Grate Assembly	3	Each
* 671E1131	48" Manhole 6' to 8' Deep	4	Each
671E6007	Type A7 Manhole Frame and Lid	3	Each
* 671E6007	Type A7 Manhole Frame and Lid	4	Each
671E7010	Adjust Manhole	11	Each
720E1015	Bank and Channel Gabions	6.0	CuYd
900E0010	Refurbish Single Mailbox	33	Each
*	Non- Participating		

INDEX OF SHEETS	
A1 and A2	Estimate of Quantities for Sections B,C,D, F, L, and M
A3 to A4	Environmental Commitments

Surfacing – Section F

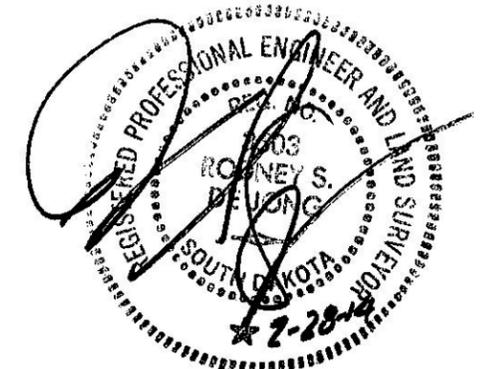
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E6200	Water for Granular Material	185.8	MGal
260E1010	Base Course	2078.9	Ton
260E1030	Base Course, Salvaged	13372.0	Ton
320E0007	PG 64-28 Asphalt Binder	281.5	Ton
320E1050	Class E Asphalt Concrete	4695.2	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	7.4	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	3.4	Ton
330E2000	Sand for Flush Seal	66.2	Ton
380E0010	6" Nonreinforced PCC Pavement	1027.9	SY
380E0080	9.5" Nonreinforced PCC Pavement	127.7	SY
380E1000	6" Miscellaneous PCC Pavement	147.1	SY
380E6000	Dowel Bar	908	Each
380E6110	Insert Steel Bar in PCC Pavement	37	Each

Traffic Control – Section C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
260E1030	Base Course, Salvaged	400.0	Ton
632E3600	Temporary Signing	24.5	SqFt
634E0010	Flagging	40	Hour
634E0100	Traffic Control	2498	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E2000	Longitudinal Pedestrian Barricade	600	Ft
634E2025	Longitudinal Pedestrian Channelizer	250	Ft

Erosion and Sediment Control – Section D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	14	CuYd
230E0010	Placing Topsoil	1101	CuYd
730E0206	Type D Permanent Seed Mixture	519	Lb
731E0100	Fertilizing	2518	Lb
732E0550	Fiber Reinforced Matrix	5025	Lb
734E0154	12" Diameter Erosion Control Wattle	60	Ft
734E0160	20" Diameter Erosion Control Wattle	100	Ft
734E0165	Remove and Reset Erosion Control Wattle	40	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	51	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	52	Ft
734E0855	Interim Sediment Control at Inlet	57	Each
900E1320	Construction Entrance	1	Each



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Signal and Lighting – Section L

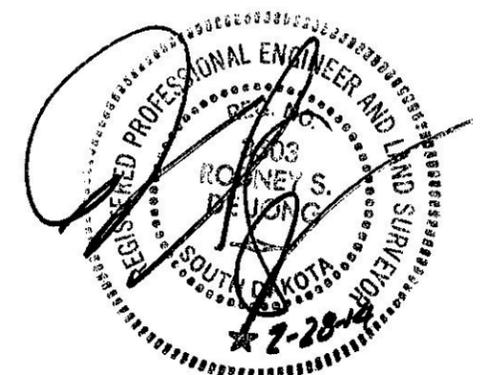
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E5530	Preformed Detector Loop	4	Each

Pavement Marking – Section M

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4" (White 60', Yellow 120')	180	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24" (White 118')	118	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow (Left 1)	1	Each
633E0045	Cold Applied Plastic Pavement Marking, Combination Arrow	1	Each
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	180	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	118	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	1	Each
633E5030	Grooving for Cold Applied Plastic Pavement Marking, Combination Arrow	1	Each

SPECIFICATIONS

Standard Specifications for Roads & Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.



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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 1 acre or more of earth disturbance.

Action Taken/Required:

The DENR and the US Environmental Protection Agency (EPA) have issued separate general permits for the discharge of storm water runoff. The DENR permit applies to discharges on state land and the EPA permit applies to discharges on federal or reservation land. The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior to project start by the DOT Environmental Office. A letter must be received from DENR that acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

The Contractor shall adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State".

A major component of the storm water construction permits is development and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which is a joint effort and responsibility of the SDDOT and the Contractor. Erosion control measures and best management practices will be implemented in accordance with the SWPPP. The SWPPP is a dynamic document and is to be available on-site at all times.

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

SDDOT:
<http://sddot.com/transportation/highways/environmental/stormwater/Default.aspx>

DENR: <http://www.denr.sd.gov/des/sw/stormwater.aspx>

EPA: http://cfpub.epa.gov/npdes/home.cfm?program_id=6

Contractor Certification Form:

The "Department of Environmental and Natural Resources – Contractor Certification Form" (SD EForm – 2110LDV1-ContractorCertification.pdf) shall be completed by the Contractor or their certified Erosion Control Supervisor after the award of the contract. Work may not begin on the project until this form is signed.

The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the Surface Water Discharge General Permit for Storm Water Discharges Associated with Construction Activities for the Project.

The online form can be found at:

<http://denr.sd.gov/des/sw/eforms/E2110LDV1-ContractorCertification.pdf>

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 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.



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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.

COMMITMENT M: SECTION 4(f)/6(f) RESOURCES

COMMITMENT M1: SECTION 4(f) PROPERTY

A Section 4(f) Evaluation has concluded that no feasible and prudent alternative to the use of Section 4(f) land occurs with the project.

Station	Section 4(f) Property
5+06 to 14+70 -L	Foundation Fields

Action Taken/Required:

The following measures are required to minimize harm to the above Section 4(f) property: Minimize work limits to avoid trees and limit work area.

The Contractor shall notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer shall obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.

