

**Appendix D-1. Soil Associations within the Project Study Area for Codington and Grant Counties**

| <b>Soil Associations within the Project study area (Codington County)</b> |  |                      |                                  |                       |                 |
|---|--|----------------------|----------------------------------|-----------------------|-----------------|
| <b>MUSYM</b>  | <b>Soil Type</b>   | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>        | <b>Acreage</b>  |
| Z142B   | Barnes-Buse-Svea loams, coteau                                   | 1 to 6               | All areas are prime farmland     | Cropland              | 576.27          |
| Z171A   | Renshaw-Fordville loams, coteau                                  | 0 to 2               | Prime farmland if irrigated      | Cropland              | 386.36          |
| Z141B   | Barnes-Svea loams, coteau  | 1 to 6               | All areas are prime farmland     | Cropland              | 129.54          |
| Z142C   | Barnes-Buse-Svea loams, coteau                                   | 2 to 9               | Farmland of statewide importance | Cropland              | 123.72          |
| Z141A   | Barnes-Svea loams, coteau  | 0 to 2               | All areas are prime farmland     | Cropland              | 97.08           |
| Z143C   | Barnes-Buse loams, coteau  | 6 to 9               | Not prime farmland               | Cropland              | 89.49           |
| Z152A   | Lamoure silty clay loam, coteau, occasionally flooded            | 0 to 1               | Prime farmland if drained        | Cropland              | 81.74           |
| Z159A   | Divide loam, occasionally flooded                                | 0 to 2               | Prime farmland if drained        | Cropland              | 79.13           |
| Z116A   | McKranz-Hidewood, frequently flooded, silty clay loams           | 0 to 2               | Farmland of statewide importance | Cropland              | 61.56           |
| Z158A   | Marysland loam, occasionally flooded                             | 0 to 1               | Prime farmland if drained        | Range/<br>pastureland | 53.46           |
| Z172A   | Renshaw loam, coteau   | 0 to 2               | Prime farmland if irrigated      | Cropland              | 49.17           |
| Z173B   | Renshaw-Sioux complex  | 2 to 6               | Not prime farmland               | Cropland              | 48.85           |
| Z112A   | Vallers-Hamerly loams, coteau                                    | 0 to 2               | Farmland of statewide importance | Cropland              | 46.63           |
| Z150A   | Rauville silty clay loam, coteau, frequently flooded             | 0 to 1               | Not prime farmland               | Range/<br>pastureland | 40.30           |
| Z115A   | Hamerly-Badger complex, coteau                                   | 0 to 2               | Farmland of statewide importance | Cropland              | 36.02           |
| Z199B   | Vienna-Barnes-Forestville loams                                  | 1 to 6               | All areas are prime farmland     | Cropland              | 31.94           |
| Z198A   | Vienna-Forestville loams, coteau                                 | 0 to 2               | All areas are prime farmland     | Cropland              | 28.41           |
| Z145D   | Buse-Barnes loams, coteau, very stony                            | 2 to 15              | Not prime farmland               | Range/<br>pastureland | 26.00           |
| Z171B   | Renshaw-Fordville loams, coteau                                  | 2 to 6               | Prime farmland if irrigated      | Cropland              | 24.08           |
| Z114A   | Hamerly-Tonka complex, coteau                                    | 0 to 2               | Farmland of statewide importance | Cropland              | 22.35           |
| Z144E   | Buse-Barnes loams, coteau  | 9 to 20              | Not prime farmland               | Range/<br>pastureland | 13.97           |
| Z153A   | Lamoure-Rauville silty clay loams, channeled, frequently flooded | 0 to 2               | Not prime farmland               | Range/<br>pastureland | 8.82            |
| Z146F   | Buse-Lamoure, channeled, frequently flooded, complex             | 0 to 40              | Not prime farmland               | Range/<br>pastureland | 7.20            |
| Z101A   | Tonka silty clay loam  | 0 to 1               | Prime farmland if drained        | Cropland              | 6.03            |
| Z250A   | Rauville mucky silty clay loam, ponded, frequently flooded       | 0 to 1               | Not prime farmland               | Range/<br>pastureland | 4.25            |
| Z177  | Udorthents, coteau (gravel pits)                                 |                      | Not prime farmland               | Gravel pit            | 3.43            |
| Z161A   | Spottswood loam, occasionally flooded                            | 0 to 2               | All areas are prime farmland     | Cropland              | 3.35            |
| Z173C   | Renshaw-Sioux complex  | 6 to 9               | Not prime farmland               | Range/<br>pastureland | 2.93            |
| Z107A   | Parnell silty clay loam, coteau                                  | 0 to 1               | Not prime farmland               | Range/<br>pastureland | 2.84            |
| Z167A   | Renwash loam, rarely flooded                                     | 0 to 2               | Prime farmland if irrigated      | Cropland              | 2.82            |
| <b>Total</b>  |  |                      |                                  |                       | <b>2,087.71</b> |

**Soil Associations within the Project study area (Grant County)**

| <b>MUSYM</b> | <b>Soil Type</b>                             | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>        | <b>Acreage</b> |
|--------------|--|----------------------|----------------------------------|-----------------------|----------------|
| La           | LaDelle silt loam                            |                      | All areas are prime farmland     |                       | 1,840.59       |
| HcB          | Heimdal-Svea loams                           | 2 to 6               | All areas are prime farmland     |                       | 1,467.25       |
| J225B        | Forman-Aastad complex                        | 1 to 4               |                                  |                       | 1,420.98       |
| Pd           | Peever-Cavour complex                        |                      | Not prime farmland               |                       | 912.23         |
| FdB          | Forman-Aastad loams                          | 1 to 6               | All areas are prime farmland     |                       | 716.17         |
| PeB          | Peever clay loam                             | 2 to 6               | All areas are prime farmland     |                       | 640.49         |
| Db           | Castlewood silty clay                        |                      | Prime farmland if drained        |                       | 594.30         |
| HbC          | Heimdal-Sisseton loams                       | 6 to 9               | Farmland of statewide importance |                       | 554.98         |
| Z132B        | Forman-Buse-Aastad loams, coteau             | 1 to 6               | All areas are prime farmland     | Cropland              | 501.01         |
| Z132C        | Forman-Buse-Aastad loams, coteau             | 2 to 9               | Farmland of statewide importance | Cropland              | 500.56         |
| EaB          | Egeland sandy loam                           | 2 to 6               | All areas are prime farmland     |                       | 408.17         |
| Ph           | Playmoor silty clay loam                     |                      | Not prime farmland               |                       | 404.28         |
| Z132D        | Forman-Buse-Aastad loams, coteau             | 2 to 15              | Not prime farmland               | Cropland              | 400.67         |
| Lb           | LaDelle silt loam, channeled                 |                      | Not prime farmland               |                       | 377.18         |
| Z145F        | Buse-Barnes loams, coteau, very stony        | 9 to 40              | Not prime farmland               | Range/<br>pastureland | 349.02         |
| HcA          | Heimdal-Svea loams                           | 0 to 2               | All areas are prime farmland     |                       | 335.36         |
| BeF          | Buse-Forman loams                            | 25 to 40             | Not prime farmland               |                       | 332.64         |
| Z145D        | Buse-Barnes loams, coteau, very stony        | 2 to 15              | Not prime farmland               | Range/<br>pastureland | 315.70         |
| BfD          | Buse-Forman-Aastad loams                     | 4 to 15              | Not prime farmland               |                       | 311.31         |
| PeA          | Peever clay loam                             | 0 to 2               | All areas are prime farmland     |                       | 301.75         |
| EaA          | Egeland sandy loam                           | 0 to 2               | All areas are prime farmland     |                       | 282.24         |
| Z171A        | Renshaw-Fordville loams, coteau              | 0 to 2               | Prime farmland if irrigated      | Cropland              | 276.59         |
| ScD          | Sisseton-Heimdal loams                       | 9 to 15              | Not prime farmland               |                       | 274.01         |
| HaE          | Hattie clay loam                             | 15 to 40             | Not prime farmland               |                       | 271.10         |
| Bc           | Cubden silty clay loam                       | 0 to 2               | All areas are prime farmland     | Cropland              | 270.12         |
| SeA          | Swenoda fine sandy loam                      | 0 to 2               | All areas are prime farmland     |                       | 266.95         |
| PcB          | Peever clay loam, coteau                     | 2 to 6               | All areas are prime farmland     |                       | 258.21         |
| HaD          | Hattie clay loam                             | 9 to 15              | Not prime farmland               |                       | 254.01         |
| FdC          | Forman-Aastad loams                          | 3 to 9               | Farmland of statewide importance |                       | 247.23         |
| Ta           | Tonka silty clay loam                        | 0 to 1               | Prime farmland if drained        | Cropland              | 241.53         |
| PcC          | Peever clay loam                             | 6 to 9               | Farmland of statewide importance |                       | 212.70         |
| Pb           | Southam silty clay loam                      | 0 to 1               | Not prime farmland               | Wildlife<br>habitat   | 209.79         |
| RbA          | Renshaw loam                                 | 0 to 2               | Prime farmland if irrigated      |                       | 209.75         |
| Vc           | Vallers-Tonka complex                        |                      | Prime farmland if drained        |                       | 202.40         |
| Va           | Vallers clay loam                            | 0 to 2               | Prime farmland if drained        |                       | 200.37         |
| J217A        | Parnell silty clay loam, occasionally ponded | 0 to 1               | Not prime farmland               |                       | 176.67         |

**Soil Associations within the Project study area (Grant County)**

| <b>MUSYM</b> | <b>Soil Type</b>                               | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>        | <b>Acreage</b> |
|--------------|--|----------------------|----------------------------------|-----------------------|----------------|
| Z137F        | Buse-Forman loams, very stony                  | 15-40                | Not prime farmland               | Range/<br>pastureland | 174.18         |
| Z113A        | Vallers-Parnell complex, coteau                | 0 to 2               | Not prime farmland               | Range/<br>pastureland | 162.99         |
| Da           | Divide loam                                    |                      | All areas are prime farmland     |                       | 162.42         |
| MaE          | Maddock loamy fine sand                        | 6 to 25              | Not prime farmland               |                       | 150.83         |
| Po           | Poinsett-Waubay silty clay loams               | 0 to 2               | All areas are prime farmland     | Cropland              | 147.18         |
| J105A        | Arvilla sandy loam, Till Prairie               | 0 to 2               | Not prime farmland               |                       | 132.36         |
| Sd           | Svea loam                                      |                      | All areas are prime farmland     |                       | 126.71         |
| BbB          | Hokans-Svea complex                            | 1 to 4               | All areas are prime farmland     |                       | 122.90         |
| Lc           | Ludden silty clay                              |                      | Prime farmland if drained        |                       | 114.89         |
| FdD          | Forman-Aastad loams                            | 4 to 15              | Farmland of statewide importance |                       | 112.33         |
| W            | Water  |                      | Not prime farmland               |                       | 110.53         |
| J209C        | Forman-Buse complex, moderately eroded         | 6 to 12              | Farmland of statewide importance |                       | 97.63          |
| FbA          | Fordville loam                                 | 0 to 2               | All areas are prime farmland     |                       | 95.37          |
| Z175D        | Renshaw-Sioux complex, very stony              | 2 to 15              | Not prime farmland               | Range/<br>pastureland | 92.21          |
| BbD          | Barnes-Svea loams                              | 4 to 15              | Not prime farmland               |                       | 89.79          |
| FhE          | Forman-Buse extremely stony loams              | 9 to 40              | Not prime farmland               |                       | 78.44          |
| FgE          | Forman-Buse loams                              | 15 to 25             | Not prime farmland               |                       | 77.62          |
| FgC          | Forman-Buse loams                              | 6 to 9               | Farmland of statewide importance |                       | 67.04          |
| Z141B        | Barnes-Svea loams, coteau                      | 1 to 6               | All areas are prime farmland     | Cropland              | 65.55          |
| Z173B        | Renshaw-Sioux complex                          | 2 to 6               | Not prime farmland               | Cropland              | 63.23          |
| Ec           | Estelline silty clay loam                      |                      | All areas are prime farmland     |                       | 61.14          |
| HbB          | Esmond-Heimdal-Sisseton complex                | 2 to 6               | All areas are prime farmland     |                       | 54.28          |
| J49A         | Lakepark-Parnell, occasionally ponded, complex | 0 to 2               | Prime farmland if drained        |                       | 54.14          |
| Vb           | Vallers-Parnell complex                        |                      | Not prime farmland               |                       | 50.71          |
| Z107A        | Parnell silty clay loam, coteau                | 0 to 1               | Not prime farmland               | Range/<br>pastureland | 50.47          |
| RcD          | Renshaw-Sioux complex                          | 6 to 15              | Not prime farmland               |                       | 50.43          |
| ReA          | Rentill loam                                   | 0 to 2               | All areas are prime farmland     |                       | 43.82          |
| Z135D        | Forman-Buse loams, very stony                  | 2 to 15              | Not prime farmland               | Range<br>/pastureland | 43.38          |
| RbB          | Renshaw loam,                                  | 1 to 6               | Prime farmland if irrigated      |                       | 38.33          |
| Z140F        | Buse-Langhei complex, coteau                   | 15 to 40             | Not prime farmland               | Range/<br>pastureland | 37.79          |
| Oa           | Overly silty clay loam                         |                      | All areas are prime farmland     |                       | 33.70          |
| Pf           | Orthents, gravelly                             |                      | Not prime farmland               |                       | 33.36          |
| Pa           | Parnell silty clay loam                        |                      | Not prime farmland               |                       | 31.33          |
| BbC          | Barnes-Svea loams                              | 3 to 9               | Farmland of statewide importance |                       | 31.24          |
| SbE          | Sisseton loam                                  | 15 to 40             | Not prime farmland               |                       | 29.69          |

**Soil Associations within the Project study area (Grant County)**

| <b>MUSYM</b>                                   | <b>Soil Type</b>   | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>        | <b>Acreage</b>   |
|--|--|----------------------|----------------------------------|-----------------------|------------------|
| Z136F  | Buse-Langhei complex, very stony                                 | 9 to 40              | Not prime farmland               | Range/<br>pastureland | 28.88            |
| PcA  | Peever clay loam, coteau   | 0 to 2               | All areas are prime farmland     |                       | 27.59            |
| Mb   | Marysland loam   | 0 to 2               | Prime farmland if drained        |                       | 27.34            |
| Z150A  | Rauville silty clay loam, coteau, frequently flooded             | 0 to 1               | Not prime farmland               | Range/<br>pastureland | 26.57            |
| Aa   | Aastad-Flom complex  |                      | Prime farmland if drained        |                       | 26.31            |
| Z174D  | Sioux-Renshaw complex, coteau                                    | 9 to 15              | Not prime farmland               | Rangeland             | 25.43            |
| Z179F  | Sioux-Renshaw complex, very stony                                | 15 to 40             | Not prime farmland               | Rangeland             | 25.19            |
| FdA  | Forman-Aastad loams  | 0 to 2               | All areas are prime farmland     |                       | 21.94            |
| Z205B  | Mauvais clay loam, occasionally ponded, extremely stony          | 2 to 6               | Not prime farmland               | Range/<br>pastureland | 20.21            |
| J105B  | Arvilla sandy loam, Till Prairie                                 | 2 to 6               | Not prime farmland               |                       | 19.31            |
| Z153A  | Lamoure-Rauville silty clay loams, channeled, frequently flooded | 0 to 2               | Not prime farmland               | Range/<br>pastureland | 16.79            |
| Z152A  | Lamoure silty clay loam, coteau, occasionally flooded            | 0 to 1               | Prime farmland if drained        | Cropland              | 15.49            |
| SaE  | Sioux-Renshaw complex  | 15 to 40             | Not prime farmland               |                       | 15.09            |
| Ra   | Rauville silty clay loam   |                      | Not prime farmland               |                       | 14.04            |
| Pe   | Peever-Tonka complex   |                      | Farmland of statewide importance |                       | 10.52            |
| Z114A  | Hamerly-Tonka complex, coteau                                    | 0 to 2               | Farmland of statewide importance | Cropland              | 8.40             |
| Z131B  | Forman-Aastad loams, coteau                                      | 1 to 6               | All areas are prime farmland     | Cropland              | 6.18             |
| FeC  | Forman-Aastad extremely stony complex                            | 0 to 9               | Not prime farmland               |                       | 5.69             |
| Fa   | Flom clay loam   |                      | Prime farmland if drained        |                       | 5.28             |
| Z143C  | Barnes-Buse loams, coteau  | 6 to 9               | Not prime farmland               | Cropland              | 3.46             |
| Z110A  | Vallers loam, coteau   | 0 to 1               | Farmland of statewide importance | Range/<br>pastureland | 3.39             |
| Z119A  | Hamerly-Balaton loams, coteau                                    | 0 to 3               | All areas are prime farmland     | Cropland              | 3.38             |
| Z112A  | Vallers-Hamerly loams, coteau                                    | 0 to 2               | Farmland of statewide importance | Cropland              | 3.24             |
| FcB  | Fordville-Renshaw loams  | 2 to 6               | Prime farmland if irrigated      |                       | 3.14             |
| Z146F  | Buse-Lamoure, channeled, frequently flooded, complex             | 0 to 40              | Not prime farmland               | Range/<br>pastureland | 2.11             |
| Z159A  | Divide loam, occasionally flooded                                | 0 to 2               | Prime farmland if drained        | Cropland              | 0.00             |
| <b>Total</b>                                   |  |                      |                                  |                       | <b>19,791.26</b> |
| <b>Total Codington County and Grant County</b> |  |                      |                                  |                       | <b>21,878.98</b> |

**Appendix D-2. Soil Associations within the Project Construction Easement for Codington and Grant Counties**

| <b>Soil Associations within the Construction Easement (Codington County)</b> |  |                      |                                  |                   |                |
|--|--|----------------------|----------------------------------|-------------------|----------------|
| <b>MUSYM</b>   | <b>Soil Type</b>                                       | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>    | <b>Acreage</b> |
| Z142B  | Barnes-Buse-Svea loams, coteau                         | 1 to 6               | All areas are prime farmland     | Cropland          | 22.40          |
| Z171A  | Renshaw-Fordville loams, coteau                        | 0 to 2               | Prime farmland if irrigated      | Cropland          | 14.47          |
| Z152A  | Lamoure silty clay loam, coteau, occasionally flooded  | 0 to 1               | Prime farmland if drained        | Cropland          | 10.79          |
| Z116A  | McKranz-Hidewood, frequently flooded, silty clay loams | 0 to 2               | Farmland of statewide importance | Cropland          | 4.85           |
| Z141A  | Barnes-Svea loams, coteau                              | 0 to 2               | All areas are prime farmland     | Cropland          | 4.73           |
| Z159A  | Divide loam, occasionally flooded                      | 0 to 2               | Prime farmland if drained        | Cropland          | 2.85           |
| Z158A  | Marysland loam, occasionally flooded                   | 0 to 1               | Prime farmland if drained        | Range/pastureland | 1.86           |
| Z144E  | Buse-Barnes loams, coteau                              | 9 to 20              | Not prime farmland               | Range/pastureland | 1.75           |
| Z171B  | Renshaw-Fordville loams, coteau                        | 2 to 6               | Prime farmland if irrigated      | Cropland          | 1.60           |
| Z115A  | Hamerly-Badger complex, coteau                         | 0 to 2               | Farmland of statewide importance | Cropland          | 1.18           |
| Z142C  | Barnes-Buse-Svea loams, coteau                         | 2 to 9               | Farmland of statewide importance | Cropland          | 1.18           |
| Z143C  | Barnes-Buse loams, coteau                              | 6 to 9               | Not prime farmland               | Cropland          | 1.09           |
| Z173B  | Renshaw-Sioux complex                                  | 2 to 6               | Not prime farmland               | Cropland          | 1.04           |
| Z101A  | Tonka silty clay loam                                  | 0 to 1               | Prime farmland if drained        | Cropland          | 0.09           |
| Z198A  | Vienna-Forestville loams, coteau                       | 0 to 2               | All areas are prime farmland     | Cropland          | 0.07           |
| <b>Total</b>   |  |                      |                                  |                   | <b>69.96</b>   |
| <b>Soil Associations within the Construction Easement (Grant County)</b>     |  |                      |                                  |                   |                |
| <b>MUSYM</b>   | <b>Soil Type</b>                                       | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>    | <b>Acreage</b> |
| La   | LaDelle silt loam                                      |                      | All areas are prime farmland     |                   | 60.63          |
| J225B  | Forman-Aastad complex                                  | 1 to 4               |                                  |                   | 47.36          |
| Pd   | Peever-Cavour complex                                  |                      | Not prime farmland               |                   | 32.87          |
| HcB  | Heimdal-Svea loams                                     | 2 to 6               | All areas are prime farmland     |                   | 32.79          |
| FdB  | Forman-Aastad loams                                    | 1 to 6               | All areas are prime farmland     |                   | 25.82          |
| HaE  | Hattie clay loam                                       | 15 to 40             | Not prime farmland               |                   | 23.66          |
| PeB  | Peever clay loam                                       | 2 to 6               | All areas are prime farmland     |                   | 23.46          |
| HbC  | Heimdal-Sisseton loams                                 | 6 to 9               | Farmland of statewide importance |                   | 22.89          |
| Ph   | Playmoor silty clay loam                               |                      | Not prime farmland               |                   | 22.04          |
| Z145F  | Buse-Barnes loams, coteau, very stony                  | 9 to 40              | Not prime farmland               | Range/pastureland | 18.93          |
| BeF  | Buse-Forman loams                                      | 25 to 40             | Not prime farmland               |                   | 17.93          |
| SeA  | Swenoda fine sandy loam                                | 0 to 2               | All areas are prime farmland     |                   | 16.48          |
| EaB  | Egeland sandy loam                                     | 2 to 6               | All areas are prime farmland     |                   | 14.90          |
| Lb   | LaDelle silt loam, channeled                           |                      | Not prime farmland               |                   | 14.30          |
| Z132D  | Forman-Buse-Aastad loams, coteau                       | 2 to 15              | Not prime farmland               | Cropland          | 14.05          |

**Soil Associations within the Construction Easement (Grant County)**

| <b>MUSYM</b> | <b>Soil Type</b>                             | <b>Percent Slope</b> | <b>Farmland</b>                  | <b>Landuse</b>    | <b>Acreage</b> |
|--------------|--|----------------------|----------------------------------|-------------------|----------------|
| EaA          | Egeland sandy loam                           | 0 to 2               | All areas are prime farmland     |                   | 12.70          |
| Z145D        | Buse-Barnes loams, coteau, very stony        | 2 to 15              | Not prime farmland               | Range/pastureland | 12.34          |
| Db           | Castlewood silty clay                        |                      | Prime farmland if drained        |                   | 11.66          |
| Z132C        | Forman-Buse-Aastad loams, coteau             | 2 to 9               | Farmland of statewide importance | Cropland          | 11.55          |
| ScD          | Sisseton-Heimdal loams                       | 9 to 15              | Not prime farmland               |                   | 10.80          |
| HcA          | Heimdal-Svea loams                           | 0 to 2               | All areas are prime farmland     |                   | 10.49          |
| PeA          | Peever clay loam                             | 0 to 2               | All areas are prime farmland     |                   | 10.15          |
| J217A        | Parnell silty clay loam, occasionally ponded | 0 to 1               | Not prime farmland               |                   | 10.08          |
| Z171A        | Renshaw-Fordville loams, coteau              | 0 to 2               | Prime farmland if irrigated      | Cropland          | 9.91           |
| BfD          | Buse-Forman-Aastad loams                     | 4 to 15              | Not prime farmland               |                   | 8.94           |
| HaD          | Hattie clay loam                             | 9 to 15              | Not prime farmland               |                   | 8.64           |
| Z137F        | Buse-Forman loams, very stony                | 15-40                | Not prime farmland               | Range/pastureland | 8.09           |
| MaE          | Maddock loamy fine sand                      | 6 to 25              | Not prime farmland               |                   | 7.92           |
| Z132B        | Forman-Buse-Aastad loams, coteau             | 1 to 6               | All areas are prime farmland     | Cropland          | 7.61           |
| Po           | Poinsett-Waubay silty clay loams             | 0 to 2               | All areas are prime farmland     | Cropland          | 7.28           |
| Ta           | Tonka silty clay loam                        | 0 to 1               | Prime farmland if drained        | Cropland          | 6.73           |
| J209C        | Forman-Buse complex, moderately eroded       | 6 to 12              | Farmland of statewide importance |                   | 6.41           |
| Lc           | Ludden silty clay                            |                      | Prime farmland if drained        |                   | 5.07           |
| Z113A        | Vallers-Parnell complex, coteau              | 0 to 2               | Not prime farmland               | Range/pastureland | 4.83           |
| Vb           | Vallers-Parnell complex                      |                      | Not prime farmland               |                   | 4.42           |
| Vc           | Vallers-Tonka complex                        |                      | Prime farmland if drained        |                   | 4.24           |
| Bc           | Cubden silty clay loam                       | 0 to 2               | All areas are prime farmland     | Cropland          | 4.20           |
| J105B        | Arvilla sandy loam, Till Prairie             | 2 to 6               | Not prime farmland               |                   | 4.00           |
| Va           | Vallers clay loam                            | 0 to 2               | Prime farmland if drained        |                   | 3.75           |
| PcC          | Peever clay loam                             | 6 to 9               | Farmland of statewide importance |                   | 3.56           |
| Z140F        | Buse-Langhei complex, coteau                 | 15 to 40             | Not prime farmland               | Range/pastureland | 3.48           |
| Sd           | Svea loam                                    |                      | All areas are prime farmland     |                   | 2.95           |
| FdC          | Forman-Aastad loams                          | 3 to 9               | Farmland of statewide importance |                   | 2.90           |
| Da           | Divide loam                                  |                      | All areas are prime farmland     |                   | 2.79           |
| PcB          | Peever clay loam, coteau                     | 2 to 6               | All areas are prime farmland     |                   | 2.70           |
| J105A        | Arvilla sandy loam, Till Prairie             | 0 to 2               | Not prime farmland               |                   | 2.42           |
| Z136F        | Buse-Langhei complex, very stony             | 9 to 40              | Not prime farmland               | Range/pastureland | 2.40           |
| FgC          | Forman-Buse loams                            | 6 to 9               | Farmland of statewide importance |                   | 2.23           |
| Z141B        | Barnes-Svea loams, coteau                    | 1 to 6               | All areas are prime farmland     | Cropland          | 2.20           |

| Soil Associations within the Construction Easement (Grant County) |   |               |                                  |                   |               |
|---|---|---------------|----------------------------------|-------------------|---------------|
| MUSYM   | Soil Type   | Percent Slope | Farmland                         | Landuse           | Acreage       |
| Ra  | Rauville silty clay loam                                |               | Not prime farmland               |                   | 1.99          |
| FbA   | Fordville loam  | 0 to 2        | All areas are prime farmland     |                   | 1.98          |
| Z175D   | Renshaw-Sioux complex, very stony                       | 2 to 15       | Not prime farmland               | Range/pastureland | 1.91          |
| HbB   | Esmond-Heimdal-Sisseton complex                         | 2 to 6        | All areas are prime farmland     |                   | 1.86          |
| ReA   | Rentill loam  | 0 to 2        | All areas are prime farmland     |                   | 1.60          |
| FdD   | Forman-Aastad loams                                     | 4 to 15       | Farmland of statewide importance |                   | 1.54          |
| Oa  | Overly silty clay loam                                  |               | All areas are prime farmland     |                   | 1.48          |
| RbA   | Renshaw loam  | 0 to 2        | Prime farmland if irrigated      |                   | 1.29          |
| Z135D   | Forman-Buse loams, very stony                           | 2 to 15       | Not prime farmland               | Range/pastureland | 1.21          |
| Z107A   | Parnell silty clay loam, coteau                         | 0 to 1        | Not prime farmland               | Range/pastureland | 1.19          |
| FdA   | Forman-Aastad loams                                     | 0 to 2        | All areas are prime farmland     |                   | 1.13          |
| Z179F   | Sioux-Renshaw complex, very stony                       | 15 to 40      | Not prime farmland               | Rangeland         | 0.91          |
| BbB   | Hokans-Svea complex                                     | 1 to 4        | All areas are prime farmland     |                   | 0.91          |
| Pb  | Southam silty clay loam                                 | 0 to 1        | Not prime farmland               | Wildlife habitat  | 0.90          |
| Z114A   | Hamerly-Tonka complex, coteau                           | 0 to 2        | Farmland of statewide importance | Cropland          | 0.61          |
| BbD   | Barnes-Svea loams                                       | 4 to 15       | Not prime farmland               |                   | 0.52          |
| Z205B   | Mauvais clay loam, occasionally ponded, extremely stony | 2 to 6        | Not prime farmland               | Range/pastureland | 0.52          |
| RbB   | Renshaw loam,   | 1 to 6        | Prime farmland if irrigated      |                   | 0.31          |
| Pe  | Peever-Tonka complex                                    |               | Farmland of statewide importance |                   | 0.28          |
| BbC   | Barnes-Svea loams                                       | 3 to 9        | Farmland of statewide importance |                   | 0.21          |
| Aa  | Aastad-Flom complex                                     |               | Prime farmland if drained        |                   | 0.20          |
| FgE   | Forman-Buse loams                                       | 15 to 25      | Not prime farmland               |                   | 0.15          |
| Ec  | Estelline silty clay loam                               |               | All areas are prime farmland     |                   | 0.14          |
| J49A  | Lakepark-Parnell, occasionally ponded, complex          | 0 to 2        | Prime farmland if drained        |                   | 0.09          |
| Pa  | Parnell silty clay loam                                 |               | Not prime farmland               |                   | 0.08          |
| W   | Water   |               | Not prime farmland               |                   | 0.07          |
| Z173B   | Renshaw-Sioux complex                                   | 2 to 6        | Not prime farmland               | Cropland          | 0.01          |
| <b>Total</b>  |   |               |                                  |                   | <b>630.62</b> |
| <b>Total for Codington County and Grant County</b>                |   |               |                                  |                   | <b>700.58</b> |

Source: SSURGO dataset for Codington and Grant Counties, South Dakota