

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH-B-PP 0013(49)121	1	274

Plotting Date: 05/02/2024
Revise Date: 05-02/2024 MDJ

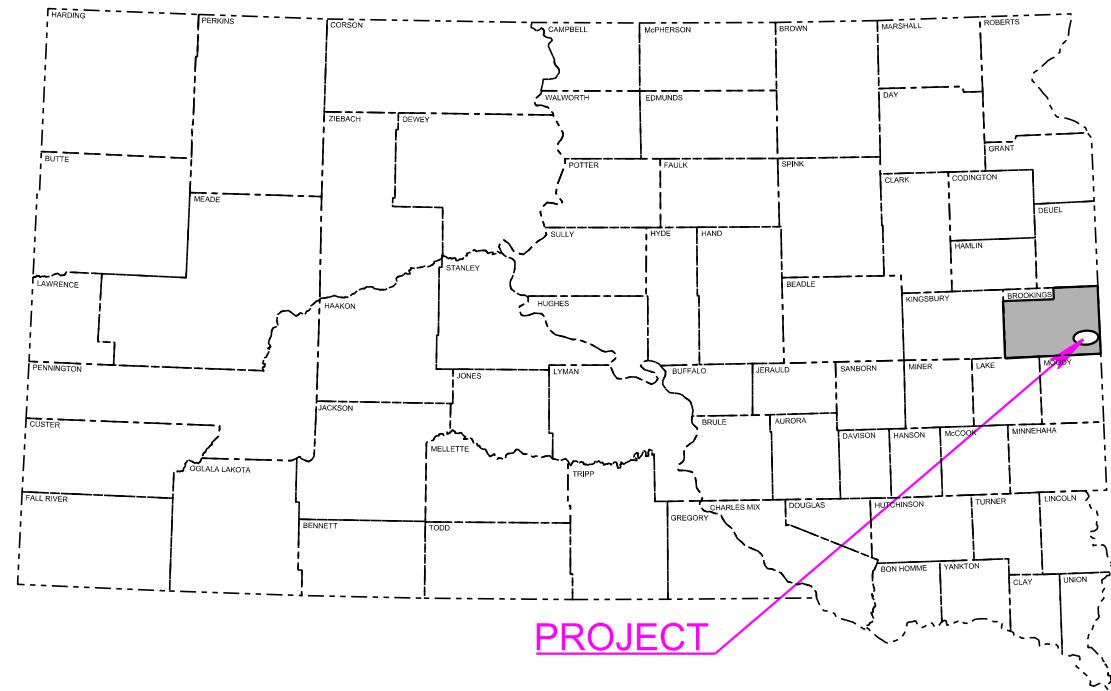
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- Section S: Permanent Signing Plans
- Section X: Cross Sections
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PROJECT EM-PH-PP 0013(49)121
SD HIGHWAY 13
BROOKINGS COUNTY

SHOULDER WIDENING, MILL & AC RESURFACING,
REPLACE STRUCTURE, APPROACH GRADING
& SPOT GRADING

PCN 05EX



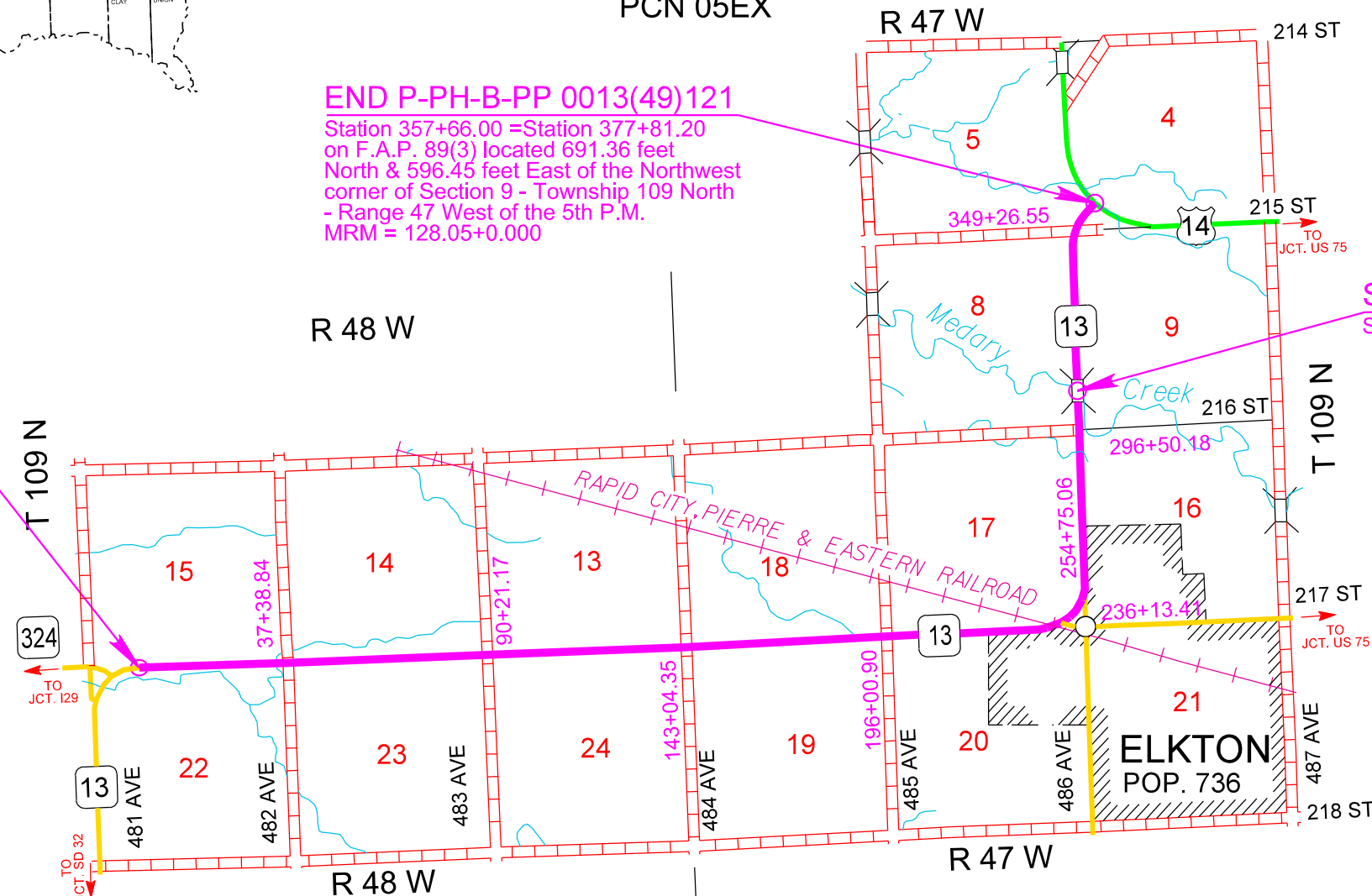
PROJECT

END P-PH-B-PP 0013(49)121

Station 357+66.00 = Station 377+81.20
on F.A.P. 89(3) located 691.36 feet
North & 596.45 feet East of the Northwest
corner of Section 9 - Township 109 North
- Range 47 West of the 5th P.M.
MRM = 128.05+0.000

BEGIN P-PH-B-PP 0013(49)121

Station 00+00.00 = Station 21+32.30
on F.A.P. 89(3) located 59.29 feet
North & 1548.85 feet East of the Northwest
corner of Section 22 - Township 109 North
- Range 48 West of the 5th P.M.
MRM = 121.00+0.208



Structure No 06-320-198
Station 307+25.00

DESIGN DESIGNATION

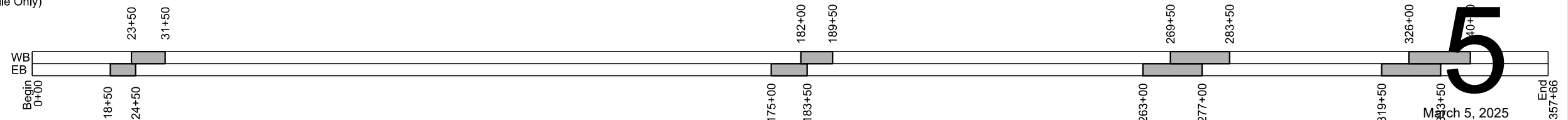
AAADT (2021)	1281
AAADT (2046)	2088
DHV	154
D	51%
DHV T%	4.6%
AAADT T%	8.8%
V	70 mph

STORM WATER PERMIT

Major Receiving
Body of Water: Medary Creek
Area Disturbed: 115 Acres
Total Project Area: 210 Acres
Approx. Begin Lat/Long: 44.2389/-96.5811

This striping diagram is for informational purposes only. Actual striping for passing/no passing zones should be determined by field verified procedures. (Vertical Profile Only)

- Passing
- No Passing



Gross Length	35,766.00 Feet	6.774 Miles
Length of Exceptions	0.00 Feet	0.00 Miles
Net Length	35,766.00 Feet	6.774 Miles

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Plot Scale - 1:200

Plotted From - TRSE12140



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March 5, 2025

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH-B-PP 0013(49)121	A1	A6

Plotting Date: 01/30/2025
 Revise Date: 01/30/2025 MDJ

Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	123	Each
009E3225	Reestablish Public Land Survey System Corner	18	Each
009E3230	Grade Staking	6.890	Mile
009E3245	Final Cross Section Survey	6.775	Mile
009E3250	Miscellaneous Staking	6.775	Mile
009E3280	Slope Staking	6.775	Mile
009E3290	Structure Staking	1	Each
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	18,688	Ft
110E0700	Remove 3 Cable Guardrail	339	Ft
110E0730	Remove Beam Guardrail	328.0	Ft
110E0740	Remove 3 Cable Guardrail Anchor Assembly	2	Each
110E1010	Remove Asphalt Concrete Pavement	1,127.9	SqYd
120E0010	Unclassified Excavation	268,237	CuYd
120E0600	Contractor Furnished Borrow Excavation	61,599	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E1000	Muck Excavation	4,937	CuYd
120E2000	Undercutting	36,832	CuYd
120E6100	Water for Embankment	2,339.0	MGal
240E0010	Obliterate Old Road	6	Sta
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	36,114.5	Ton
421E0100	Pipe Culvert Undercut	541	CuYd
450E0142	24" RCP Class 2, Furnish	68	Ft
450E0150	24" RCP, Install	68	Ft
450E0182	36" RCP Class 2, Furnish	336	Ft
450E0190	36" RCP, Install	336	Ft
450E0202	48" RCP Class 2, Furnish	168	Ft
450E0210	48" RCP, Install	168	Ft
450E2028	36" RCP Flared End, Furnish	8	Each
450E2029	36" RCP Flared End, Install	8	Each
450E2036	48" RCP Flared End, Furnish	4	Each
450E2037	48" RCP Flared End, Install	4	Each
450E2200	24" RCP Sloped End, Furnish	2	Each
450E2201	24" RCP Sloped End, Install	2	Each
450E3012	24" RCP Arch Class 2, Furnish	140	Ft
450E3020	24" RCP Arch, Install	140	Ft
450E3032	36" RCP Arch Class 2, Furnish	168	Ft
450E3040	36" RCP Arch, Install	168	Ft

Section B - Grading (Continued)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E3052	48" RCP Arch Class 2, Furnish	84	Ft
450E3060	48" RCP Arch, Install	84	Ft
450E3072	60" RCP Arch Class 2, Furnish	336	Ft
450E3080	60" RCP Arch, Install	336	Ft
450E4512	36" RCP Arch Flared End, Furnish	4	Each
450E4513	36" RCP Arch Flared End, Install	4	Each
450E4520	48" RCP Arch Flared End, Furnish	2	Each
450E4521	48" RCP Arch Flared End, Install	2	Each
450E4528	60" RCP Arch Flared End, Furnish	8	Each
450E4529	60" RCP Arch Flared End, Install	8	Each
450E4600	24" RCP Arch Sloped End, Furnish	4	Each
450E4601	24" RCP Arch Sloped End, Install	4	Each
450E4759	18" CMP 16 Gauge, Furnish	2,260	Ft
450E4760	18" CMP, Install	2,260	Ft
450E4769	24" CMP 16 Gauge, Furnish	338	Ft
450E4770	24" CMP, Install	338	Ft
450E5406	18" CMP Safety End, Furnish	68	Each
450E5407	18" CMP Safety End, Install	68	Each
450E5410	24" CMP Safety End, Furnish	12	Each
450E5411	24" CMP Safety End, Install	12	Each
464E0100	Controlled Density Fill	95.1	CuYd
600E0300	Type III Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	6,906	Ft
620E0030	Type 3 Right-of-Way Fence	7,679	Ft
620E0060	Type 6 Right-of-Way Fence	195	Ft
620E0515	Type 1A Temporary Fence	3,137	Ft
620E0520	Type 2 Temporary Fence	7,039	Ft
620E1020	2 Post Panel	24	Each
620E1030	3 Post Panel	39	Each
680E0240	4" Corrugated Polyethylene Drainage Tubing	100	Ft
680E0260	6" Corrugated Polyethylene Drainage Tubing	100	Ft
680E0280	8" Corrugated Polyethylene Drainage Tubing	100	Ft
680E0292	12" Corrugated Polyethylene Drainage Tubing	100	Ft
680E0298	18" Corrugated Polyethylene Drainage Tubing	100	Ft
720E1010	PVC Coated Bank and Channel Protection Gabion	81.5	CuYd
734E0900	Temporary Diversion Channel for Fish Passage	1	Each
831E0110	Type B Drainage Fabric	238	SqYd
831E1010	Geogrid Reinforcement	2,193	SqYd
900E0010	Refurbish Single Mailbox	9	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

INDEX OF SHEETS

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

Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	3,200.0	Hour
634E0020	Pilot Car	1,500.0	Hour
634E0110	Traffic Control Signs	1,146.4	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	14	Each
634E0600	4" Temporary Pavement Marking Tape Type I	17,152	Ft
634E0630	Temporary Pavement Marking	34.0	Mile
634E1002	Detour and Restriction Signing	364.0	SqFt

Section D - Erosion and Sediment Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	2.6	CuYd
110E1700	Remove Silt Fence	3,067	Ft
230E0010	Placing Topsoil	74,923	CuYd
730E0100	Cover Crop Seeding	100.0	Bu
730E0212	Type G Permanent Seed Mixture	2,415	Lb
731E0200	Fertilizing	46.50	Ton
732E0100	Mulching	185.8	Ton
734E0103	Type 3 Erosion Control Blanket	13,537	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,150	Ft
734E0165	Remove and Reset Erosion Control Wattle	288	Ft
734E0510	Shaping for Erosion Control Blanket	3,125	Ft
734E0602	Low Flow Silt Fence	10,828	Ft
734E0604	High Flow Silt Fence	3,028	Ft
734E0610	Mucking Silt Fence	851	CuYd
734E0620	Repair Silt Fence	3,067	Ft
734E0630	Floating Silt Curtain	250	Ft
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
	P-PH-B-PP 0013(49)121	A2	A6

Plotting Date: 06/05/2024
 Revise Date: 06/05/2024 MDJ

Section E – Structure Structure No. 06-320-198

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
250E0030	Incidental Work, Structure	Lump Sum	LS
420E0200	Structure Excavation, Box Culvert	227	CuYd
421E0200	Box Culvert Undercut	645	CuYd
460E0120	Class A45 Concrete, Box Culvert	544.2	CuYd
480E0100	Reinforcing Steel	76,357	Lb
700E0210	Class B Riprap	96.3	Ton
831E0110	Type B Drainage Fabric	117	SqYd

Section M - Pavement Marking

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0030	Cold Applied Plastic Pavement Marking, 24"	50	Ft
633E0055	Cold Applied Plastic Pavement Marking, Railroad Crossing	3	Each
633E1200	High Build Waterborne Pavement Marking Paint, White	305	Gal
633E1205	High Build Waterborne Pavement Marking Paint, Yellow	105	Gal
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	50	Ft
633E5040	Grooving for Cold Applied Plastic Pavement Marking, Railroad Crossing	3	Each

Section F - Surfacing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
110E1010	Remove Asphalt Concrete Pavement	440.4	SqYd
120E0100	Unclassified Excavation, Digouts	294	CuYd
120E6200	Water for Granular Material	992.2	MGal
260E1010	Base Course	45,276.9	Ton
260E1030	Base Course, Salvaged	36,114.5	Ton
260E1050	Base Course, Salvaged Asphalt Mix	1,306.1	Ton
320E0005	PG 58-34 Asphalt Binder	1,460.9	Ton
320E1200	Asphalt Concrete Composite	446.8	Ton
320E1202	Class Q2R Hot Mixed Asphalt Concrete	28,563.5	Ton
320E1800	Asphalt Concrete Blade Laid	880.9	Ton
320E4000	Hydrated Lime	284.4	Ton
320E5020	Saw Joint in Asphalt Concrete	62,014	Ft
320E7012	Grind 12" Rumble Strip or Stripe in Asphalt Concrete	13.5	Mile
320E7028	Grind Centerline Rumble Stripe in Asphalt Concrete	4.1	Mile
320E7030	Grind Sinusoidal Centerline Rumble Stripe in Asphalt Concrete	2.7	Mile
330E0010	MC-70 Asphalt for Prime	128.0	Ton
330E0100	SS-1h or CSS-1h Asphalt for Tack	107.8	Ton
330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	42.7	Ton
330E1000	Blotting Sand for Prime	10.0	Ton
330E2000	Sand for Flush Seal	414.4	Ton
332E0010	Cold Milling Asphalt Concrete	103,140	SqYd
900E1980	Storage Unit	1	Each

Section S - Permanent Signing

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E0130	Remove Traffic Sign	87	Each
110E0135	Remove Delineator	20	Each
632E1320	2.0"x2.0" Perforated Tube Post	969.5	Ft
632E2028	4" Tubular White Delineator with 1.12 Lb/Ft Post	8	Each
632E2510	Type 2 Object Marker Back to Back	96	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	209.8	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	422.3	SqFt

Plot Scale - 1:200

Plotted From - TRSF12140

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ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH-B-PP 0013(49)121	A3	A6

Plotting Date: 04/18/2024

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 4.05 acres 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)
2	1+50 to 4+00 R	0	0.067	0.00	0.024	0.091
3	4+00 to 12+25 R	0	0.210	0	0	0.210
4	12+25 to 18+50 L	0	0.263	0	0.276	0.539
5	13+25 to 18+30 L	0.290	0	0.161	0	0.451
6	32+75 to 33+50 L&R	0.028	0.027	0.019	0.003	0.07
10	101+00 to 101+50 R	0.017	0.013	0.005	0.160	0.195

11	132+50 to 133+25 L	0.180	0	0.019	0	0.199
12	168+80 to 169+75 L&R	0.036	0	0.016	0.050	0.102
13	187+50 to 187+85 L	0	0	0.008	0	0.008
15	241+25 to 246+50 L	0.207	0	0.119	0	0.326
17	287+00 to 291+75 L	0.289	0	0.269	0	0.558
18	289+75 to 293+00 R	0	0.185	0	0.190	0.375
20	298+75 to 301+15 L	0.045	0	0.135	0	0.18
21	298+50 to 307+80 R	0	0.130	0	0.339	0.469
22	305+00 to 305 + 95 L	0.016	0	0.086	0	0.102
23	308+50 to 309+50 L	0	0	0.043	0	0.043
27	353+75 to 357+00 L	0.001	0	0	0	0.001

Action Taken/Required:

A total of 2.04 acre(s) of compensatory wetlands will be created off-site to account for permanent project impacts to existing wetlands. The off-site wetland mitigation site will occur in the same geographical service areas (GSA) as the impacted wetlands. The locations and boundaries of the mitigation site(s) are shown in the plans.

SDDOT will acquire 3.406 Functional Capacity Unit (FCU) credits from the Ducks Unlimited wetland mitigation bank site in the Lower Big Sioux Geographic Service Area (GSA).

SDDOT will acquire 3.833 FCU credits from the Tetonka wetland mitigation bank site in the Upper Big Sioux GSA.

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 A2: STREAMS

All efforts to avoid and minimize stream impacts from the project have resulted in approximately 0.39 acres of stream (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans for location and boundaries of the impacted streams.

Table of Impacted Streams

Stream Name	Station	Perm. Impact (Acres)	Temp. Impact (Acres)	Total Impact (Acres)
No Name Creek	13+50 to 18+80R	0.001	0.08	0.081
Medary Creek	306+90 to 307+50L&R	0.267	0.04	0.307

Action Taken/Required:

It has been determined that project impacts do not require stream mitigation. Temporary impacts identified in the Table of Impacted Streams will not be mitigated as the finished ground under the bridge will be shaped to match the upstream channel and flood plain and the existing low water channel will be maintained as near as practical to the existing location as designated in Section B – Grading Plans.

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

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH-B-PP 0013(49)121	A4	A6

Plotting Date: 04/18/2024

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B1: CONSTRUCTION PRACTICES FOR STREAMS INHABITED BY THE TOPEKA SHINER

The SDDOT Environmental Office has identified the following as Topeka Shiner streams.

Table of Topeka Shiner Streams

Station	Stream Name	Ordinary High-Water Elevation
307+33	Medary Creek	1718.0'

Action Taken/Required:

The Contractor will adhere to the "Special Provision for Construction Practices in Streams Inhabited by the Topeka Shiner".

Stream turbidity will be monitored during all stages of the project. Turbidity measurements are to be taken in conjunction with normal storm water inspections but can also be taken at the Project Engineer's discretion during construction activities that may result in increased turbidity (e.g., placing riprap or installing a coffer dam).

Prior to the pre-construction meeting the Contractor will produce and provide the SDDOT Environmental Office a comprehensive Construction Plan that includes all products, materials, and methods of installation and removal for temporary water barriers, cofferdams, and diversion channels including dewatering, handling, storage, and disposal of excavated material and pumped effluent throughout all phases of construction, including post-construction stabilization. Work will not proceed on any of the streams identified in the Table of Topeka Shiner Streams without approval of the Construction Plan by the SDDOT Environmental Office. Upon plan approval, the Construction Plan will be amended to the SWPPP.

COMMITMENT B5: NORTHERN LONG-EARED BAT

This project is within the range of suitable habitat for the Northern Long-Eared Bat (NLEB) and project work will avoid conflicts with NLEB roosting habitat.

Action Taken/Required:

Project activities that include tree removal should not occur within the location(s) listed below during the NLEB seasonal work restriction timeframe without approval from the SDDOT Environmental Office.

Station	NLEB Seasonal Work Restriction
Project Corridor	April 1 to October 31

Tree removal will occur between November 1st and March 31st.

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.

[U:\pd\Environmental\Section7\TopekaShiner\Maps\SDstreams_2014_USFWS map.pdf](U:\pd\Environmental\Section7\TopekaShiner\Maps\SDstreams_2014_USFWS_map.pdf).

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](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04) >

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D1: SURFACE WATER QUALITY

Medary Creek and No Name Creek are classified as warm water, marginal fisheries with a total suspended solids standard of less than 150 mg/L 30-day average, less than 263 mg/L daily maximum.

Medary Creek and No Name Creek are 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.

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_AddTemplInfoFillable.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/Ereporing.aspx>>

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

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	P-PH-B-PP 0013(49)121	A5	A6

Plotting Date: 04/18/2024

COMMITMENT E: STORM WATER

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

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.

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> >

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.

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH-B-PP 0013(49)121	A6	A6

Plotting Date: 04/18/2024

COMMITMENT L: CONTAMINATED MATERIAL

Contaminated soil and/or known gas stations, undergrounds storage tanks, etc. are located within the project limits. Petroleum contaminated soil is or may be located at the following sites:

Description	Station	L / R
Skyview Junction, LLC – Gas Station	247+64.22	R
PJ's Cenex – Gas Station	345+00	L

Action Taken/Required:

The Contractor will give notice to the Engineer when contaminated soil is encountered on the project. The Engineer will contact the Environmental Office so that contact with the DANR and consultant to inspect and monitor removal of any contaminated soil can be initiated.

The Contractor will be responsible for having the existing underground utilities located in the construction area. Underground utilities damaged by the Contractor due to negligence will be repaired at the Contractor's expense.

Petroleum contaminated soil may be disposed of at the Brookings Landfill (phone 605-693-3667). Measurement of "Contaminated Material Excavation" will be in accordance with Section 120.4 of the Specifications. All costs for excavating and transporting the contaminated materials to the disposal site and all fees charged per cubic yard by the disposal site will be incidental to the contract unit price per cubic yard for "Contaminated Material Excavation".

The estimated quantity of "Contaminated Material Excavation" is 100 cubic yards. The quantity of "Contaminated Material Excavation" may vary from the plans. No adjustment will be made to the contract unit price for variations in the quantity of "Contaminated Material Excavation". The estimated quantity of "Contaminated Material Excavation" is provided in Section B – Grading Plans

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 - TRSF12140

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