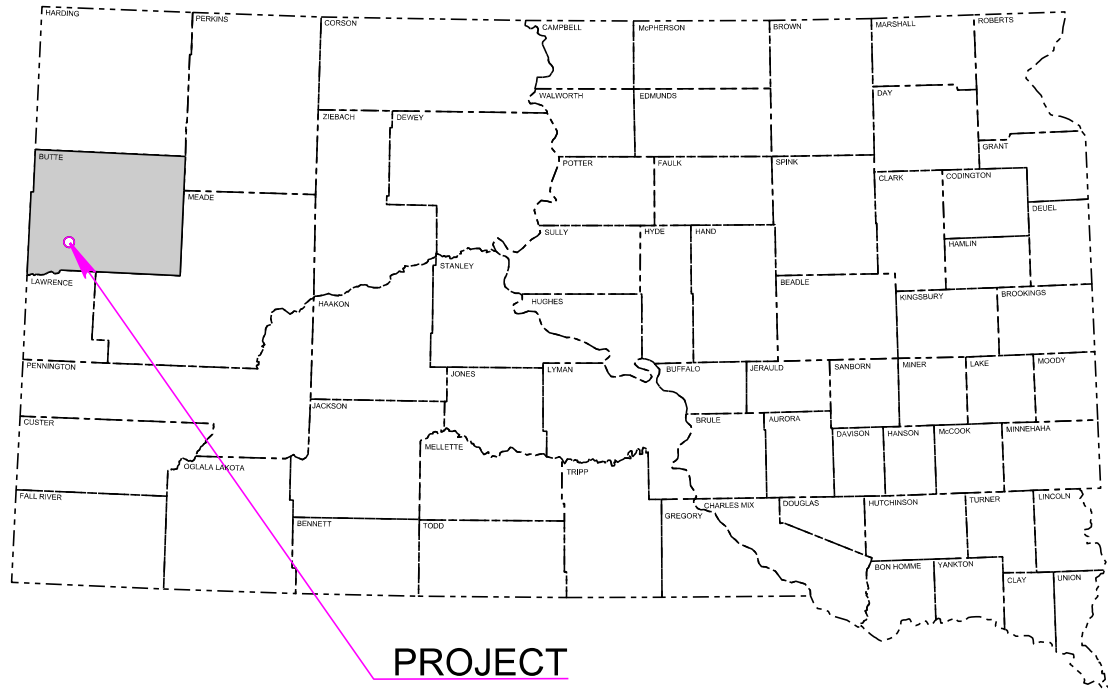


Plot Scale - 1:200

TRPR17190

Plotted From -



STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED

PROJECT EM 0085(104)56  
US HIGHWAY 85  
BUTTE COUNTY

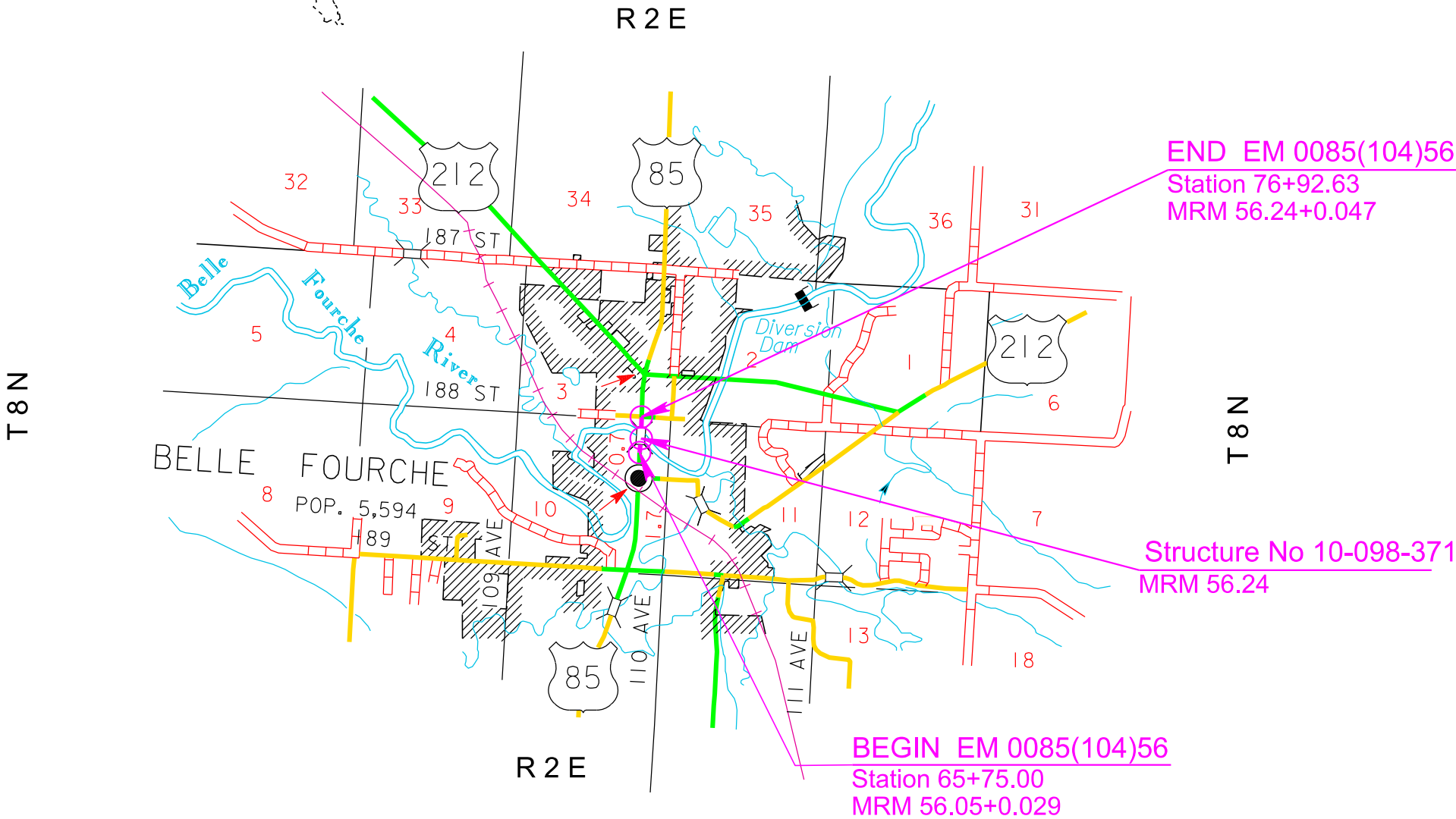
REPLACE STRUCTURE & APPROACH GRADING  
PCN 04G4

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET | TOTAL<br>SHEETS |
|-----------------------------|----------------|-------|-----------------|
|                             | EM 0085(104)56 | 1     | 220             |

Plotting Date: 02/03/2026

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
- Section E: Structure Plans
- Section F: Surfacing Plans
- Section L: Signal and Lighting Plans
- Section M: Pavement Marking Plans
- Section S: Permanent Signing Plans
- Section X: Cross Sections



DESIGN DESIGNATION

|             |        |
|-------------|--------|
| AADT (2024) | 10,476 |
| AADT (2049) | 16,175 |
| DHV         | 2,129  |
| D           | 50%    |
| DHV T%      | 3.3%   |
| AADT T%     | 7.2%   |
| V           | 40 mph |

STORM WATER PERMIT

Major Receiving  
Body of Water: Belle Fourche River  
Area Disturbed: 3 Acres  
Total Project Area: 5 Acres  
Approx. Begin Lat,Long: 44.6739, -103.8536

|                      |               |             |
|----------------------|---------------|-------------|
| Gross Length         | 1,117.63 Feet | 0.212 Miles |
| Length of Exceptions | 0.00 Feet     | 0.000 Miles |
| Net Length           | 1,117.63 Feet | 0.212 Miles |

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

|                             |                |       |                 |
|-----------------------------|----------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET | TOTAL<br>SHEETS |
|                             | EM 0085(104)56 | A1    | A7              |

Plotting Date: 08/28/2026

Section B - Grading

| BID ITEM<br>NUMBER | ITEM                                         | QUANTITY | UNIT |
|--------------------|----------------------------------------------|----------|------|
| 009E0010           | Mobilization                                 | Lump Sum | LS   |
| 009E3220           | Reestablish Right-of-Way and Property Corner | 27       | Each |
| 009E3230           | Grade Staking                                | 0.896    | Mile |
| 009E3245           | Final Cross Section Survey                   | 0.896    | Mile |
| 009E3250           | Miscellaneous Staking                        | 0.896    | Mile |
| 009E3280           | Slope Staking                                | 0.896    | 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   |
| 110E0300           | Remove Concrete Curb and/or Gutter           | 59       | Ft   |
| 110E0400           | Remove Drop Inlet                            | 6        | Each |
| 110E1100           | Remove Concrete Pavement                     | 3,321.3  | SqYd |
| 110E1130           | Remove Concrete Driveway Pavement            | 44.4     | SqYd |
| 110E1140           | Remove Concrete Sidewalk                     | 535.6    | SqYd |
| 120E0010           | Unclassified Excavation                      | 9,931    | CuYd |
| 120E0600           | Contractor Furnished Borrow Excavation       | 145      | CuYd |
| 120E0900           | Contaminated Material Excavation             | 100      | CuYd |
| 120E2000           | Undercutting                                 | 2,427    | CuYd |
| 250E0020           | Incidental Work, Grading                     | Lump Sum | LS   |
| 380E3540           | 8" PCC Approach Pavement                     | 65.5     | SqYd |
| 380E4080           | 9.5" PCC Fillet Section                      | 10.6     | SqYd |
| 450E0122           | 18" RCP Class 2, Furnish                     | 152      | Ft   |
| 450E0130           | 18" RCP, Install                             | 152      | Ft   |
| 450E0142           | 24" RCP Class 2, Furnish                     | 104      | Ft   |
| 450E0150           | 24" RCP, Install                             | 104      | Ft   |
| 450E2016           | 24" RCP Flared End, Furnish                  | 1        | Each |
| 450E2017           | 24" RCP Flared End, Install                  | 1        | Each |
| 450E4758           | 18" CMP 14 Gauge, Furnish                    | 42       | Ft   |
| 450E4760           | 18" CMP, Install                             | 42       | Ft   |
| 450E5010           | 18" CMP Elbow, Furnish                       | 2        | Each |
| 450E5011           | 18" CMP Elbow, Install                       | 2        | Each |
| 450E5211           | 18" CMP Flared End, Furnish                  | 1        | Each |
| 450E5212           | 18" CMP Flared End, Install                  | 1        | Each |
| 450E8009           | 18" RCP to CMP Transition, Furnish           | 1        | Each |
| 450E8010           | 18" Pipe Transition, Install                 | 1        | Each |
| 451E6080           | Adjust Water Valve Box                       | 1        | Each |
| 650E0095           | Type B69.5 Concrete Curb and Gutter          | 913      | Ft   |
| 650E4695           | Type P9.5 Concrete Gutter                    | 40       | Ft   |
| 651E0060           | 6" Concrete Sidewalk                         | 5,314    | SqFt |
| 651E0560           | 6" Colored Concrete Sidewalk                 | 179      | SqFt |
| 651E7000           | Type 1 Detectable Warnings                   | 20       | SqFt |
| 670E1010           | 2' x 3' Type B Drop Inlet                    | 6        | Each |

Section B – Grading (Continued)

| BID ITEM<br>NUMBER | ITEM                                          | QUANTITY | UNIT |
|--------------------|-----------------------------------------------|----------|------|
| 670E1200           | Type B Frame and Grate                        | 6        | Each |
| 670E5400           | Precast Drop Inlet Collar                     | 6        | Each |
| 720E1010           | PVC Coated Bank and Channel Protection Gabion | 4.5      | CuYd |
| 831E0110           | Type B Drainage Fabric                        | 15       | SqYd |
| 900E1150           | Concrete Right of Way Marker                  | 7        | Each |

Section C - Traffic Control

| BID ITEM<br>NUMBER | ITEM                                                      | QUANTITY | UNIT |
|--------------------|-----------------------------------------------------------|----------|------|
| 628E1100           | Movable F Shape Concrete Barrier, Interior Section        | 184      | Each |
| 628E1110           | Movable F Shape Concrete Barrier, End Section             | 4        | Each |
| 634E0010           | Flagging                                                  | 750.0    | Hour |
| 634E0110           | Traffic Control Signs                                     | 619.5    | SqFt |
| 634E0120           | Traffic Control, Miscellaneous                            | Lump Sum | LS   |
| 634E0275           | Type 3 Barricade                                          | 12       | Each |
| 634E0330           | Temporary Raised Pavement Markers                         | 7,500    | Ft   |
| 634E0380           | Tubular Marker                                            | 100      | Each |
| 634E0420           | Type C Advance Warning Arrow Board                        | 2        | Each |
| 634E0525           | Linear Delineation System Panel, Barrier Mounted          | 188      | Each |
| 634E0560           | Remove Pavement Marking, 4" or Equivalent                 | 3,000    | Ft   |
| 634E0640           | Temporary Pavement Marking                                | 9,500    | Ft   |
| 634E0705           | Remove and Reset Traffic Control Movable Concrete Barrier | 47       | Each |
| 634E1002           | Detour and Restriction Signing                            | 1,521.0  | SqFt |
| 634E2000           | Longitudinal Pedestrian Barricade                         | 72       | Ft   |
| 634E2010           | Temporary Pedestrian Facility(s)                          | Lump Sum | LS   |
| 900E1080           | Orange Plastic Safety Fence                               | 1,250    | Ft   |

Section D - Erosion and Sediment Control

| BID ITEM<br>NUMBER | ITEM                                           | QUANTITY | UNIT |
|--------------------|------------------------------------------------|----------|------|
| 110E1690           | Remove Sediment                                | 3.6      | CuYd |
| 110E1693           | Remove Erosion Control Wattle                  | 225      | Ft   |
| 110E1695           | Remove Sediment Filter Bag                     | 144      | Ft   |
| 110E1700           | Remove Silt Fence                              | 290      | Ft   |
| 120E6300           | Water for Vegetation                           | 31.2     | MGal |
| 230E0010           | Placing Topsoil                                | 289      | CuYd |
| 230E0050           | Topsoil Amendment                              | 1,433    | Lb   |
| 730E0206           | Type D Permanent Seed Mixture                  | 109      | Lb   |
| 730E1200           | Hydroseeding                                   | 1,734    | SqYd |
| 731E0100           | Fertilizing                                    | 531      | Lb   |
| 732E0500           | Fiber Reinforced Matrix                        | 0.5      | Ton  |
| 734E0042           | Soil Stabilizer                                | 1,750.0  | SqYd |
| 734E0102           | Type 2 Erosion Control Blanket                 | 994      | SqYd |
| 734E0103           | Type 3 Erosion Control Blanket                 | 168      | SqYd |
| 734E0154           | 12" Diameter Erosion Control Wattle            | 900      | Ft   |
| 734E0165           | Remove and Reset Erosion Control Wattle        | 225      | Ft   |
| 734E0170           | Temporary Sediment Barrier                     | 1,310    | Ft   |
| 734E0180           | Sediment Filter Bag                            | 144      | Ft   |
| 734E0185           | Remove and Reset Sediment Filter Bag           | 36       | Ft   |
| 734E0602           | Low Flow Silt Fence                            | 950      | Ft   |
| 734E0604           | High Flow Silt Fence                           | 208      | Ft   |
| 734E0610           | Mucking Silt Fence                             | 80       | CuYd |
| 734E0620           | Repair Silt Fence                              | 290      | Ft   |
| 734E0845           | Sediment Control at Inlet with Frame and Grate | 6        | Each |
| 734E5010           | Sweeping                                       | 4        | Hour |
| 900E1320           | Construction Entrance                          | 1        | Each |

INDEX OF SHEETS

A1 and A2 Estimate of Quantities for Sections B, C, D, E, F, L, M, and S  
A3 to A7 Environmental Commitments

Plot Scale - 1:200

Plotted From - TRPR17190

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

|                             |                |       |                 |
|-----------------------------|----------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET | TOTAL<br>SHEETS |
|                             | EM 0085(104)56 | A2    | A7              |

Plotting Date: 09/01/2026 09/01/2026 RU

Section E – Structure

Structure No. 10-098-371

| BID ITEM<br>NUMBER | ITEM                                           | QUANTITY | UNIT |
|--------------------|------------------------------------------------|----------|------|
| 009E3310           | Bridge Elevation Survey                        | Lump Sum | LS   |
| 120E7000           | Select Granular Backfill                       | 18.8     | Ton  |
| 250E0030           | Incidental Work, Structure                     | Lump Sum | LS   |
| 260E1010           | Base Course                                    | 34.5     | Ton  |
| 410E0020           | Structural Steel                               | Lump Sum | LS   |
| 410E0575           | Temporary Bridge Support                       | Lump Sum | LS   |
| 410E0700           | Abutment Joint Drain                           | 2        | Each |
| 410E2100           | Finger Type Expansion Joint Assembly           | 2        | Each |
| 410E2600           | Membrane Sealant Expansion Joint               | 140.6    | Ft   |
| 420E0100           | Structure Excavation, Bridge                   | 107      | CuYd |
| 421E1000           | Footing Undercut                               | 19       | CuYd |
| 430E0200           | Bridge End Embankment                          | 1,665    | CuYd |
| 430E0300           | Granular Bridge End Backfill                   | 167.6    | CuYd |
| 430E0510           | Approach Slab Underdrain Excavation            | 2.8      | CuYd |
| 430E0700           | Precast Concrete Headwall for Drain            | 2        | Each |
| 460E0030           | Class A45 Concrete, Bridge Deck                | 1,304.4  | CuYd |
| 460E0050           | Class A45 Concrete, Bridge                     | 545.6    | CuYd |
| 460E0150           | Concrete Approach Slab for Bridge              | 248.9    | SqYd |
| 460E0160           | Concrete Approach Sleeper Slab for Bridge      | 61.5     | SqYd |
| 460E0230           | Concrete Penetrating Sealer                    | 4,628.0  | SqYd |
| 460E0380           | Install Dowel in Concrete                      | 2,540    | Each |
| 465E0100           | Class A45 Concrete, Drilled Shaft              | 596.8    | CuYd |
| 465E0200           | Drilled Shaft Excavation                       | 584.8    | CuYd |
| 465E1062           | 62" Permanent Casing                           | 264.0    | Ft   |
| 470E0120           | Steel Pedestrian Railing on Sidewalk           | 1,269.0  | Ft   |
| 470E0220           | Steel Pedestrian Railing on Concrete Barrier   | 1,173.0  | Ft   |
| 480E0100           | Reinforcing Steel                              | 338,155  | Lb   |
| 480E0200           | Epoxy Coated Reinforcing Steel                 | 5,995    | Lb   |
| 480E0300           | Stainless Reinforcing Steel                    | 303,321  | Lb   |
| 480E0504           | No. 4 Rebar Splice                             | 28       | Each |
| 480E0511           | No. 11 Rebar Splice                            | 66       | Each |
| 480E0518           | No. 18 Rebar Splice                            | 216      | Each |
| 510E0100           | Extract Pile                                   | 5        | Each |
| 510E0300           | Preboring Pile                                 | 1,000    | Ft   |
| 510E3521           | HP 14x73 Steel Test Pile, Furnish and Drive    | 100      | Ft   |
| 510E3525           | HP 14x73 Steel Bearing Pile, Furnish and Drive | 2,160    | Ft   |
| 635E8020           | 2" Rigid Galvanized Steel Conduit              | 1,350    | Ft   |
| 651E0160           | 6" Reinforced Concrete Sidewalk                | 664      | SqFt |
| 680E0304           | 4" Perforated Dual Wall HDPE Pipe              | 324      | Ft   |
| 680E0324           | 4" Dual Wall HDPE Pipe                         | 208      | Ft   |
| 680E2500           | Porous Backfill                                | 61.3     | Ton  |
| 700E0110           | Class A Riprap                                 | 10.2     | Ton  |
| 700E0210           | Class B Riprap                                 | 1,992.0  | Ton  |

Section E – Structure (Continued)

| BID ITEM<br>NUMBER | ITEM                   | QUANTITY | UNIT |
|--------------------|------------------------|----------|------|
| 734E0090           | Perforated Geocell     | 537      | SqFt |
| 831E0110           | Type B Drainage Fabric | 2,422    | SqYd |

Section F - Surfacing

| BID ITEM<br>NUMBER | ITEM                             | QUANTITY | UNIT |
|--------------------|----------------------------------|----------|------|
| 120E6200           | Water for Granular Material      | 24.1     | MGal |
| 260E1010           | Base Course                      | 2,013.8  | Ton  |
| 320E1200           | Asphalt Concrete Composite       | 47.6     | Ton  |
| 380E0080           | 9.5" Nonreinforced PCC Pavement  | 3,049.0  | SqYd |
| 380E3020           | 6" PCC Driveway Pavement         | 54.1     | SqYd |
| 380E6000           | Dowel Bar                        | 1,579    | Each |
| 380E6110           | Insert Steel Bar in PCC Pavement | 55       | Each |

Section L - Signal and Lighting

| BID ITEM<br>NUMBER | ITEM                                              | QUANTITY | UNIT |
|--------------------|---------------------------------------------------|----------|------|
| 110E1540           | Remove Luminaire Pole Footing                     | 3        | Each |
| 110E5100           | Salvage Luminaire Pole                            | 5        | Each |
| 632E3720           | Relocate Radar Speed Sign                         | 1        | Each |
| 635E0901           | Decorative Luminaire Pole with Arm                | 18       | Each |
| 635E3545           | Under Bridge Deck Luminaire, LED                  | 2        | Each |
| 635E3815           | Decorative Luminaire, LED with Photoelectric Cell | 18       | Each |
| 635E5020           | 2' Diameter Footing                               | 84.0     | Ft   |
| 635E5301           | Type 1 Electrical Junction Box                    | 4        | Each |
| 635E5400           | Electrical Service Cabinet                        | 2        | Each |
| 635E8120           | 2" Rigid Conduit, Schedule 40                     | 1,605    | Ft   |
| 635E8220           | 2" Rigid Conduit, Schedule 80                     | 260      | Ft   |
| 635E9014           | 1/C #4 AWG Copper Wire                            | 950      | Ft   |
| 635E9016           | 1/C #6 AWG Copper Wire                            | 6,650    | Ft   |
| 635E9018           | 1/C #8 AWG Copper Wire                            | 1,385    | Ft   |
| 635E9020           | 1/C #10 AWG Copper Wire                           | 45       | Ft   |
| 635E9024           | 1/C #14 AWG Copper Wire                           | 1,410    | Ft   |
| 635E9710           | 2/C #10 AWG Copper Pole and Bracket Cable         | 870      | Ft   |

Section M - Pavement Marking

| BID ITEM<br>NUMBER | ITEM                                                      | QUANTITY | UNIT |
|--------------------|-----------------------------------------------------------|----------|------|
| 633E0210           | Preformed Thermoplastic Pavement Marking, 4"              | 4,230    | Ft   |
| 633E0225           | Preformed Thermoplastic Pavement Marking, 24"             | 90       | Ft   |
| 633E0235           | Preformed Thermoplastic Pavement Marking, Arrow           | 2        | Each |
| 633E5000           | Grooving for Cold Applied Plastic Pavement Marking, 4"    | 4,230    | Ft   |
| 633E5015           | Grooving for Cold Applied Plastic Pavement Marking, 24"   | 90       | Ft   |
| 633E5025           | Grooving for Cold Applied Plastic Pavement Marking, Arrow | 2        | Each |

Section S - Permanent Signing

| BID ITEM<br>NUMBER | ITEM                                                 | QUANTITY | UNIT |
|--------------------|------------------------------------------------------|----------|------|
| 110E0130           | Remove Traffic Sign                                  | 2        | Each |
| 110E7150           | Remove Sign for Reset                                | 3        | Each |
| 632E1340           | 2.5"x2.5" Perforated Tube Post                       | 42.2     | Ft   |
| 632E3203           | Flat Aluminum Sign, Nonremovable Copy High Intensity | 15.0     | SqFt |
| 632E3500           | Reset Sign                                           | 3        | Each |

# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

|                             |                |       |                 |
|-----------------------------|----------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET | TOTAL<br>SHEETS |
|                             | EM 0085(104)56 | A3    | A7              |

Plotting Date: 09/15/2026

## 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/doing-business/environmental/about-environmental/>>

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 A2: STREAMS

All efforts to avoid and minimize stream impacts from the project have resulted in approximately 0.19 acres of stream (includes temporary and permanent) becoming impacted. Refer to Section B – Grading Plans/the plans for location and boundaries of the impacted streams.

#### Table of Impacted Streams

| Stream Name         | Station            | Permanent Impact (Acres) | Temporary Impact (Acres) | Total Impact (Acres) |
|---------------------|--------------------|--------------------------|--------------------------|----------------------|
| Belle Fourche River | 72+25 to 73+00 L/R | 0.05 L/R                 | 0.18                     | 0.19                 |

#### Action Taken/Required:

It has been determined that project impacts do not require 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 complete excavation after temporary diversion is in place, if required, with minimal standing water to create the profile of slope protection specified in plans. Once the instream work is completed, the removed material will be placed on top of the riprap to match the natural ground, proposed groundline, or specified shape and elevations shown in plans. When overburden extends into the streambed it will form the channel bottom and profile as specified in plans. The finished ground under the bridge will be shaped to match the upstream and downstream channel and flood plain. See Overburden Excavation for Riprap note within structure sheets.

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.

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.

### COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

#### COMMITMENT B5: NORTHERN LONG-EARED AND TRI-COLORED BAT

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

#### Action Taken/Required:

Project activities that include tree removal, structure work, and/or work within one-quarter mile of a known hibernacula or 150 feet of a known maternity roost tree, or suitable habitat should not occur within the location(s) listed below during the NLEB and/or TCB seasonal work restriction timeframe without approval from the SDDOT Environmental Office.

#### Table of Bat Seasonal Restrictions

| Station               | NLEB/TCB Seasonal Work Restriction |
|-----------------------|------------------------------------|
| 65+75 to 76+92.63 L/R | April 15 to October 31             |

Tree removal will occur between November 1<sup>st</sup> and April 14<sup>th</sup>.

The following avoidance, minimization, and mitigation measures are required:

Ensure tree removal/trimming is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree removal/trimming to ensure contractors stay within clearing limits.

If project activities cannot be conducted outside of the seasonal restriction the Contractor will notify the Project Engineer and the Environmental Office (605-773-3309) to schedule a presence/absence survey.

If bats are observed roosting on trees or infrastructure within the project area prior to and/or during construction, the contractor will halt all on-site activities. The contractor will notify the Project Engineer and the Environmental Office ( 605-773- 3309 or 605-773-5679) of the observed bat presence.

1:200  
Plot Scale -

Plotted From -  
TRPR17190

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# ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

|                             |                |       |                 |
|-----------------------------|----------------|-------|-----------------|
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET | TOTAL<br>SHEETS |
|                             | EM 0085(104)56 | A4    | A7              |

Plotting Date: 09/15/2026 Rev 09/15/2026 RU

## COMMITMENT B6: MIGRATORY BIRDS WORK RESTRICTION

Migratory birds may use structures for nesting, which primarily occurs from April 1<sup>st</sup>-August 31<sup>st</sup>.

### Action Taken/Required:

All Swallows are state and federally protected under the Migratory Bird Treaty Act of 1918. It is illegal for any person to take, possess, transport, sell, or purchase them or their parts, such as feathers, nests, or eggs, without a permit. Active nests with eggs or chicks inside may not be touched or destroyed without a permit from the U.S. Fish and Wildlife Service (USFWS). Inactive (empty) nests do not require a permit to destroy. Nest or bird removal applications must be justified with strong, compelling reasons such as a health or safety hazard towards humans and/or birds or damage to property.

Construction activities should not occur in the locations listed in the table below during the migratory bird work restriction if nesting swallows are present without prior approval from the SDDOT Environmental Office to avoid conflicts with nesting migratory birds.

Table of Migratory Bird Restrictions

| Station               | Migratory Bird Restrictions |
|-----------------------|-----------------------------|
| 65+75 to 76+92.63 L/R | April 1- August 31          |

If necessary, you may do the following to prevent birds from nesting:

Before birds arrive:

Remove old nests and any traces of mud. Since old nests can be reused, remove any potential nests before the birds arrive from winter migration.

Place physical barriers on potential nesting sites to prevent birds from nesting. You may use products such as coroplast, polytetrafluoroethylene (Teflon), Bird Slide™, plexiglass, plastic sheeting, or silicon-based paint coated to the surface. Physical barriers may be a permanent deterrent in preventing birds from nesting in nuisance locations.

After birds arrive:

Remove mud nests frequently, in between nest construction. They may eventually give up on that site if they are not successful in building a nest. You may only destroy nests that do not have eggs or chicks within.

Play sounds of alarm and distress calls of cliff and barn swallows to disrupt nest construction.

If project activities cannot be conducted outside of the seasonal restriction the Contractor will notify the Project Engineer and the Environmental Office Biologist (605-773-3309) to coordinate with the USFWS.

## COMMITMENT C: WATER SOURCE

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

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.

### 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 (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website:

<https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

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 Belle Fourche River is classified as a warmwater permanent fishery with a total suspended solids standard of less than 90 mg/L 30-day average, less than 158 mg/L daily maximum.

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 Activities 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 coldwater permanent fish life propagation waters according to the ARSD 74:51:01:45. For discharges to waters of the state classified as coldwater 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 Project Engineer using the following SDDOT Dewatering Info CDX form:

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

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

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

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

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## 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 Authorization 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\\_CGPA\\_appendixCCA2023Fillable.pdf](https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/docs/DANR_CGPA_appendixCCA2023Fillable.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 G: DEWATERING AND SEDIMENT COLLECTION

The purpose of a dewatering and sediment collection system is to collect turbid stormwater on the project, treat it with flocculants as needed, and capture the sediment that falls out of suspension before the water is discharged into “Waters of the US” or “Waters of the State”. Refer to Commitment D1: Surface Water Quality for stream classification.

### Action Taken/Required:

The Contractor will meet the terms of the Temporary Discharge Permit and the Storm Water Permit for Construction Activities.

The Contractor will create a Pollution Prevention Plan (PPP) for dewatering and sediment collection if the Contractor chooses to discharge the water into “Waters of the US” or “Waters of the State”. Refer to the detail sheet OPTIONS FOR DEWATERING AND SEDIMENT COLLECTION in the plans. The PPP must be kept on-site and updated as site conditions change.

## 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.

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## COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

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

### Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO 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 J: CONSTRUCTION PRACTICES FOR TEMPORARY WORKS IN WATERWAYS OF THE U.S.

The Contractor is advised that special construction measures must be taken to ensure that the waterways of the U.S. are not impacted.

### Action Taken/Required:

Excavation will not occur below the ordinary high-water elevation in waterways outside of caissons, cribs, cofferdams, steel piling, or sheeting. The natural streambed will not be disturbed unless specified by the plans and under the observation of the Project Engineer. Refer to the Table of U.S. Waterways to Protect for ordinary high-water elevations. Any structure work over or within the waterway will be constructed according to Section 7.18 C of the Specifications.

All dredged or excavated materials will be placed at a site above the ordinary high-water elevation in a confined area (not classified as a wetland) that is a minimum of 50 feet away from concentrated flows of storm water, drainage courses, and inlets to prevent return of such material to the waterway.

The construction of temporary work platforms, crossings, or berms below the ordinary high-water elevation will be allowed if all material placed below the ordinary high-water elevation consists of Class B or larger riprap.

All temporary caissons, cribs, cofferdams, steel piling, sheeting, work platforms, crossings, and berms will be removed with minimal disturbance to the streambed. Proper construction practices will be used to minimize increases in suspended solids and turbidity in the waterway.

Bridge berms, wing dams, traffic diversions, channel reconstruction, stream diversions, grading, etc. will be constructed in close conformity with the plans to ensure that the hydraulic capacity of the waterway is not changed.

Temporary waterway crossings required for the Contractor's construction operations will be constructed with an adequate drainage structure size and minimum fill height to reduce the potential for upstream flooding. The Contractor will be responsible for sizing the temporary drainage structure for these crossings.

All temporary works in waterways of the US are required to be covered in the Corp of Engineers 404 Permit. At the time of the preconstruction meeting, the Contractor will submit documentation for all temporary works for the purpose of complying with the 404 Permit requirements in accordance with Section 423.3 A of the Specifications.

### Table of U.S. Waterways to Protect

| Station               | Waterway                      | Ordinary High-Water Elevation |
|-----------------------|-------------------------------|-------------------------------|
| 72+25 to<br>73+00 L/R | Belle Fourche<br>River3005.5' | 3005.5'                       |

Stream channel excavation within "Waters of the US" is subject to USACE regulatory jurisdiction. Stream channel excavation cannot exceed the permitted quantities and/or surface area. The 404 Permit is included in the Special Provisions.

The Contractor will take all precautions necessary to prevent any incidental discharges associated with the excavation and hauling of material from the stream channel. This pertains to any excavation operations such as, foundation, pier, or abutment excavation, channel cleanout, excavation for riprap protection, and removal of any temporary fill associated with construction activities.

## COMMITMENT L: CONTAMINATED MATERIAL

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

### Table of Contaminated Material Locations

| Description                           | Station | L / R |
|---------------------------------------|---------|-------|
| Center of the Nation Visitor's Center | 65+00   | R     |

### 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 Belle Fourche Regional Landfill (phone 605.892.3530). 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/the plans.

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**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.

**Table of Section 4(f) Property**

| Station               | Section 4(f) Property            |
|-----------------------|----------------------------------|
| 71+75 L/R             | River Walk                       |
| 65+00 to 73+00<br>L/R | Center of the Nation Golf Course |

The locations and boundaries of the site(s) for avoidance are shown in Section B - Grading Plans/the plans

**Action Taken/Required:**

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

- The contractor must maintain access to the Center of the Nation Golf Course and River Walk trail throughout construction except access will be restricted for public safety in the immediate vicinity of the bridge replacement project as necessary for the safety of golf course and trail users.
- The contractor must install and maintain appropriate signage to alert users of the golf course and River Walk of construction activities, access restrictions, and to direct users to secondary access points.
- The contractor must maintain access to the River Walk trail west of the bridge during construction via a detour route along Faulk Street.
- False work will be added for protection from any potential falling objects, in the immediate vicinity of the bridge, over the River Walk trail.
- The contractor must be required to closely coordinate the construction schedule with the SDDOT Project Engineer and Jason LaFayette (605.569.1752), City Administrator, City of Belle Fourche prior to the start of construction activities.

The Contractor is not permitted to stage equipment or materials within the Center of the Nation Golf Course or River Walk trail. 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.

**COMMITMENT T: SECTION 408 PERMIT**

The SDDOT has obtained a Section 408 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 408 Permit.

The Contractor will also be responsible for obtaining a Section 408 Permit amendment 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 USACE Works.

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