

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PT 0908(105)349	1	247

Plotting Date: 08/13/2024 Rev. 09-06-2023 JWF

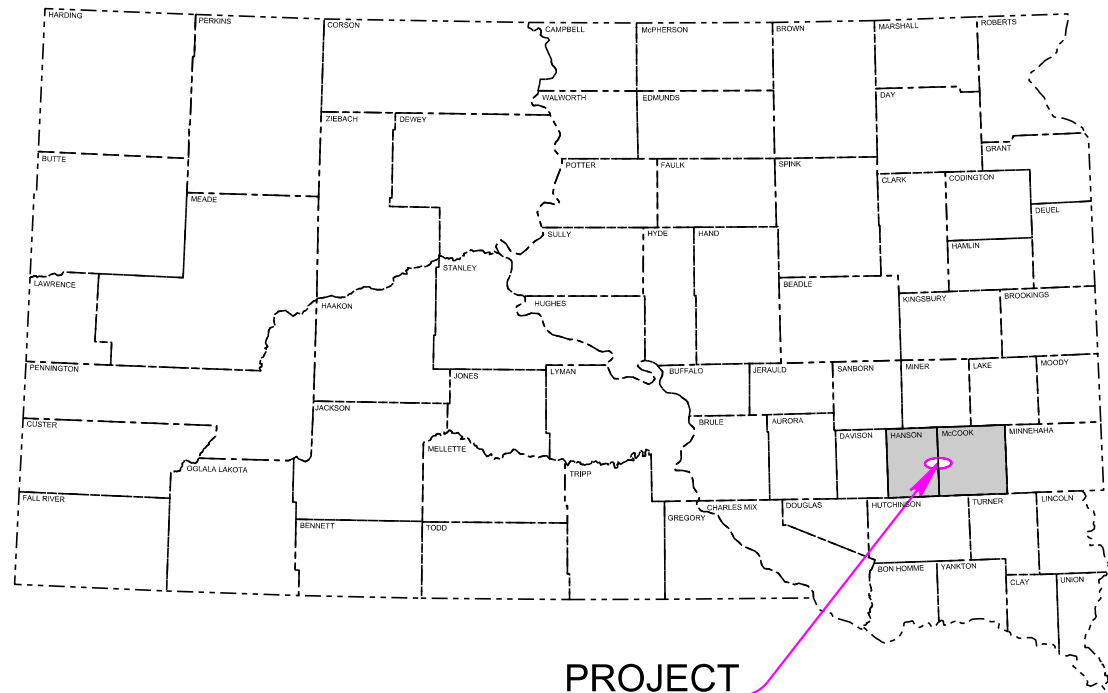
PROJECT PT 0908(105)349
INTERSTATE 90
HANSON & McCOOK COUNTIES

SPOT GRADING, CONTINUALLY REINFORCED PCC PAVEMENT,
CROSSOVER, MODIFY DRAINAGE, & ROW PLANS

PCN 07W6

INDEX OF SECTIONS

- Section A: Estimate of Quantities and Environmental Commitments
- Section B: Grading Plans
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- Section D: Erosion and Sediment Control Plans
- Section E: Structure Plans
- Section F: Surfacing Plans
- Section M: Pavement Marking Plans
- Section S: Permanent Signing Plans
- Section X: Cross Sections
- Section Z: Pipe Sections



PROJECT

BEGIN PT 0908(105)349

BEGIN DRAINAGE MODIFICATIONS

Station 36+12.00 = Station 765+83.56
on I-90-8(15)347 located 200.12 feet South and
579.58 feet East of the Interior 1/4 corner of
Section 4 - Township 102 North - Range 57 West
of the 5th P.M.
MRM 349.00+0.673

END PT 0908(105)349

END GRADING

Station 570+00.00 = Station 355+17.75
on I-90-8(16)356 located 462.95 feet South and
1068.43 feet West of the East 1/4 corner of
Section 6 - Township 102 North - Range 55 West
of the 5th P.M.
MRM 359.00+0.801

Construct Crossover

Station 434+55

Temporary Guardrail

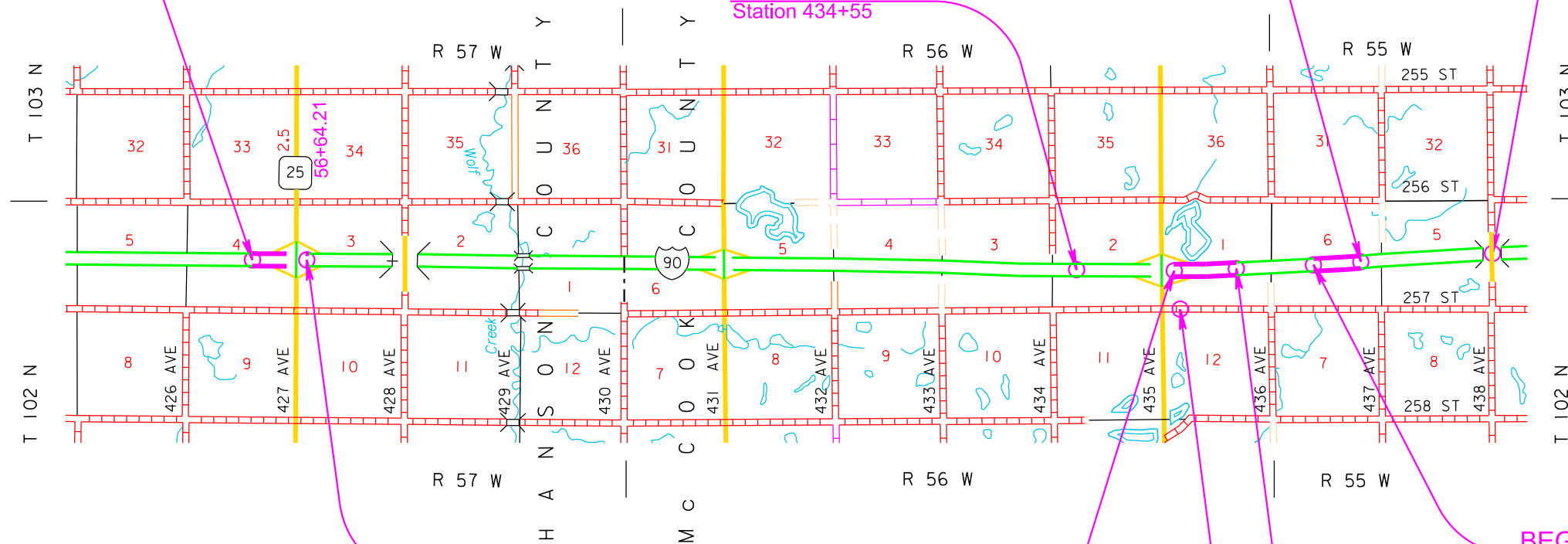
Station 633+60

DESIGN DESIGNATION

AAADT (2023)	12740
AAADT (2048)	20842
DHV	2856
DHV T%	10.1%
AAADT T%	22.1%
V	80 mph

STORM WATER PERMIT

Major Receiving Body of Water: Tributaries to James River
Area Disturbed: 33 acres
Total Project Area: 46 acres
Approx. Begin Lat,Long: 43.6656, -97.6741



END DRAINAGE MODIFICATIONS

Station 58+00.00

BEGIN GRADING

Station 479+55.00

END GRADING

Station 507+30.00

BEGIN GRADING

Station 548+45.00

Gross Length	6918.00 Feet	1.310 Miles
Length of Exceptions	0 Feet	0 Miles
Net Length	6918.00 Feet	1.310 Miles

Replace Culvert

Station 1+81.00



7

November 6, 2024

Plot Scale - 1:200

Plotted From - TRPR14435

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PT 0908(105)349	A1	A5
Plotting Date:		08/21/2024	08-12-2024-JRF

Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	92	Each
009E3230	Grade Staking	4.958	Mile
009E3245	Final Cross Section Survey	2.663	Mile
009E3250	Miscellaneous Staking	2.663	Mile
009E3280	Slope Staking	2.266	Mile
009E3290	Structure Staking	3	Each
009E3301	Engineer Directed Surveying/Staking	10.0	Hour
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	11,606	Ft
110E0707	Remove High Tension 4 Cable Guardrail	840	Ft
110E0730	Remove Beam Guardrail	466.0	Ft
110E1010	Remove Asphalt Concrete Pavement	16,261.8	SqYd
110E1100	Remove Concrete Pavement	32,690.3	SqYd
110E6016	Remove High Tension 4 Cable Guardrail Anchor Assembly for Reset	4	Each
110E6250	Remove Beam Guardrail Trailing End Terminal for Reset	2	Each
120E0010	Unclassified Excavation	86,136	CuYd
120E0600	Contractor Furnished Borrow	72,011	CuYd
120E1000	Muck Excavation	12,074	CuYd
120E2000	Undercutting	36,927	CuYd
120E6100	Water for Embankment	1,375.3	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
421E0100	Pipe Culvert Undercut	85	CuYd
450E0122	18" RCP Class 2, Furnish	520	Ft
450E0130	18" RCP, Install	520	Ft
450E0142	24" RCP Class 2, Furnish	298	Ft
450E0150	24" RCP, Install	298	Ft
450E0182	36" RCP Class 2, Furnish	184	Ft
450E0190	36" RCP, Install	184	Ft
450E0192	42" RCP Class 2, Furnish	76	Ft
450E0200	42" RCP, Install	76	Ft
450E0416	24" RCP Bend, Furnish	4	Each
450E0417	24" RCP Bend, Install	4	Each
450E2028	36" RCP Flared End, Furnish	2	Each
450E2029	36" RCP Flared End, Install	2	Each
450E2032	42" RCP Flared End, Furnish	2	Each
450E2033	42" RCP Flared End, Install	2	Each
450E2200	24" RCP Sloped End, Furnish	4	Each
450E2201	24" RCP Sloped End, Install	4	Each
450E2304	18" RCP Safety End, Furnish	5	Each
450E2307	18" RCP Safety End, Install	5	Each

Section B - Grading (Continued)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E5243	66" CMP Flared End, Furnish	2	Each
450E5244	66" CMP Flared End, Install	2	Each
450E5314	30" CMP Sloped End, Furnish	2	Each
450E5315	30" CMP Sloped End, Install	2	Each
450E7630	30" Steel Pipe, Furnish	72	Ft
450E7666	66" Steel Pipe, Furnish	134	Ft
451E5130	Bore and Jack 30" Pipe	72	Ft
451E5166	Bore and Jack 66" Pipe	134	Ft
462E0100	Class M6 Concrete	9.4	CuYd
480E0100	Reinforcing Steel	888	Lb
600E0200	Type II Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	11,606	Ft
620E0510	Type 1 Temporary Fence	10,904	Ft
620E0515	Type 1A Temporary Fence	702	Ft
620E1020	2 Post Panel	12	Each
620E1030	3 Post Panel	28	Each
629E0110	High Tension 4 Cable Guardrail	840	Ft
629E0290	High Tension Cable Guardrail Anchor Assembly	4	Each
629E0295	Reset High Tension Cable Guardrail Anchor Assembly	4	Each
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	175.0	Ft
630E0500	Type 1 MGS	150.0	Ft
630E1500	Type 1 Guardrail Transition	2	Each
630E2001	Asymmetrical W Beam to Thrie Beam Guardrail Transition	4	Each
630E2017	MGS MASH Flared End Terminal	2	Each
630E2018	MGS MASH Tangent End Terminal	4	Each
630E2055	Thrie Beam Guardrail Trailing End Terminal	2	Each
630E5210	Reset Beam Guardrail Trailing End Terminal	2	Each
670E4205	Type M Frame and Grate Assembly	5	Each
720E1010	PVC Coated Bank and Channel Protection Gabion	23.0	CuYd
831E0110	Type B Drainage Fabric	66	SqYd

Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	60.0	Hour
634E0110	Traffic Control Signs	1,657.7	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	25	Each
634E0380	Tubular Marker	200	Each
634E0390	Replace Tubular Marker	20	Each
634E0420	Type C Advance Warning Arrow Board	4	Each
634E0630	Temporary Pavement Marking	14.5	Mile
634E1002	Detour and Restriction Signing	1,325.4	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	4	Each
634E1260	Truck/Trailer Mounted Attenuator	2	Each

INDEX OF SHEETS

A1 to A2 Estimate of Quantities for Sections B, C, D, E, F, M, and S
 A3 to A5 Environmental Commitments

Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	7.6	CuYd
110E1695	Remove Sediment Filter Bag	160	Ft
110E1700	Remove Silt Fence	1,659	Ft
230E0010	Placing Topsoil	13,239	CuYd
730E0100	Cover Crop Seeding	20.0	Bu
730E0208	Type E Permanent Seed Mixture	120	Lb
730E0212	Type G Permanent Seed Mixture	488	Lb
731E0200	Fertilizing	12.41	Ton
732E0100	Mulching	49.5	Ton
734E0132	Type 2 Turf Reinforcement Mat	356.0	SqYd
734E0154	12" Diameter Erosion Control Wattle	2,750	Ft
734E0165	Remove and Reset Erosion Control Wattle	698	Ft
734E0180	Sediment Filter Bag	160	Ft
734E0325	Surface Roughening	7.6	Acre
734E0602	Low Flow Silt Fence	5,705	Ft
734E0604	High Flow Silt Fence	886	Ft
734E0610	Mucking Silt Fence	460	CuYd
734E0620	Repair Silt Fence	1,659	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	5	Each
900E1320	Construction Entrance	2	Each

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
	PT 0908(105)349	A2	A5

Plotting Date: 08/21/2024

Section E – Structure

Structure Numbers 44-052-140 & 44-065-126

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	112	CuYd
421E0200	Box Culvert Undercut	437	CuYd
560E0156	11'x5' Precast Concrete Box Culvert, Furnish	44.0	Ft
560E0157	11'x5' Precast Concrete Box Culvert, Install	44.0	Ft
560E1156	11'x5' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1157	11'x5' Precast Concrete Box Culvert End Section, Install	2	Each
560E2090	2-9'x4' Precast Concrete Box Culvert, Furnish	170.0	Ft
560E2091	2-9'x4' Precast Concrete Box Culvert, Install	170.0	Ft
560E3090	2-9'x4' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E3091	2-9'x4' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	95.8	Ton
831E0110	Type B Drainage Fabric	122	SqYd
831E0300	Reinforcement Fabric (MSE)	496	SqYd

Structure Number 44-054-126 Alternate A

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	76	CuYd
421E0200	Box Culvert Undercut	312	CuYd
460E0120	Class A45 Concrete, Box Culvert	214.1	CuYd
460E0380	Install Dowel in Concrete	22	Each
480E0100	Reinforcing Steel	35,234	Lb
700E0210	Class B Riprap	24.0	Ton
831E0110	Type B Drainage Fabric	35	SqYd
831E0300	Reinforcement Fabric (MSE)	437	SqYd

Structure Number 44-054-126 Alternate B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
420E0200	Structure Excavation, Box Culvert	64	CuYd
421E0200	Box Culvert Undercut	291	CuYd
560E0116	9'x8' Precast Concrete Box Culvert, Furnish	216.0	Ft
560E0117	9'x8' Precast Concrete Box Culvert, Install	216.0	Ft
560E1116	9'x8' Precast Concrete Box Culvert End Section, Furnish	2	Each
560E1117	9'x8' Precast Concrete Box Culvert End Section, Install	2	Each
700E0210	Class B Riprap	25.7	Ton
831E0110	Type B Drainage Fabric	37	SqYd
831E0300	Reinforcement Fabric (MSE)	406	SqYd

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E7020	Remove Interim Crossover Closure for Reset	224	Ft
120E6200	Water for Granular Material	316.3	MGal
120E9000	Pit Run	4,685.7	Ton
260E1010	Base Course	3,456.0	Ton
260E2010	Gravel Cushion	18,254.2	Ton
320E1200	Asphalt Concrete Composite	1,508.4	Ton
380E0050	8" Nonreinforced PCC Pavement	4,476.1	SqYd
380E0100	10.5" Nonreinforced PCC Pavement	4,559.8	SqYd
380E0550	10.5" Continuously Reinforced PCC Pavement	28,484.0	SqYd
380E0800	PCC Shoulder Pavement	12,430.9	SqYd
380E6000	Dowel Bar	4,683	Each
380E6110	Insert Steel Bar in PCC Pavement	192	Each
450E4749	15" CMP 16 Gauge, Furnish	204	Ft
450E4750	15" CMP, Install	204	Ft
450E5005	15" CMP Elbow, Furnish	2	Each
450E5006	15" CMP Elbow, Install	2	Each
450E5402	15" CMP Safety End, Furnish	1	Each
450E5403	15" CMP Safety End, Install	1	Each
450E6119	15" Slotted CMP 16 Gauge, Furnish	260	Ft
450E6120	15" Slotted CMP, Install	260	Ft
451E3115	15" Pipe Cap	1	Each
462E0100	Class M6 Concrete	25.7	CuYd
464E0100	Controlled Density Fill	9.6	CuYd
629E9010	Interim Crossover Closure	368	Ft
629E9060	Reset Interim Crossover Closure	224	Ft
831E0210	Non-woven Separator Fabric	5,010	SqYd

Section M – Pavement Markings

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E3000	Durable Pavement Marking, 4" White	14,571	Ft
633E3005	Durable Pavement Marking, 4" Yellow	11,256	Ft
633E3020	Durable Pavement Marking, 12" White	600	Ft
633E5100	Grooving for Durable Pavement Marking, 4"	25,827	Ft
633E5110	Grooving for Durable Pavement Marking, 12"	600	Ft

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	1	Each
110E0135	Remove Delineator	83	Each
110E7150	Remove Sign for Reset	2	Each
632E1340	2.5"x2.5" Perforated Tube Post	36.8	Ft
632E2000	4"x4" Amber Delineator with 1.12 Lb/Ft Post	20	Each
632E2004	4"x8" Amber Delineator with 1.12 Lb/Ft Post	5	Each
632E2020	4"x4" White Delineator with 1.12 Lb/Ft Post	20	Each
632E2024	4"x8" White Delineator with 1.12 Lb/Ft Post	28	Each
632E2220	Guardrail Delineator	24	Each
632E2510	Type 2 Object Marker Back to Back	14	Each
632E2520	Type 2 Object Marker	8	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	23.5	SqFt
632E3500	Reset Sign	2	Each

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PT 0908(105)349	A3	A5

Plotting Date: 08/21/2024

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/documents/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 A: AQUATIC RESOURCES

COMMITMENT A1: WETLANDS

All efforts to avoid and minimize wetland impacts from the project have resulted in approximately 2.72 acre(s) of wetlands (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans for location and boundaries of the impacted wetlands.

Table of Impacted Wetlands

Wetland No.	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
WL 1	35+00	0.00	0.004	0.00	0.00	0.004
WL 2	610+00 to 616+00	0.00	0.036	0.00	0.278	0.314
WL3	700+00 to 703+00	0.00	0.017	0.00	0.00	0.017
WL 5a	1+00 to 2+00	0.00	0.00	0.00	0.027	0.027

Wetland No.	Station	Perm. Impact Left (Acres)	Perm. Impact Right (Acres)	Temp. Impact Left (Acres)	Temp. Impact Right (Acres)	Total Impact (Acres)
WL 5b	1+00 to 2+00	0.003	0.00	0.00	0.00	0.003
WL6a	477+00 to 485+00	0.155	0.00	0.00	0.00	0.155
WL 6b	809+00 to 817+97	0.00	0.427	0.00	0.00	0.427
WL 6c	500+00 to 505+00	0.148	0.00	0.00	0.00	0.148
WL 7	492+00 to 599+00	0.00	0.168	0.00	0.449	0.617
WL 8	711+00 to 718+10	0.167	0.00	0.089	0.00	0.256
WL9a	707+00 to 711+00	0.086	0.00	0.00	0.00	0.086
WL 9b	707+00 to 711+00	0.00	0.119	0.00	0.00	0.119
WL 11a	560+00 to 572+00	0.273	0.00	0.00	0.00	0.273
WL11b	553+00 to 555+00	0.00	0.054	0.00	0.00	0.054
WL 12a	562+00 to 570+00	0.00	0.166	0.00	0.00	0.166
WL 13a	554+00	0.00	0.047	0.00	0.012	0.059

Action Taken/Required:

SDDOT will acquire 2.66 credits in the Lower James GSA from the Ducks Unlimited Sanborn County Mitigation Bank to mitigate permanent impacts. SDDOT will acquire 2.30 credits in the Vermillion GSA from the SDDOT's Vermillion Site 1 Mitigation Bank Site to mitigate permanent impacts.

Temporary impacts identified in the Table of Impacted Wetlands will not be mitigated as original contours and elevations will be re-established as designated in Section B – Grading Plans. Prior to initiating temporary work in wetlands, the Contractor will submit a plan to the Project Engineer in accordance with Section 7.21 D of the Specifications.

The Contractor will notify the Project Engineer if additional easement is needed to complete work adjacent to any wetland. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any wetlands beyond the work limits and easements shown in the plans.

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.

Plot Scale - 1:200

Plotted From - TRPR14435

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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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

The project work is near Gross Lake. Gross Lake is classified as a warm water, marginal fishery with a total suspended solids standard of less than 150 mg/L 30-day average, less than 263 mg/L daily maximum.

Gross Lake is classified as fish and wildlife propagation, recreation, irrigation, and stock watering waters. Because of these beneficial uses, special construction measures may have to be taken to ensure that this water body is not impacted.

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.
<https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>

Action Taken/Required:

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:
https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_AddTempInfoFillable.pdf

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>

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance and/or work in a waterway.

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

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

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 signed and submitted to DANR.

The form can be found at:

https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPAAppendixCCA2018Fillable.pdf

The Contractor is advised that permit coverage may also be required for off-site 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>

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	PT 0908(105)349	A5	A5

Plotting Date: 08/21/2024

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) 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.

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

COMMITMENT M1: SECTION 4(f) PROPERTY

A Section 4(f) Evaluation concluded there are no feasible and prudent alternatives to avoiding Section 4(f) property located within the project.

Station	Section 4(f) Property
600+00 to 624+00	Welker Waterfowl Production Area
700+00 to 718+00	Gross Lake Game Production Area

Action Taken/Required:

The following measures are required to minimize harm to the above Section 4(f) property:

Welker Waterfowl Production Area (Station 600+00 to 624+00): The occupancy of Welker Waterfowl Production Area will be temporary, the scope of the work is minor, there are no anticipated permanent adverse physical impacts, and the land disturbed will be fully restore and returned to the condition which existed prior to the project.

Gross Lake Game Production Area (Station 700+00 to 718+00): The occupancy of Gross Lake Game Production Area will be temporary, the scope of the work is minor, there are no anticipated permanent adverse physical impacts, and the land disturbed will be fully restore and returned to the condition which existed prior to the project.

The Contractor is not permitted to stage equipment or materials within [name of park(s)]. The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.

COMMITMENT N: SECTION 404 PERMIT

The SDDOT has obtained a Section 404 Permit from the USACE for the permanent actions associated with this project.

Action Taken/Required:

The Contractor will comply with all requirements contained in the Section 404 Permit.

The Contractor will also be responsible for obtaining a Section 404 Permit for any dredge, excavation, or fill activities associated with material sources, storage areas, waste sites, and Contractor work sites outside the plan work limits that affect wetlands, floodplains, or waters of the United States.

Plot Scale - 1:200

Plotted From - TRPR14435

File - ...:\pjt\hans07\Notes\SectionA.dgn