

# Planning & Engineering Office of Project Development

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February 14, 2025

#### ADDENDUM NO. 1

### RE: Item #3, February 19, 2025 Letting - P-PH-PT 0025(81)158, PCN 04EW, Clark County -Grading & Interim Surfacing

#### TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made a part of your proposal for the referenced project.

#### SPECIAL PROVISIONS: NO CHANGE

**SDEBS BID PROPOSAL:** The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.

#### Quantities for Bid Items were changed:

Bid Item 120E0500 "Option Borrow Excavation" changed from 138,020 to 155,250 CuYd Bid Item 632E2510 "Type 2 Object Marker Back to Back" changed from 232 to 94 Each

- **PLANS:** Please destroy sheets A1, A2, B2, B9, S2, S3, S4 & S5 and replace with the enclosed sheets, dated 2/13/25 & 2/14/25.
  - <u>Sheets A1 & B2:</u> Quantity for Bid Item 120E0500 "Option Borrow Excavation" changed from 138,020 to 155,250 CuYd.
  - <u>Sheets A2 & S2</u>: Quantity for Bid Item 632E2510 "Type 2 Object Marker Back to Back" changed from 232 to 94 Each.
  - **Sheet B9:** SALVAGED RIPRAP note was revised. The following sentence was removed: In the instance that any salvaged Riprap is not reused on the project, it will be salvaged for future highway use and hauled to the Department of Transportation's De Smet Maintenance Office as directed by the Engineer.
  - Sheet S2: Note placement was adjusted.
  - **Sheet S3:** Object Marker Table was added & Note placement was adjusted.

<u>Sheets S4-S5</u>: Object Marker Table was removed. Pages are intentionally left blank.

Sincerely,

Sam Weisgram Engineering Supervisor

SW/cj

CC: Mark Peterson, Aberdeen Region Engineer Brad Letcher, Huron Area Engineer

# Section B – Grading

| BID ITEM<br>NUMBER | ITEM  | QUANTITY  | UNIT |
|--------------------|---|-----------|------|
| 009E0010           | Mobilization  | Lump Sum  | LS   |
| 009E3220           | Reestablish Right-of-Way and Property Corner                    | 128       | Each |
| 009E3225           | Reestablish Public Land Survey System Corner                    | 19        | Each |
| 009E3230           | Grade Staking   | 10.013    | Mile |
| 009E3245           | Final Cross Section Survey                                      | 10.013    | Mile |
| 009E3250           | Miscellaneous Staking   | 10.013    | Mile |
| 009E3280           | Slope Staking   | 10.013    | Mile |
| 009E3301           | Engineer Directed Surveying/Staking                             | 40.0      | Hour |
| 009E4300           | Construction Schedule, Category III                             | Lump Sum  | LS   |
| 009E4330           | Project Management, Category III                                | Lump Sum  | LS   |
| 100E0100           | Clearing  | Lump Sum  | LS   |
| 110E0600           | Remove Fence  | 30,941    | Ft   |
| 110E1050           | Remove Asphalt Concrete Approach Pavement                       | 1,051.9   | SqYd |
| 110E5451           | Salvage Riprap  | 14,798.6  | Ton  |
| 110E7040           | Remove Gate for Reset   | 4         | Each |
| 120E0010           | Unclassified Excavation   | 574,282   | CuYd |
| 120E0500           | Option Borrow Excavation  | 155,250   | CuYd |
| 120E0600           | Contractor Furnished Borrow Excavation                          | 65,558    | CuYd |
| 120E0900           | Contaminated Material Excavation                                | 100       | CuYd |
| 120E1000           | Muck Excavation   | 28,362    | CuYd |
| 120E2000           | Undercutting  | 139,548   | CuYd |
| 120E6100           | Water for Embankment  | 5,837.0   | MGal |
| 250E0020           | Incidental Work, Grading  | Lump Sum  | LS   |
| 260E6010           | Granular Material   | 120.0     | Ton  |
| * 270E0022         | Salvage Asphalt Mix Material                                    | 9,924.0   | Ton  |
| * 270E0040         | Salvage and Stockpile Asphalt Mix and Granular Base<br>Material | 9,357.2   | Ton  |
| 270E0040           | Salvage and Stockpile Asphalt Mix and Granular Base<br>Material | 160,416.8 | Ton  |
| * 270E0210         | Haul and Stockpile Granular Material                            | 9,357.2   | Ton  |
| * 270E0230         | Haul and Stockpile Asphalt Mix Material                         | 9,924.0   | Ton  |
| 421E0100           | Pipe Culvert Undercut   | 880       | CuYd |
| 450E0123           | 18" RCP Class 3, Furnish  | 142       | Ft   |
| 450E0130           | 18" RCP, Install  | 142       | Ft   |
| 450E0143           | 24" RCP Class 3, Furnish  | 2,370     | Ft   |
| 450E0150           | 24" RCP, Install  | 2,370     | Ft   |
| 450E0163           | 30" RCP Class 3, Furnish  | 636       | Ft   |
| 450E0170           | 30" RCP, Install  | 636       | Ft   |
| 450E0183           | 36" RCP Class 3, Furnish  | 480       | Ft   |
| 450E0190           | 36" RCP, Install  | 480       | Ft   |
| 450E0193           | 42" RCP Class 3, Furnish  | 496       | Ft   |
| 450E0200           | 42" RCP, Install  | 496       | Ft   |
| 450E0203           | 48" RCP Class 3, Furnish  | 194       | Ft   |
| 450E0210           | 48" RCP, Install  | 194       | Ft   |

# Section B – Grading (Continued)

| Ì |          |  |          |      |  |  |  |
|---|----------|--|----------|------|--|--|--|
|   | BID ITEM | ITEM   | QUANTITY | UNIT |  |  |  |
|   | 450E0213 | 54" RCP Class 3, Furnish                       | 414      | Ft   |  |  |  |
|   | 450E0220 | 54" RCP, Install                               | 414      | Ft   |  |  |  |
|   | 450E0223 | 60" RCP Class 3, Furnish                       | 80       | Ft   |  |  |  |
|   | 450E0230 | 60" RCP, Install                               | 80       | Ft   |  |  |  |
|   | 450E0243 | 72" RCP Class 3, Furnish                       | 80       | Ft   |  |  |  |
|   | 450E0250 | 72" RCP, Install                               | 80       | Ft   |  |  |  |
|   | 450E2028 | 36" RCP Flared End, Furnish                    | 10       | Each |  |  |  |
|   | 450E2029 | 36" RCP Flared End, Install                    | 10       | Each |  |  |  |
|   | 450E2032 | 42" RCP Flared End, Furnish                    | 10       | Each |  |  |  |
|   | 450E2033 | 42" RCP Flared End, Install                    | 10       | Each |  |  |  |
|   | 450E2036 | 48" RCP Flared End, Furnish                    | 4        | Each |  |  |  |
|   | 450E2037 | 48" RCP Flared End, Install                    | 4        | Each |  |  |  |
|   | 450E2040 | 54" RCP Flared End, Furnish                    | 10       | Each |  |  |  |
|   | 450E2041 | 54" RCP Flared End, Install                    | 10       | Each |  |  |  |
|   | 450E2044 | 60" RCP Flared End, Furnish                    | 2        | Each |  |  |  |
|   | 450E2045 | 60" RCP Flared End, Install                    | 2        | Each |  |  |  |
|   | 450E2052 | 72" RCP Flared End, Furnish                    | 2        | Each |  |  |  |
|   | 450E2053 | 72" RCP Flared End, Install                    | 2        | Each |  |  |  |
|   | 450E2200 | 24" RCP Sloped End, Furnish                    | 42       | Each |  |  |  |
|   | 450E2201 | 24" RCP Sloped End, Install                    | 42       | Each |  |  |  |
|   | 450E2204 | 30" RCP Sloped End, Furnish                    | 16       | Each |  |  |  |
|   | 450E2205 | 30" RCP Sloped End, Install                    | 16       | Each |  |  |  |
|   | 450E2304 | 18" RCP Safety End, Furnish                    | 4        | Each |  |  |  |
|   | 450E2307 | 18" RCP Safety End, Install                    | 4        | Each |  |  |  |
|   | 450E2308 | 24" RCP Safety End, Furnish                    | 14       | Each |  |  |  |
|   | 450E2311 | 24" RCP Safety End, Install                    | 14       | Each |  |  |  |
|   | 450E3023 | 30" RCP Arch Class 3, Furnish                  | 128      | Ft   |  |  |  |
|   | 450E3030 | 30" RCP Arch, Install                          | 128      | Ft   |  |  |  |
|   | 450E4604 | 30" RCP Arch Sloped End, Furnish               | 4        | Each |  |  |  |
|   | 450E4605 | 30" RCP Arch Sloped End, Install               | 4        | Each |  |  |  |
|   | 450E4759 | 18" CMP 16 Gauge, Furnish                      | 1,030    | Ft   |  |  |  |
|   | 450E4760 | 18" CMP, Install                               | 1,030    | Ft   |  |  |  |
|   | 450E4769 | 24" CMP 16 Gauge, Furnish                      | 414      | Ft   |  |  |  |
|   | 450E4770 | 24" CMP, Install                               | 414      | Ft   |  |  |  |
|   | 450E5406 | 18" CMP Safety End, Furnish                    | 26       | Each |  |  |  |
|   | 450E5407 | 18" CMP Safety End, Install                    | 26       | Each |  |  |  |
|   | 450E5410 | 24" CMP Safety End, Furnish                    | 12       | Each |  |  |  |
|   | 450E5411 | 24" CMP Safety End, Install                    | 12       | Each |  |  |  |
|   | 451E6080 | Adjust Water Valve Box                         | 1        | Each |  |  |  |
| ļ | 451E7300 | Repair Drain Tile                              | 500      | Ft   |  |  |  |
| ļ | 464E0100 | Controlled Density Fill                        | 153.4    | CuYd |  |  |  |
| ļ | 560E5003 | 5'x7' Reinforced Concrete Cattle Pass, Furnish | 84.0     | Ft   |  |  |  |
|   | 560E5004 | 5'x7' Reinforced Concrete Cattle Pass, Install | 84.0     | Ft   |  |  |  |
|   |          |  |          |      |  |  |  |

|                    |                                 | STATE OF        |                          | DJECT                    | SHEET                      | TOTAL<br>SHEETS |
|--------------------|---------------------------------|-----------------|--------------------------|--------------------------|----------------------------|-----------------|
|                    |                                 | SOUTH<br>DAKOTA | P-PH-PT 0                | P-PH-PT 0025(81)158      |                            | A6              |
| ectio              | on B – Gradin                   | g (Co           | e: 02-14-2025<br>ntinued | Revision Date<br>REVISED | e: 02-14-20<br>D: 02-14-20 |                 |
| BID ITEM<br>NUMBER | ITE                             | EM              |                          | QUANTITY                 | UNIT                       |                 |
| 560E5053           | 5'x7' Reinforced Concrete Cattl | le Pass End §   | Section, Furnish         | 2                        | Each                       |                 |
| 560E5054           | 5'x7' Reinforced Concrete Cattl | le Pass End §   | Section, Install         | 2                        | Each                       |                 |
| 600E0300           | Type III Field Laboratory       |                 |                          | 1                        | Each                       |                 |
| 620E0020           | Type 2 Right-of-Way Fence       |                 |                          | 30,354                   | Ft                         |                 |
| 620E0040           | Type 4 Right-of-Way Fence       |                 |                          | 2,604                    | Ft                         |                 |
| 620E0515           | Type 1A Temporary Fence         |                 |                          | 2,500                    | Ft                         |                 |
| 620E0520           | Type 2 Temporary Fence          |                 |                          | 17,065                   | Ft                         |                 |
| 620E0530           | Type 3 Temporary Fence          |                 |                          | 1,272                    | Ft                         |                 |
| 620E1020           | 2 Post Panel                    |                 |                          | 73                       | Each                       |                 |
| 620E1030           | 3 Post Panel                    |                 |                          | 40                       | Each                       |                 |
| 620E2012           | 12' Tubular Gate                |                 |                          | 2                        | Each                       | 7               |
| 620E2100           | Reset Gate                      |                 |                          | 4                        | Each                       | 7               |
| 700E0110           | Class A Riprap                  |                 |                          | 11,015.0                 | Ton                        | 7               |
| 700E2010           | Place Riprap                    |                 |                          | 14,798.6                 | Ton                        | Γ               |
| 720E1010           | PVC Coated Bank and Channe      | I Protection C  | Jabion                   | 102.5                    | CuYd                       |                 |
| 831E0110           | Type B Drainage Fabric          |                 |                          | 18,354                   | SqYd                       |                 |
| 900E0010           | Refurbish Single Mailbox        |                 |                          | 6                        | Each                       |                 |
| 900E0012           | Refurbish Double Mailbox        |                 |                          | 1                        | Each                       |                 |
| 900E1150           | Right of Way Marker             |                 |                          | 70                       | Each                       |                 |
|                    | A                               |                 |                          |                          |                            | _               |

### **SPECIFICATIONS**

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

| A1 to A2 | E |
|----------|---|
| A3 to A6 | I |

## **INDEX OF SHEETS**

Estimate of Quantities for Sections B, C, D, L, M, and S

Environmental Commitments

# Section C – Traffic Control

| BID ITEM<br>NUMBER | ITEM   | QUANTITY | UNIT |
|--------------------|--|----------|------|
| 632E2022           | 4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post | 71       | Each |
| 633E1200           | High Build Waterborne Pavement Marking Paint, White      | 900      | Gal  |
| 633E1205           | High Build Waterborne Pavement Marking Paint, Yellow     | 383      | Gal  |
| 634E0010           | Flagging   | 200.0    | Hour |
| 634E0020           | Pilot Car  | 50.0     | Hour |
| 634E0110           | Traffic Control Signs                                    | 1,288.2  | SqFt |
| 634E0120           | Traffic Control, Miscellaneous                           | Lump Sum | LS   |
| 634E0275           | Type 3 Barricade   | 52       | Each |
| 634E1002           | Detour and Restriction Signing                           | 4,201.2  | SqFt |

# Section F – Surfacing

| BID ITEM<br>NUMBER | ITEM                                 | QUANTITY  | UNIT |
|--------------------|--------------------------------------|-----------|------|
| 120E6200           | Water for Granular Material          | 1,930.3   | MGal |
| 205E0010           | Dust Control Chloride                | 33,792    | Lb   |
| 260E1030           | Base Course, Salvaged                | 160,281.4 | Ton  |
| 260E3010           | Gravel Surfacing                     | 250.0     | Ton  |
| 260E3500           | Temporary Gravel Surfacing           | 400.0     | Ton  |
| 320E1200           | Asphalt Concrete Composite           | 3,200.0   | Ton  |
| 330E0010           | MC-70 Asphalt for Prime              | 301.6     | Ton  |
| 330E0300           | SS-1h or CSS-1h Asphalt for Fog Seal | 40.6      | Ton  |
| 330E1000           | Blotting Sand for Prime              | 752.2     | Ton  |
| 330E3000           | Sand for Fog Seal                    | 10.0      | Ton  |
| 360E0020           | AE150S Asphalt for Surface Treatment | 256.3     | Ton  |
| 360E1050           | Type 3 Cover Aggregate               | 3,441.2   | Ton  |

# Section D – Erosion Control

| BID ITEM<br>NUMBER | ITEM                                    | QUANTITY | UNIT |
|--------------------|---|----------|------|
| 110E1690           | Remove Sediment                         | 1.2      | CuYd |
| 110E1693           | Remove Erosion Control Wattle           | 135      | Ft   |
| 110E1700           | Remove Silt Fence                       | 6,382    | Ft   |
| 230E0010           | Placing Topsoil                         | 115,875  | CuYd |
| 730E0100           | Cover Crop Seeding                      | 110.0    | Bu   |
| 730E0208           | Type E Permanent Seed Mixture           | 91       | Lb   |
| 730E0212           | Type G Permanent Seed Mixture           | 3,088    | Lb   |
| 731E0200           | Fertilizing                             | 61.10    | Ton  |
| 732E0100           | Mulching                                | 196.2    | Ton  |
| 732E0500           | Fiber Reinforced Matrix                 | 72.1     | Ton  |
| 734E0103           | Type 3 Erosion Control Blanket          | 49,356   | SqYd |
| 734E0154           | 12" Diameter Erosion Control Wattle     | 540      | Ft   |
| 734E0165           | Remove and Reset Erosion Control Wattle | 135      | Ft   |
| 734E0325           | Surface Roughening                      | 52.6     | Acre |
| 734E0510           | Shaping for Erosion Control Blanket     | 27,614   | Ft   |
| 734E0602           | Low Flow Silt Fence                     | 21,465   | Ft   |
| 734E0604           | High Flow Silt Fence                    | 4,062    | Ft   |
| 734E0610           | Mucking Silt Fence                      | 1,772    | CuYd |
| 734E0620           | Repair Silt Fence                       | 6,382    | Ft   |
| 734E0630           | Floating Silt Curtain                   | 10,245   | Ft   |
| 900E1320           | Construction Entrance                   | 3        | Each |

# Section M – Pavement Marking

| BID ITEM | ITEM   | QUANTITY | UNIT |
|----------|--|----------|------|
| 633E1200 | High Build Waterborne Pavement Marking Paint, White  | 566      | Gal  |
| 633E1205 | High Build Waterborne Pavement Marking Paint, Yellow | 166      | Gal  |
| 633E1272 | High Build Waterborne Pavement Marking Paint, Arrow  | 6        | Each |

# Section S – Permanent Signing

| BID ITEM<br>NUMBER | ІТЕМ   | QUANTITY | UNIT |
|--------------------|--|----------|------|
| 110E0130           | Remove Traffic Sign  | 103      | Each |
| 110E0135           | Remove Delineator  | 88       | Each |
| 110E7150           | Remove Sign for Reset  | 1        | Each |
| 632E1320           | 2.0"x2.0" Perforated Tube Post                                     | 935.0    | Ft   |
| 632E1340           | 2.5"x2.5" Perforated Tube Post                                     | 50.0     | Ft   |
| 632E2022           | 4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post           | 91       | Each |
| 632E2028           | 4" Tubular White Delineator with 1.12 Lb/Ft Post                   | 22       | Each |
| 632E2510           | Type 2 Object Marker Back to Back                                  | 94       | Each |
| 632E3203           | Flat Aluminum Sign, Nonremovable Copy High Intensity               | 321.3    | SqFt |
| 632E3205           | Flat Aluminum Sign, Nonremovable Copy Super/Very High<br>Intensity | 198.5    | SqFt |
| 632E3500           | Reset Sign   | 1        | Each |

| STATE OF        |            | OJECT                      | SHEET                  | TOTAL<br>SHEETS |
|-----------------|------------|----------------------------|------------------------|-----------------|
| SOUTH<br>DAKOTA | P-PH-PT    | 0025(81)158                | A2                     | A6              |
| Plotting Date:  | 02-13-2025 | Revision Date:<br>REVISED: | 02-13-202<br>02-13-202 |                 |

### SECTION B ESTIMATE OF QUANTITIES

| BID ITEM<br>NUMBER | ITEM  | QUANTITY  | UNIT |
|--------------------|---|-----------|------|
| 009E0010           | Mobilization  | Lump Sum  | LS   |
| 009E3220           | Reestablish Right-of-Way and Property Corner                    | 128       | Each |
| 009E3225           | Reestablish Public Land Survey System Corner                    | 19        | Each |
| 009E3230           | Grade Staking   | 10.013    | Mile |
| 009E3245           | Final Cross Section Survey                                      | 10.013    | Mile |
| 009E3250           | Miscellaneous Staking   | 10.013    | Mile |
| 009E3280           | Slope Staking   | 10.013    | Mile |
| 009E3301           | Engineer Directed Surveying/Staking                             | 40.0      | Hour |
| 009E4300           | Construction Schedule, Category III                             | Lump Sum  | LS   |
| 009E4330           | Project Management, Category III                                | Lump Sum  | LS   |
| 100E0100           | Clearing  | Lump Sum  | LS   |
| 110E0600           | Remove Fence  | 30,941    | Ft   |
| 110E1050           | Remove Asphalt Concrete Approach Pavement                       | 1,051.9   | SqYd |
| 110E5451           | Salvage Riprap  | 14,798.6  | Ton  |
| 110E7040           | Remove Gate for Reset   | 4         | Each |
| 120E0010           | Unclassified Excavation   | 574,282   | CuYd |
| 120E0500           | Option Borrow Excavation  | 155,250   | CuYd |
| 120E0600           | Contractor Furnished Borrow Excavation                          | 65,558    | CuYd |
| 120E0900           | Contaminated Material Excavation                                | 100       | CuYd |
| 120E1000           | Muck Excavation   | 28,362    | CuYd |
| 120E2000           | Undercutting  | 139,548   | CuYd |
| 120E6100           | Water for Embankment  | 5,837.0   | MGal |
| 250E0020           | Incidental Work, Grading  | Lump Sum  | LS   |
| 260E6010           | Granular Material   | 120.0     | Ton  |
| * 270E0022         | Salvage Asphalt Mix Material                                    | 9,924.0   | Ton  |
| * 270E0040         | Salvage and Stockpile Asphalt Mix and Granular Base<br>Material | 9,357.2   | Ton  |
| 270E0040           | Salvage and Stockpile Asphalt Mix and Granular Base<br>Material | 160,416.8 | Ton  |
|                    | Haul and Stockpile Granular Material                            | 9,357.2   | Ton  |
| * 270E0230         | Haul and Stockpile Asphalt Mix Material                         | 9,924.0   | Ton  |
| 421E0100           | Pipe Culvert Undercut   | 880       | CuYd |
| 450E0123           | 18" RCP Class 3, Furnish  | 142       | Ft   |
| 450E0130           | 18" RCP, Install  | 142       | Ft   |
| 450E0143           | 24" RCP Class 3, Furnish  | 2,370     | Ft   |
| 450E0150           | 24" RCP, Install  | 2,370     | Ft   |
| 450E0163           | 30" RCP Class 3, Furnish  | 636       | Ft   |
| 450E0170           | 30" RCP, Install  | 636       | Ft   |
| 450E0183           | 36" RCP Class 3, Furnish  | 480       | Ft   |
| 450E0190           | 36" RCP, Install  | 480       | Ft   |
| 450E0193           | 42" RCP Class 3, Furnish  | 496       | Ft   |
| 450E0200           | 42" RCP, Install  | 496       | Ft   |
| 450E0203           | 48" RCP Class 3, Furnish  | 194       | Ft   |
| 450E0210           | 48" RCP, Install  | 194       | Ft   |

### SECTION B ESTIMATE OF QUANTITIES (Continued)

| BID ITEM | ITEM   | QUANTITY | UNIT |
|----------|--|----------|------|
| 450E0213 | 54" RCP Class 3, Furnish                       | 414      | Ft   |
| 450E0220 | 54" RCP, Install                               | 414      | Ft   |
| 450E0223 | 60" RCP Class 3, Furnish                       | 80       | Ft   |
| 450E0230 | 60" RCP, Install                               | 80       | Ft   |
| 450E0243 | 72" RCP Class 3, Furnish                       | 80       | Ft   |
| 450E0250 | 72" RCP, Install                               | 80       | Ft   |
| 450E2028 | 36" RCP Flared End, Furnish                    | 10       | Each |
| 450E2029 | 36" RCP Flared End, Install                    | 10       | Each |
| 450E2032 | 42" RCP Flared End, Furnish                    | 10       | Each |
| 450E2033 | 42" RCP Flared End, Install                    | 10       | Each |
| 450E2036 | 48" RCP Flared End, Furnish                    | 4        | Each |
| 450E2037 | 48" RCP Flared End, Install                    | 4        | Each |
| 450E2040 | 54" RCP Flared End, Furnish                    | 10       | Each |
| 450E2041 | 54" RCP Flared End, Install                    | 10       | Each |
| 450E2044 | 60" RCP Flared End, Furnish                    | 2        | Each |
| 450E2045 | 60" RCP Flared End, Install                    | 2        | Each |
| 450E2052 | 72" RCP Flared End, Furnish                    | 2        | Each |
| 450E2053 | 72" RCP Flared End, Install                    | 2        | Each |
| 450E2200 | 24" RCP Sloped End, Furnish                    | 42       | Each |
| 450E2201 | 24" RCP Sloped End, Install                    | 42       | Each |
| 450E2204 | 30" RCP Sloped End, Furnish                    | 16       | Each |
| 450E2205 | 30" RCP Sloped End, Install                    | 16       | Each |
| 450E2304 | 18" RCP Safety End, Furnish                    | 4        | Each |
| 450E2307 | 18" RCP Safety End, Install                    | 4        | Each |
| 450E2308 | 24" RCP Safety End, Furnish                    | 14       | Each |
| 450E2311 | 24" RCP Safety End, Install                    | 14       | Each |
| 450E3023 | 30" RCP Arch Class 3, Furnish                  | 128      | Ft   |
| 450E3030 | 30" RCP Arch, Install                          | 128      | Ft   |
| 450E4604 | 30" RCP Arch Sloped End, Furnish               | 4        | Each |
| 450E4605 | 30" RCP Arch Sloped End, Install               | 4        | Each |
| 450E4759 | 18" CMP 16 Gauge, Furnish                      | 1,030    | Ft   |
| 450E4760 | 18" CMP, Install                               | 1,030    | Ft   |
| 450E4769 | 24" CMP 16 Gauge, Furnish                      | 414      | Ft   |
| 450E4770 | 24" CMP, Install                               | 414      | Ft   |
| 450E5406 | 18" CMP Safety End, Furnish                    | 26       | Each |
| 450E5407 | 18" CMP Safety End, Install                    | 26       | Each |
| 450E5410 | 24" CMP Safety End, Furnish                    | 12       | Each |
| 450E5411 | 24" CMP Safety End, Install                    | 12       | Each |
| 451E6080 | Adjust Water Valve Box                         | 1        | Each |
| 451E7300 | Repair Drain Tile                              | 500      | Ft   |
| 464E0100 | Controlled Density Fill                        | 153.4    | CuYd |
| 560E5003 | 5'x7' Reinforced Concrete Cattle Pass, Furnish | 84.0     | Ft   |
| 560E5004 | 5'x7' Reinforced Concrete Cattle Pass, Install | 84.0     | Ft   |
|          | ,  | 20       |      |

### SECTION B ESTIMATE OF QUANTITIES (Continued)

| BID ITEM<br>NUMBER | ІТЕМ   | QUANTITY | UNIT |
|--------------------|--|----------|------|
| 560E5053           | 5'x7' Reinforced Concrete Cattle Pass End Section, Furnish | 2        | Each |
| 560E5054           | 5'x7' Reinforced Concrete Cattle Pass End Section, Install | 2        | Each |
| 600E0300           | Type III Field Laboratory                                  | 1        | Each |
| 620E0020           | Type 2 Right-of-Way Fence                                  | 30,354   | Ft   |
| 620E0040           | Type 4 Right-of-Way Fence                                  | 2,604    | Ft   |
| 620E0515           | Type 1A Temporary Fence                                    | 2,500    | Ft   |
| 620E0520           | Type 2 Temporary Fence                                     | 17,065   | Ft   |
| 620E0530           | Type 3 Temporary Fence                                     | 1,272    | Ft   |
| 620E1020           | 2 Post Panel   | 73       | Each |
| 620E1030           | 3 Post Panel   | 40       | Each |
| 620E2012           | 12' Tubular Gate   | 2        | Each |
| 620E2100           | Reset Gate   | 4        | Each |
| 700E0110           | Class A Riprap   | 11,015.0 | Ton  |
| 700E2010           | Place Riprap   | 14,798.6 | Ton  |
| 720E1010           | PVC Coated Bank and Channel Protection Gabion              | 102.5    | CuYd |
| 831E0110           | Type B Drainage Fabric                                     | 18,354   | SqYd |
| 900E0010           | Refurbish Single Mailbox                                   | 6        | Each |
| 900E0012           | Refurbish Double Mailbox                                   | 1        | Each |
| 900E1150           | Right of Way Marker  | 70       | Each |

| 0011711         | TOTAL<br>SHEETS |
|-----------------|-----------------|
| SOUTH<br>DAKOTA | B88             |

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#### SALVAGED RIPRAP

All salvaged Riprap noted in the plans is intended to be reused on the project. The Riprap to be salvaged is a mixture of Class A and B sizes. Care will be taken not to damage the structural properties of the riprap during salvaging and transporting. All broken concrete and materials not salvaged will be disposed of in accordance with the Specifications. All costs for salvaging and stockpiling or transporting the riprap will be incidental to the contract unit price for "Salvage Riprap". Plans quantity will be the basis of payment for the "Salvage Riprap" bid item. It is estimated that 9,866 CuYd (14,798.6 Ton) of Riprap will be salvaged on the project. Before preparing his/her bid, the Contractor will make a visual inspection of the project to verify the extent of the work and material involved.

#### PLACING RIPRAP

Contractor operations for placing riprap as noted in the plans will follow Section 700 of the Specifications. The Contractor will reuse salvaged riprap from the project for placing at locations noted in the plans. The Contractor will furnish the quantity of riprap necessary to complete placement that is beyond what is salvaged. All costs for placing the salvaged riprap will be incidental to the contract unit price for "Place Riprap". All contractor furnished riprap will be weighed and measured for payment based on the actual quantity that is installed on the project, and all costs for placing will be incidental to the contract unit price for "Class A Riprap". It is estimated that 14798.6 Ton of salvaged riprap will be used on the project. It is estimated that 11,015 Tons of Class A Riprap will be furnished and placed by the Contractor. It is estimated that 18,036 SqYd of Type B Drainage Fabric will be placed under the salvaged and furnished riprap. Before preparing his/her bid, the Contractor will make a visual inspection of the project to verify the extent of the work and material involved.

#### TABLE OF SALVAGE RIPRAP, RIPRAP, AND DRAINAGE FABRIC

| Station | to | Station | L/R          | Salvage &<br>Place<br>Riprap<br>(Ton) | Class A<br>Riprap<br>(Ton) | Type B<br>Drainage<br>Fabric<br>(SqYd) |
|---------|----|---------|--------------|---------------------------------------|----------------------------|--|
| 6+07*   |    |         | R            | 23.6                                  |                            | 36                                     |
| 132+50  |    | 141+50  | L            | 1500                                  | 1300                       | 2000                                   |
| 132+50  |    | 141+50  | R            | 1500                                  | 1300                       | 2000                                   |
| 159+75  |    | 178+00  | L            | 3000                                  | 2840                       | 4050                                   |
| 157+75  |    | 178+30  | R            | 3450                                  | 3130                       | 4550                                   |
| 324+50  |    | 340+50  | L            | 3450                                  | 1670                       | 3550                                   |
| 331+30  |    | 339+60  | R            | 1875                                  | 775                        | 1850                                   |
|         |    |         | <b>-</b> · · | 4 4 7 9 9 9                           | 44045                      | 40000                                  |

Totals: 14798.6 11015 18036 \*Savaged Riprap at STA 6+07 will be placed at a different location on the project.

#### **CORRUGATED METAL PIPE**

Corrugated metal pipes will have 2  $\frac{2}{3}$ -inch x  $\frac{1}{2}$ -inch corrugations for 42-inch and smaller round pipe and 48-inch and smaller arch pipe unless otherwise stated in the plans. Corrugated metal pipes will have 3-inch x 1-inch or 5-inch x 1-inch corrugations for 48-inch and larger round pipe and 54-inch and larger arch pipe unless otherwise stated in the plans.

The gauge of the corrugated metal ends will match the thickest gauge of corrugated metal pipe it is connected to.

#### **PIPE FOR APPROACHES**

Class 2 reinforced concrete pipe, high density polyethylene pipe, polypropylene pipe (will be in conformance with AASHTO M330), or steel reinforced polyethylene pipe may be substituted for corrugated metal pipe at approaches at no additional cost to the State.

If corrugated metal pipes are provided, the pipes will be as specified in the CORRUGATED METAL PIPE note.

If high density polyethylene pipe, polypropylene pipe (will be in conformance with AASHTO M330), or steel reinforced polyethylene pipe are provided, then the end sections will be metal, be compatible, and conform to the type of end section as shown in the plans.

#### CONTROLLED DENSITY FILL FOR PIPE

Controlled density fill will be in conformance with Section 464 of the Specifications.

The controlled density fill will be placed between the pipes from the base of pipe elevation to the haunch of the pipes and extend to the end of the end section.

Controlled density fill between metal pipes will require the pipes to be anchored to resist floating. Anchoring methods will be determined by the Contractor and approved by the Engineer. Payment for anchoring the pipes will be incidental to the pipe installation contract item.

#### TABLE OF CONTROLLED DENSITY FILL FOR PIPE

| Station |        | Quantity<br>(CuYd) |
|---------|--------|--------------------|
| 11+87 R |        | 9.2                |
| 19+20   |        | 3.6                |
| 53+33 R |        | 4.5                |
| 108+38  |        | 5.1                |
| 171+20  |        | 28.7               |
| 482+67  | _      | 102.3              |
|         | Total: | 153.4              |

#### PIPE COVER

The earthen subgrade cover for some pipe installations is less than one foot. The Contractor will take the necessary precautions to ensure the structural properties of the pipes are not damaged after installation and prior to the placement of final surfacing. Any additional costs for preventing damage to these pipes will be incidental to the contract unit price per foot for the corresponding pipe installation contract item.

#### TABLE OF PVC COATED BANK AND CHANNEL PROTECTION GABIONS AND DRAINAGE FABRIC

| Station |
|---------|
| 6+07    |
| 11+54   |
| 52+92   |
| 96+86   |
| 118+42  |
| 186+97  |
| 318+37  |
| 380+30  |
| 396+63  |
| 451+76  |
| 464+62  |
| 476+06  |
| 497+89  |
|         |

| STATE OF        | PROJECT            |          | SHEET        | TOTAL<br>SHEETS |
|-----------------|--------------------|----------|--------------|-----------------|
| SOUTH<br>DAKOTA | P-PH-PT 0025(81)1  | 58       | B9           | B88             |
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| L/R     | PVC Coated Bank<br>and Channel<br>Protection Gabion | Type B<br>Drainage<br>Fabric |
|---------|---|------------------------------|
|         | (CuYd)  | (SqYd)                       |
| R       | 21.5  | 57                           |
| R       | 18.0  | 57                           |
| R       | 9.0   | 30                           |
| R       | 4.5   | 15                           |
| R       | 4.5   | 15                           |
| L       | 6.0   | 19                           |
| L       | 6.0   | 19                           |
| R       | 4.5   | 15                           |
| R       | 6.0   | 19                           |
| L       | 6.0   | 19                           |
| L       | 6.0   | 19                           |
| L       | 6.0   | 19                           |
| L _     | 4.5   | 15                           |
| Totals: | 102.5   | 318                          |



#### SECTION S – ESTIMATE OF QUANTITIES – PCN 04EW

| BID ITEM | ITEM   | QUANTITY | UNIT |
|----------|--|----------|------|
| 110E0130 | Remove Traffic Sign  | 103      | Each |
| 110E0135 | Remove Delineator  | 88       | Each |
| 110E7150 | Remove Sign for Reset  | 1        | Each |
| 632E1320 | 2.0"x2.0" Perforated Tube Post                                     | 935.0    | Ft   |
| 632E1340 | 2.5"x2.5" Perforated Tube Post                                     | 50.0     | Ft   |
| 632E2022 | 4"x4" White Delineator Back to Back with 1.12 Lb/Ft Post           | 91       | Each |
| 632E2028 | 4" Tubular White Delineator with 1.12 Lb/Ft Post                   | 22       | Each |
| 632E2510 | Type 2 Object Marker Back to Back                                  | 94       | Each |
| 632E3203 | Flat Aluminum Sign, Nonremovable Copy High Intensity               | 321.3    | SqFt |
| 632E3205 | Flat Aluminum Sign, Nonremovable Copy Super/Very High<br>Intensity | 198.5    | SqFt |
| 632E3500 | Reset Sign   | 1        | Each |

#### **GENERAL PERMANENT SIGNING**

New sign installations will be staked in the field by the Contractor and checked by the Engineer. The Contractor will give the Engineer a minimum of one week to check staked locations prior to signpost installation. Lateral offset of signs will be as shown in the plans or as directed by the Engineer.

The Contractor will be responsible for contacting South Dakota One Call to locate the utilities at the staked sign installation locations.

When signs are mounted in an assembly, they will be 1-2 inches apart vertically and horizontally.

The height of the post must not exceed the minimum height needed by more than 0.5 feet. Any portion that extends above the sign will be cut off. No separate payment will be made for cutting the post or for that length cut off.

Aluminum U-Channel stiffeners will be used on all signs 36 inches or greater in width and will conform to ASTM B221 Alloy 6063-T6 or 6061-T6. The U-Channel will be 2 inches in width and free of holes. The U-Channel stiffeners will also be used to connect various signs together so that an entire sign assembly can be erected on a single installation. Stiffeners may be fastened to signs by use of 1/4-inch diameter drive rivets.

The Contractor will use 3/8-inch diameter rust proof machine sign bolts, flat metal washers, neoprene washers (against the sign sheeting), lock washers, and nuts to fasten the sign to the channel aluminum and posts. A minimum of two bolts will extend through each post.

Prior to ordering signs, the Contractor will verify dimensions, background, border, and legend of the signs.

Prior to use, the Contractor will provide documentation for the sign support devices showing they meet the applicable NCHRP 350 or MASH requirements.

#### REMOVE TRAFFIC SIGN

Existing signs that are shown as being removed in the Permanent Signing Table will become the property of the Contractor. Existing signposts and bases will be removed in their entirety. All existing signs, posts, and/or hardware removed will not be reused. Holes remaining from the removal of wood posts will be backfilled and compacted with material placed in layers not to exceed 6 inches in depth.

All costs associated with the removal of existing signs, posts, hardware, and backfilled holes will be incidental to the contract unit price per each for "Remove Traffic Sign". Quantities will be per assembly at the contract unit price per each.

#### **NEW PERMANENT SIGNING**

All signs will be manufactured in accordance with the sheeting manufacturer's recommendations utilizing a matched component system, including inks, electronic cuttable films, and protective overlay films.

All Flat Aluminum Signs, Nonremovable Copy High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type IV. All Flat Aluminum Signs, Nonremovable Copy Super/Very High Intensity will have sheeting in conformance with the requirements of ASTM D4956 Type XI.

All costs associated with furnishing and installing the new permanent signs, and with furnishing and installing stiffeners and hardware will be incidental to the contract unit price per square foot for "Flat Aluminum Sign, Nonremovable Copy High Intensity" or "Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity".

#### **REMOVE SIGN FOR RESET AND RESET SIGN**

Signs that are scheduled for reset will be dismantled and reassembled to the extent needed by the Contractor to properly reset the sign. Signs will be handled with care so that the existing signs, posts, and bases are not damaged during the relocation process. The Contractor will replace and pay for any reset signs damaged in their care. The Contractor will remove and dispose of any existing posts for all reset signs that require use of new posts as shown in the Table of Permanent Signing.

All costs for removing, dismantling, and disposing of any existing posts will be incidental to the contract unit price per each for "Remove Sign for Reset".

All costs for resetting the existing signs will be incidental to the contract unit price per each for "Reset Sign". All quantities for Remove Sign for Reset and Reset Sign will be per assembly at the contract unit price per each.

Any 911 Emergency Number signs within the project work limits will not be stockpiled but temporarily repositioned at a location outside the work limits but within the immediate proximity of the existing location. To complete the project sign work, the 911 Emergency Number signs will be permanently installed at their original locations, or as near as practicable where entrances have been reconfigured by the project. The existing supports will be reused. Cost for removing, temporarily repositioning, and permanently resetting 911 Emergency Number signs will be included in the contract unit price per each for "Remove Sign for Reset" and "Reset Sign".

### Revised: 2/12/2

### **DIGITALLY PRINTED SIGNS**

Digitally printed signs will be allowed on this project. If the Contractor elects to provide digitally printed signs, such signs will adhere to the following specifications.

### PROTECTIVE OVERLAY FILM

Table 1.

#### Table 1: Retroreflective Fil

| ASTM D4956 | Full Sign        | Sheeting         |
|------------|------------------|------------------|
| Туре       | Replacement Term | Replacement Term |
|            | (years)          | (years)          |
| 1          | 0                | 7                |
| Ш          | 7                | 10               |
| IV         | 7                | 10               |
| VIII       | 7                | 10               |
| IX         | 7                | 12               |
| XI         | 7                | 12               |

#### FABRICATION

plans.

Finished signs will be free of ragged edges and must be supplied clean and free of scratches, grease, oil, lubricants or other contaminants. Minor blemishes (dirt speck, dust, etc.) may settle on the fresh ink surface or become entrapped between the sheeting surface and transparent overlay film due to static charge within the sign shop environment. Any blemish must be minor and not interfere with the communication of the sign message to the motorist. The blemish must not be visible to the naked eye when viewed from 30 feet or greater.

After application of the retroreflective sheeting, sign blanks will be stacked and packaged face to face, back to back, and protected in accordance with the sheeting manufacturer's recommendations. Finished signs will be securely packaged to prevent damage during transit or storage according to the sheeting manufacturer's recommendations.

### TRAFFIC SIGN PERFORMANCE WARRANTY PROVISIONS

Based on the ASTM Type of sheeting specified, traffic control signs will be warranted for the duration shown in Table 1. Full product terms and conditions are as established by each sheeting manufacturer and may contain certain limitations based on sheeting and ink colors, and geographic exposure of the sign. A copy of the warranty document with complete details of terms and conditions will be supplied if requested by the Engineer.

| 25 MD   | STATE OF        | PROJECT             | SHEET | TOTAL<br>SHEETS |
|---------|-----------------|---------------------|-------|-----------------|
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Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlaminate will comply with the retroreflective sheeting manufacturer's recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in

| lm | Minimum | Durability | Requirements |
|----|---------|------------|--------------|
|    |         |            |              |

Retroreflective sheeting will be applied to a properly cleaned and prepared aluminum sign blank in accordance with the retroreflective sheeting manufacturer's recommendations. Sign legend will be applied using digital print technologies and systems in accordance with the retroreflective sheeting manufacturer's recommendations and the requirements of these

#### **DIGITALLY PRINTED SIGNS (CONTINUED)**

#### CERTIFIED DIGITAL SIGN FABRICATOR

Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

#### DATE TAGGING SIGNS WITH PERTINENT INFORMATION

All digitally printed signs are required to be date-tagged with the following 2 components:

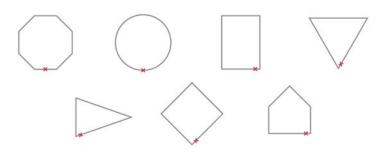
1. Date tags on the back of signs

Tags will have the following information and be fabricated with material and printing system that are as durable as the warranted sign.

- Name of Sign Fabricator
- Date the sign was fabricated (month and year)
- Process that was used for sign fabrication (digitally printed)
- Supplier of sheeting that was used for fabricating the sign.

#### 2. Border date

The month and year (mm/yyyy) of sign fabrication will be printed in the border of the sign in 3/8" sans serif font. Border date will be printed with the same warranted printed system as the sign face. The date should be printed in the locations indicated below.



#### SQUARE TUBE ANCHOR SLEEVE

The Contractor will furnish and install new 2.5" x 2.5" x 18", 12 Gauge square tube anchor sleeve or equivalent components as approved by the Engineer for 2.0" x 2.0" perforated tube posts. A 2.25" x 2.25" x 4', 12 Gauge perforated tube post will be used as the anchor post for installation with the square tube anchor sleeve.

#### SQUARE TUBE POST SLEEVE

All 2.5" x 2.5", 10 Gauge perforated tube post will be sleeved with a 2-3/16" x 2-3/16" x 4', 10 Gauge perforated tube post.

#### WINGED SLIP BASE ANCHOR

The Contractor will furnish and install new winged slip base anchors for 2.5" x 2.5" perforated tube posts as required in the Permanent Signing Table. Winged slip base anchors will be installed using the direct drive method. Winged slip base anchors will consist of a slip base (upper), a 48-inch long winged anchor (lower), and a hardware kit.

#### **TYPE 2 OBJECT MARKERS**

All costs associated with the removal of object markers including posts and hardware and the installation of the new back-to-back object markers will be incidental to the contract unit price per each for "type 2 object marker back-to-back".

#### DELINEATION

Delineation installation and spacing will be done according to Standard Plates 632.42, 632.44, and 632.46.

In accordance to Standard Plate 632.44, 4 tubular white delineators will be installed at each radius of SD 20, and 3 white tubular delineators will be installed at each radius of 155 Street.

Approaches for the junction of SD20 and SD25 will have 3 white delineators each.

Per the discretion of the Engineer, 79 delineators will be installed from Station 320+44 to Station 530+87.

#### MILEAGE REFERENCE MARKERS

SDDOT will be notified to do Mileage Reference Markers (MRMs) locates prior to project completion by calling the Aberdeen Region Traffic Engineer at (605)626-2245. Payment for this work will be incidental to the various signing contract items.

#### **NO PASSING ZONE SIGNS**

SDDOT will be notified to contact the Aberdeen Region Traffic Engineer to do NO PASSING ZONE sign locates a minimum of the 3 weeks prior to project completion. Payment for this work will be incidental to the various signing contract items.

| Object Marker Table |                 |                     |
|---------------------|-----------------|---------------------|
| Station             | Marker Back-to- | Description         |
|                     | Back (Each)     | -                   |
| 6+07                | 4               | 2 Each Side of Road |
| 19+20               | 4               | 2 Each Side of Road |
| 39+59               | 2               | 1 Each Side of Road |
| 43+59               | 2               | 1 Each Side of Road |
| 64+59               | 2               | 1 Each Side of Road |
| 89+34               | 2               | 1 Each Side of Road |
| 96+86               | 2               | 1 Each Side of Road |
| 108+38              | 2               | 1 Each Side of Road |
| 114+68              | 2               | 1 Each Side of Road |
| 118+42              | 2               | 1 Each Side of Road |
| 138+35              | 4               | 2 Each Side of Road |
| 145+63              | 4               | 2 Each Side of Road |
| 171+20              | 4               | 2 Each Side of Road |
| 176+61              | 2               | 1 Each Side of Road |
| 186+97              | 2               | 1 Each Side of Road |
| 200+87              | 2               | 1 Each Side of Road |
| 219+21              | 2               | 1 Each Side of Road |
| 253+30              | 2               | 1 Each Side of Road |
| 271+06              | 2               | 1 Each Side of Road |
| 289+49              | 2               | 1 Each Side of Road |
| 299+09              | 2               | 1 Each Side of Road |
| 308+22              | 2               | 1 Each Side of Road |
| 318+37              | 2               | 1 Each Side of Road |
| 325+12              | 2               | 1 Each Side of Road |
| 335+94              | 2               | 1 Each Side of Road |
| 355+07              | 2               | 1 Each Side of Road |
| 364+16              | 2               | 1 Each Side of Road |
| 370+61              | 2               | 1 Each Side of Road |
| 373+62              | 2               | 1 Each Side of Road |
| 380+30              | 2               | 1 Each Side of Road |
| 396+63              | 2               | 1 Each Side of Road |
| 418+40              | 2               | 1 Each Side of Road |
| 438+85              | 2               | 1 Each Side of Road |
| 451+76              | 2               | 1 Each Side of Road |
| 464+62              | 2               | 1 Each Side of Road |
| 476+06              | 2               | 1 Each Side of Road |
| 482+67              | 4               | 2 Each Side of Road |
| 497+61              | 2               | 1 Each Side of Road |
| 506+64              | 2               | 1 Each Side of Road |
| 516+61              | 2               | 1 Each Side of Road |
| 525+62              | 2               | 1 Each Side of Road |
| Total               | 94              |                     |

PROJECT P-PH-PT 0025(81)158

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