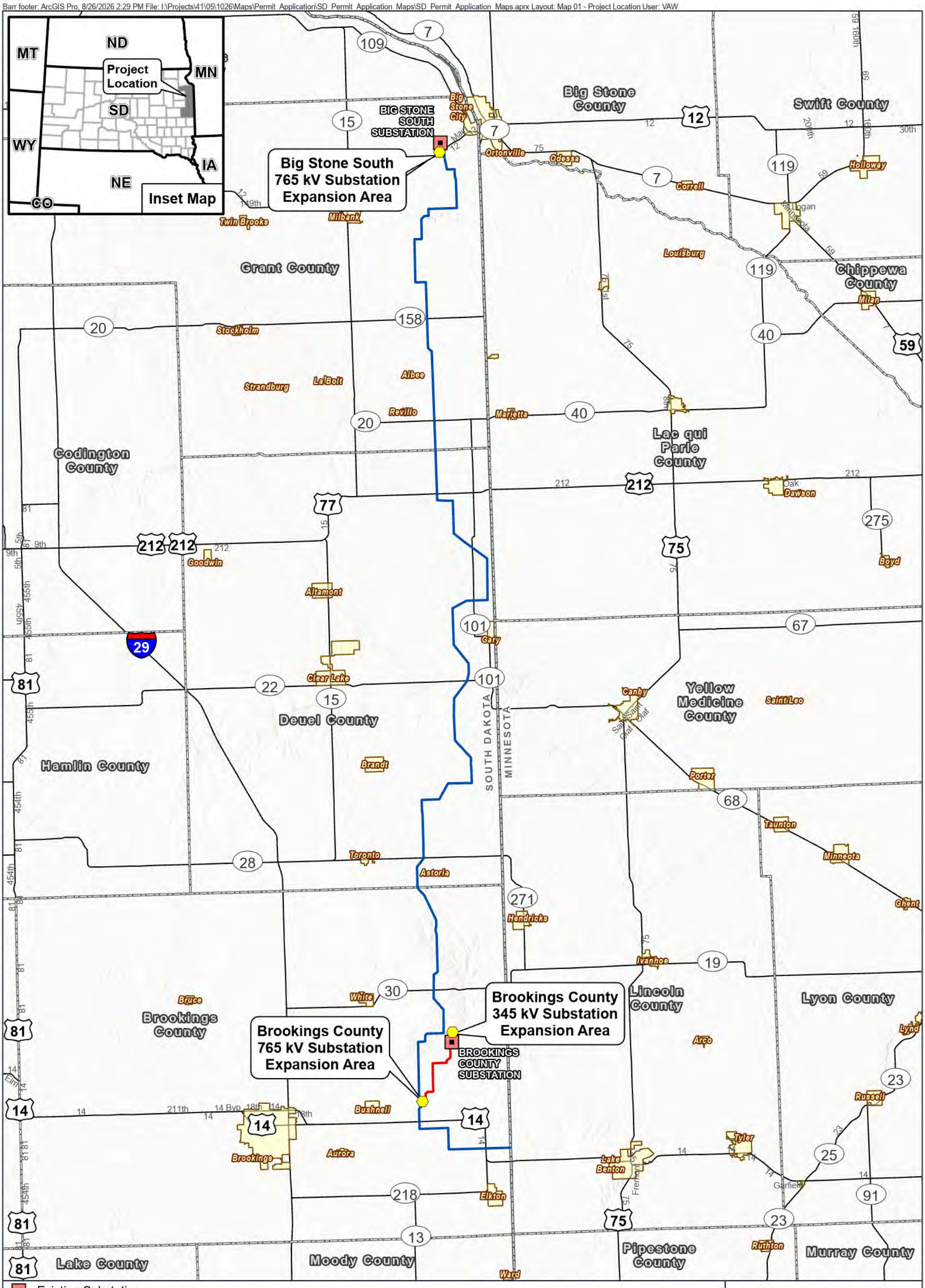
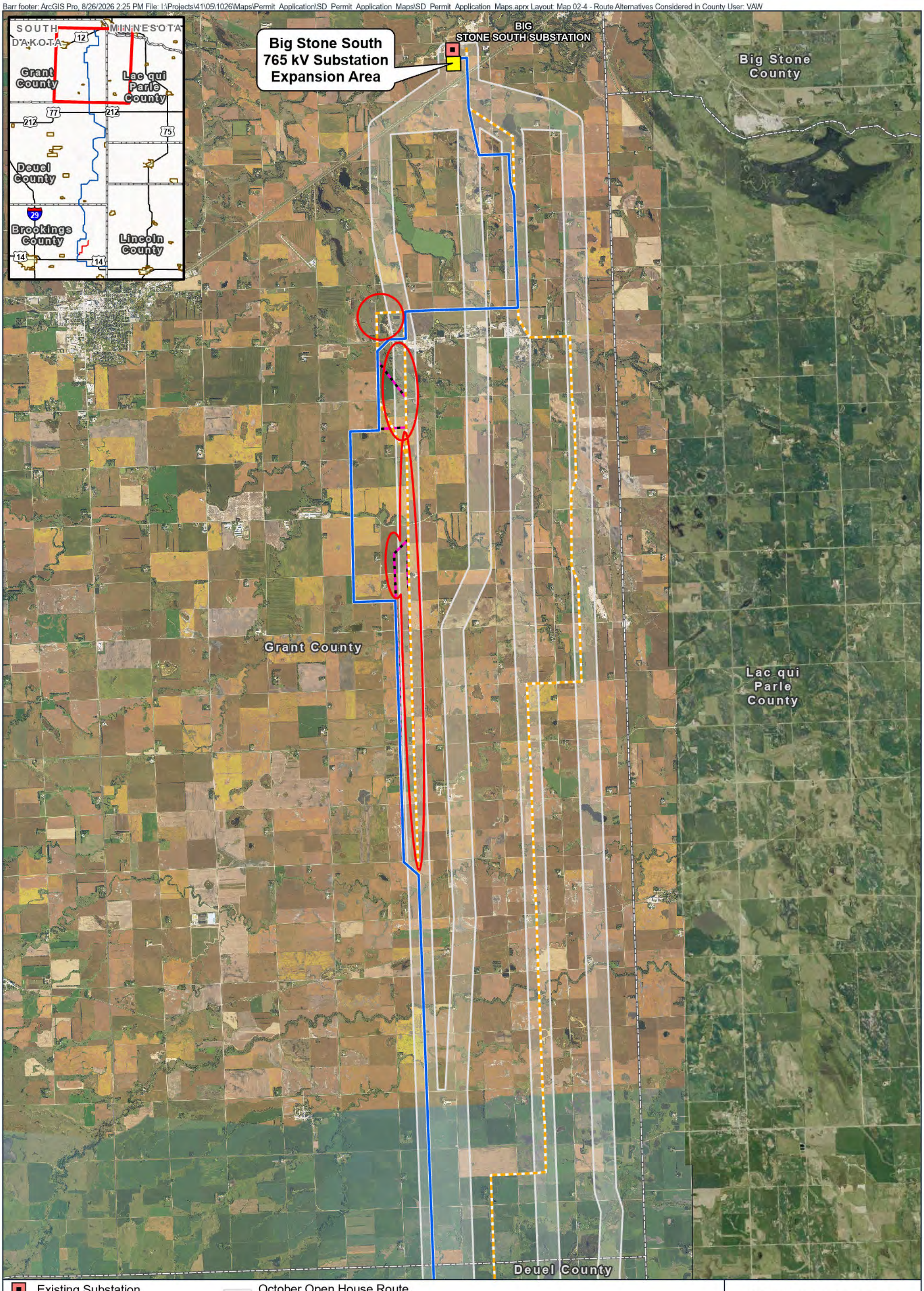
PowerOn Midwest™
Big Stone South to Brookings

Otter Tail Power Company | Xcel Energy®

MAPS


MT
ND
MN
SD
WY
IA
NE
CO
Project Location
Inset Map
BIG STONE SOUTH SUBSTATION
Big Stone South 765 kV Substation Expansion Area
Big Stone City
Ortonville
Odessa
Correll
Holloway
Logan
Louisburg
Milbank
Twin Brooks
Grant County
Big Stone County
Swift County
Chippewa County
Milan
Stockholm
Strandburg
LaBolt
Albee
Revillo
Marietta
Codington County
Lac qui Parle County
Oak
Dawson
Goodwin
Altamont
Clear Lake
Deuel County
Brandt
Toronto
Astoria
Hendricks
Ivanhoe
Boyd
Gary
Canby
Saint Leo
Yellow Medicine County
Porter
Taunton
Minneota
Ghent
Hamlin County
SOUTH DAKOTA
MINNESOTA
Brookings County 765 kV Substation Expansion Area
Brookings County 345 kV Substation Expansion Area
BROOKINGS COUNTY SUBSTATION
Bruce
Brookings County
White
Bushnell
Brookings
Aurora
Elkton
Arco
Lincoln County
Lyon County
Lynd
Russell
Tyler
Lake Benton
Garfield
Ruthton
Pipestone County
Murray County
Lake County
Moody County
Ward
109
7
15
12
119
59
20
158
40
212
77
75
275
29
81
22
101
67
68
271
19
30
14
218
13
91
25
23
Existing Substation
Substation Expansion Areas
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Municipal Boundary
County Boundary
0
6
12
Miles
PROJECT LOCATION
South Dakota
MAP 1
PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Proposed Route
Preliminary Routes from January 2026 Open Houses
Preliminary Routes from April 2026 Open Houses
October Open House Route Corridors
765 kV Substation Expansion Area
Modification to Preliminary Route
County Boundary

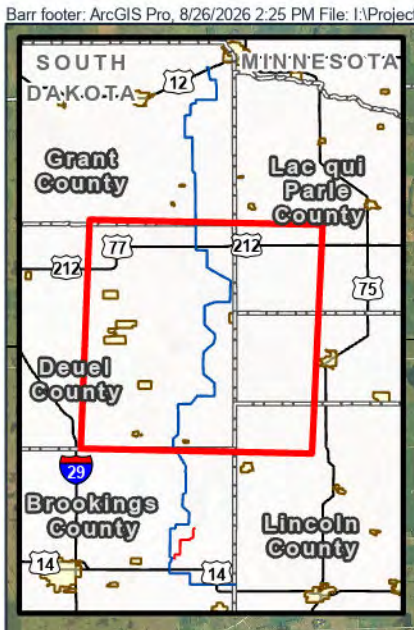
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0 1 2
Miles

ROUTE ALTERNATIVES CONSIDERED IN GRANT COUNTY
South Dakota

MAP 2

PowerOn Midwest
Big Stone South to Brookings



Grant County

Lac qui Parle County

Deuel County

Yellow Medicine County

Lincoln County

Brookings County

- Existing Substation
- Proposed Route
- Preliminary Routes from January 2026 Open Houses
- Preliminary Routes from April 2026 Open Houses
- October Open House Route Corridors
- Modification to Preliminary Route
- Deuel County 2000 foot Residence Setback
- County Boundary

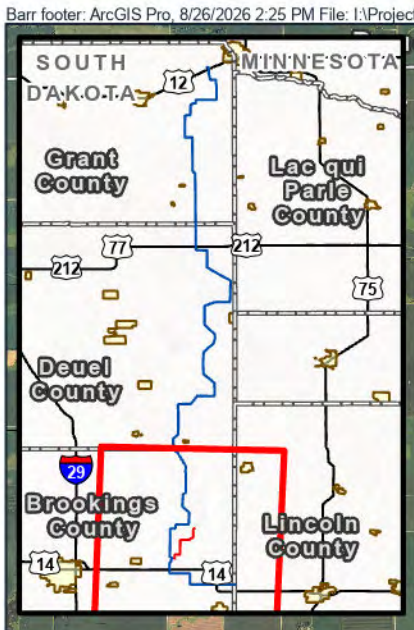
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ROUTE ALTERNATIVES CONSIDERED IN DEUEL COUNTY
South Dakota

MAP 3

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Brookings County 765 kV Substation Expansion Area

Deuel County

Brookings County

Lincoln County

Pipestone County

- Existing Substation
- Proposed Route
- Preliminary Routes from January 2026 Open Houses
- Preliminary Routes from April 2026 Open Houses
- October Open House Route Corridors
- Brookings County 345 kV Substation Expansion Area
- 765 kV Substation Expansion Area
- County Boundary

N

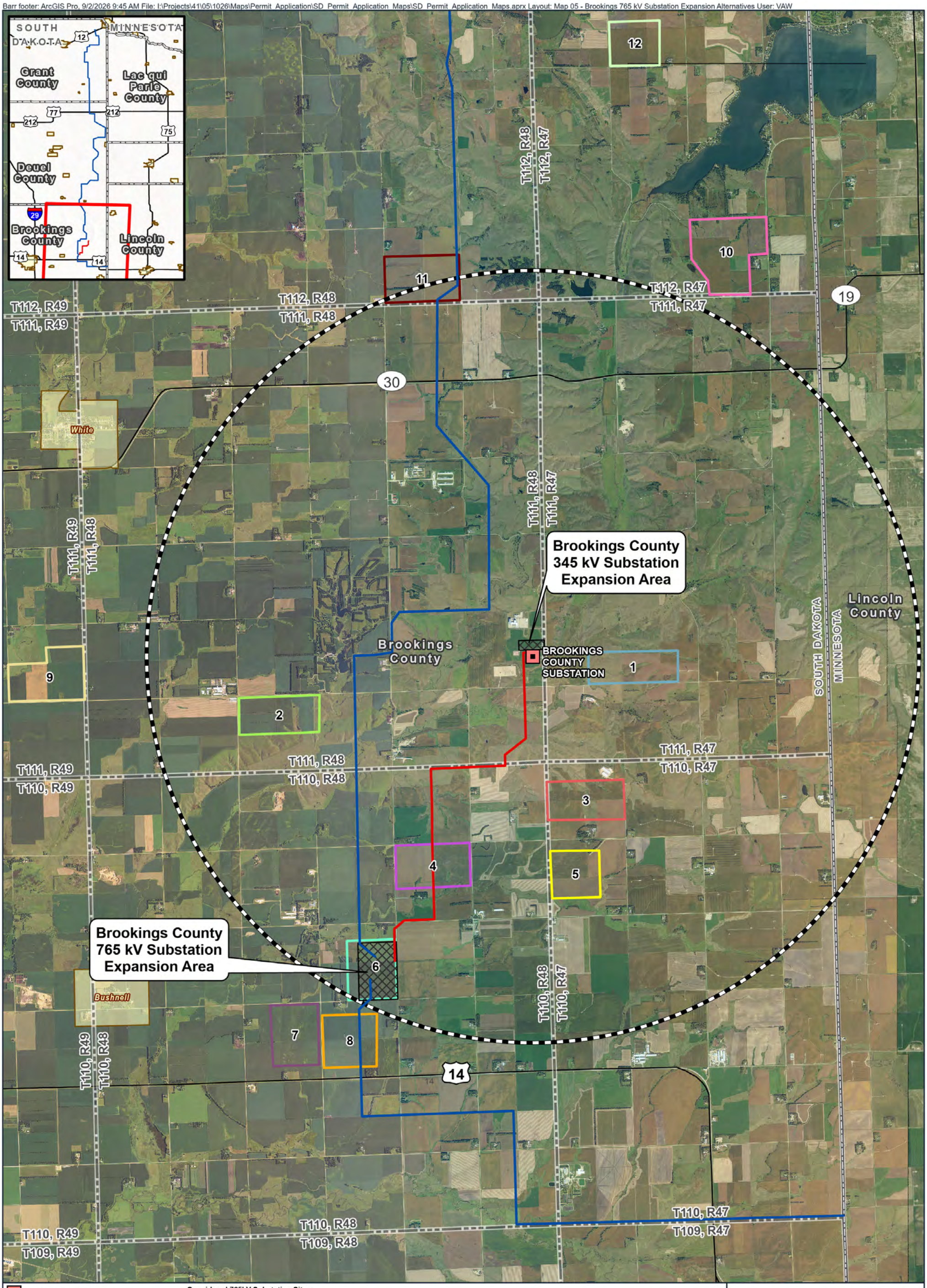
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Miles

ROUTE ALTERNATIVES CONSIDERED IN BROOKINGS COUNTY
South Dakota

MAP 4

PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Substation Expansion Area
Municipal Boundary
Public Land Survey Township
County Boundary
Brooking County Substation 5-Mile Radius

Considered 765kV Substation Sites
1 2 3 4 5 6 7 8 9 10 11 12

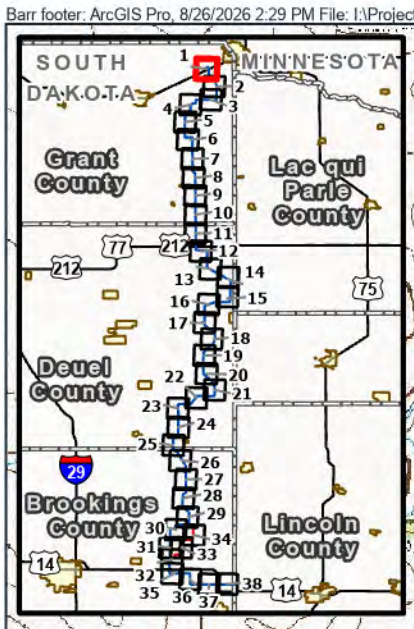
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0 1 2
Miles

BROOKINGS COUNTY 765 KV SUBSTATION EXPANSION ALTERNATIVES
South Dakota

MAP 5

PowerOn Midwest
Big Stone South to Brookings



Big Stone South 765 kV Substation Expansion Area

BIG STONE SOUTH SUBSTATION

Grant County

Roadside Park

Gravel Pit

Gaging Sta

484th Ave

485th Ave

CR-4

146th St

T121, R47

T121, R46

S13 S18 S19 S23 S24 S25 S26 S30

13 24 23 25 26

12

1050 1070 1080 1090

Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Substation Expansion Area

Public Land Survey Township

County Boundary

N

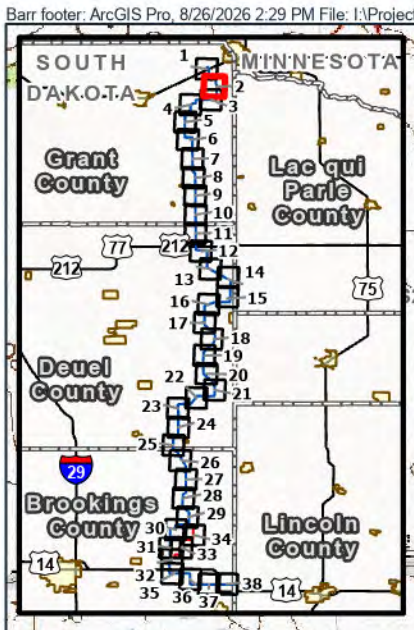
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Feet

TOPOGRAPHY
South Dakota

MAP 6-1

PowerOn Midwest
Big Stone South to Brookings



147th St
485th Ave
486th Ave
T121, R47
T121, R46
T120, R47
T120, R46
148th St
149th St
CR 10
CR 39
Grant County
S29
S30
S31
S32
S36
S6
S5
S4
S7
S8
S9
36
31
6
5
1070
1080
1100
1090
1060
1050

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

N

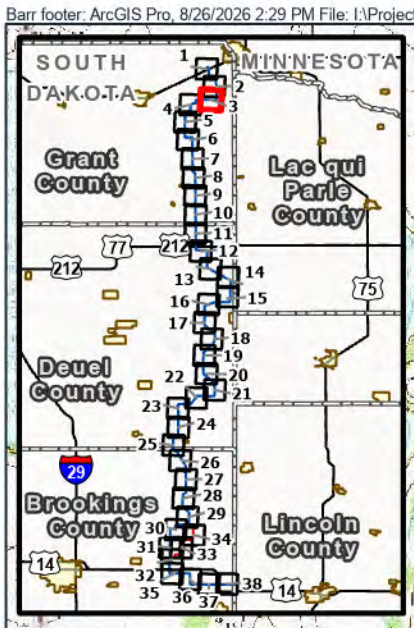
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Feet

TOPOGRAPHY
South Dakota

MAP 6-2

PowerOn Midwest
Big Stone South to Brookings



149th St
150th St
CR 10
CR 39
Grant County
T120, R48
T120, R47
S5
S6
S7
S8
S12
S13
S17
S18
484th Ave
Quarries
Gravel Pit
Quarry

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

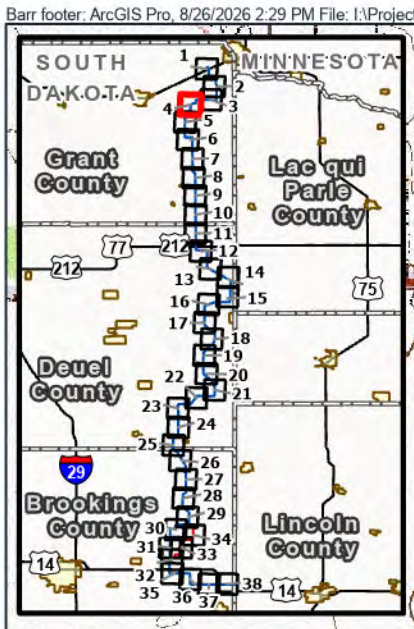
County Boundary

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Feet

TOPOGRAPHY
South Dakota

MAP 6-3

PowerOn Midwest
Big Stone South to Brookings



149th St
483rd Ave
150th St
151st St
484th Ave
T120, R48
T120, R47
S1
S2
S6
S7
S11
S12
S13
S14
S23
S24
Grant County
Gravel Pits
Quarries
Bethlehem Ch

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

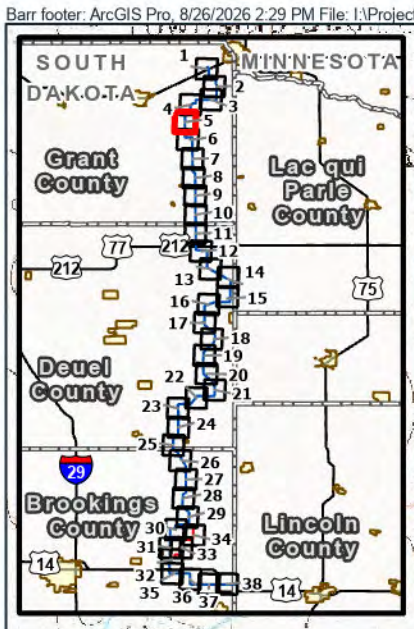
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-4

PowerOn Midwest
Big Stone South to Brookings



CR 35
CR 14
483rd Ave
152nd St
S23
S24
S25
S26
S27
S34
S35
S36
Grant County
Hawhall
River

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

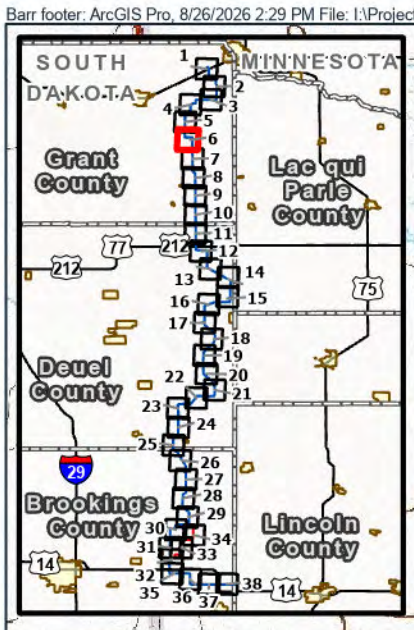
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-5

PowerOn Midwest
Big Stone South to Brookings



S35
S36
S1
S2
S3
S10
S11
S12
S13
S14
S15
T120, R48
T119, R48
154th St
156th St
483rd Ave
CR 35
CR 26
NATIONAL WATERFOWL PRODUCTION AREA
Grant County
1150
1140
1130
1120
1160
1152
1134
1145
1151
1154
1157
1164
1138
1129
1137
11
12

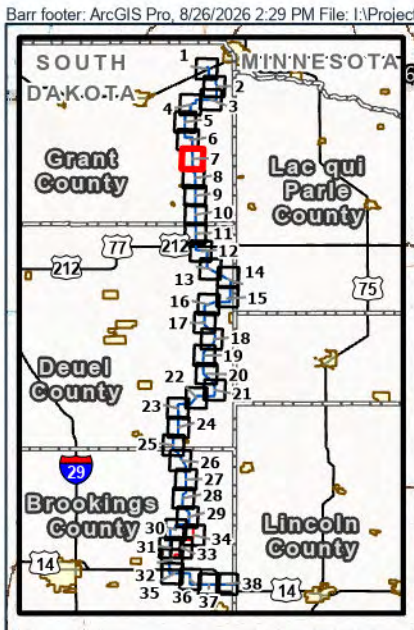
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-6

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

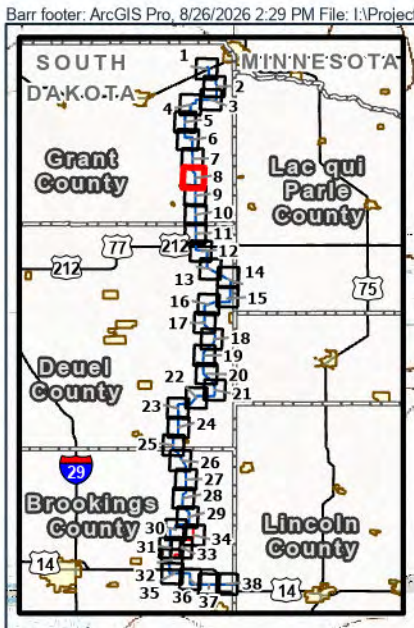
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Feet

TOPOGRAPHY
South Dakota

MAP 6-7

PowerOn Midwest
Big Stone South to Brookings



25
S25
S30
1159
1150
1140
483rd Ave
484th Ave
CR 28
1154
1144
T119, R48
T119, R47
35
S35
36
S36
S31
1158
1145
1160
Grant County
160th St
T119, R48
T118, R48
T119, R47
T118, R47
1159
1157
1150
2
S2
1
S1
S6
NORTHERN
BURLINGTON
T118, R48
T118, R47
1161
Albee
CR 18
1170
1157
S11
S12
S7

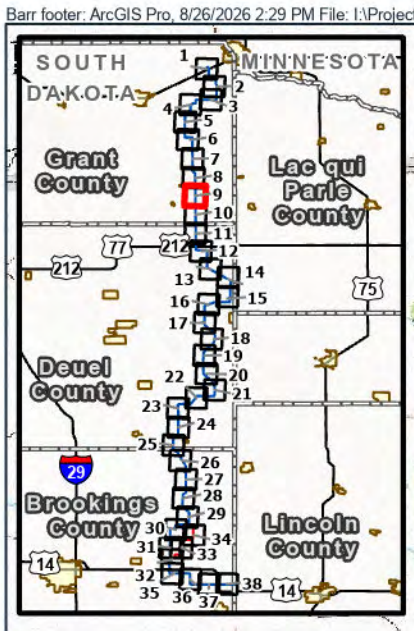
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary

N
0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-8

PowerOn Midwest
Big Stone South to Brookings



CR 18
162nd St
163rd St
483rd Ave
484th Ave
T118, R48
T118, R47
Grant County
River
OLD RAILROAD GRADE
S1
S6
S7
S11
S12
S13
S14
S18
S19
S23
S24
12
13
14
23
24

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

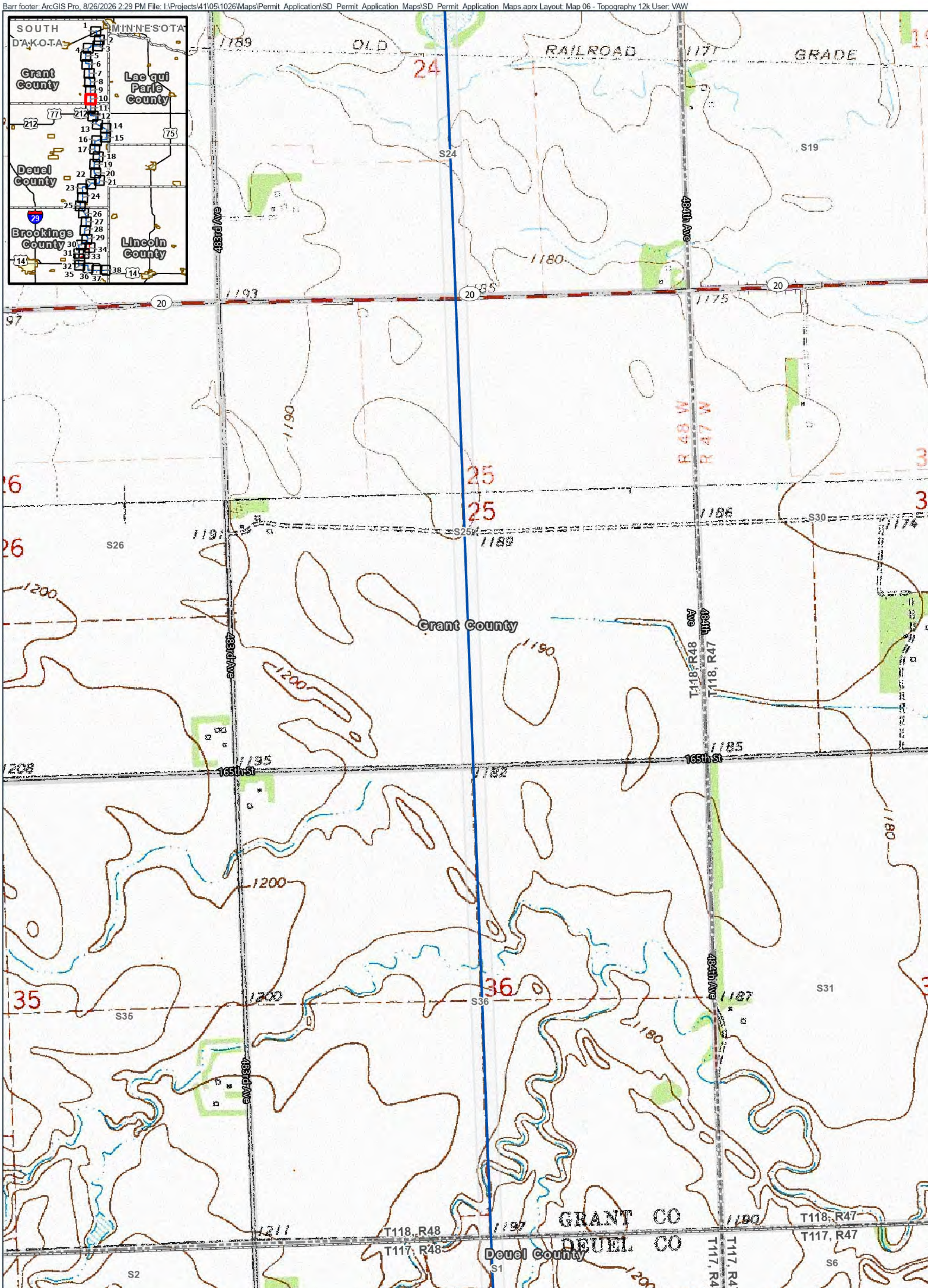
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Feet

TOPOGRAPHY
South Dakota

MAP 6-9

PowerOn Midwest
Big Stone South to Brookings

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Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

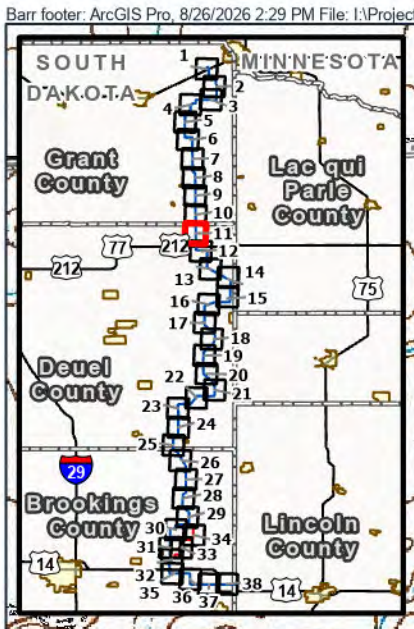
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Feet

TOPOGRAPHY
South Dakota

MAP 6-10

PowerOn Midwest
Big Stone South to Brookings



Grant County
T118, R48
T117, R48
GRANT CO
DEUEL CO
S36
S31
T118, R47
T117, R47
484th Ave
483rd Ave
S1
S6
S2
167th St
168th St
Deuel County
T117, R48
T117, R47
S12
S7
S11
S13
S18
S14
Creek
Lost

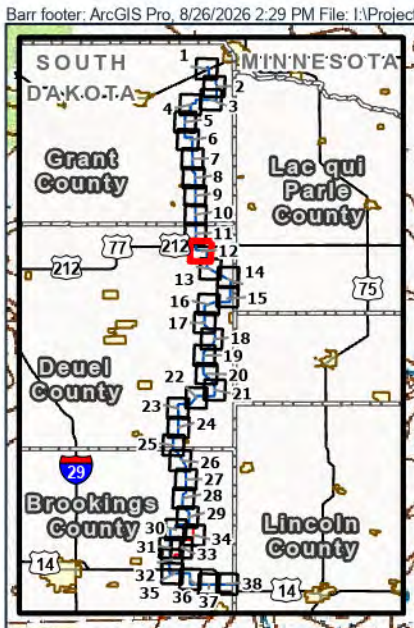
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-11

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

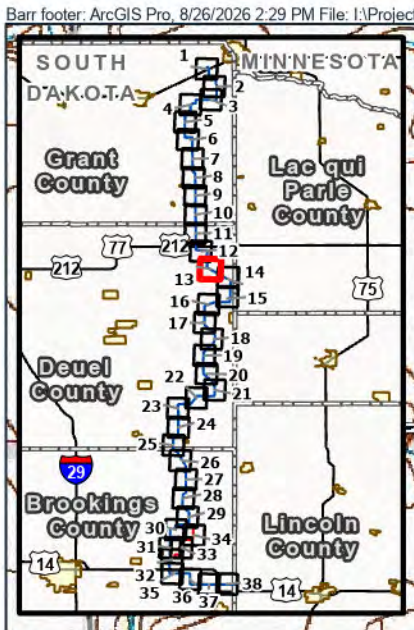
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TOPOGRAPHY
South Dakota

MAP 6-12

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

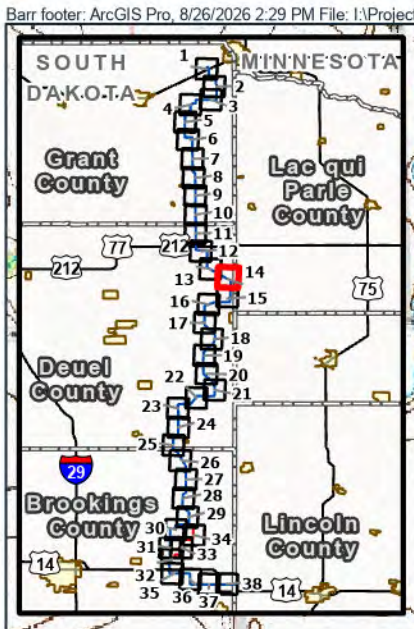
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Feet

TOPOGRAPHY
South Dakota

MAP 6-13

PowerOn Midwest
Big Stone South to Brookings



T117, R47
T116, R47

S33
S34
S5
S4
S3
S6
S8
S9
S10
S7
S18
S16
S15
S17

1257
1236
1204
1250
1200
1300
1250
1222
1220
1283
1320
1352
1350
1300
1250

E N W O O D

CR 310

174th St

Deuel County

Lac qui Parle County

SOUTH DAKOTA
MINNESOTA

9
10
15
16
18

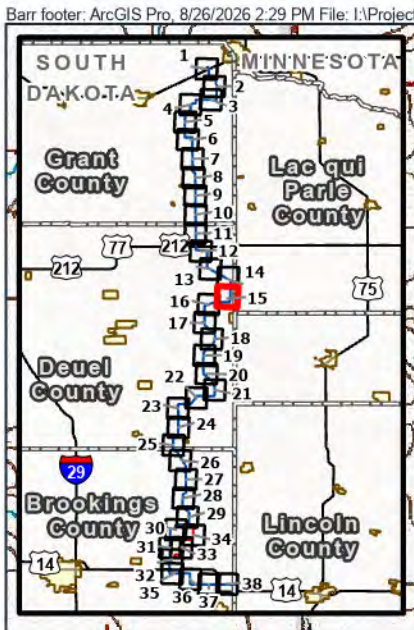
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-14

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

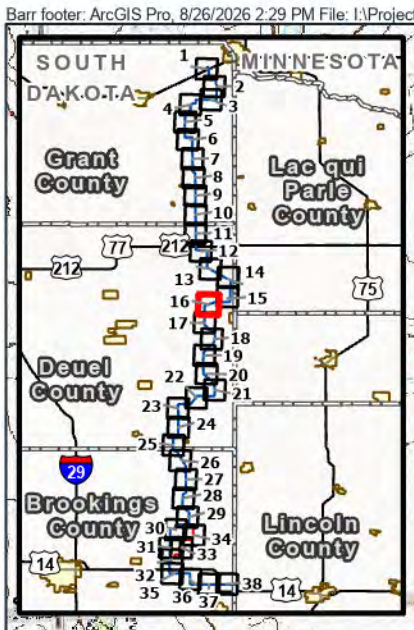
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Feet

TOPOGRAPHY
South Dakota

MAP 6-15

PowerOn Midwest
Big Stone South to Brookings



Deuel County

S19 S20 S30 S29 S25 S31 S32 S36 S1 S6 S5

T116, R48
T116, R47
T115, R48
T115, R47

484th Ave

178th St

1550 1500 1580 1585 1600 1570 1620 1576

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

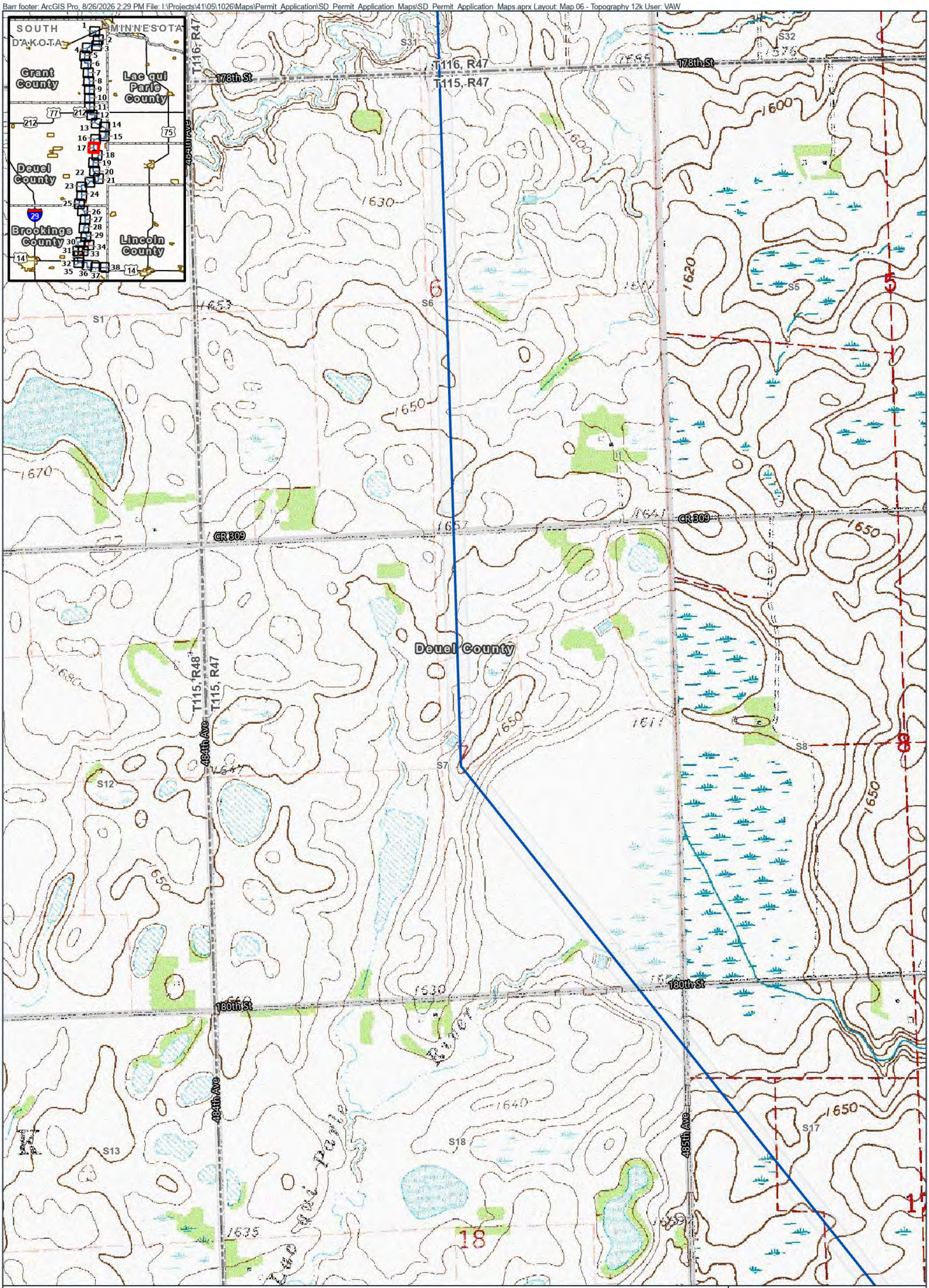
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TOPOGRAPHY
South Dakota

MAP 6-16

PowerOn Midwest
Big Stone South to Brookings

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Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

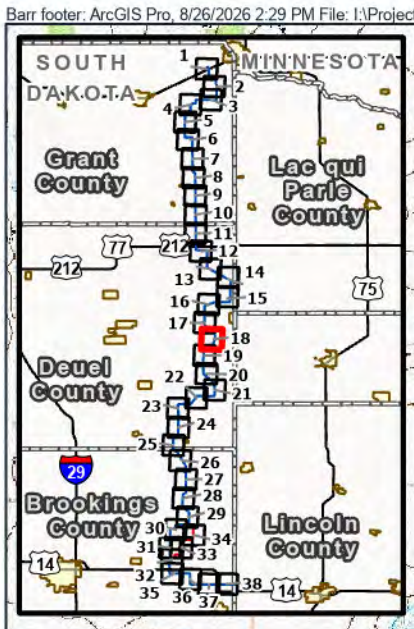
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-17

PowerOn Midwest
Big Stone South to Brookings



485th Ave
486th Ave
181st St
Deuel County
Cobb Cr
S16
S17
S19
S20
S21
S28
S29
S30
17
19
20
29
30
22
1650
1670

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

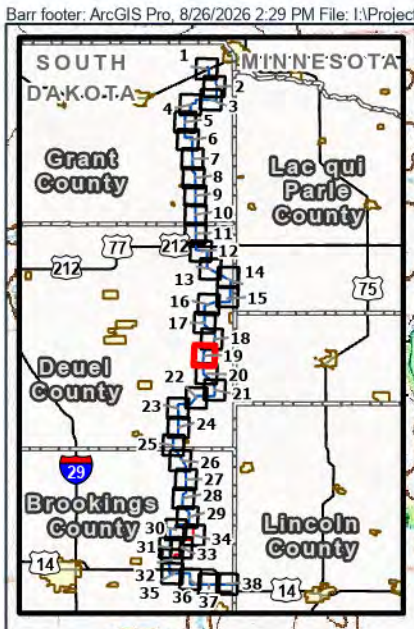
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Feet

TOPOGRAPHY
South Dakota

MAP 6-18

PowerOn Midwest
Big Stone South to Brookings



30
29
S30
S29
484th Ave
485th Ave
183rd St
1650
1670
1700
1750
T115, R48
T115, R47
31
32
S31
S32
S36
Deuel County
T114, R48
T114, R47
S1
S6
S5

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

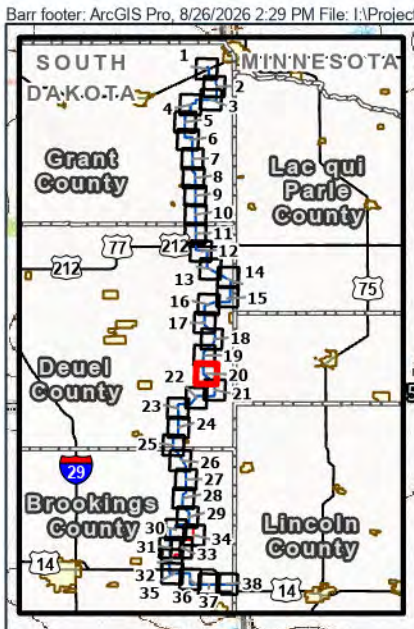
0 500 1,000

Feet

TOPOGRAPHY
South Dakota

MAP 6-19

PowerOn Midwest
Big Stone South to Brookings



CR 375
485th Ave
1750
1800
1790
S6
S5
S7
S8
S12
7
8
Gravel Pit
186th St
Deuel County
484th Ave
T114, R48
T114, R47
1794
1792
1784
1781
1795
1782
1807
187th St
S13
S18
S17
17
1
S19
S20
S24
RUNGE STATE WILDLIFE MANAGEMENT AREA

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

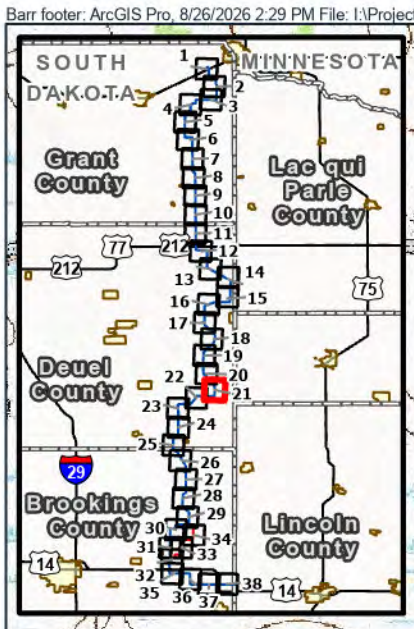
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-20

PowerOn Midwest
Big Stone South to Brookings



485th Ave
CR 516
CR 314
189th St
CR 111
Deuel County
Cottonwood Slough
S16
S17
S19
S20
S21
S28
S29
S30
S31
S32
S33
29
32
1800
1790
1785
1784
1750

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

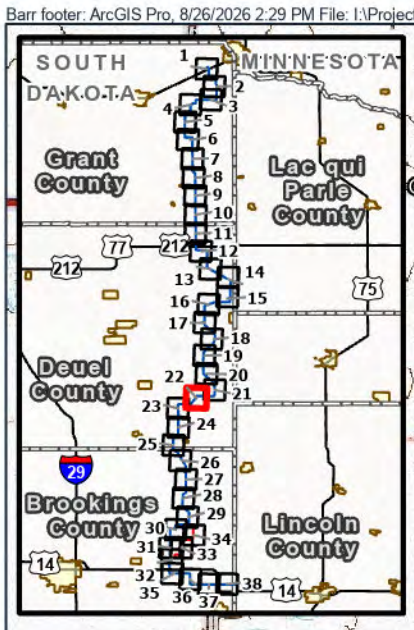
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0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-21

PowerOn Midwest
Big Stone South to Brookings



CR 314
484th Ave
S24
S19
Fox Lake
1780
S25
25
S30
30
S26
1800
1784
1794
189th St
CR 311
Gravel Pit
1754
1809
T114, R48
T113, R48
T114, R47
T113, R47
Deuel County
FOX LAKE STATE WILDLIFE MANAGEMENT AREA
Cottonwood Slough
36
S36
31
S31
S35
1785
1787
1798
1790
190th St
S2
S1
S6
1
6
T113, R48 W
T113, R47 W

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

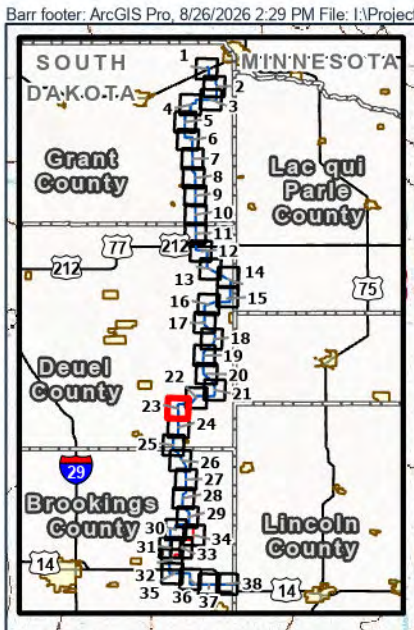
County Boundary

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Feet

TOPOGRAPHY
South Dakota

MAP 6-22

PowerOn Midwest
Big Stone South to Brookings



T114, R48
T113, R48
190th St
191st St
482nd Ave
CR 311
Deuel County
Cobb
S1
S2
S3
S10
S11
S34
S35
S36
35
4
3
2
1
10
11
1800
1804
1812
1830
1822
1818
1820
1810
1801
1795
1802
1838
1792

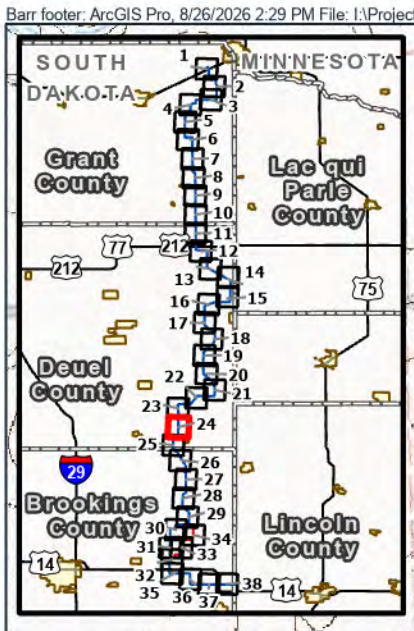
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-23

PowerOn Midwest
Big Stone South to Brookings



192nd St
193rd St
482nd Ave
CR 311
Deuel County
Gravel Pit
Jorstad Spring
S10
S11
S12
S13
S14
S15
S22
S23
S24
S25
S26
S27
28

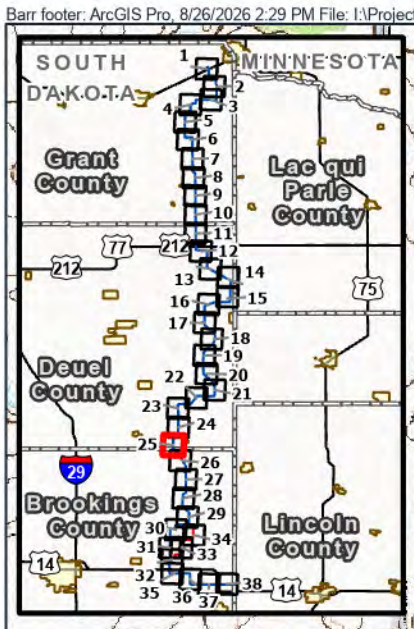
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-24

PowerOn Midwest
Big Stone South to Brookings



482nd Ave
195th St
Deuel County
Gravel Pit
Well
Astoria
481st Ave
196th St
T113, R48
T112, R48
Brookings County
S27
S26
S33
S34
S35
S3
S2
S4

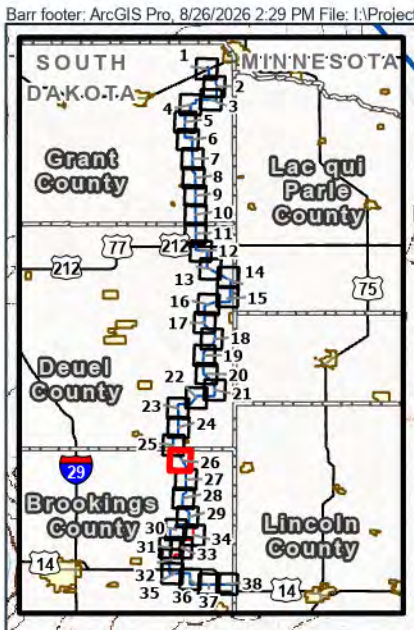
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-25

PowerOn Midwest
Big Stone South to Brookings



482nd Ave
483rd Ave
CR 40
198th St
Gravel Pit
Boat Ramp
Brookings County
S1
S2
S10
S11
S12
S13
S14
S15
1950
1900
1850
1930
1940
1917
1918
1929
1885
1855
1820

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

N

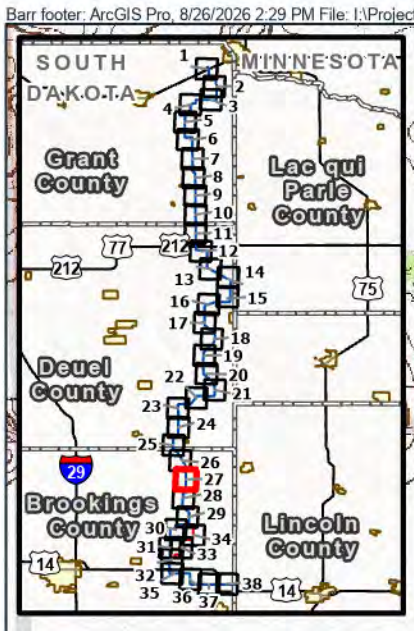
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Feet

TOPOGRAPHY
South Dakota

MAP 6-26

PowerOn Midwest
Big Stone South to Brookings



S14 S13 S24 S23 S22 S27 S26 S25 S36 S35 S34

199th St 201st St

CR 44

482nd Ave 483rd Ave

Brookings County

1850 1900 1950

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

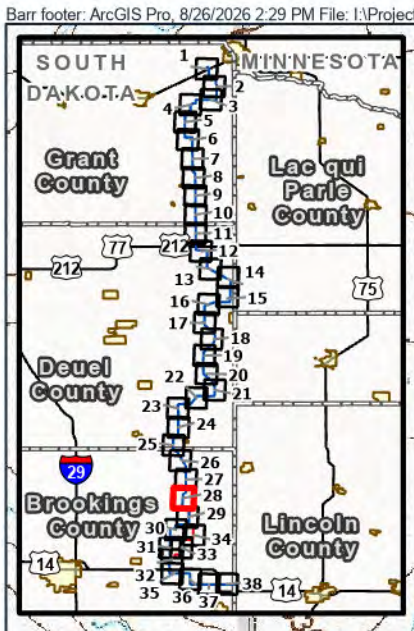
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Feet

TOPOGRAPHY
South Dakota

MAP 6-27

PowerOn Midwest
Big Stone South to Brookings



35
S35
36
S36
483rd Ave
202nd St
T112, R48
T111, R48
Brookings County
482nd Ave
S1
S2
S3
30
S10
CR 27
S11
11
S12
12
Gravel Pit

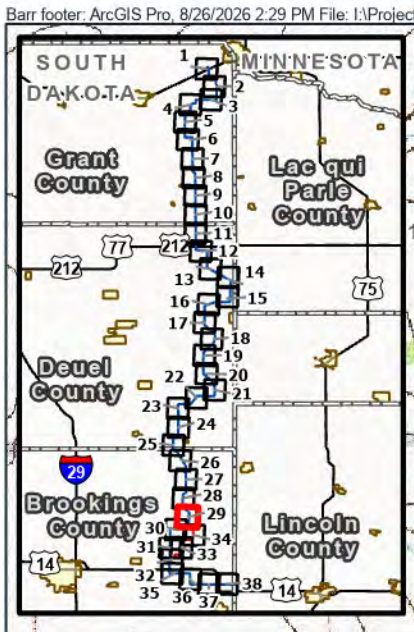
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-28

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

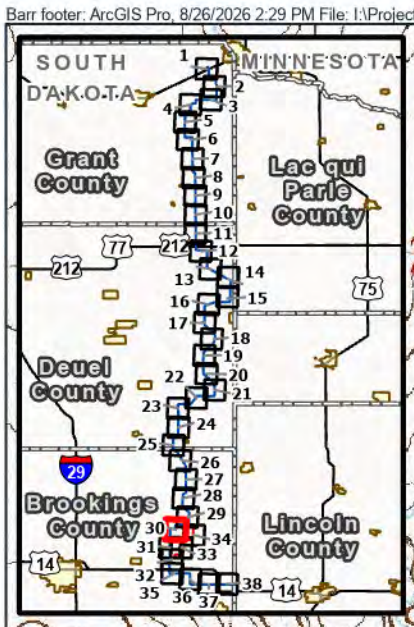
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Feet

TOPOGRAPHY
South Dakota

MAP 6-29

PowerOn Midwest
Big Stone South to Brookings



206th St
CR 27
483rd Ave
CR 8
Brookings County
Deer
S22
S23
S24
S25
S26
S27
S34
S35
S36
S1
S2
S3
T111, R48
T110, R48

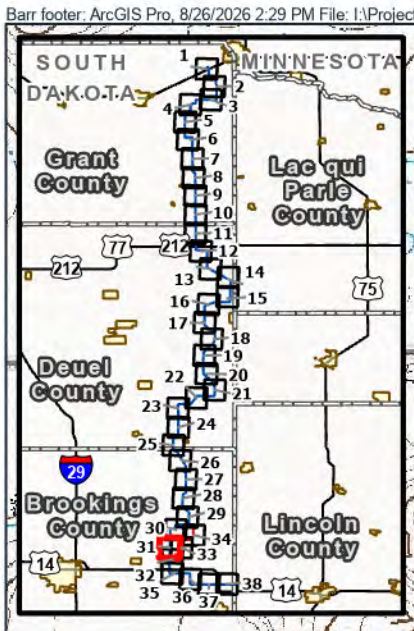
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-30

PowerOn Midwest
Big Stone South to Brookings



T111, R48
T110, R48
S34
S35
S4
S3
S2
S9
S10
S11
S16
S15
S14
GR 27
481st Ave
209th St
210th St
Brookings County
1700
1750
1800
1850
1783
1805
1765
1735
1737
1777

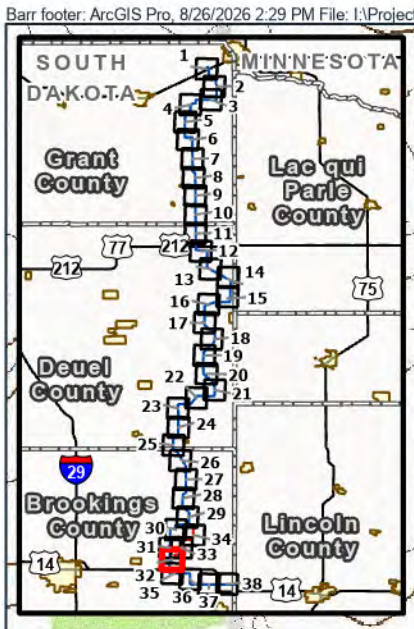
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-31

PowerOn Midwest
Big Stone South to Brookings



Brookings County 765 kV Substation Expansion Area

210th St

CR 27

481st Ave

CR 34

S10 S11 S14 S15 S16 S21 S22 S23 S26 S27

10 11 14 15 22 23

1800 1750 1720 1700 1740

Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Substation Expansion Area

Public Land Survey Township

County Boundary

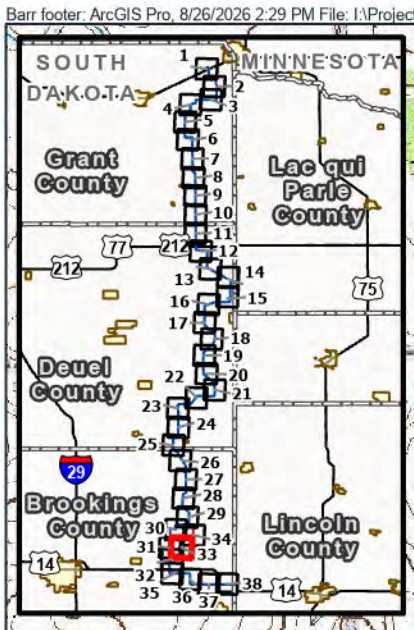
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Feet

TOPOGRAPHY
South Dakota

MAP 6-32

PowerOn Midwest
Big Stone South to Brookings



T111, R48
T110, R48
S35
S36
S1
S2
S3
S10
S11
S12
S13
S14
S15
483rd Ave
209th St
CR 27
210th St
CR 34
Brookings County
1750
1800
1850
1867
1816
1777
1640

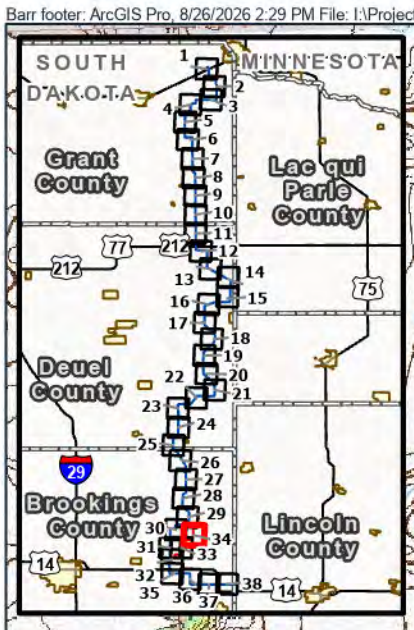
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

205th St

CR 36

CR 8

483rd Ave

484th Ave

Brookings County

T111, R48

T110, R48

T111, R47

T110, R47

R 48 W

R 47 W

S25 S30 S31 S35 S36 S1 S2 S6

1750 1800 1850 1900

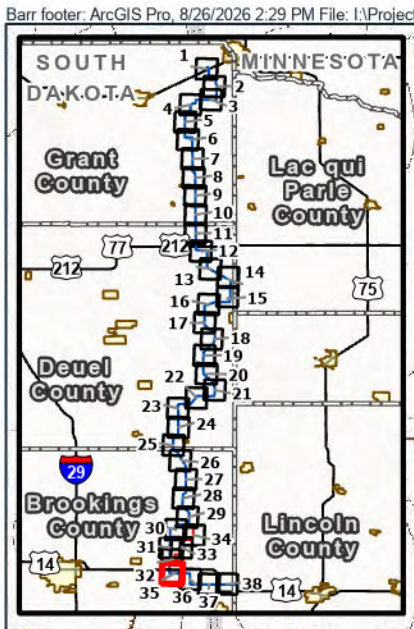
Existing Substation	
345 kV Connector Route	
Right-of-Way	
Substation Expansion Area	
Public Land Survey Township	
County Boundary	

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-34

PowerOn Midwest
Big Stone South to Brookings



S22 S23 S27 S26 S28 S33 S34 S35

22 23 27 26 34 35

CR 27

481st Ave

213th St

Brookings County

Creek

1720 1740 1700 1705 1695 1680 1665 1670 1660 1650 1687 1692 1657 1667 1664 1688

14

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

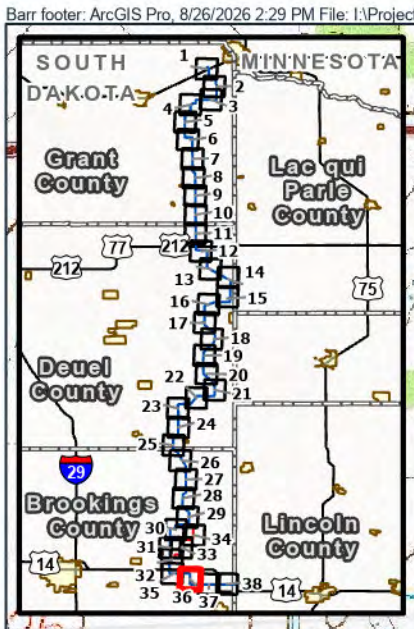
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Feet

TOPOGRAPHY
South Dakota

MAP 6-35

PowerOn Midwest
Big Stone South to Brookings



S24 S19 S25 S30 S26 S36 S31 S35 S1 S2 S6

14 14 14

1754 1747 1750 1733 1753 1750 1750 1750 1724 1700 1700 1726 1709 1700 1700 1707 1692 1700 1670 1680 1689 1677 1670 1680 1686 1690

483rd Ave 484th Ave

213th St 214th St

T110, R48 T110, R47 T109, R48 T109, R47

Brookings County

25 36 1

Medary

Gravel Pit

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

N

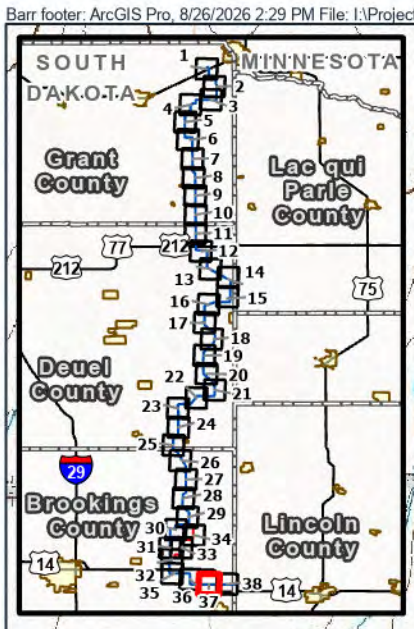
0 500 1,000

Feet

TOPOGRAPHY
South Dakota

MAP 6-36

PowerOn Midwest
Big Stone South to Brookings



485th Ave
213th St
214th St
215th St
T110, R47
T109, R47
Brookings County
S28
S29
S31
S32
S33
S4
S5
S6
S7
S8
S9
31
32
5
6
14
13
1750
1740
1730
1720
1710
1700
1698

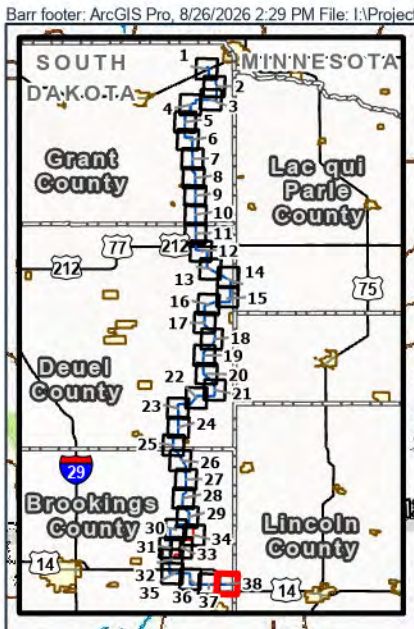
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

TOPOGRAPHY
South Dakota

MAP 6-37

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

N

0 500 1,000

Feet

TOPOGRAPHY
South Dakota

MAP 6-38

PowerOn Midwest
Big Stone South to Brookings

Big Stone South 765 kV Substation Expansion Area

BIG STONE SOUTH SUBSTATION

Granite Quarry

SOUTH DAKOTA

MINNESOTA

Grant County

Lac qui Parle County

Deuel County

Brookings County

Lincoln County

Big Stone County

Milbank

T121, R48
T120, R48

T121, R47
T120, R48

T121, R47
T120, R47

T121, R46
T120, R47

T120, R48
T119, R48

T120, R47
T119, R47

T119, R48
T119, R47

T121, R47

T121, R46

950

900

1000

1050

1100

158

12

75

1

2

3

4

5

Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Substation Expansion Area

Municipal Boundary

Public Land Survey Township

County Boundary

Bedrock Elevation Contour

Surficial Geology

Alluvium

Eolian Sand

Lacustrine

Loess

Outwash

Silty/Loamy Sediment

Till

Unknown

Water

N

0 1 2

Miles

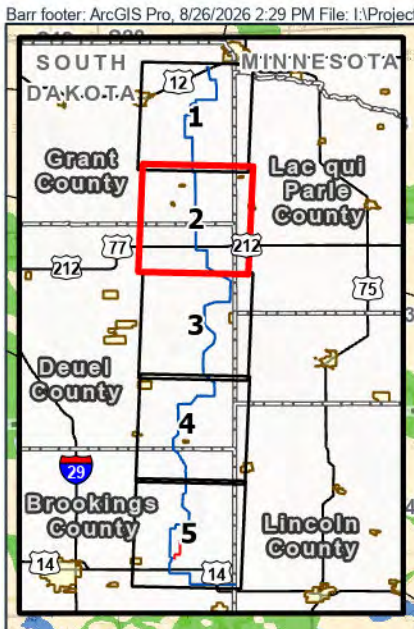
SURFICIAL GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 7-1

PowerOn Midwest

Big Stone South to Brookings



Albee
Revillo
Grant County
Deuel County
Lac qui Parle County
Nassau
Marietta
T119, R48
T118, R48
T119, R47
T118, R47
T118, R48
T117, R48
T118, R47
T117, R47
T117, R48
T116, R48
T117, R47
T116, R47
1000
1050
950
1150
1100
20
40
101
212
SOUTH DAKOTA
MINNESOTA

Existing Substation
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Bedrock Elevation Contour

Surficial Geology

Alluvium
Lacustrine
Loess
Outwash
Silty/Loamy Sediment
Till
Unknown
Water

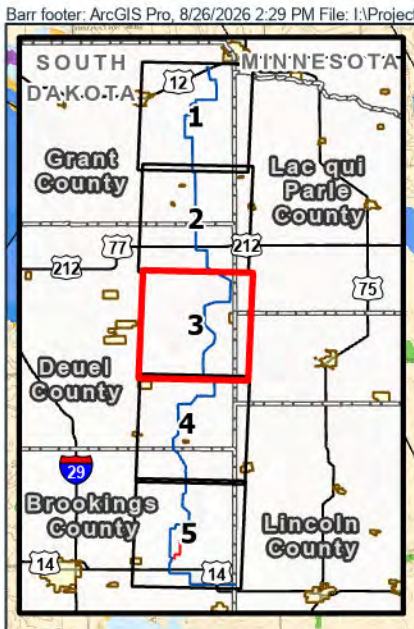
0 1 2
Miles

SURFICIAL GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 7-2

PowerOn Midwest
Big Stone South to Brookings



Deuel County

Lac qui Parle County

Yellow Medicine County

Gary

T116, R48
T115, R48
T114, R48
T116, R47
T115, R47
T114, R47

1000 1050 1100 1150 1200 950

101 22 68

SOUTH DAKOTA MINNESOTA

- Existing Substation
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Bedrock Elevation Contour

Surficial Geology

- Alluvium
- Colluvium/Slopewash
- Eolian Sand
- Lacustrine
- Loess
- Outwash
- Silty/Loamy Sediment
- Till
- Unknown
- Water

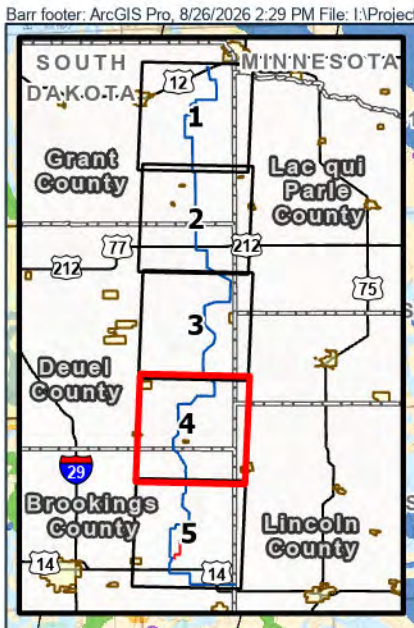
0 1 2
Miles

SURFICIAL GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 7-3

PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Bedrock Elevation Contour

Surficial Geology

Alluvium
Colluvium/Slopewash
Eolian Sand
Lacustrine
Loess
Outwash
Silty/Loamy Sediment
Till
Unknown
Water

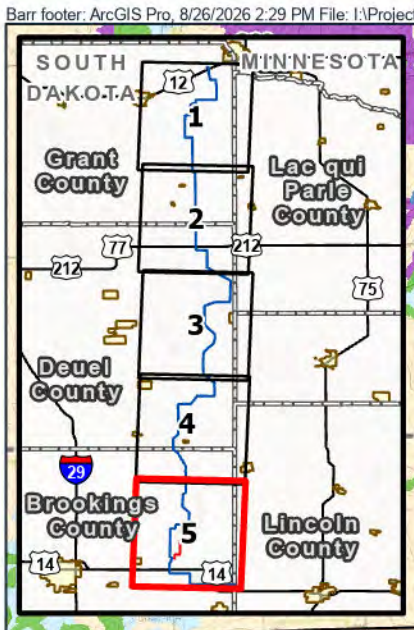
0 1 2
Miles

SURFICIAL GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 7-4

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

Brookings County 765 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Brookings County

Lincoln County

SOUTH DAKOTA

MINNESOTA

White

Bushnell

T112, R48
T111, R48
T112, R47
T111, R47
T111, R48
T110, R48
T111, R47
T110, R47
T110, R48
T109, R48
T110, R47
T109, R47

1150 1200 1250 1300 1350 1400 1450 1500

30 14 19

- Existing Substation
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Bedrock Elevation Contour

Surficial Geology

- Alluvium
- Colluvium/Slopewash
- Eolian Sand
- Lacustrine
- Loess
- Outwash
- Silty/Loamy Sediment
- Till
- Unknown
- Water

N

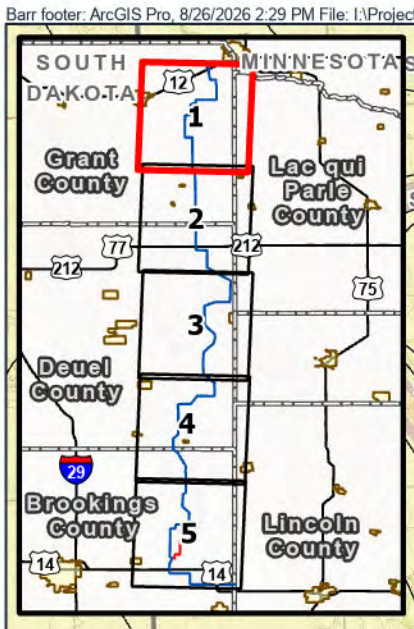
0 1 2
Miles

SURFICIAL GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 7-5

PowerOn Midwest
Big Stone South to Brookings



Big Stone South 765 kV Substation Expansion Area

BIG STONE SOUTH SUBSTATION

Granite Quarry

Grant County

Lac qui Parle County

Big Stone County

SOUTH DAKOTA

MINNESOTA

Milbank

T121, R48
T120, R48

T121, R47
T120, R48

T121, R47
T120, R47

T121, R46
T120, R47

T120, R48
T119, R48

T120, R47
T119, R47

T120, R48
T119, R48

T120, R47
T119, R47

T121, R47

T121, R46

950

900

1000

1050

1100

12

75

158

S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36

Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Substation Expansion Area

Municipal Boundary

Public Land Survey Township

County Boundary

Bedrock Elevation Contour

Bedrock Geology

Carlile Shale

Graneros Shale

Greenhorn Limestone

Milbank Granite

N

0 1 2

Miles

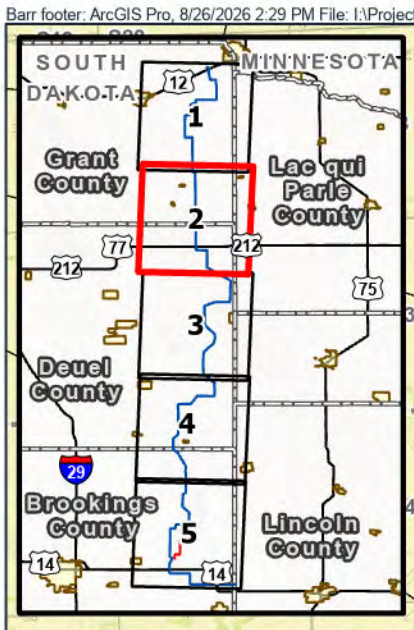
BEDROCK GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 8-1

PowerOn Midwest

Big Stone South to Brookings



Albee

Revillo

Nassau

Peas Lake

Marietta

Grant County

Lac qui Parle County

Deuel County

SOUTH DAKOTA

MINNESOTA

T119, R48
T118, R48

T119, R47
T118, R47

T118, R48
T117, R48

T118, R47
T117, R47

T117, R48
T116, R48

T117, R47
T116, R47

1000
1050
1100
1150
950

20
40
101
212

- Existing Substation
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Bedrock Elevation Contour

Bedrock Geology

- Carlile Shale
- Niobrara Formation
- Pierre Shale

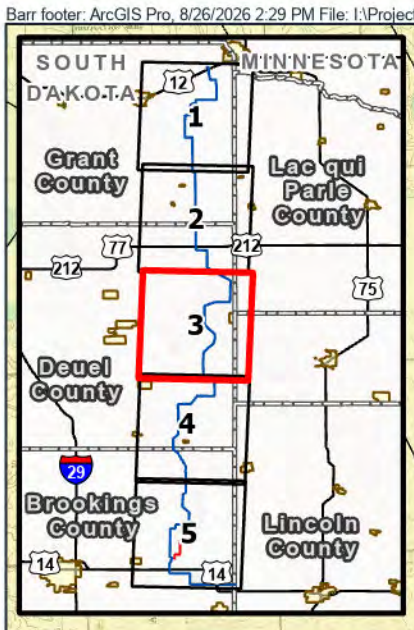
0 1 2
Miles

BEDROCK GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 8-2

PowerOn Midwest
Big Stone South to Brookings



Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Municipal Boundary

Public Land Survey Township

County Boundary

Bedrock Elevation Contour

Bedrock Geology

Carlile Shale

Niobrara Formation

Pierre Shale

0 1 2

Miles

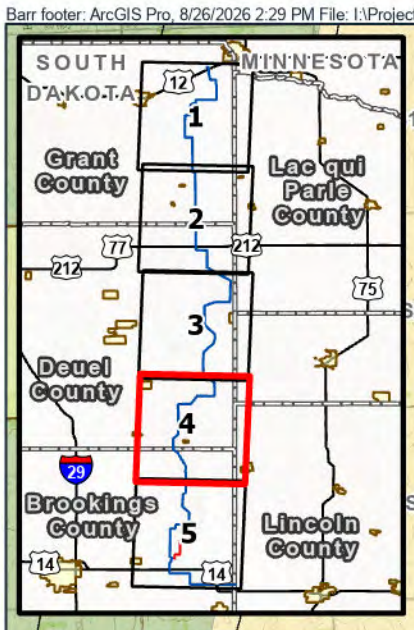
BEDROCK GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 8-3

PowerOn Midwest

Big Stone South to Brookings



Deuel County
Brookings County
Lincoln County
Yellow Medicine County
Toronto
Astoria
T114, R48
T113, R48
T112, R48
T114, R47
T113, R47
T112, R47
1150
1200
1250
1300
28
271
SOUTH DAKOTA
MINNESOTA

- Existing Substation
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Bedrock Elevation Contour

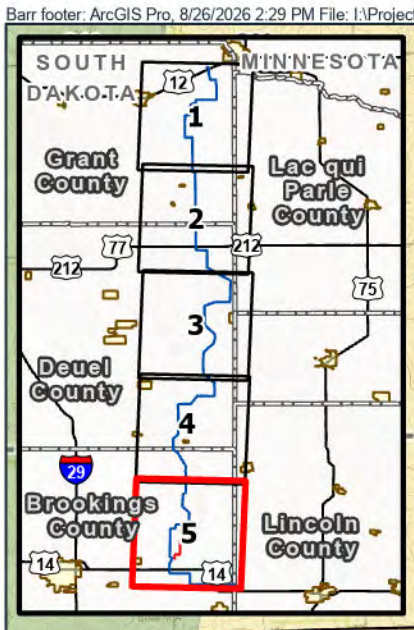
Bedrock Geology
- Niobrara Formation
- Pierre Shale

0 1 2
Miles

BEDROCK GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS
South Dakota

MAP 8-4

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

Brookings County 765 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Brookings County

Lincoln County

SOUTH DAKOTA

MINNESOTA

White

Bushnell

T112, R48
T111, R48

T112, R47
T111, R47

T111, R48
T110, R48

T111, R47
T110, R47

T110, R48
T109, R48

T110, R47
T109, R47

1150 1200 1250 1300 1350 1400 1450 1500

30 14 19

- Existing Substation
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Bedrock Elevation Contour

Bedrock Geology

- Cretaceous, undifferentiated
- Niobrara Formation
- Pierre Shale
- Sioux Quartzite

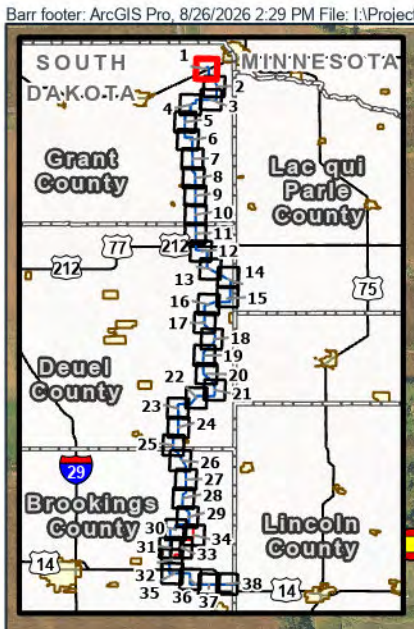
0 1 2
Miles

BEDROCK GEOLOGY WITH ELEVATION AND BEDROCK DEPTH CROSS-SECTIONS

South Dakota

MAP 8-5

PowerOn Midwest
Big Stone South to Brookings



484th Ave

CR 4

BIG STONE SOUTH SUBSTATION

Big Stone American Legion & Campground

12

Big Stone South 765 kV Substation Expansion Area

485th Ave

146th St

Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Substation Expansion Area

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

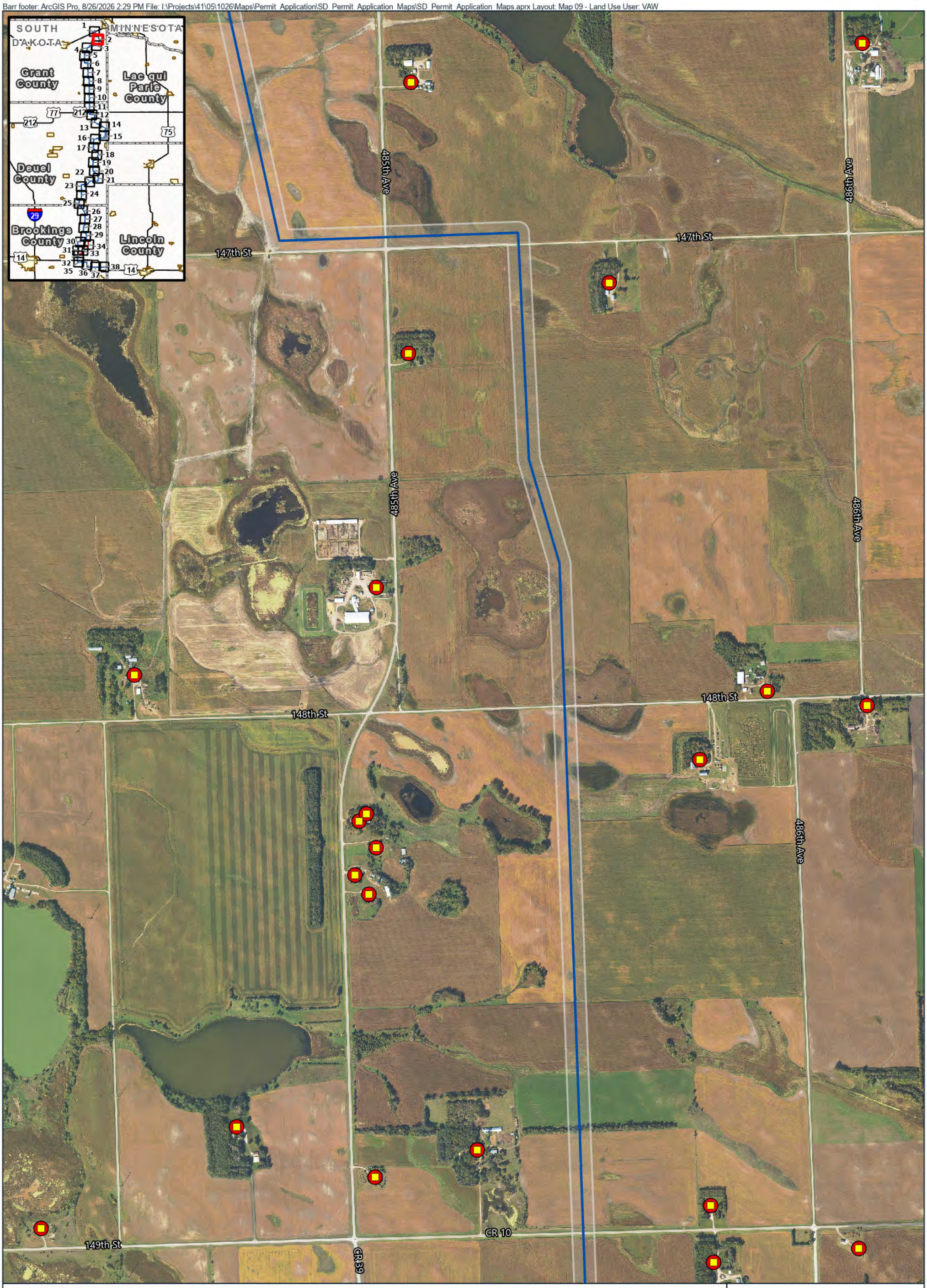
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-1

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

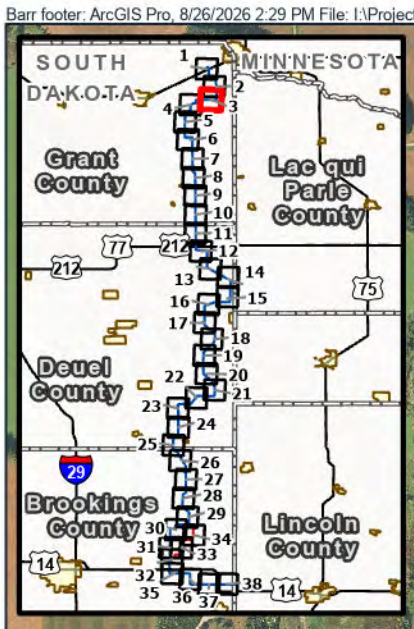
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-2

PowerOn Midwest
Big Stone South to Brookings



149th St
CR 10
CR 39
150th St
484th Ave
Bethlehem Lutheran Church

SD QUARRIES LLC
COLD SPRING GRANITE CO
COLD SPRING GRANITE COMPANY
K-6 QUARRIES LLC

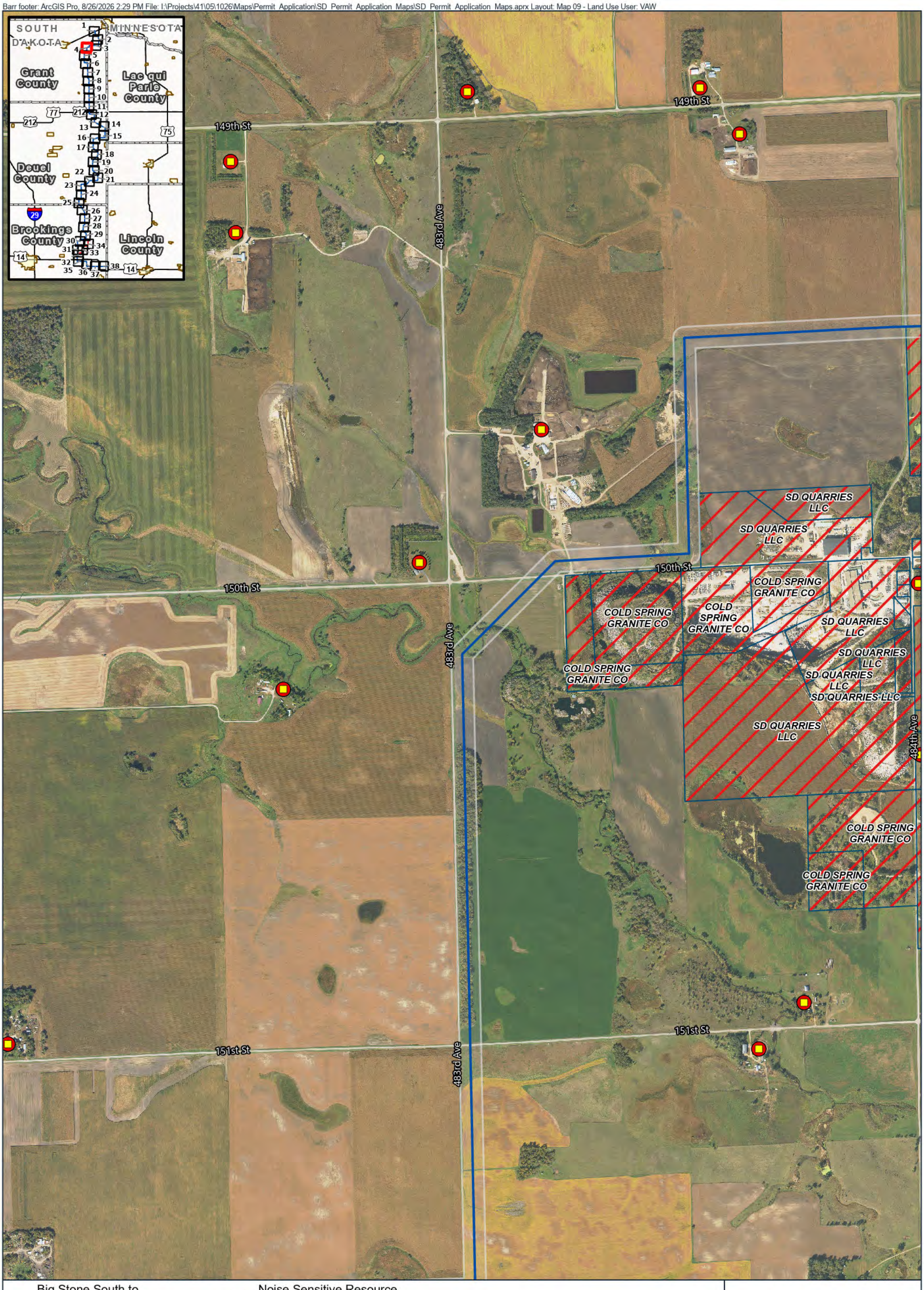
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Noise Sensitive Resource (Residences, Churches, Schools, and Parks)
Existing and potential extractive nonrenewable resources

0 500 1,000
Feet

LAND USE
South Dakota

MAP 9-3

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Existing and potential extractive nonrenewable resources

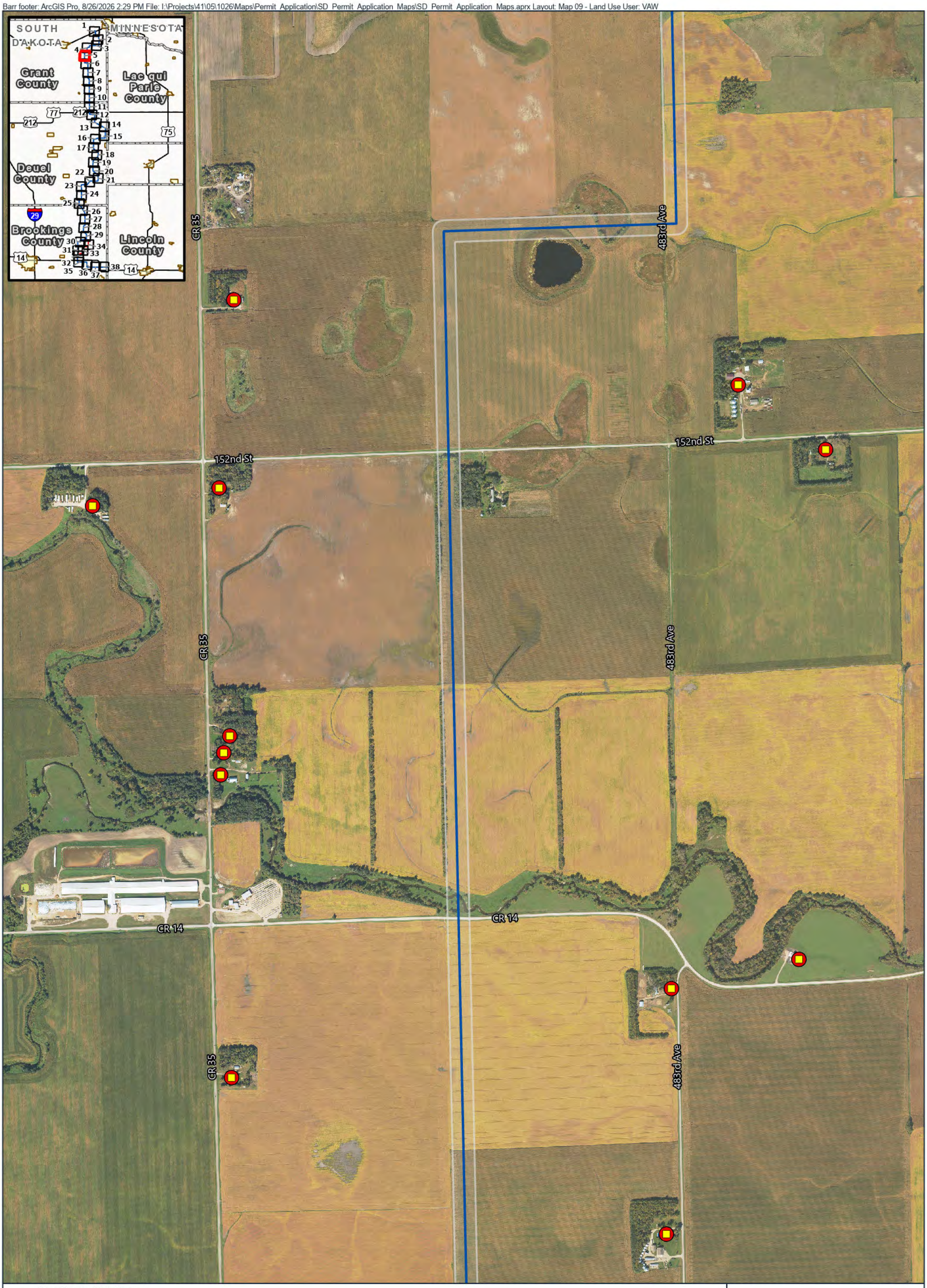
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-4

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

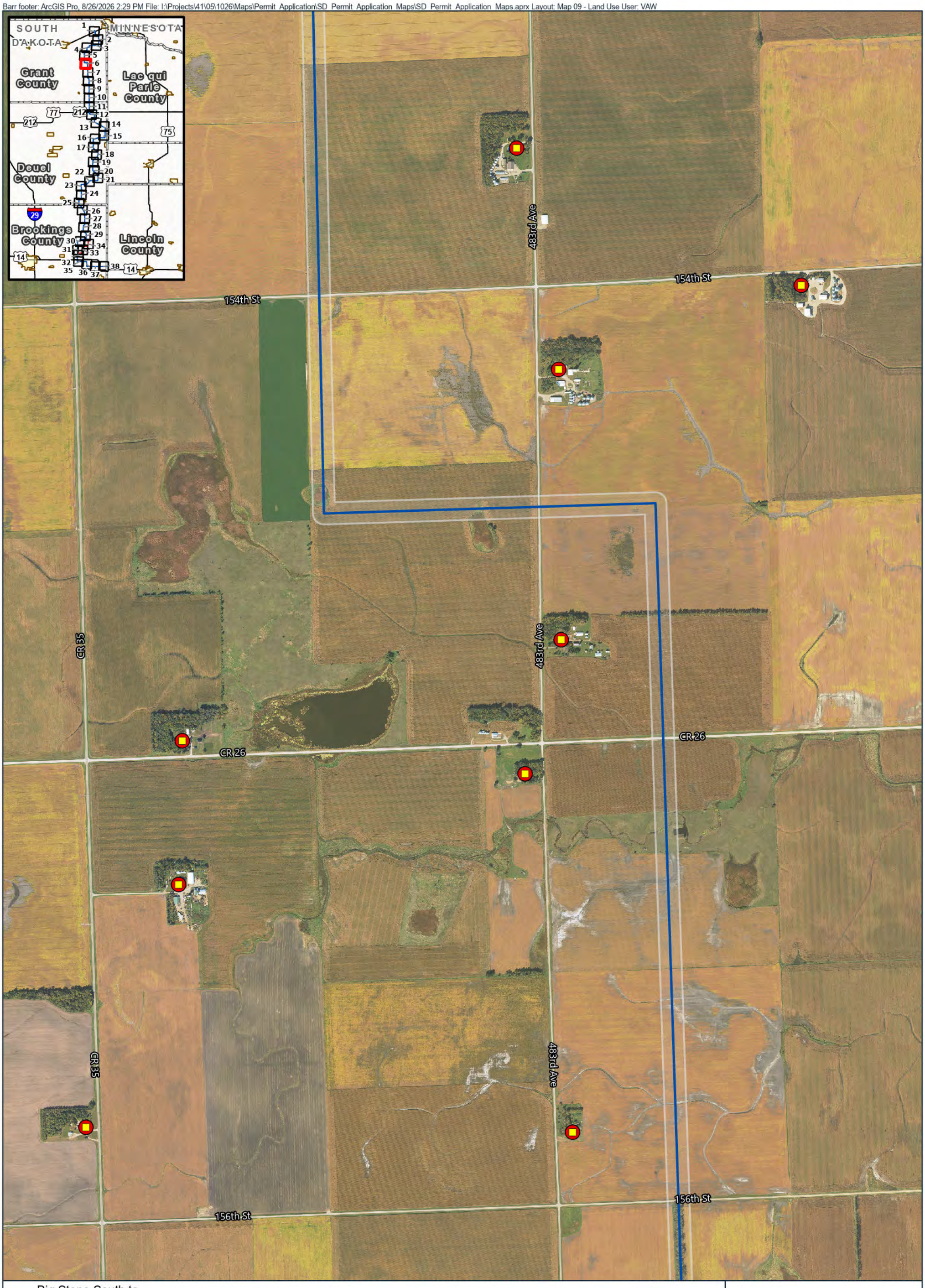
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-5

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

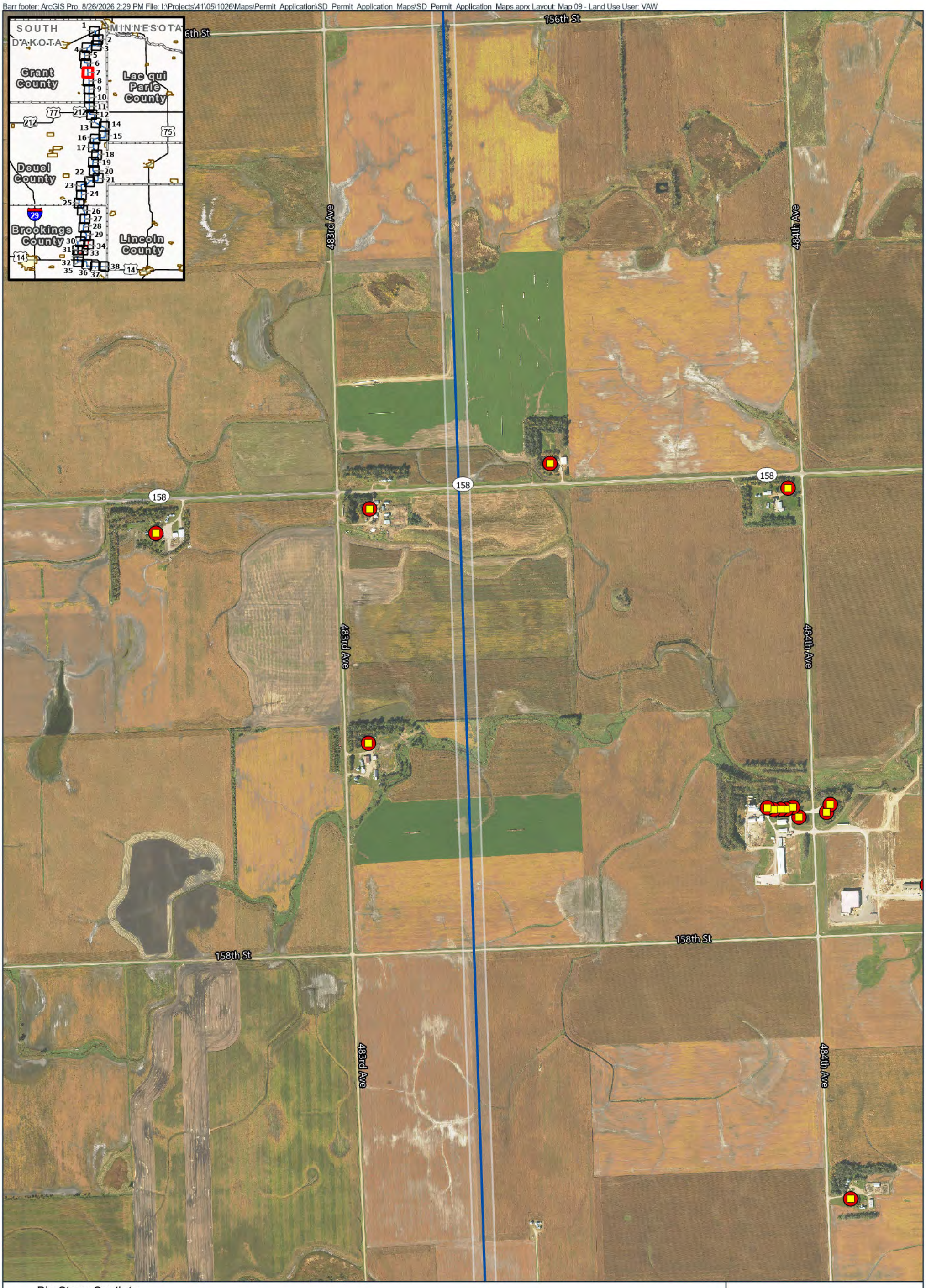
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Feet

LAND USE
South Dakota

MAP 9-6

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-7

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

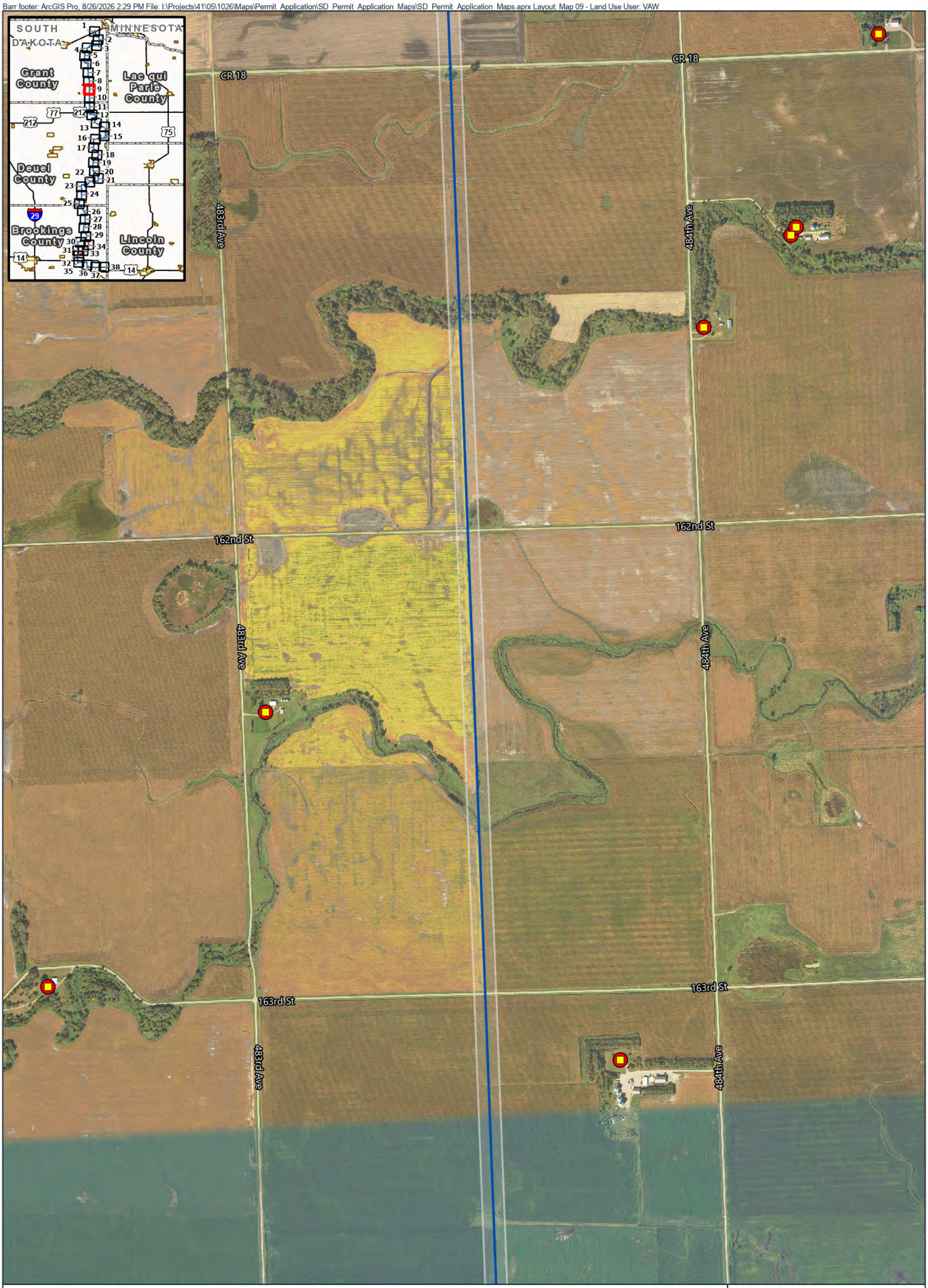
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-8

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

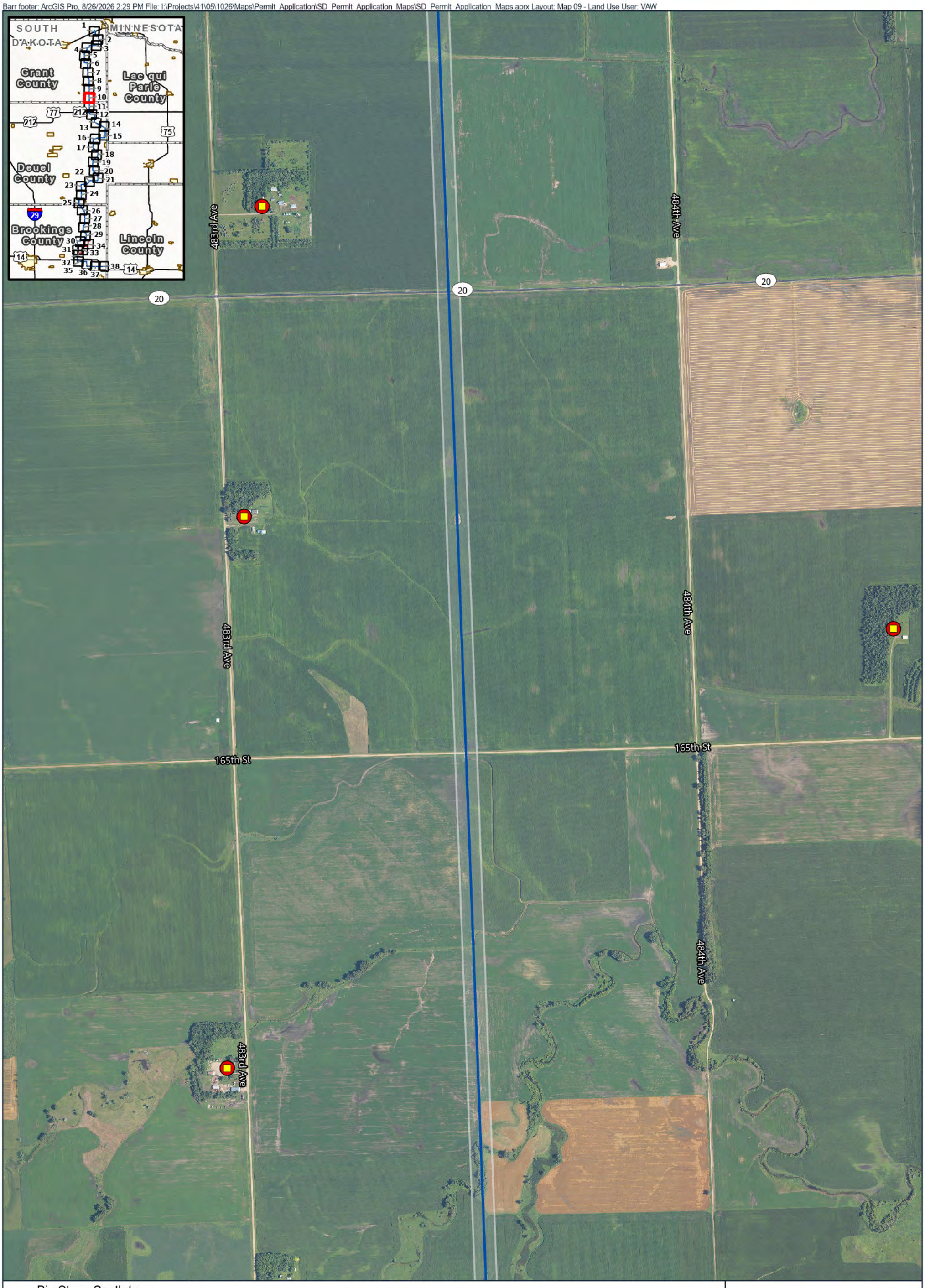
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-9

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

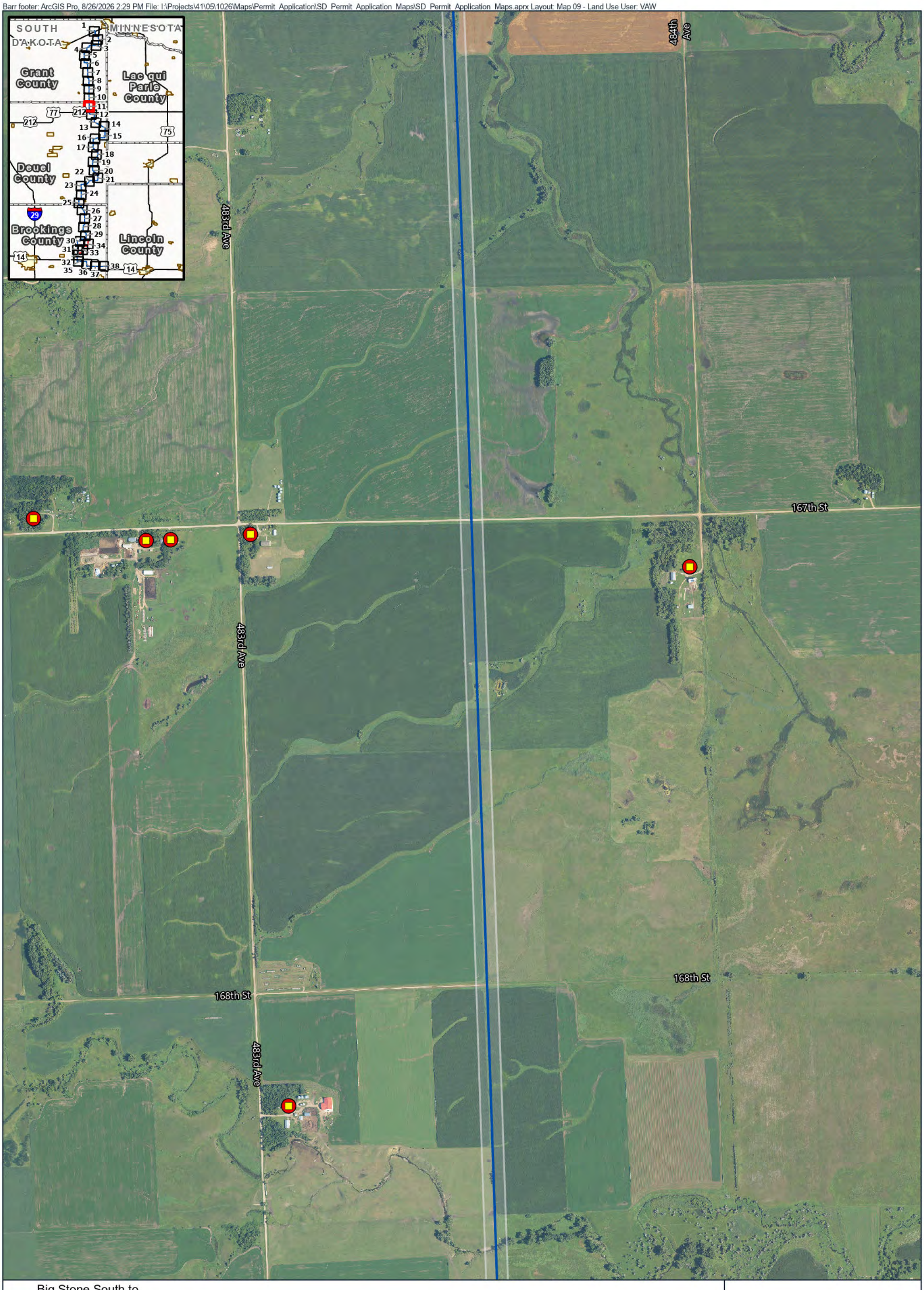
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Feet

LAND USE
South Dakota

MAP 9-10

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

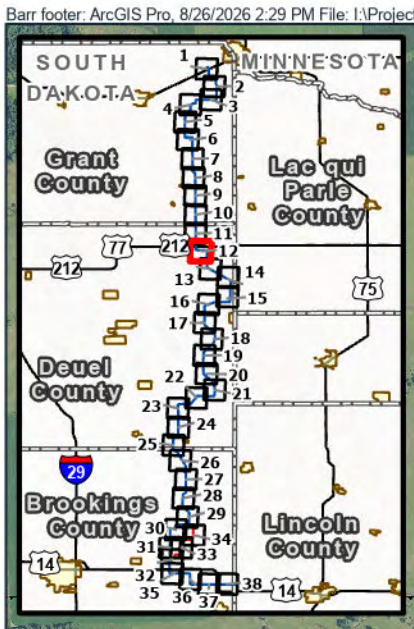
Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

0 500 1,000
Feet

LAND USE
South Dakota

MAP 9-11

PowerOn Midwest
Big Stone South to Brookings



485th Ave

212

212

212

170th St

170th St

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

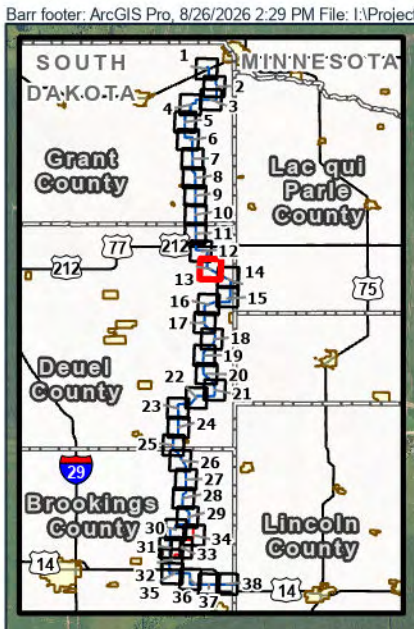
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Feet

LAND USE
South Dakota

MAP 9-12

PowerOn Midwest
Big Stone South to Brookings



485th Ave

CR 310

CR 310

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

N

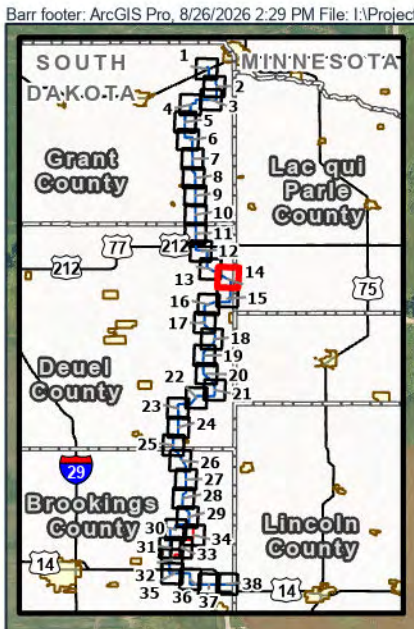
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Feet

LAND USE
South Dakota

MAP 9-13

PowerOn Midwest
Big Stone South to Brookings



SOUTH DAKOTA

MINNESOTA

GR 310

174th St

174th St

GR 310

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

N

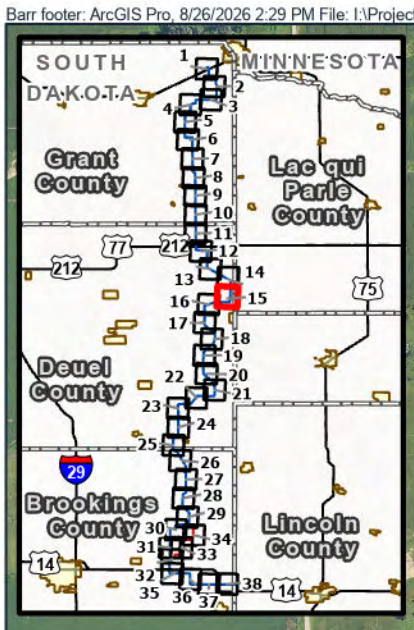
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Feet

LAND USE
South Dakota

MAP 9-14

PowerOn Midwest
Big Stone South to Brookings



CR 513

CR 310

488th Ave

SOUTH DAKOTA

MINNESOTA

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

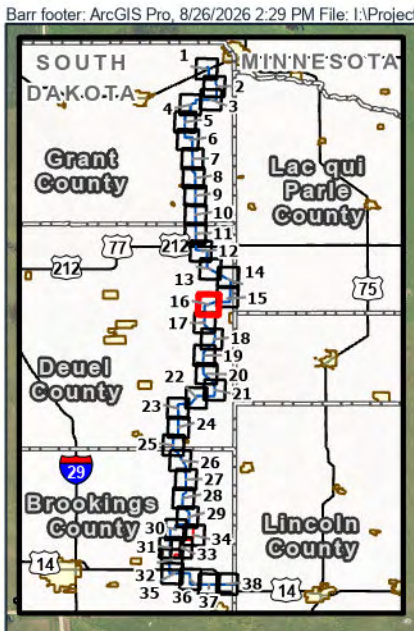
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Feet

LAND USE
South Dakota

MAP 9-15

PowerOn Midwest
Big Stone South to Brookings



484th Ave

484th Ave

178th St

178th St

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

N

0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-16

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

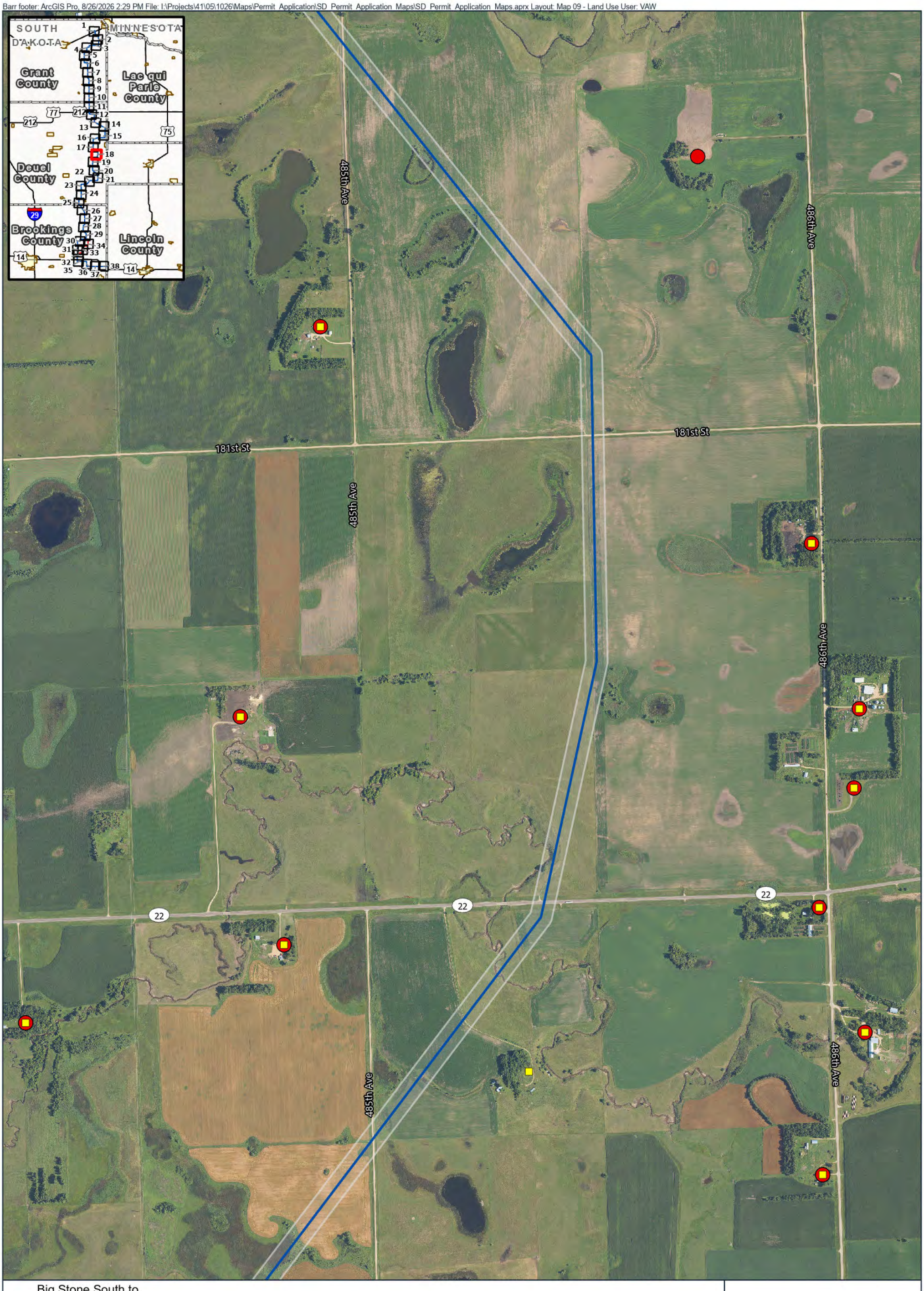
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-17

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

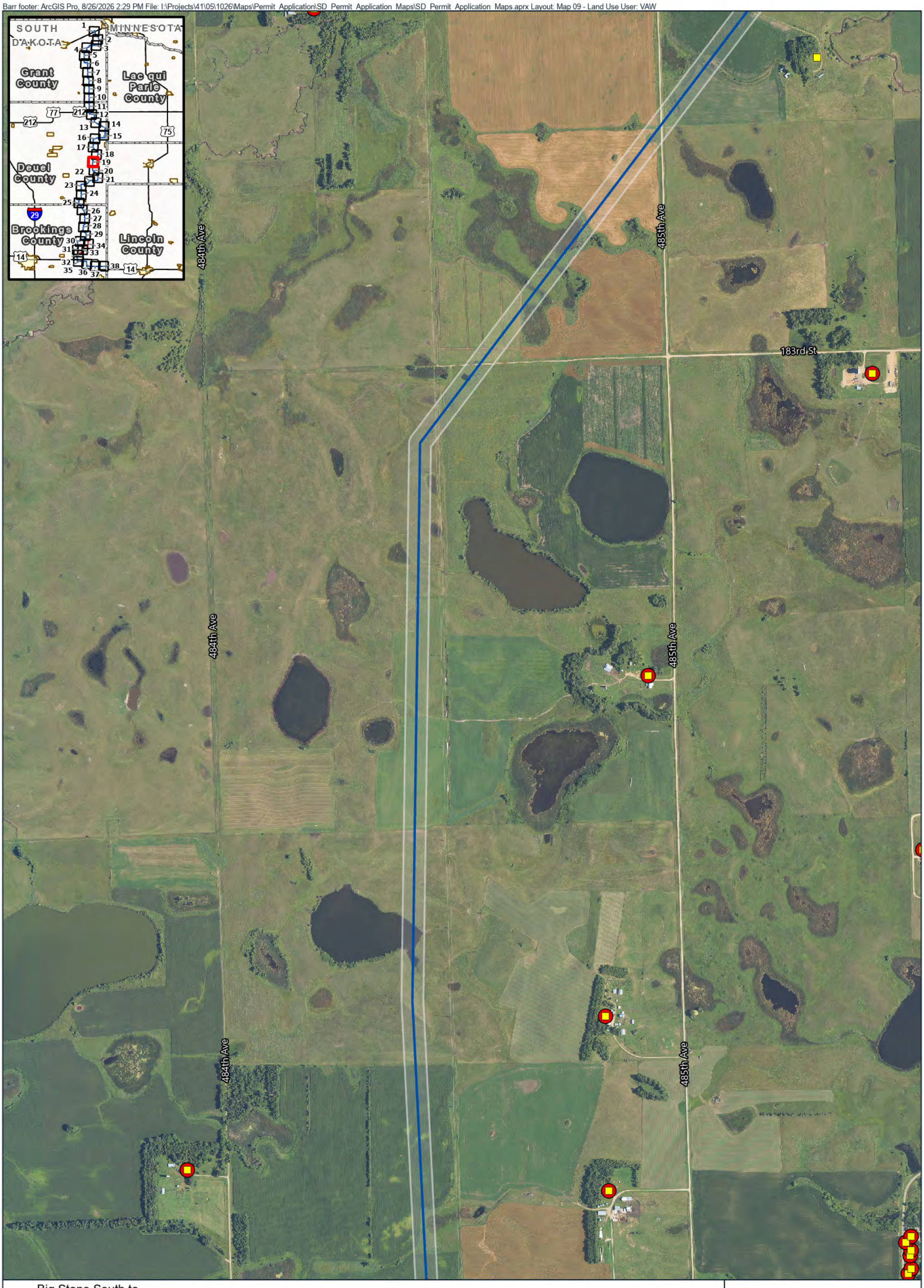
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-18

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

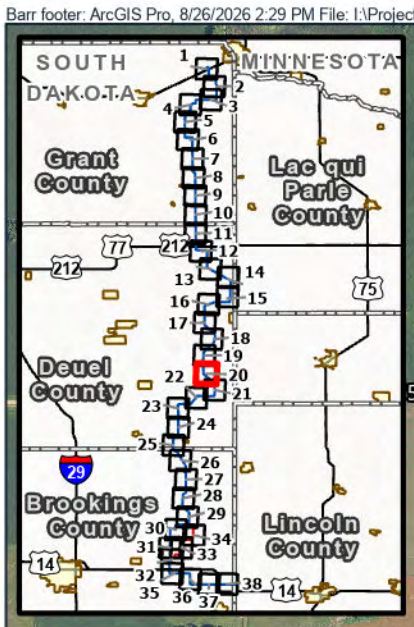
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-19

PowerOn Midwest
Big Stone South to Brookings



CR 375
485th Ave
186th St
484th Ave
187th St

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

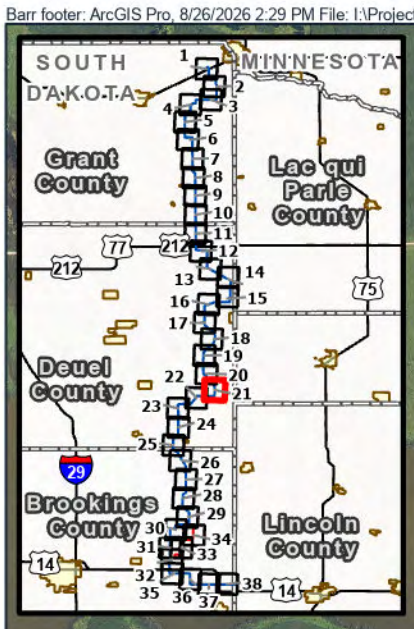
Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

0 500 1,000
Feet

LAND USE
South Dakota

MAP 9-20

PowerOn Midwest
Big Stone South to Brookings



485th Ave

CR 516

CR 314

189th St

CR 111

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

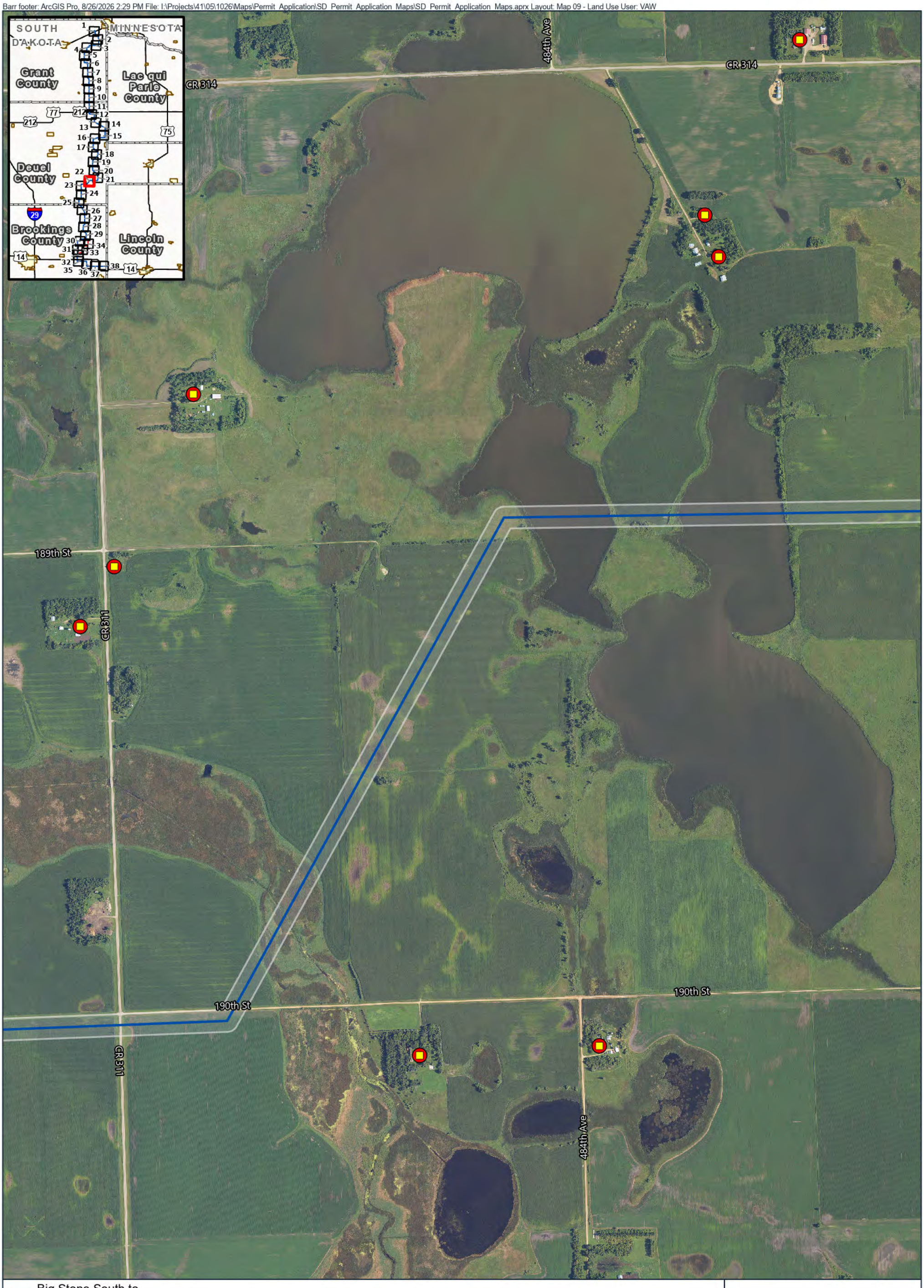
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-21

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

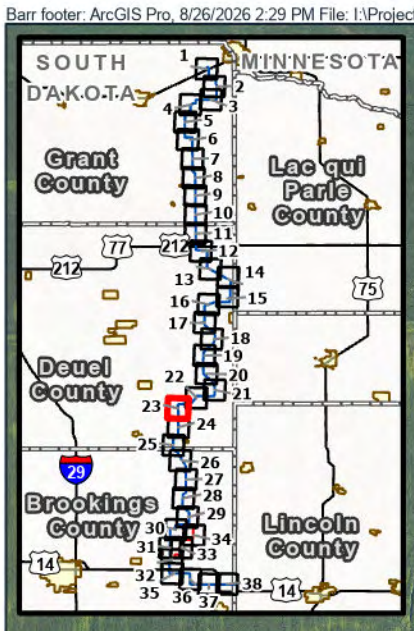
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Feet

LAND USE
South Dakota

MAP 9-22

PowerOn Midwest
Big Stone South to Brookings



482nd Ave
CR 311
190th St
191st St

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

0 500 1,000
Feet

LAND USE
South Dakota

MAP 9-23

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

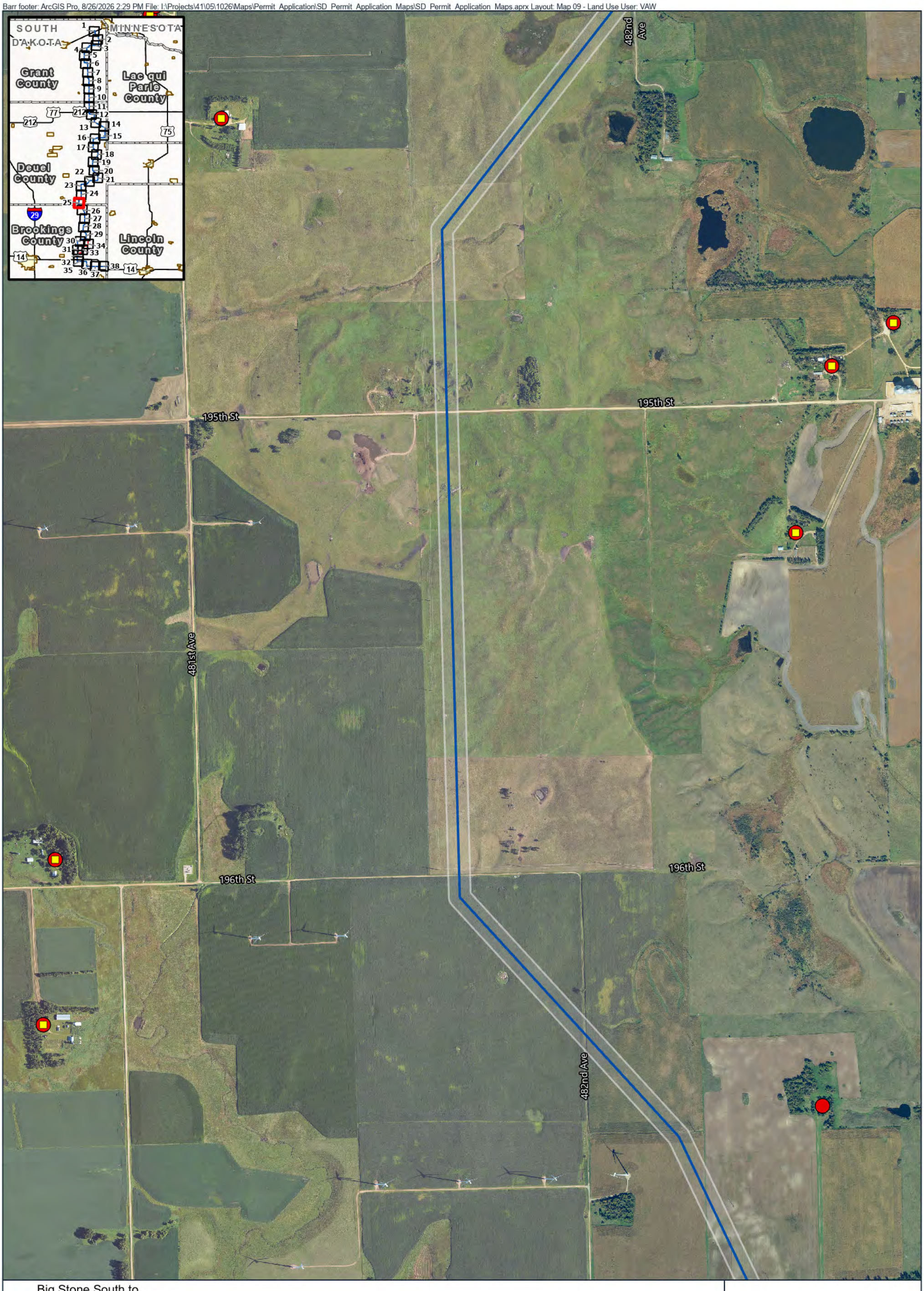
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-24

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

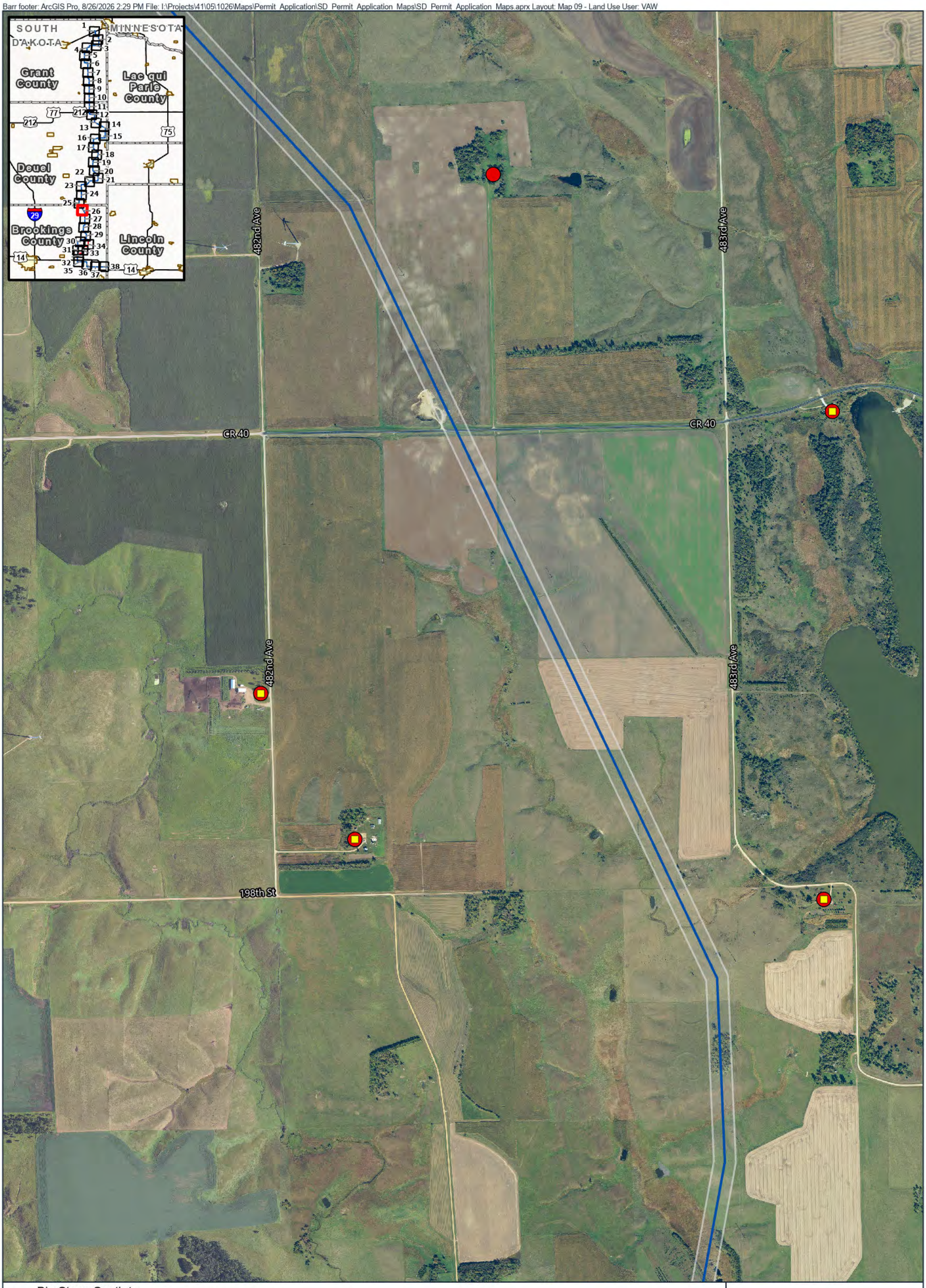
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-25

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

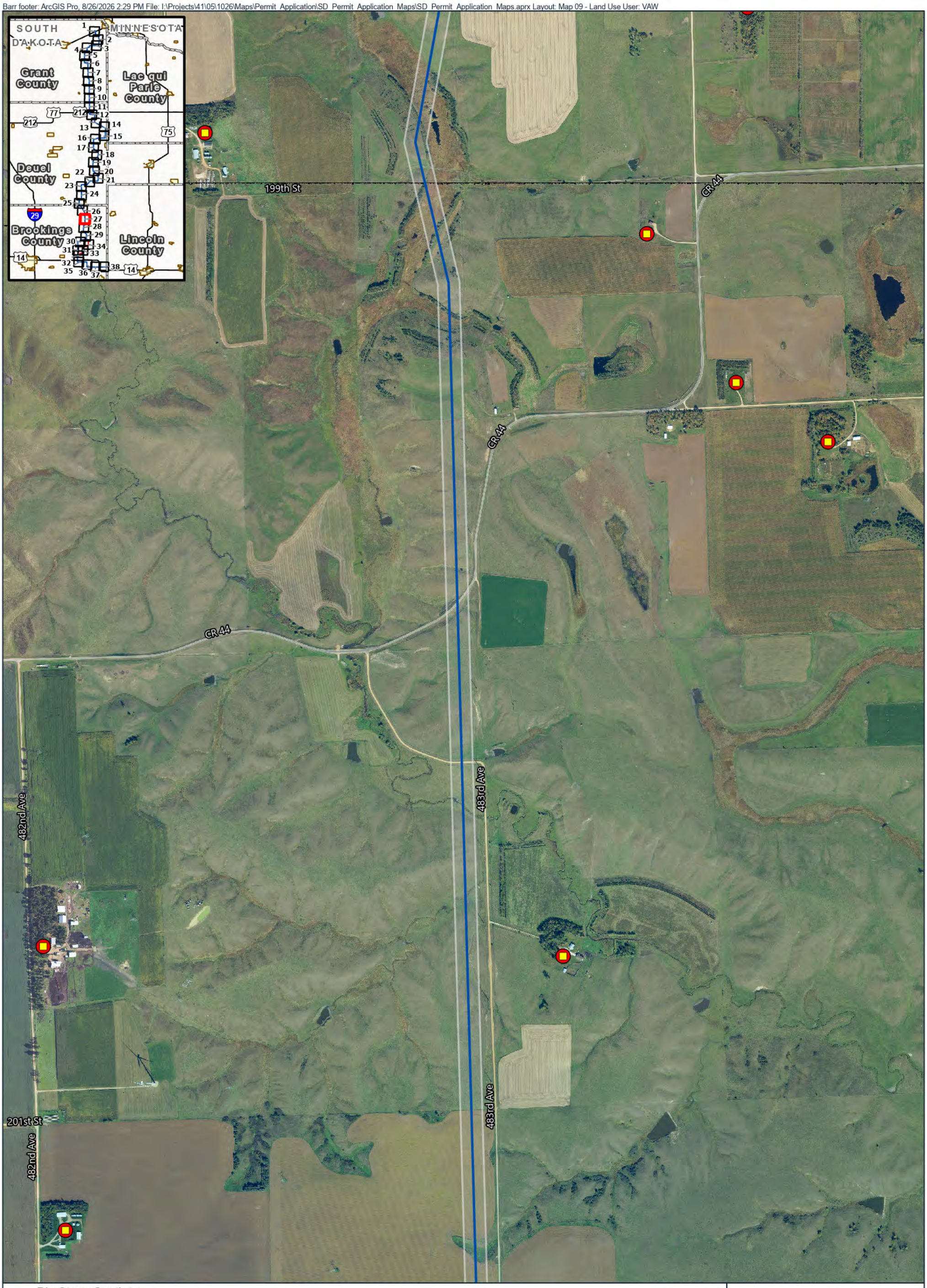
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-26

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-27

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

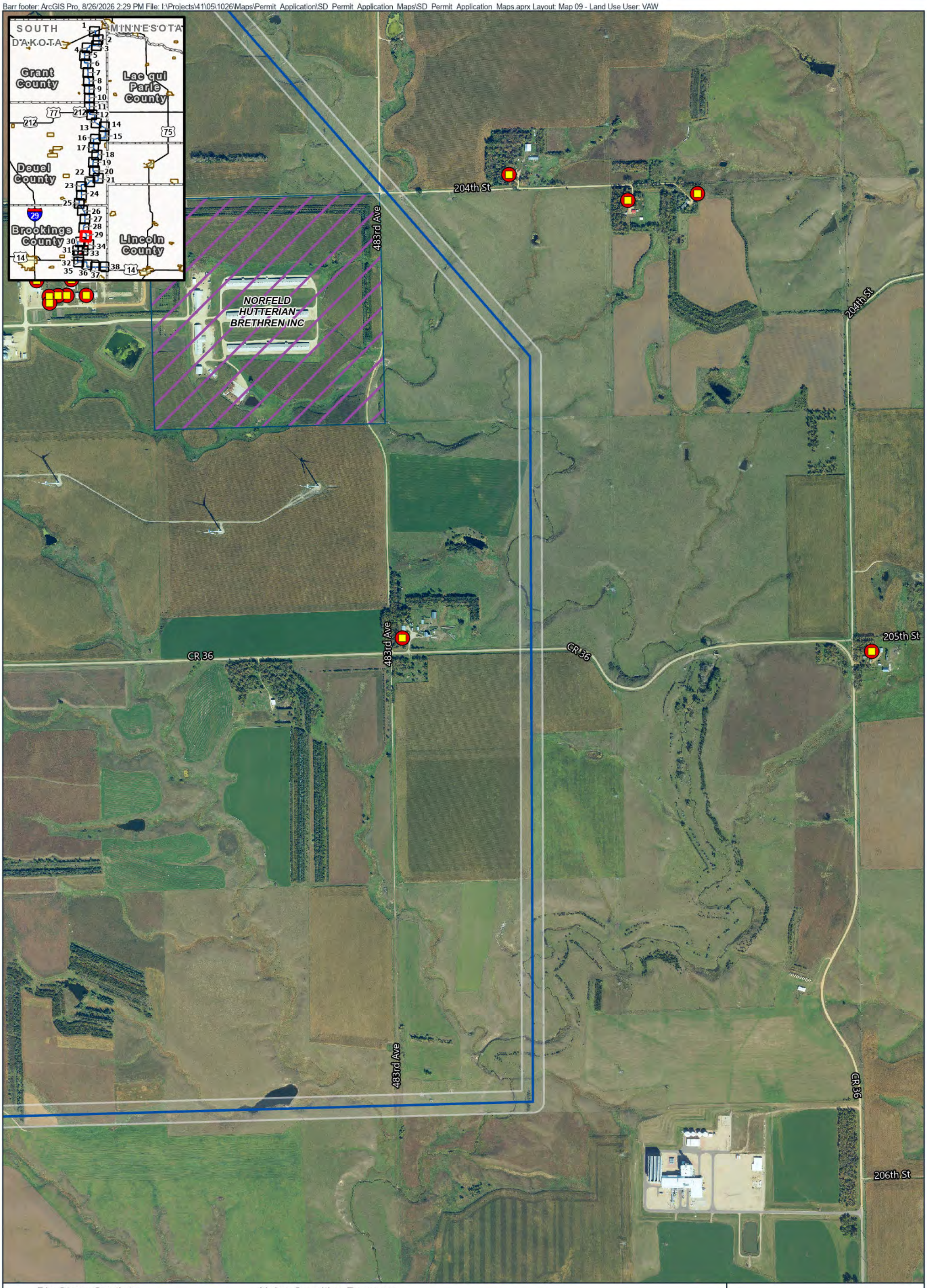
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-28

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Institution

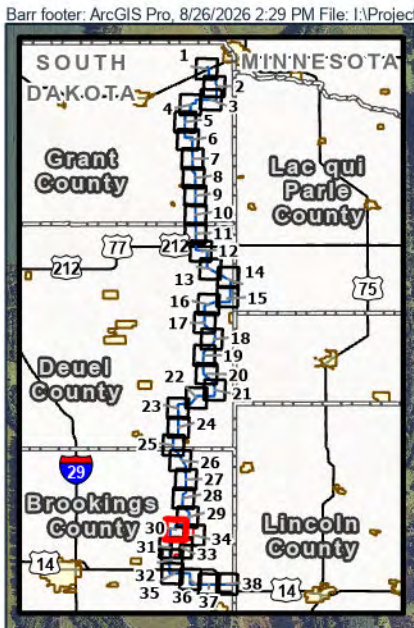
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-29

PowerOn Midwest
Big Stone South to Brookings



206th St

CR 27

483rd Ave

CEDAR BREAKS RANCH LLP

NORFELD HUTTERIAN BRETHREN INC

CR 8

Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Institution

Ranch

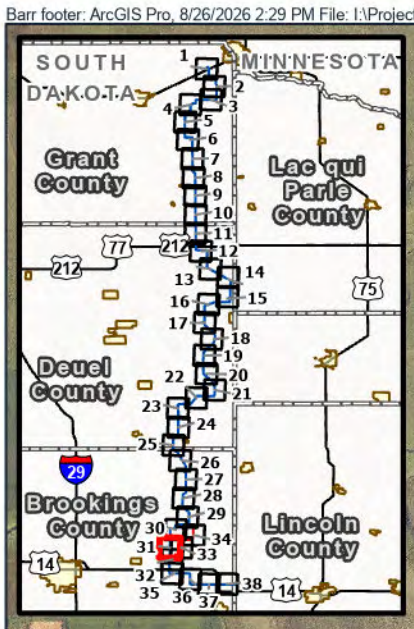
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-30

PowerOn Midwest
Big Stone South to Brookings



CR 27

ROLLAND HUTTERIAN BRETHREN INC

481st Ave

209th St

210th St

Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Substation Expansion Area

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Institution

N

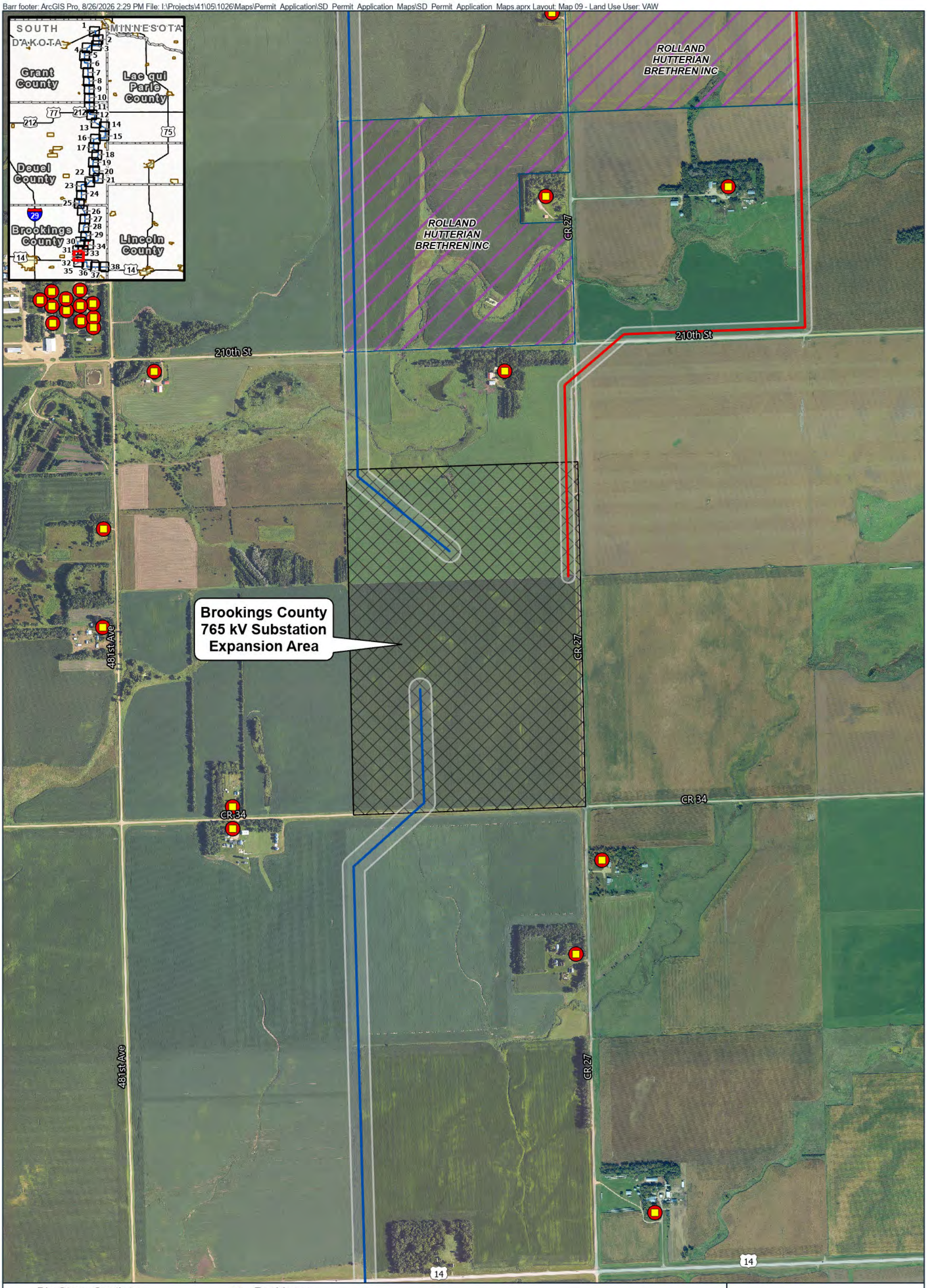
0 500 1,000

Feet

LAND USE
South Dakota

MAP 9-31

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Substation Expansion Area

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Institution

N

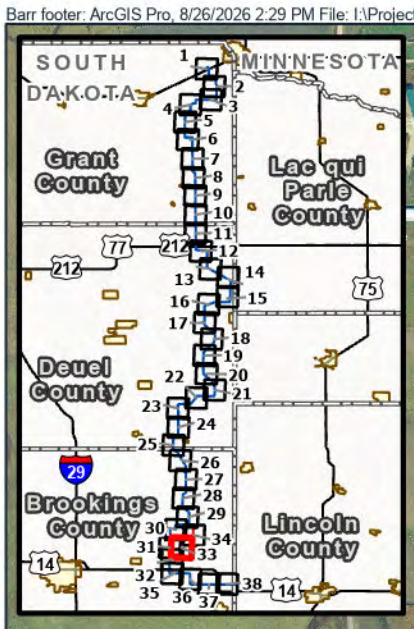
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Feet

LAND USE
South Dakota

MAP 9-32

PowerOn Midwest
Big Stone South to Brookings



483rd Ave

ROLLAND HUTTERIAN BRETHREN INC

209th St

CR 27

210th St

CR 34

Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Substation Expansion Area

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Institution

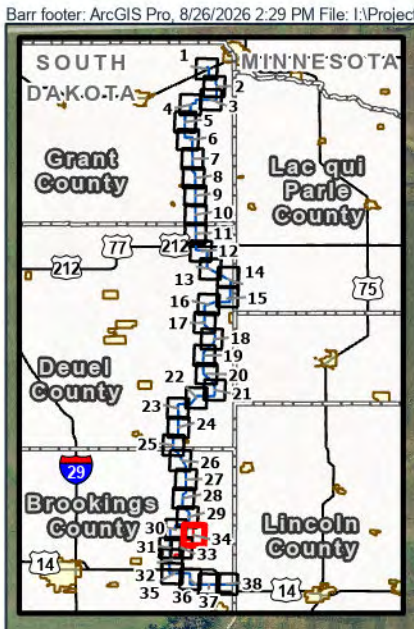
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Feet

LAND USE
South Dakota

MAP 9-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

206th St

CR 36

CR 8

483rd Ave

484th Ave

483rd Ave

484th Ave

- Existing Substation
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Residence
- Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

N

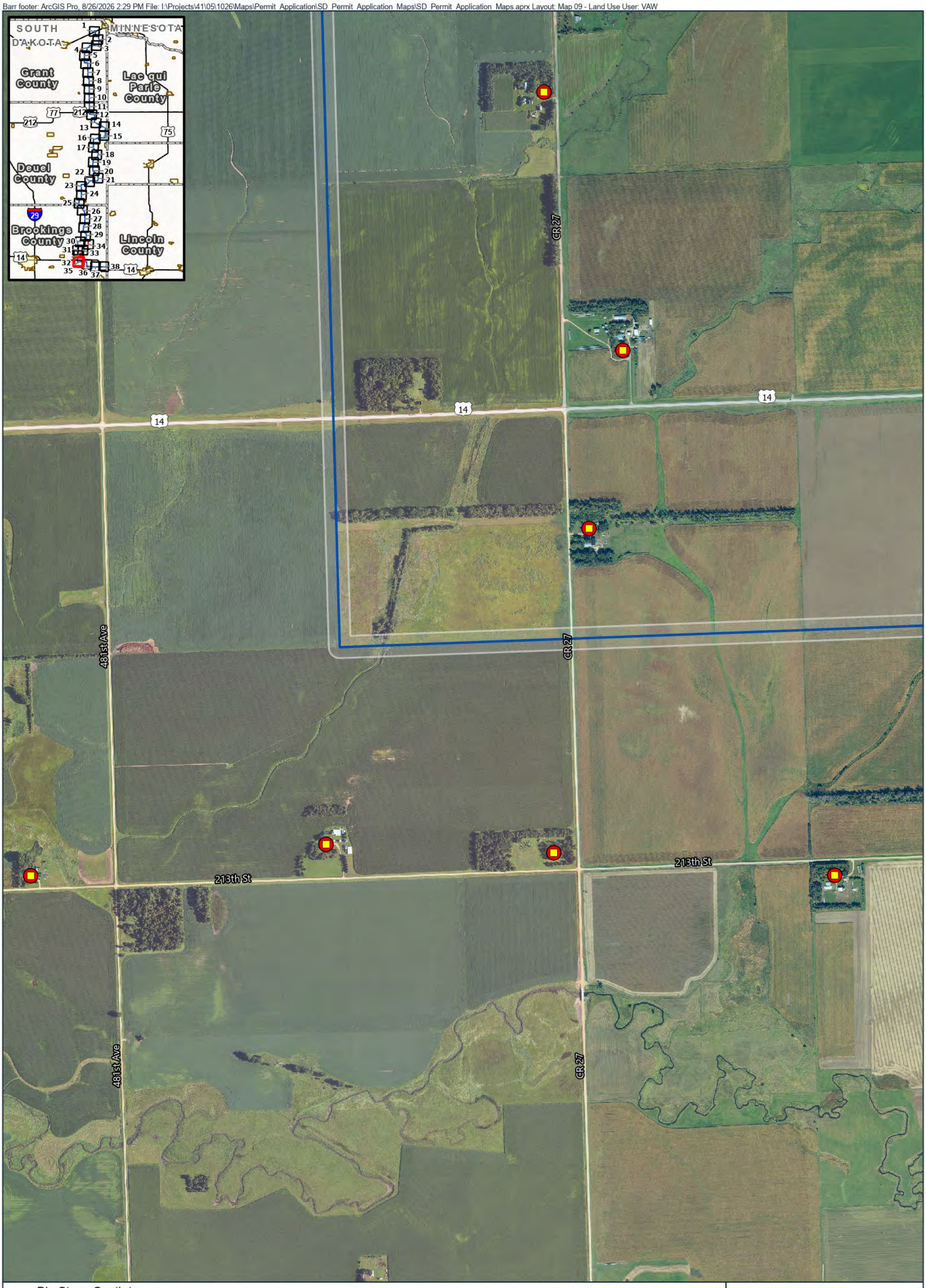
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Feet

LAND USE
South Dakota

MAP 9-34

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

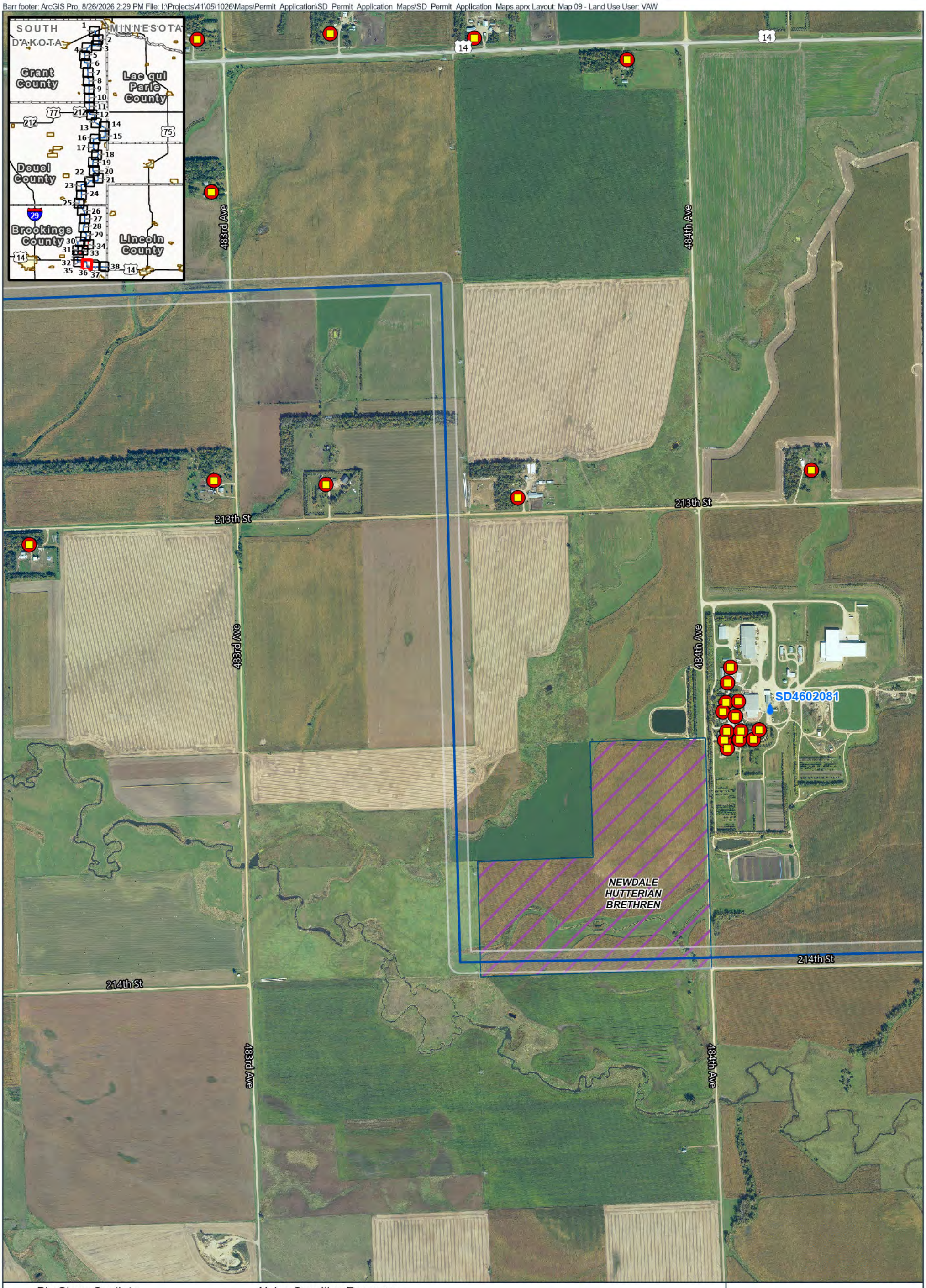
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Feet

LAND USE
South Dakota

MAP 9-35

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

Public Drinking Water Systems

Institution

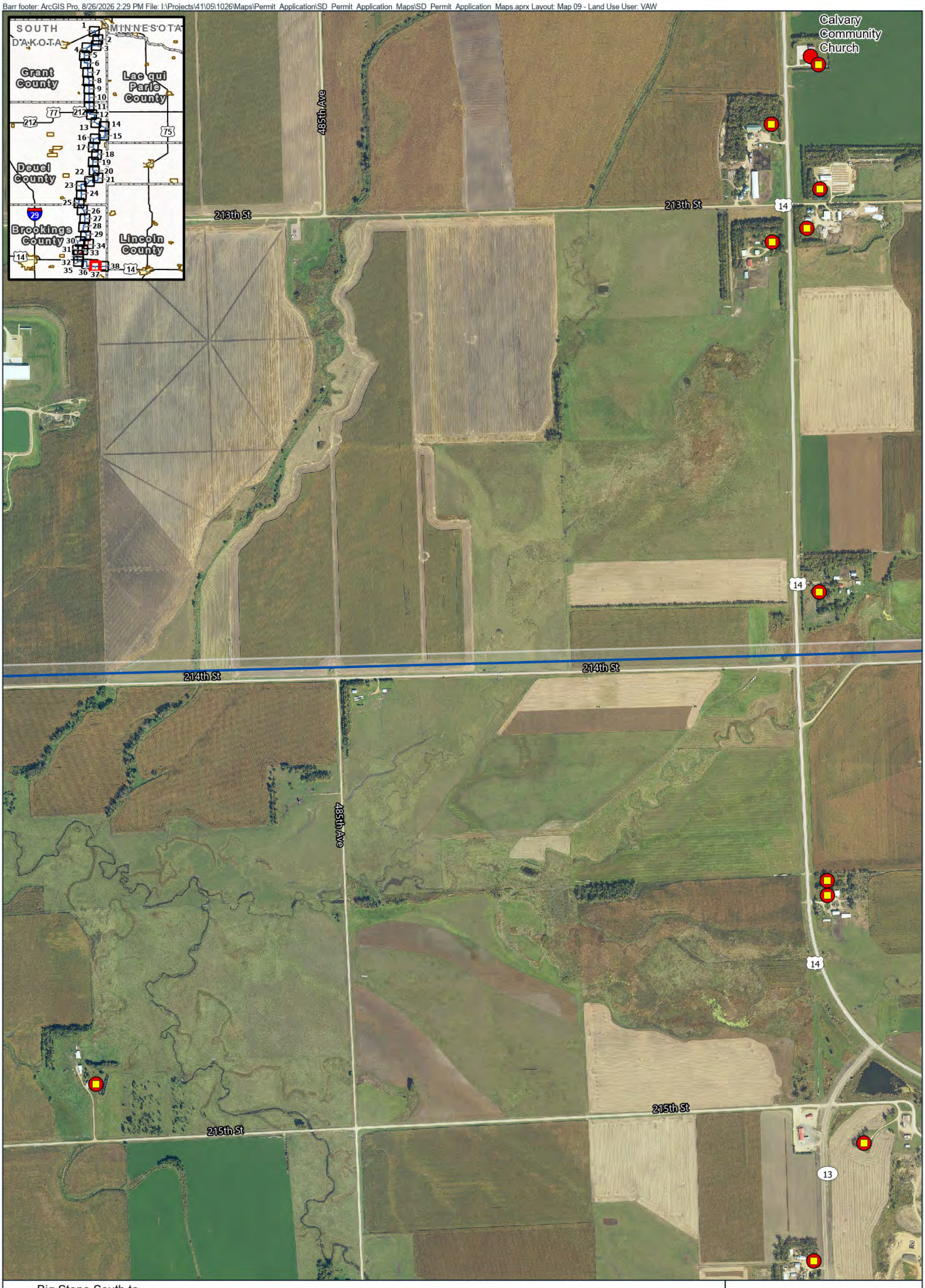
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Feet

LAND USE
South Dakota

MAP 9-36

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

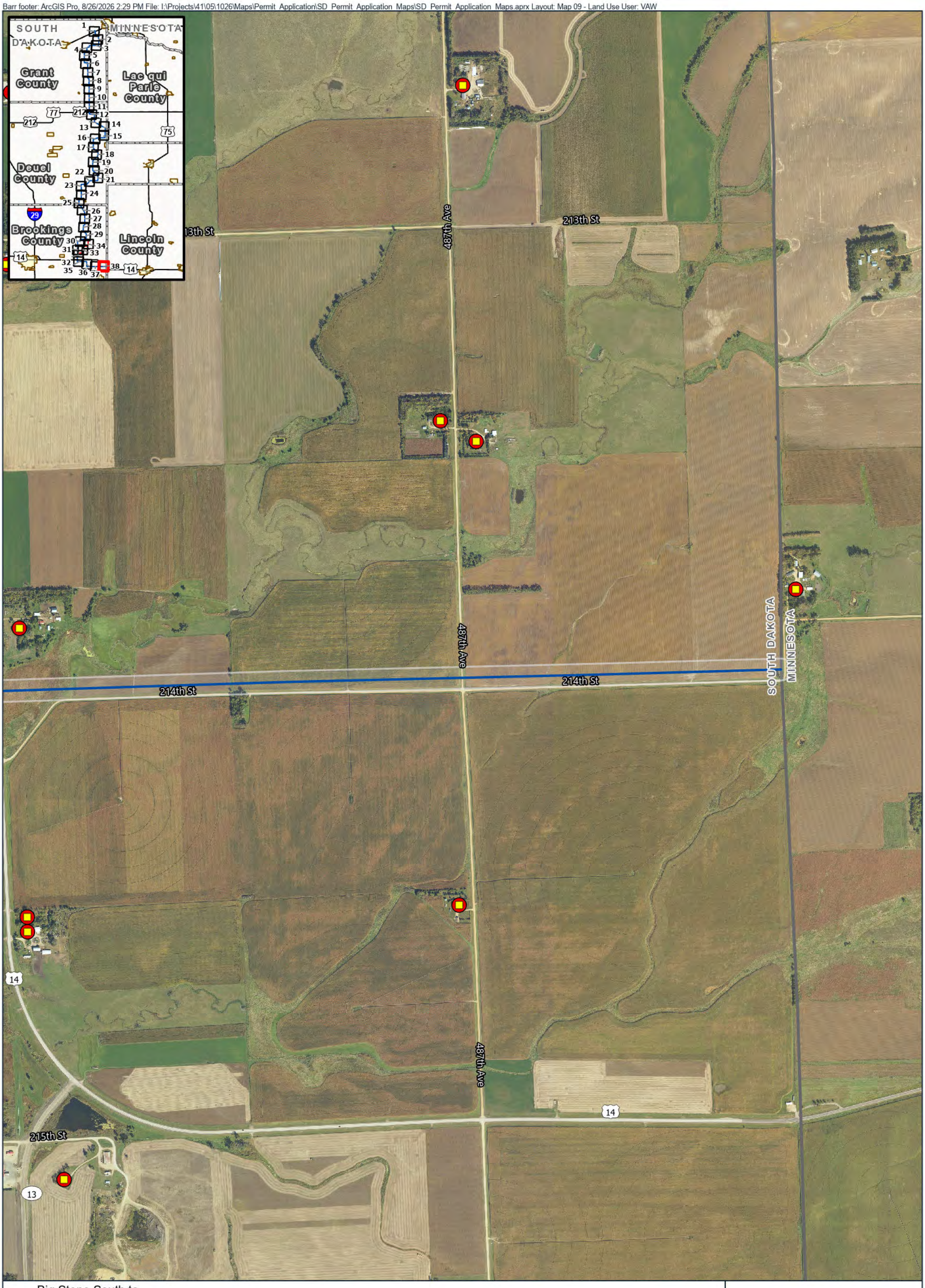
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Feet

LAND USE
South Dakota

MAP 9-37

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Noise Sensitive Resource (Residences, Churches, Schools, and Parks)

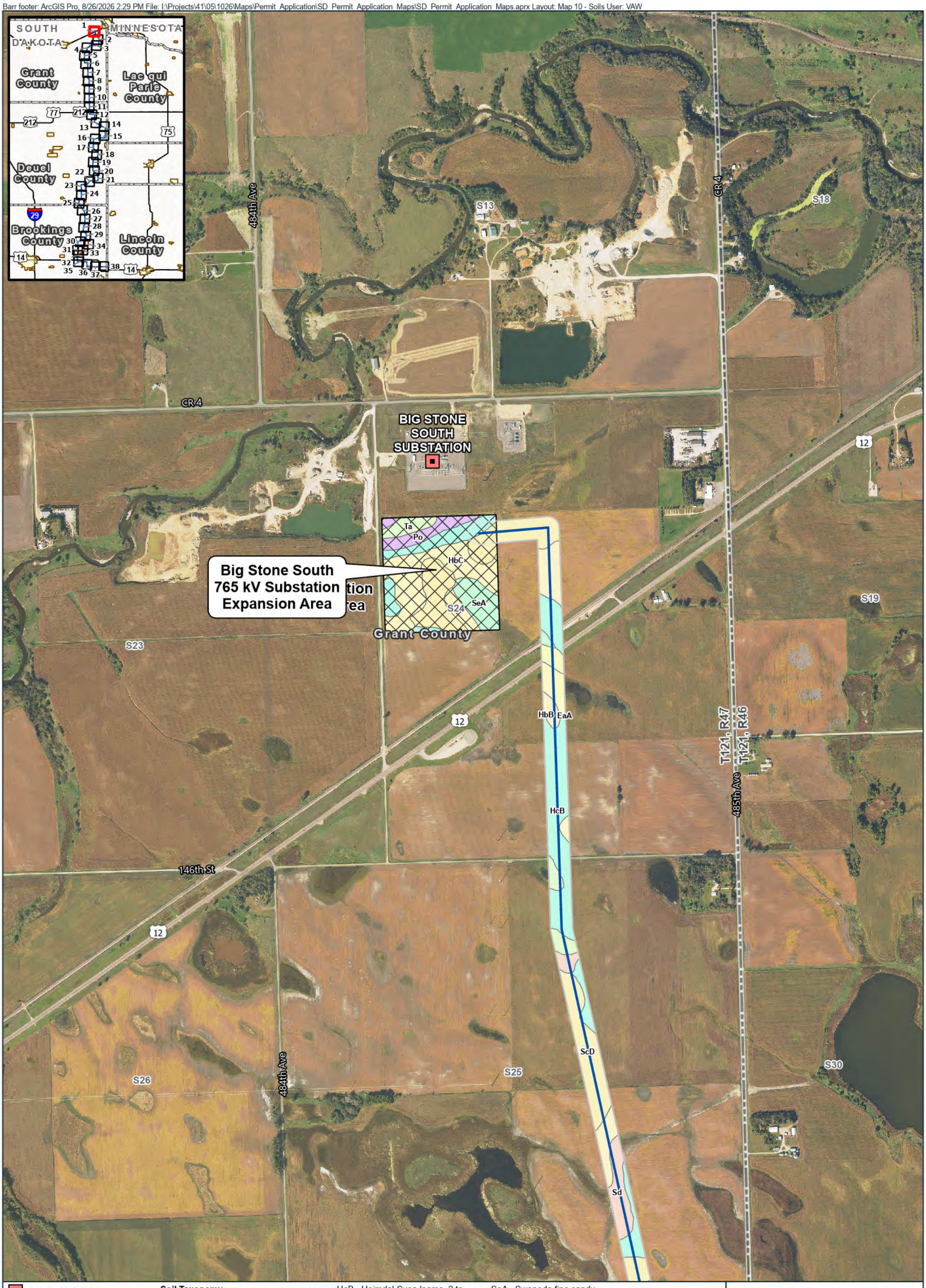
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Feet

LAND USE
South Dakota

MAP 9-38

PowerOn Midwest
Big Stone South to Brookings



Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Substation Expansion Area

Public Land Survey Township

County Boundary

Soil Taxonomy

EaA - Egeland sandy loam, 0 to 2 percent slopes

HbB - Esmond-Heimdal-Sisseton complex, 2 to 6 percent slopes

HbC - Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded

HcB - Heimdal-Svea loams, 2 to 6 percent slopes

Po - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes

ScD - Sisseton-Esmond-Heimdal, complex, 6 to 20 percent slopes, moderately eroded

Sd - Svea loam, 1 to 3 percent slopes

SeA - Swenoda fine sandy loam, 0 to 2 percent slopes

Ta - Tonka silty clay loam, 0 to 1 percent slopes

Vc - Vallers-Tonka complex

N

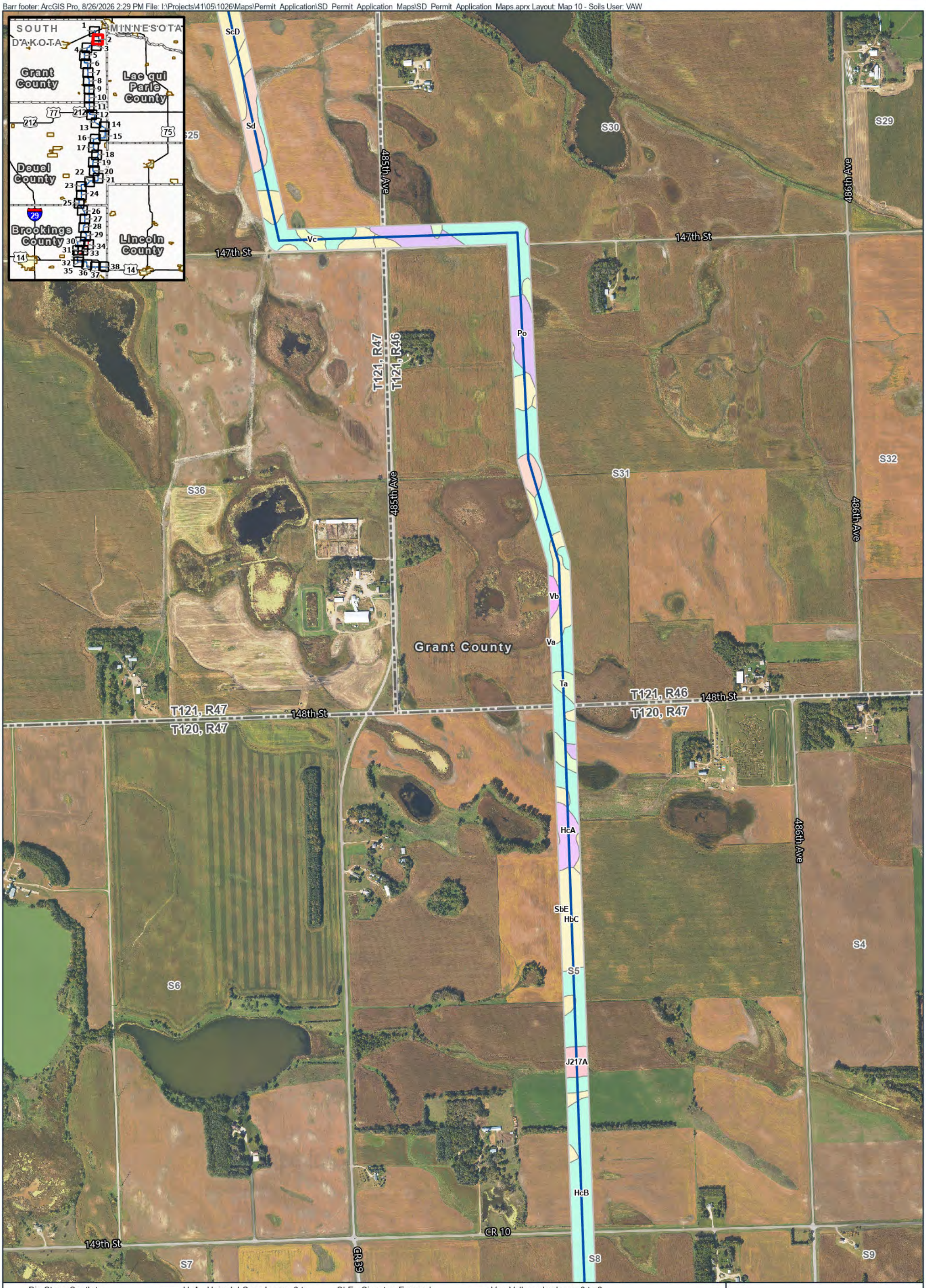
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Feet

SOILS
South Dakota

MAP 10-1

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

HbC - Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded
HcA - Heimdal-Svea loams, 0 to 2 percent slopes
HcB - Heimdal-Svea loams, 2 to 6 percent slopes
J217A - Parnell silty clay loam, frequently ponded, 0 to 1 percent slopes
Po - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
SbE - Sisseton-Esmond complex, 12 to 40 percent slopes
ScD - Sisseton-Esmond-Heimdal, complex, 6 to 20 percent slopes, moderately eroded
Sd - Svea loam, 1 to 3 percent slopes
Ta - Tonka silty clay loam, 0 to 1 percent slopes
Va - Vallers clay loam, 0 to 2 percent slopes
Vb - Vallers-Parnell complex
Vc - Vallers-Tonka complex

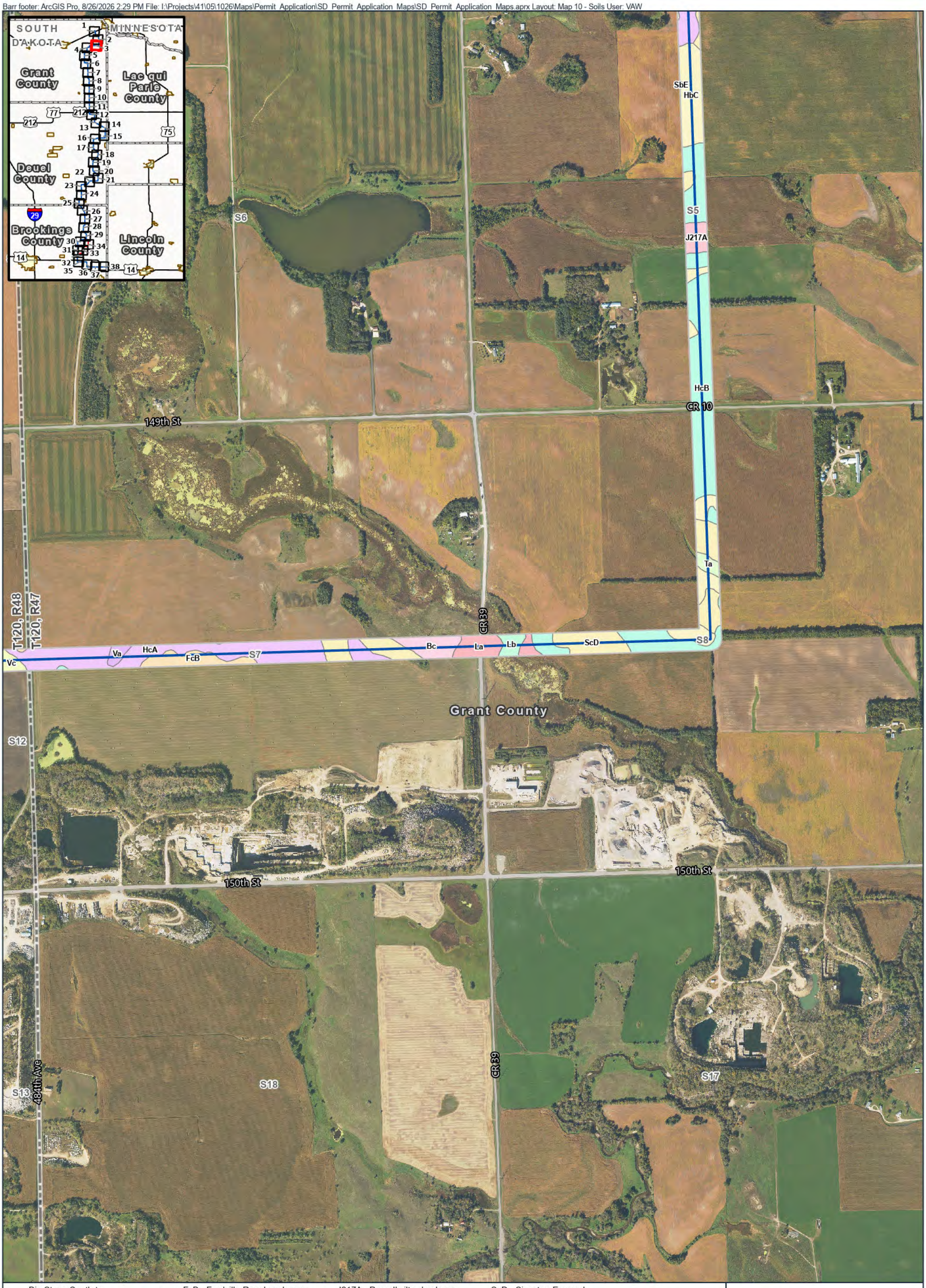
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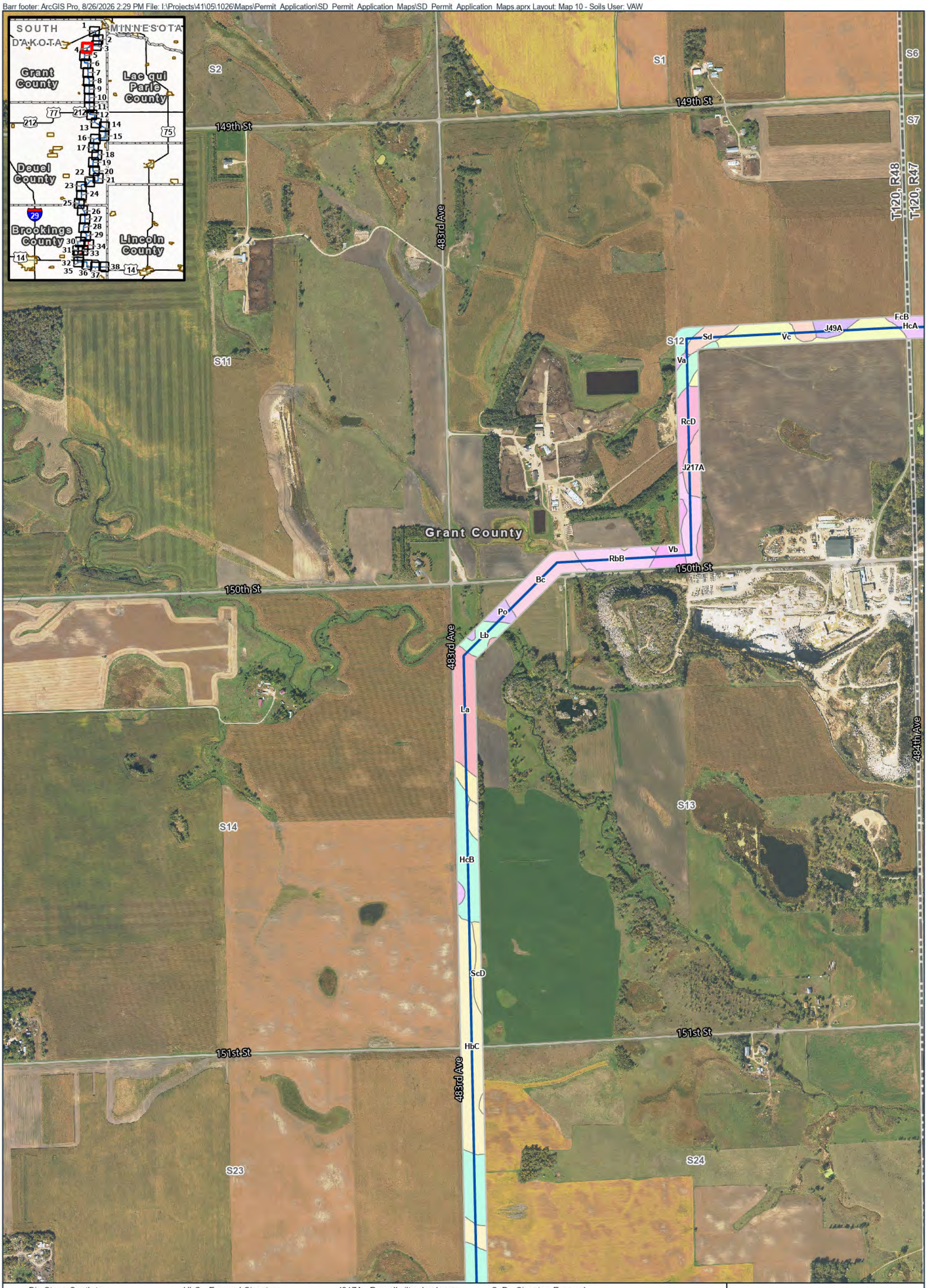
0 500 1,000
Feet

SOILS
South Dakota

MAP 10-2

PowerOn Midwest
Big Stone South to Brookings


SOUTH DAKOTA
MINNESOTA
Grant County
Lac qui Parle County
Deuel County
Brookings County
Lincoln County
77
212
75
29
14
S6
S5
SbE
HbC
J217A
HcB
CR 10
149th St
Ta
T120, R48
T120, R47
CR 39
Vc
Va
HcA
FcB
S7
Bc
La
Lb
ScD
S8
Grant County
S12
150th St
S13
484th Ave
S18
S17
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Soil Taxonomy
Bc - Cubden silty clay loam, 0 to 2 percent slopes
FcB - Fordville-Renshaw loams, 2 to 6 percent slopes
HbC - Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded
HcA - Heimdal-Svea loams, 0 to 2 percent slopes
HcB - Heimdal-Svea loams, 2 to 6 percent slopes
J217A - Parnell silty clay loam, frequently ponded, 0 to 1 percent slopes
La - LaDelle silt loam
Lb - LaDelle silt loam, channeled
SbE - Sisseton-Esmond complex, 12 to 40 percent slopes
ScD - Sisseton-Esmond-Heimdal, complex, 6 to 20 percent slopes, moderately eroded
Ta - Tonka silty clay loam, 0 to 1 percent slopes
Va - Vallers clay loam, 0 to 2 percent slopes
Vc - Vallers-Tonka complex
N
0 500 1,000
Feet
SOILS
South Dakota
MAP 10-3
PowerOn Midwest
Big Stone South to Brookings



- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

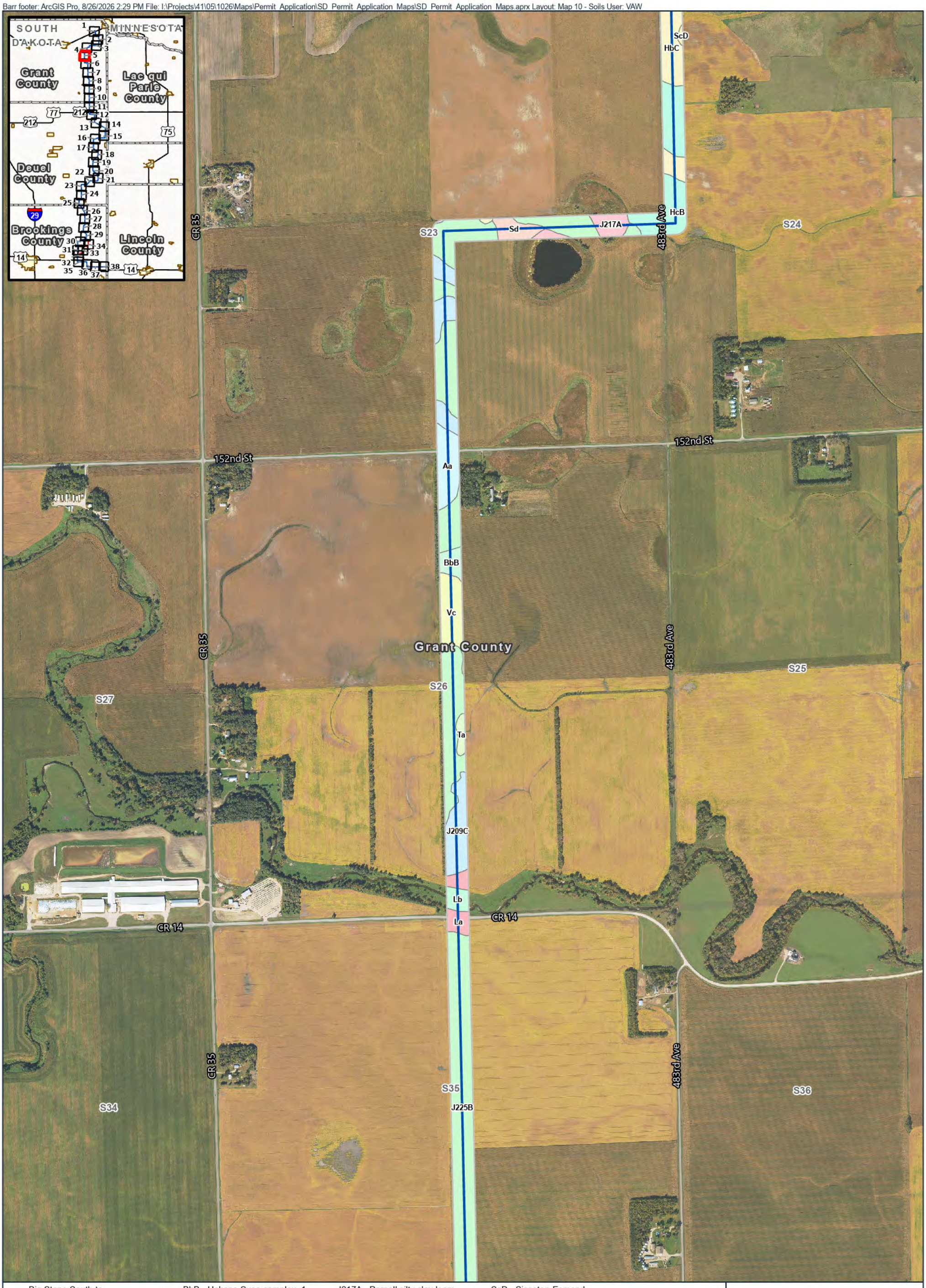
Soil Taxonomy

- Bc - Cubden silty clay loam, 0 to 2 percent slopes
- FcB - Fordville-Renshaw loams, 2 to 6 percent slopes
- HbC - Esmond-Sisseton-Heimdal, complex, 2 to 12 percent slopes, moderately eroded
- HcA - Heimdal-Svea loams, 0 to 2 percent slopes
- HcB - Heimdal-Svea loams, 2 to 6 percent slopes
- J49A - Lakepark-Parnell, occasionally ponded, complex, 0 to 2 percent slopes
- J217A - Parnell silty clay loam, frequently ponded, 0 to 1 percent slopes
- La - LaDelle silt loam
- Lb - LaDelle silt loam, channeled
- Po - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
- RbB - Renshaw loam, 1 to 6 percent slopes
- RcD - Renshaw-Sioux complex, 6 to 15 percent slopes
- ScD - Sisseton-Esmond-Heimdal, complex, 6 to 20 percent slopes, moderately eroded
- Sd - Svea loam, 1 to 3 percent slopes
- Va - Vallers clay loam, 0 to 2 percent slopes
- Vb - Vallers-Parnell complex
- Vc - Vallers-Tonka complex

SOILS
South Dakota

MAP 10-4

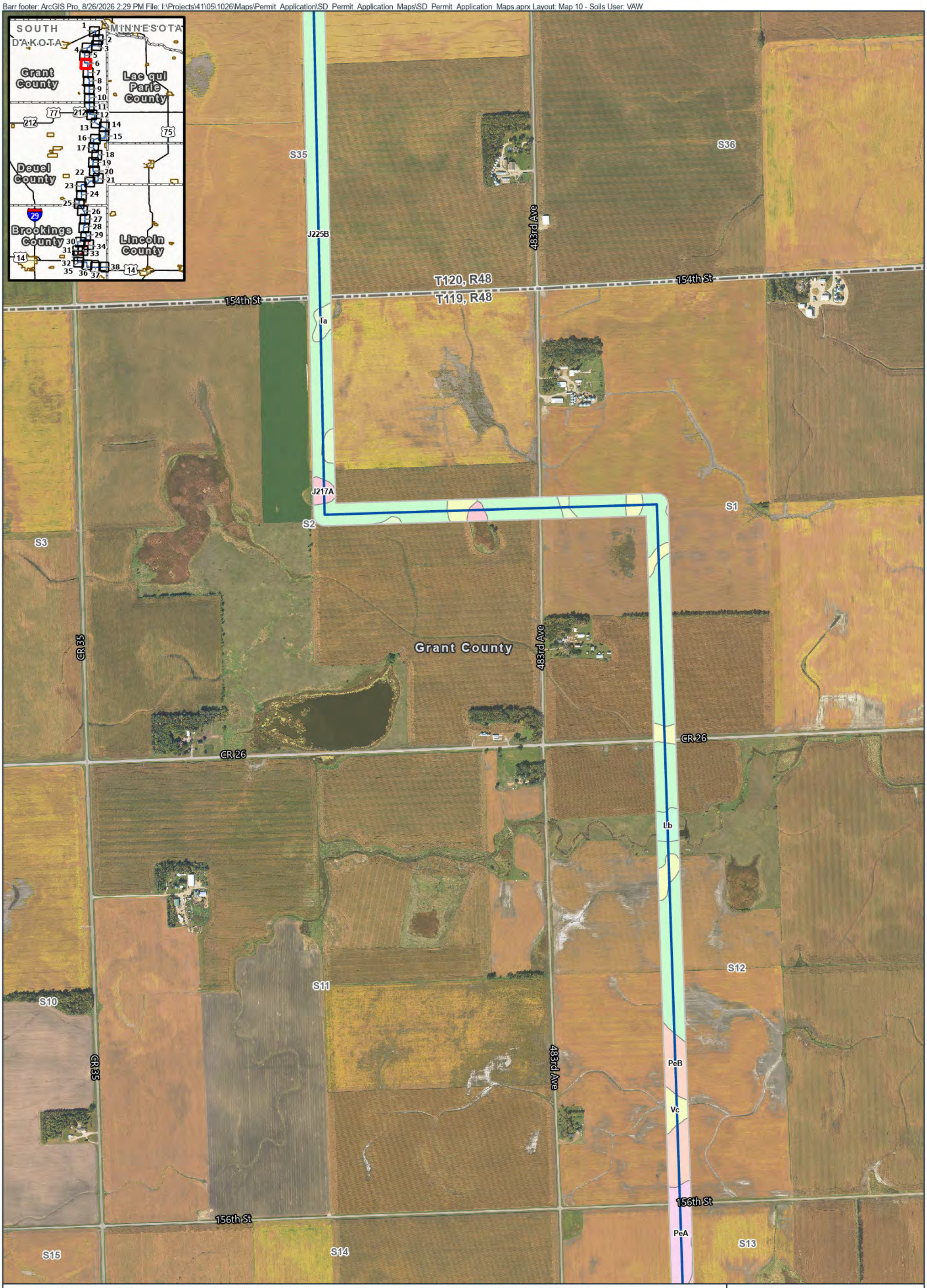
PowerOn Midwest
Big Stone South to Brookings



SOILS
South Dakota

MAP 10-5

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

- J217A - Parnell silty clay loam, frequently ponded, 0 to 1 percent slopes
- J225B - Forman-Aastad complex, 1 to 4 percent slopes
- Lb - LaDelle silt loam, channeled
- PeA - Peever clay loam, 0 to 2 percent slopes
- PeB - Peever clay loam, 2 to 6 percent slopes
- Ta - Tonka silty clay loam, 0 to 1 percent slopes
- Vc - Vallers-Tonka complex

0 500 1,000

Feet

SOILS
South Dakota

MAP 10-6

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

Db - Castlewood silty clay

FcB - Fordville-Renshaw loams, 2 to 6 percent slopes

J217A - Parnell silty clay loam, frequently ponded, 0 to 1 percent slopes

J225B - Forman-Aastad complex, 1 to 4 percent slopes

Lb - LaDelle silt loam, channeled

PeA - Peever clay loam, 0 to 2 percent slopes

PeB - Peever clay loam, 2 to 6 percent slopes

RcD - Renshaw-Sioux complex, 6 to 15 percent slopes

SeA - Swenoda fine sandy loam, 0 to 2 percent slopes

Ta - Tonka silty clay loam, 0 to 1 percent slopes

Vc - Vallers-Tonka complex

N

0 500 1,000

Feet

SOILS
South Dakota

MAP 10-7

PowerOn Midwest
Big Stone South to Brookings



- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary

Soil Taxonomy

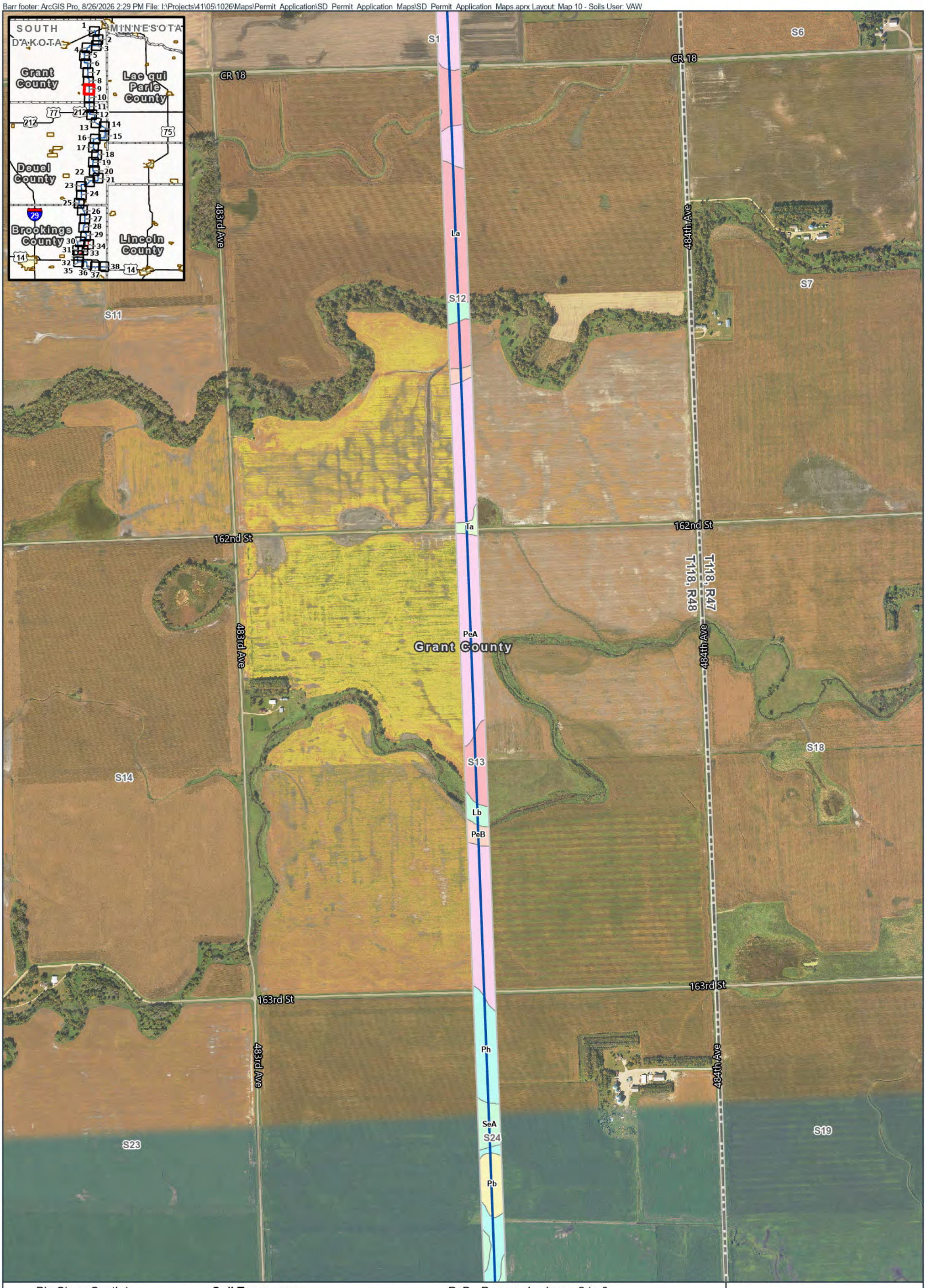
- BbB - Hokans-Svea complex, 1 to 4 percent slopes
- Db - Castlewood silty clay
- EaB - Egeland sandy loam, 2 to 6 percent slopes
- J217A - Parnell silty clay loam, frequently ponded, 0 to 1 percent slopes
- La - LaDelle silt loam
- Lb - LaDelle silt loam, channeled
- PeA - Peever clay loam, 0 to 2 percent slopes
- PeB - Peever clay loam, 2 to 6 percent slopes
- Ph - Playmoor silty clay loam
- Ta - Tonka silty clay loam, 0 to 1 percent slopes
- Va - Vallers clay loam, 0 to 2 percent slopes
- Vc - Vallers-Tonka complex

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-8

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

- La - LaDelle silt loam
- Lb - LaDelle silt loam, channeled
- Pb - Southam silty clay loam, 0 to 1 percent slopes
- PeA - Peever clay loam, 0 to 2 percent slopes
- PeB - Peever clay loam, 2 to 6 percent slopes
- Ph - Playmoor silty clay loam
- SeA - Swenoda fine sandy loam, 0 to 2 percent slopes
- Ta - Tonka silty clay loam, 0 to 1 percent slopes

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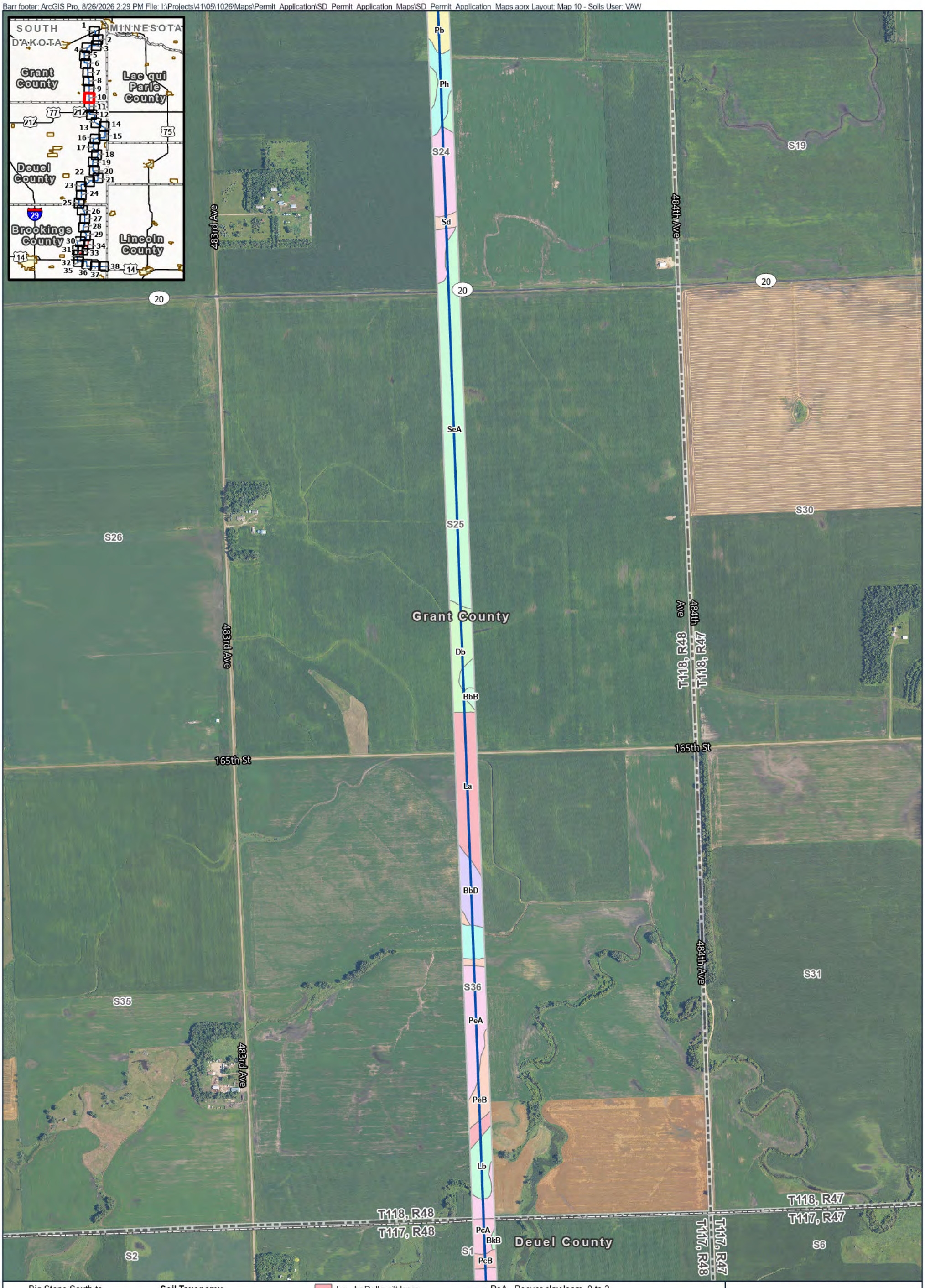
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Feet

SOILS
South Dakota

MAP 10-9

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

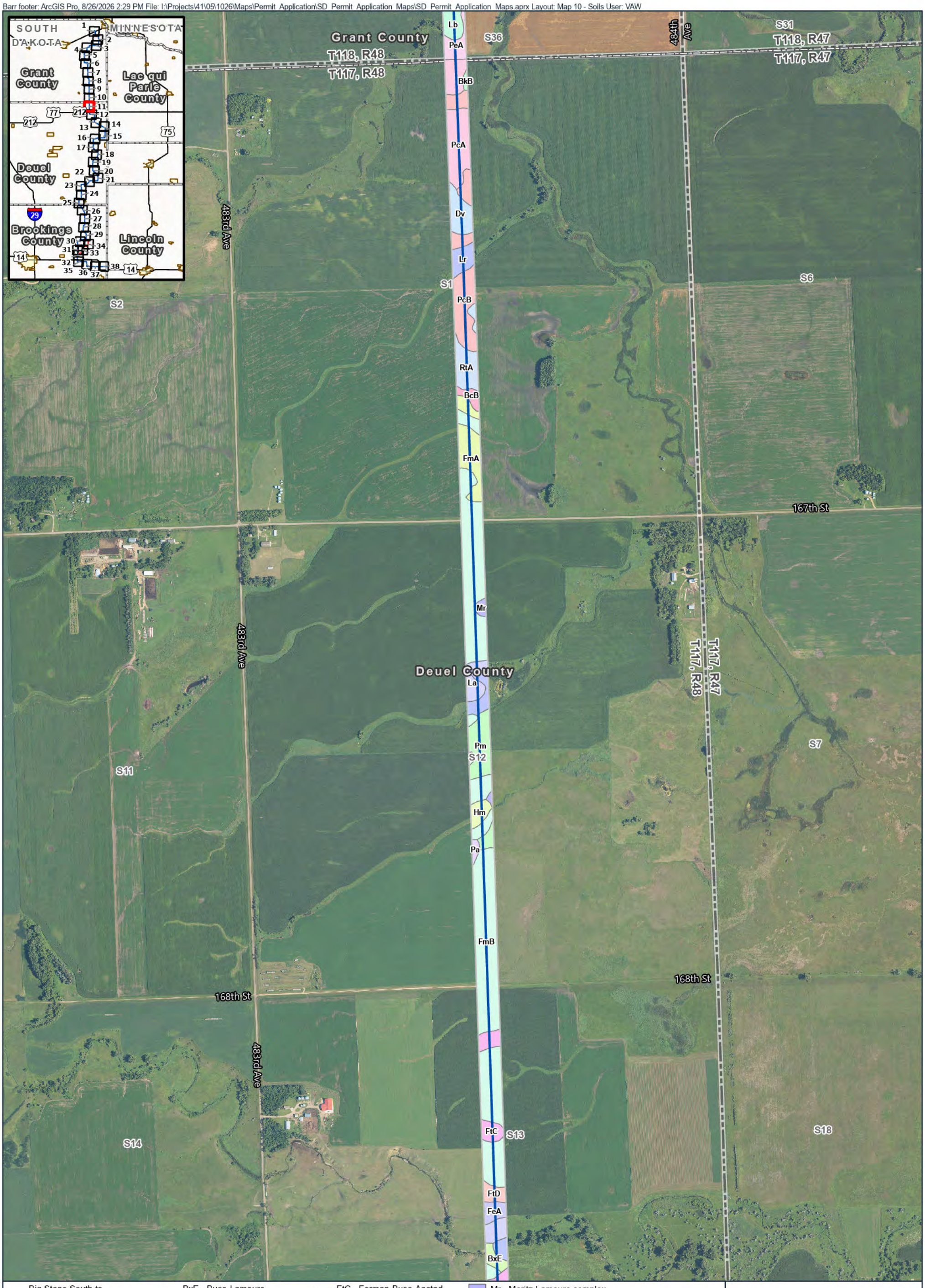
- BbB - Hokans-Svea complex, 1 to 4 percent slopes
- BbD - Barnes-Svea loams, 4 to 15 percent slopes
- BkB - Barnes-Svea loams, 1 to 6 percent slopes
- Db - Castlewood silty clay
- La - LaDelle silt loam
- Lb - LaDelle silt loam, channeled
- Pb - Southam silty clay loam, 0 to 1 percent slopes
- PcA - Peever clay loam, 0 to 2 percent slopes
- PcB - Peever clay loam, 2 to 6 percent slopes
- PeA - Peever clay loam, 0 to 2 percent slopes
- PeB - Peever clay loam, 2 to 6 percent slopes
- Ph - Playmoor silty clay loam
- Sd - Svea loam, 1 to 3 percent slopes
- SeA - Swenoda fine sandy loam, 0 to 2 percent slopes

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-10

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

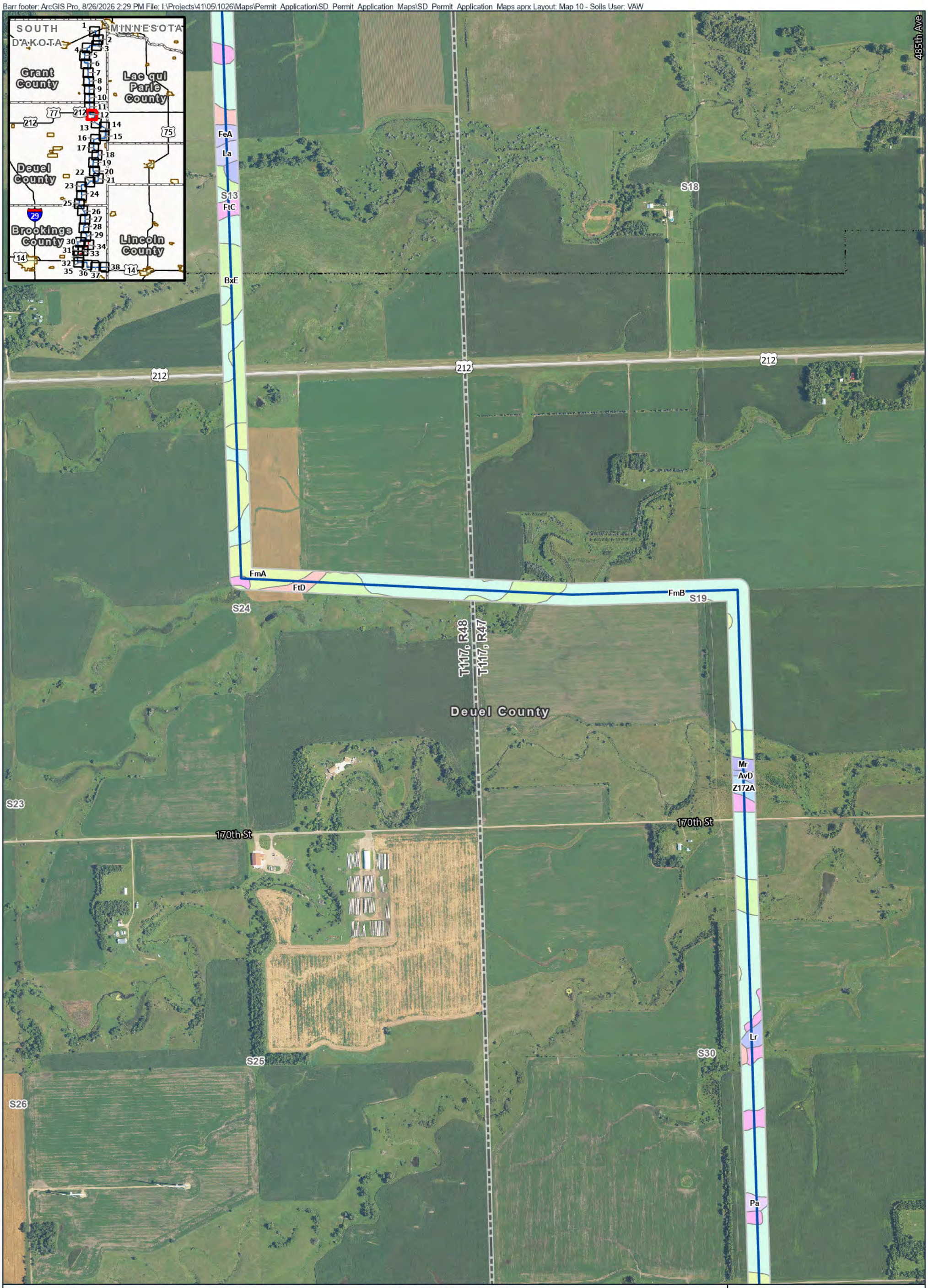
- BcB - Barnes-Buse loams, coteau, 2 to 6 percent slopes
- BkB - Barnes-Svea loams, 1 to 6 percent slopes
- BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- Dv - Divide loam
- FeA - Fordville loam, coteau, 0 to 2 percent slopes
- FmA - Forman-Aastad loams, 0 to 2 percent slopes
- FmB - Forman-Aastad loams, 1 to 6 percent slopes
- FtC - Forman-Buse-Aastad loams, 2 to 9 percent slopes
- FtD - Forman-Buse-Aastad loams, 2 to 15 percent slopes
- Hm - Hamerly-Badger complex, 0 to 2 percent slopes
- La - La Prairie loam
- Lb - LaDelle silt loam, channeled
- Lr - Lamoure-Rauville silty clay loams, channeled
- Mr - Moritz-Lamoure complex
- Pa - Parnell silty clay loam
- PcA - Peever clay loam, 0 to 2 percent slopes
- PcB - Peever clay loam, 2 to 6 percent slopes
- PeA - Peever clay loam, 0 to 2 percent slopes
- Pm - Playmoor silty clay loam
- RtA - Rentill loam

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-11

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

AvD - Arvilla-Sioux complex, 6 to 15 percent slopes

BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes

FeA - Fordville loam, coteau, 0 to 2 percent slopes

FmA - Forman-Aastad loams, 0 to 2 percent slopes

FmB - Forman-Aastad loams, 1 to 6 percent slopes

FtC - Forman-Buse-Aastad loams, 2 to 9 percent slopes

FtD - Forman-Buse-Aastad loams, 2 to 15 percent slopes

La - La Prairie loam

Lr - Lamoure-Rauville silty clay loams, channeled

Mr - Moritz-Lamoure complex

Pa - Parnell silty clay loam

Z172A - Renshaw loam, coteau, 0 to 2 percent slopes

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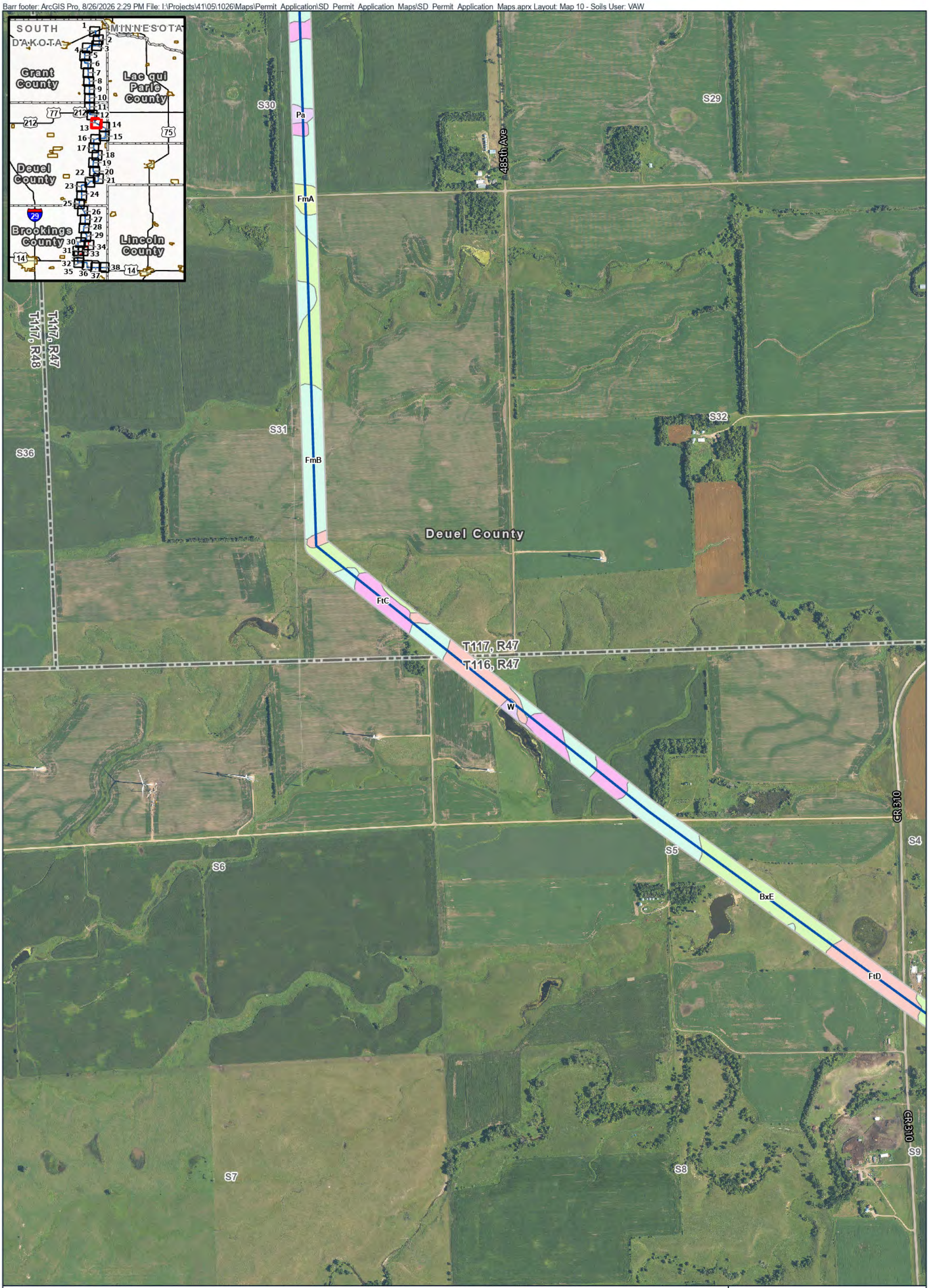
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Feet

SOILS
South Dakota

MAP 10-12

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

- BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- FmA - Forman-Aastad loams, 0 to 2 percent slopes
- FmB - Forman-Aastad loams, 1 to 6 percent slopes
- FtC - Forman-Buse-Aastad loams, 2 to 9 percent slopes
- FtD - Forman-Buse-Aastad loams, 2 to 15 percent slopes
- Pa - Parnell silty clay loam
- W - Water

N

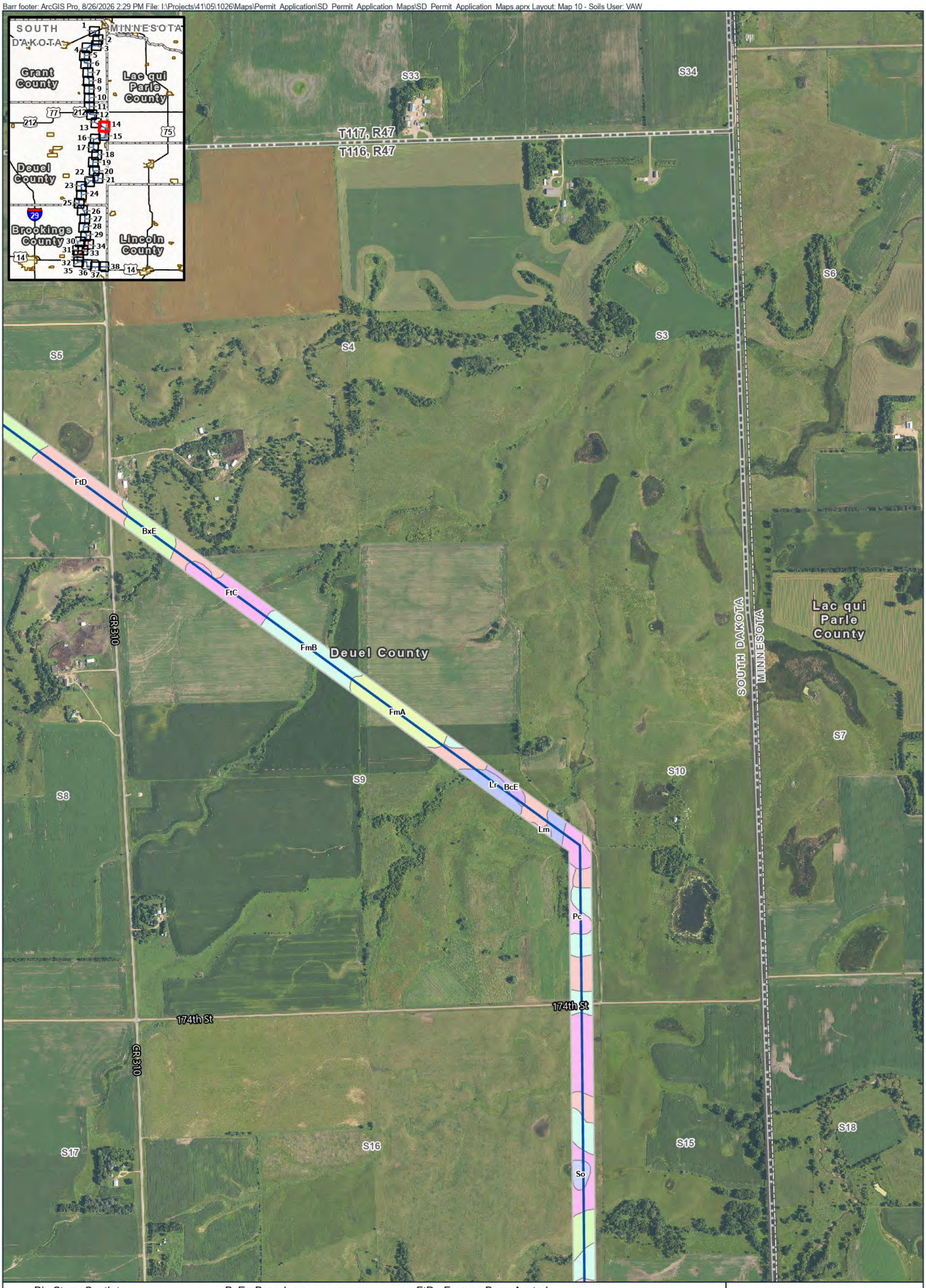
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Feet

SOILS
South Dakota

MAP 10-13

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

BcE - Barnes-Buse loams, 15 to 25 percent slopes

BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes

FmA - Forman-Aastad loams, 0 to 2 percent slopes

FmB - Forman-Aastad loams, 1 to 6 percent slopes

FtC - Forman-Buse-Aastad loams, 2 to 9 percent slopes

FtD - Forman-Buse-Aastad loams, 2 to 15 percent slopes

Lm - Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded

Lr - Lamoure-Rauville silty clay loams, channeled

Pc - Parnell-Vallers complex

So - Southam silty clay loam, 0 to 1 percent slopes

N

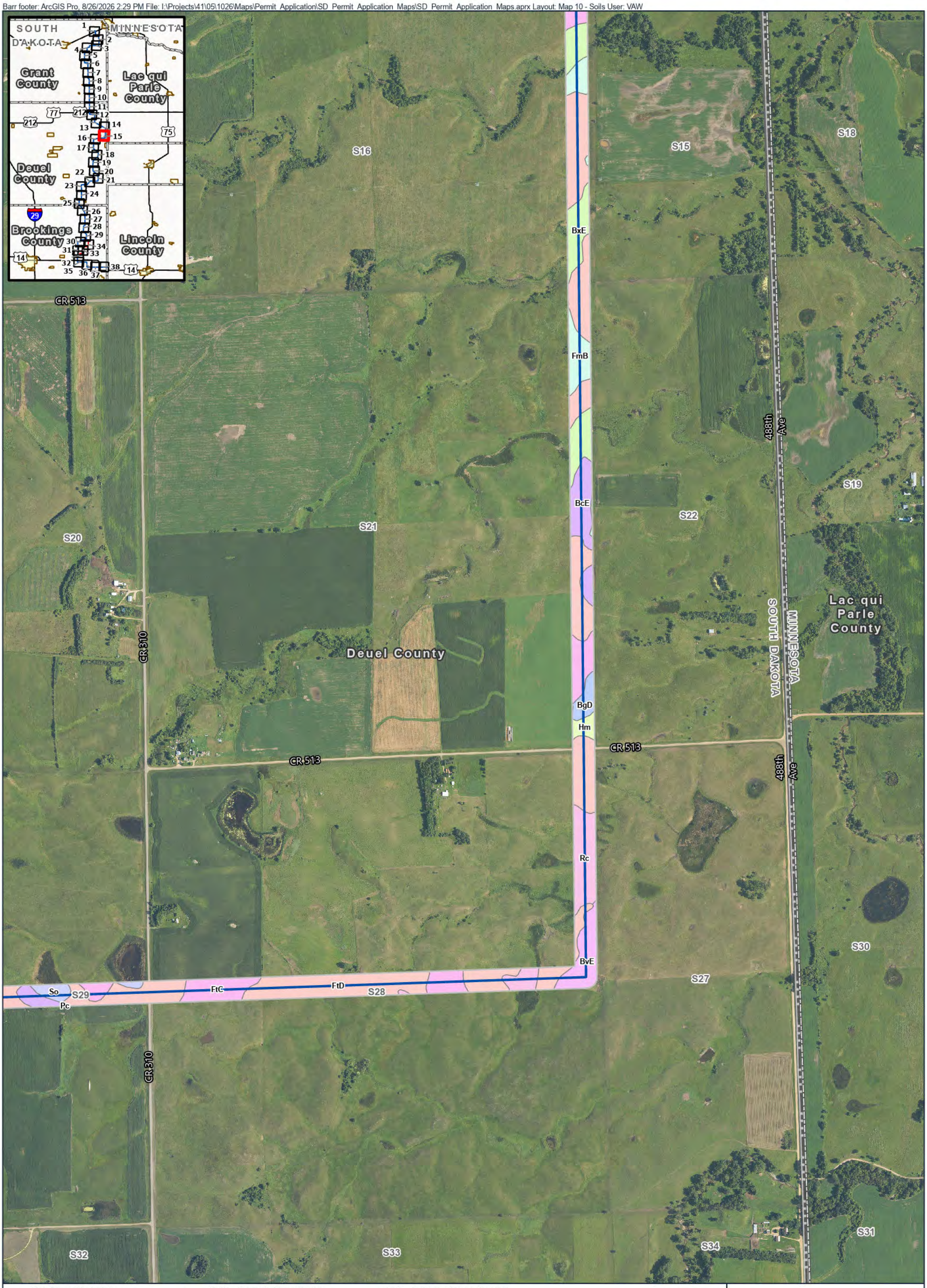
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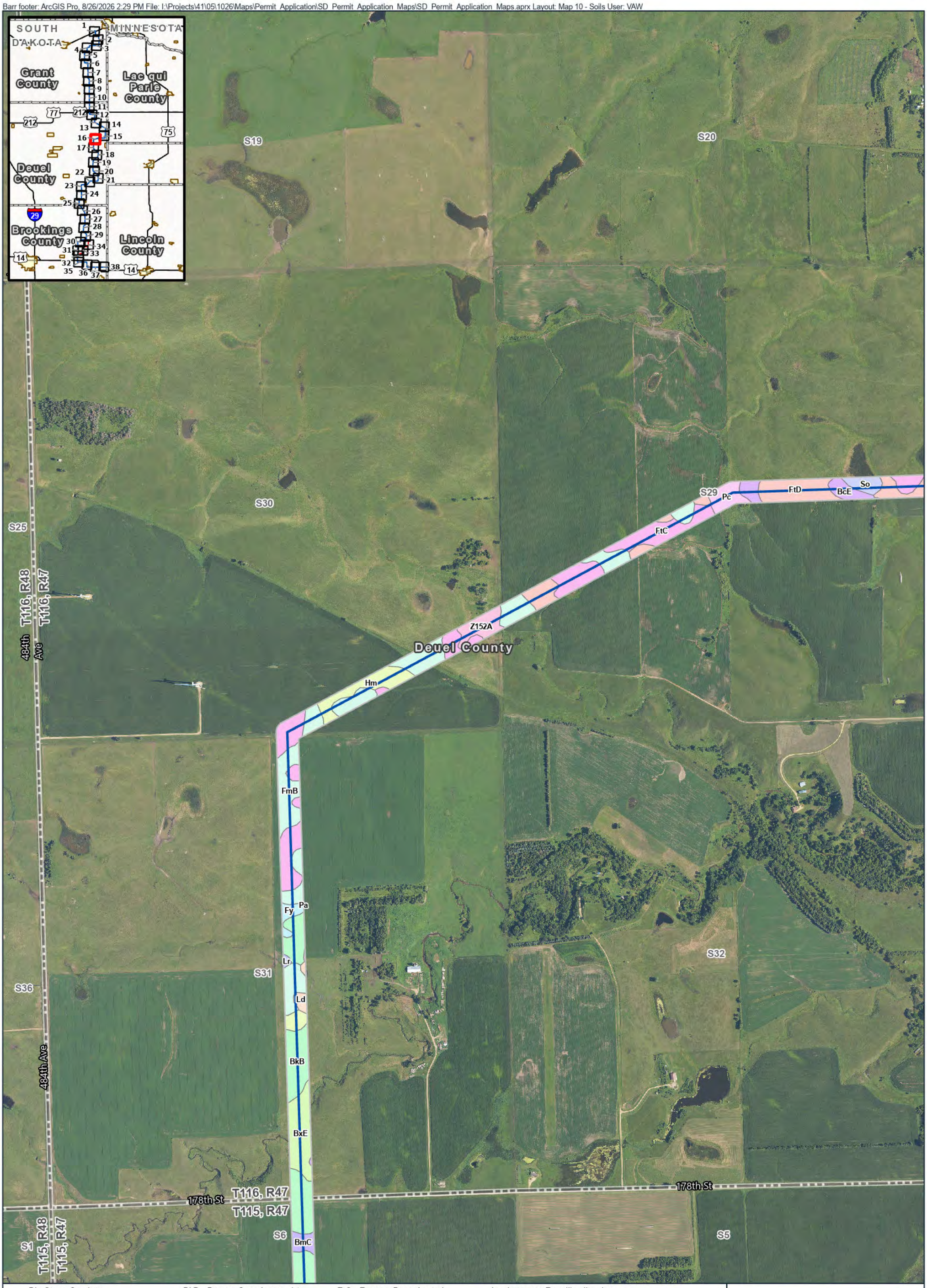
Feet

SOILS
South Dakota

MAP 10-14

PowerOn Midwest
Big Stone South to Brookings


SOUTH DAKOTA
MINNESOTA
Grant County
Lac qui Parle County
Deuel County
Brookings County
Lincoln County
77
212
75
29
14
S16
S15
S18
S19
S20
S21
S22
S27
S28
S29
S30
S31
S32
S33
S34
BxE
FmB
BcE
BgD
Hm
Rc
BvE
FtC
FtD
So
Pc
CR 513
CR 310
488th Ave
Deuel County
Lac qui Parle County
SOUTH DAKOTA
MINNESOTA
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Soil Taxonomy
BcE - Barnes-Buse loams, 15 to 25 percent slopes
BgD - Barnes-Buse-Svea loams, 2 to 15 percent slopes
BvE - Buse-Barnes loams, 9 to 40 percent slopes, very stony
BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
FmB - Forman-Aastad loams, 1 to 6 percent slopes
FtC - Forman-Buse-Aastad loams, 2 to 9 percent slopes
FtD - Forman-Buse-Aastad loams, 2 to 15 percent slopes
Hm - Hamerly-Badger complex, 0 to 2 percent slopes
Pc - Parnell-Vallers complex
Rc - Rauville silty clay loam, 0 to 2 percent slopes, frequently flooded
So - Southam silty clay loam, 0 to 1 percent slopes
N
0
500
1,000
Feet
SOILS
South Dakota
MAP 10-15
PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

BcE - Barnes-Buse loams, 15 to 25 percent slopes
BkB - Barnes-Svea loams, 1 to 6 percent slopes
BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
FmB - Forman-Aastad loams, 1 to 6 percent slopes
FtC - Forman-Buse-Aastad loams, 2 to 9 percent slopes
FtD - Forman-Buse-Aastad loams, 2 to 15 percent slopes
Fy - Fulda silty clay loam
Hm - Hamerly-Badger complex, 0 to 2 percent slopes
Ld - LaDelle silt loam
Lr - Lamoure-Rauville silty clay loams, channeled
Pa - Parnell silty clay loam
Pc - Parnell-Vallers complex
So - Southam silty clay loam, 0 to 1 percent slopes
Z152A - Lamoure silty clay loam, coteau, 0 to 1 percent slopes, occasionally flooded

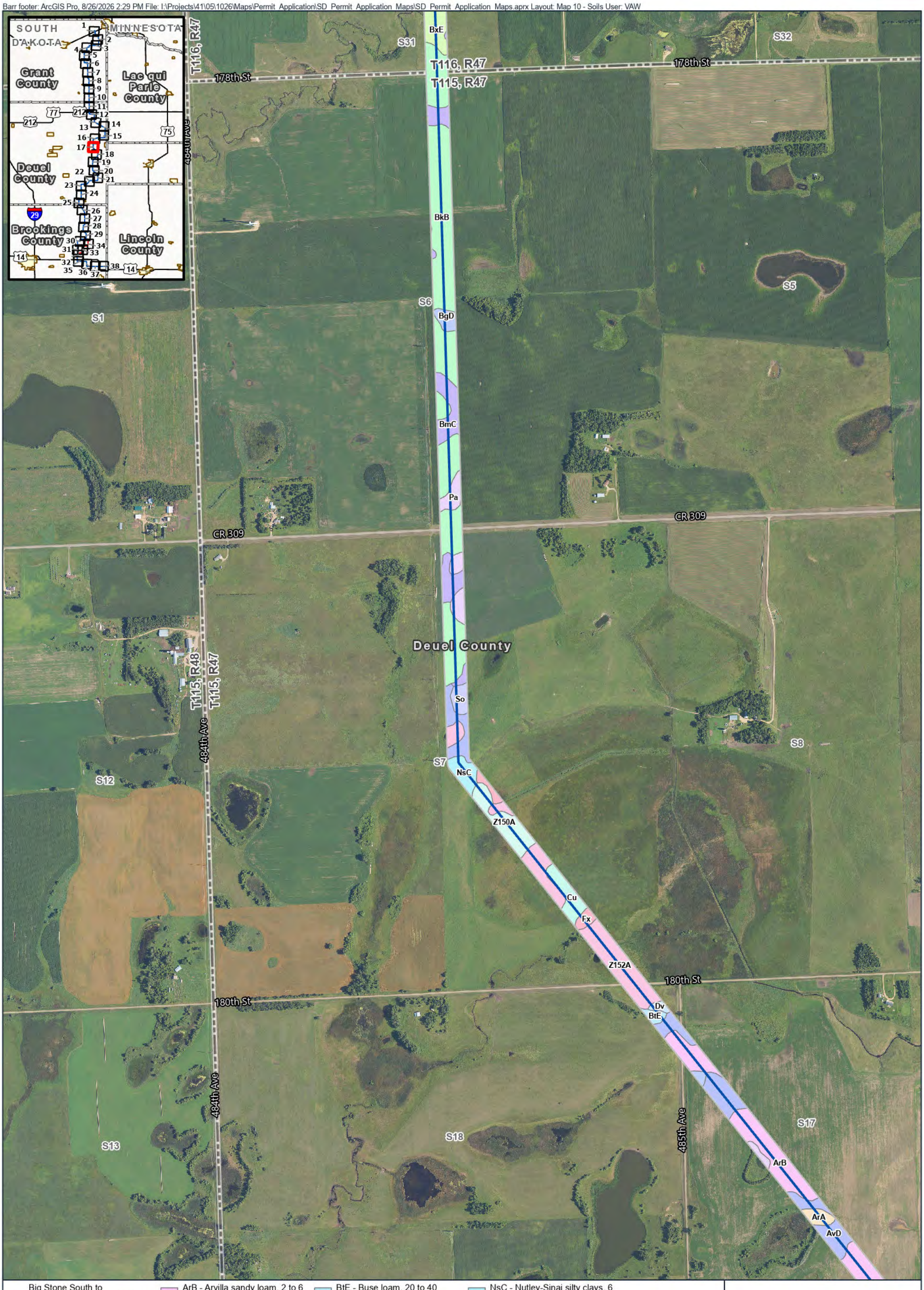
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Feet

SOILS
South Dakota

MAP 10-16

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

ArA - Arvilla sandy loam, 0 to 2 percent slopes
ArB - Arvilla sandy loam, 2 to 6 percent slopes
AvD - Arvilla-Sioux complex, 6 to 15 percent slopes
BgD - Barnes-Buse-Svea loams, 2 to 15 percent slopes
BkB - Barnes-Svea loams, 1 to 6 percent slopes
BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
BtE - Buse loam, 20 to 40 percent slopes
BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
Cu - Cubden silty clay loam, 0 to 2 percent slopes
Dv - Divide loam
Fx - Fossum sandy loam
NsC - Nutley-Sinai silty clays, 6 to 12 percent slopes
Pa - Parnell silty clay loam
So - Southam silty clay loam, 0 to 1 percent slopes
Z150A - Rauville silty clay loam, coteau, 0 to 1 percent slopes, frequently flooded
Z152A - Lamoure silty clay loam, coteau, 0 to 1 percent slopes, occasionally flooded

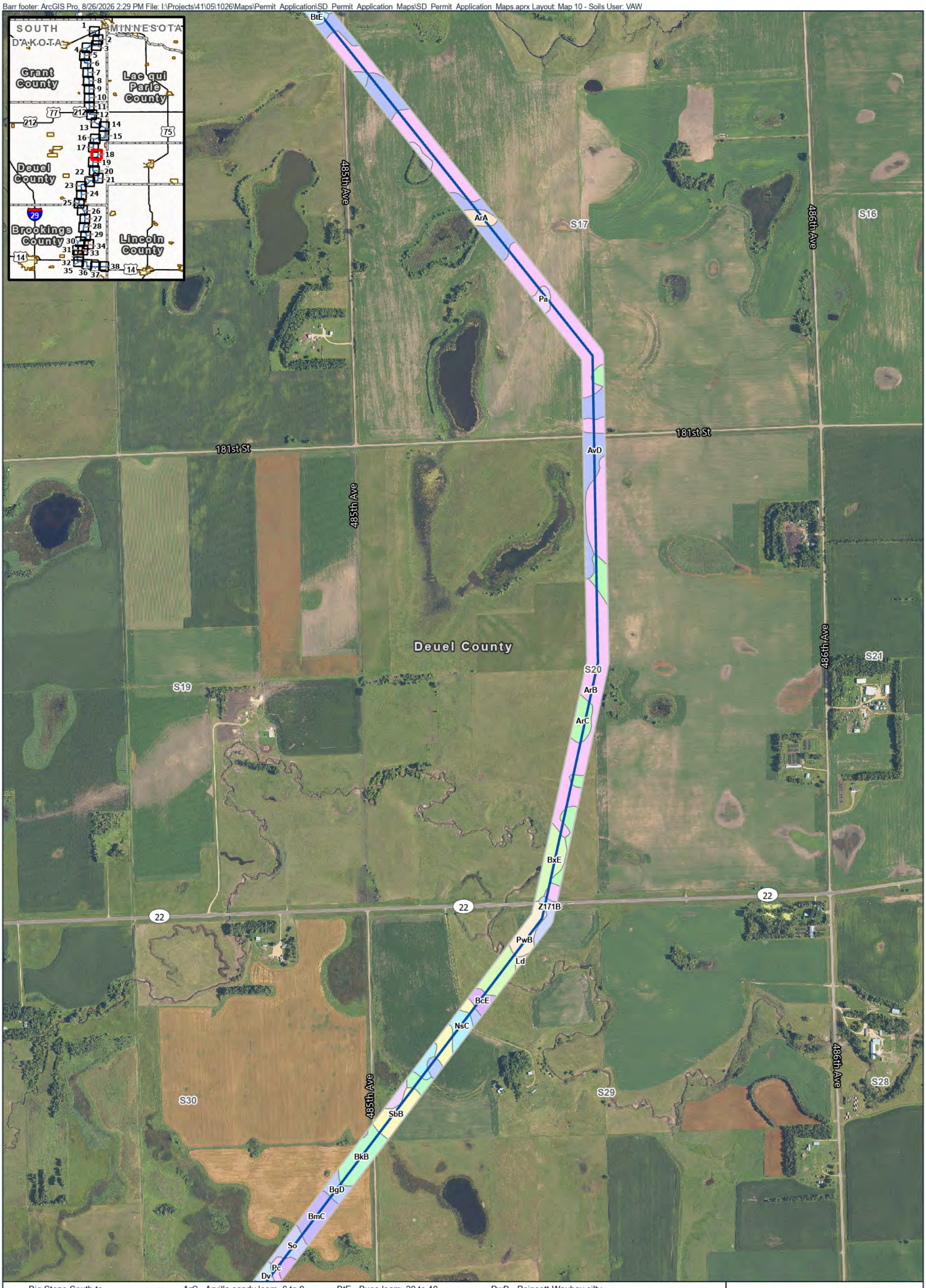
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Feet

SOILS
South Dakota

MAP 10-17

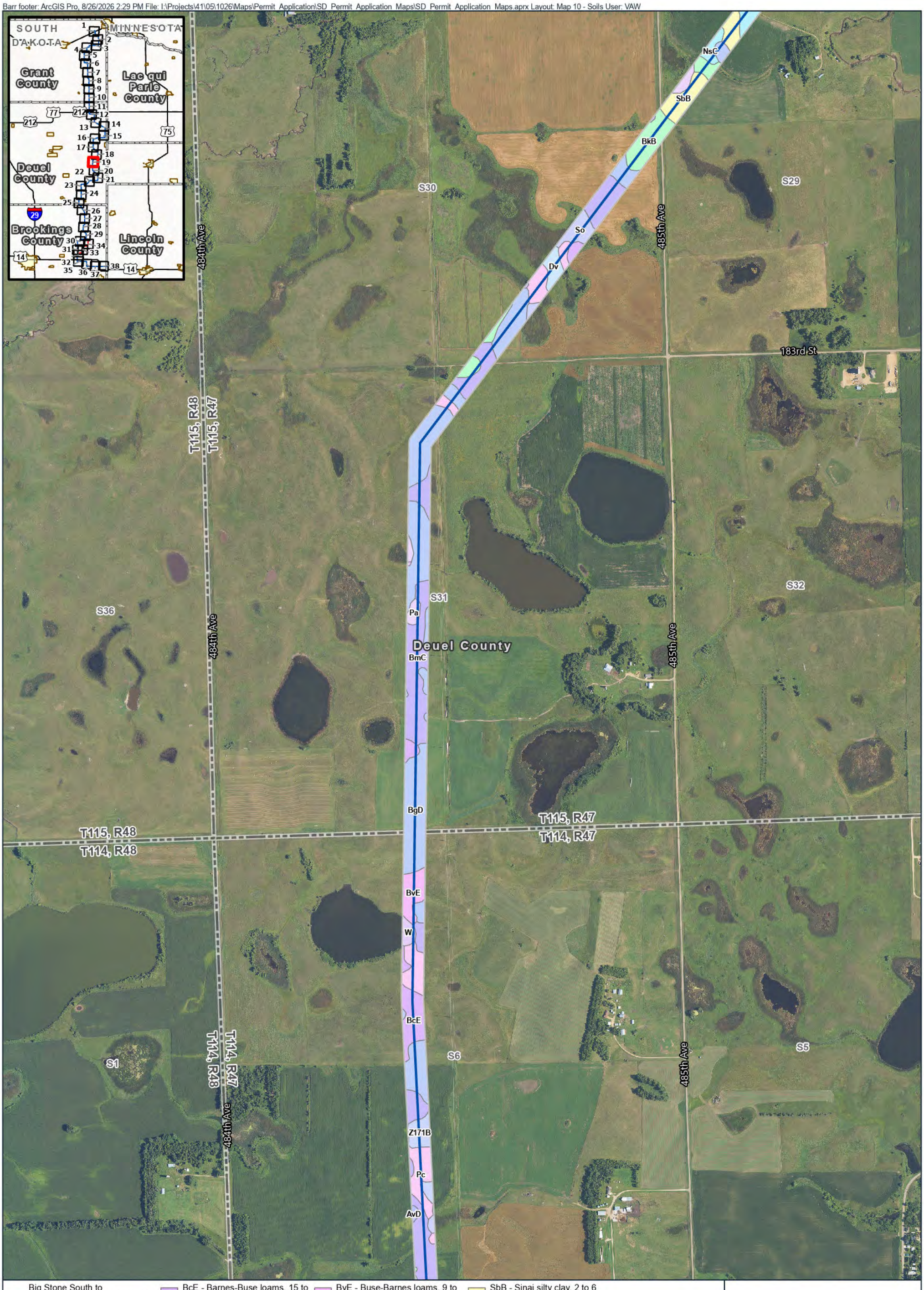
PowerOn Midwest
Big Stone South to Brookings



SOILS
South Dakota

MAP 10-18

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

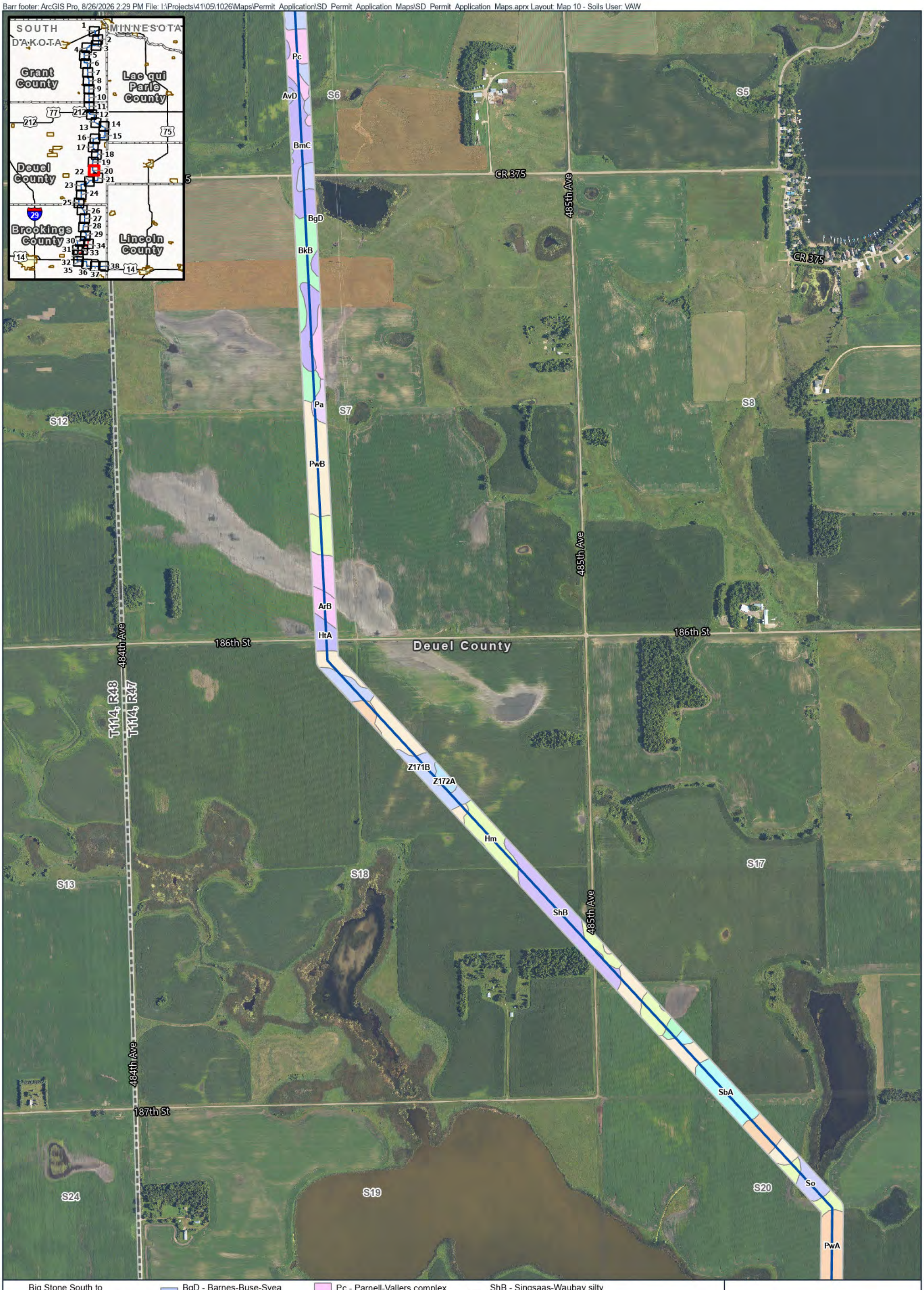
AvD - Arvilla-Sioux complex, 6 to 15 percent slopes
BcE - Barnes-Buse loams, 15 to 25 percent slopes
BgD - Barnes-Buse-Svea loams, 2 to 15 percent slopes
BkB - Barnes-Svea loams, 1 to 6 percent slopes
BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
BvE - Buse-Barnes loams, 9 to 40 percent slopes, very stony
Dv - Divide loam
NsC - Nutley-Sinai silty clays, 6 to 12 percent slopes
Pa - Parnell silty clay loam
Pc - Parnell-Vallers complex
SbB - Sinai silty clay, 2 to 6 percent slopes
So - Southam silty clay loam, 0 to 1 percent slopes
W - Water
Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes

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Feet

SOILS
South Dakota

MAP 10-19

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

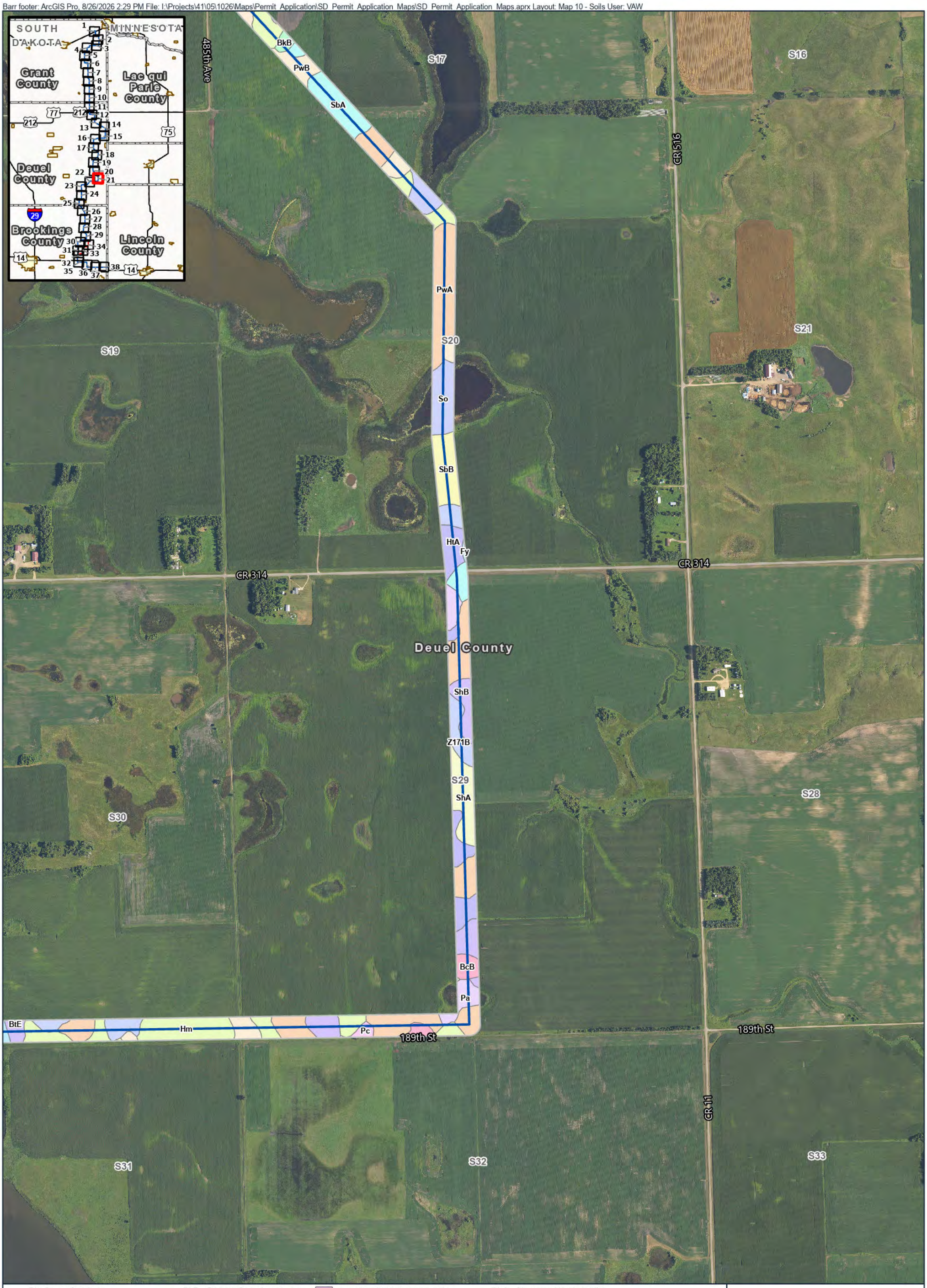
- ArB - Arvilla sandy loam, 2 to 6 percent slopes
- AvD - Arvilla-Sioux complex, 6 to 15 percent slopes
- BgD - Barnes-Buse-Svea loams, 2 to 15 percent slopes
- BkB - Barnes-Svea loams, 1 to 6 percent slopes
- BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
- Hm - Hamerly-Badger complex, 0 to 2 percent slopes
- HtA - Hegne-Fulda silty clay loams
- Pa - Parnell silty clay loam
- Pc - Parnell-Vallers complex
- PwA - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
- PwB - Poinsett-Waubay silty clay loams, 1 to 6 percent slopes
- SbA - Sinai silty clay, 0 to 2 percent slopes
- ShB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
- So - Southam silty clay loam, 0 to 1 percent slopes
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z172A - Renshaw loam, coteau, 0 to 2 percent slopes

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Feet

SOILS
South Dakota

MAP 10-20

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

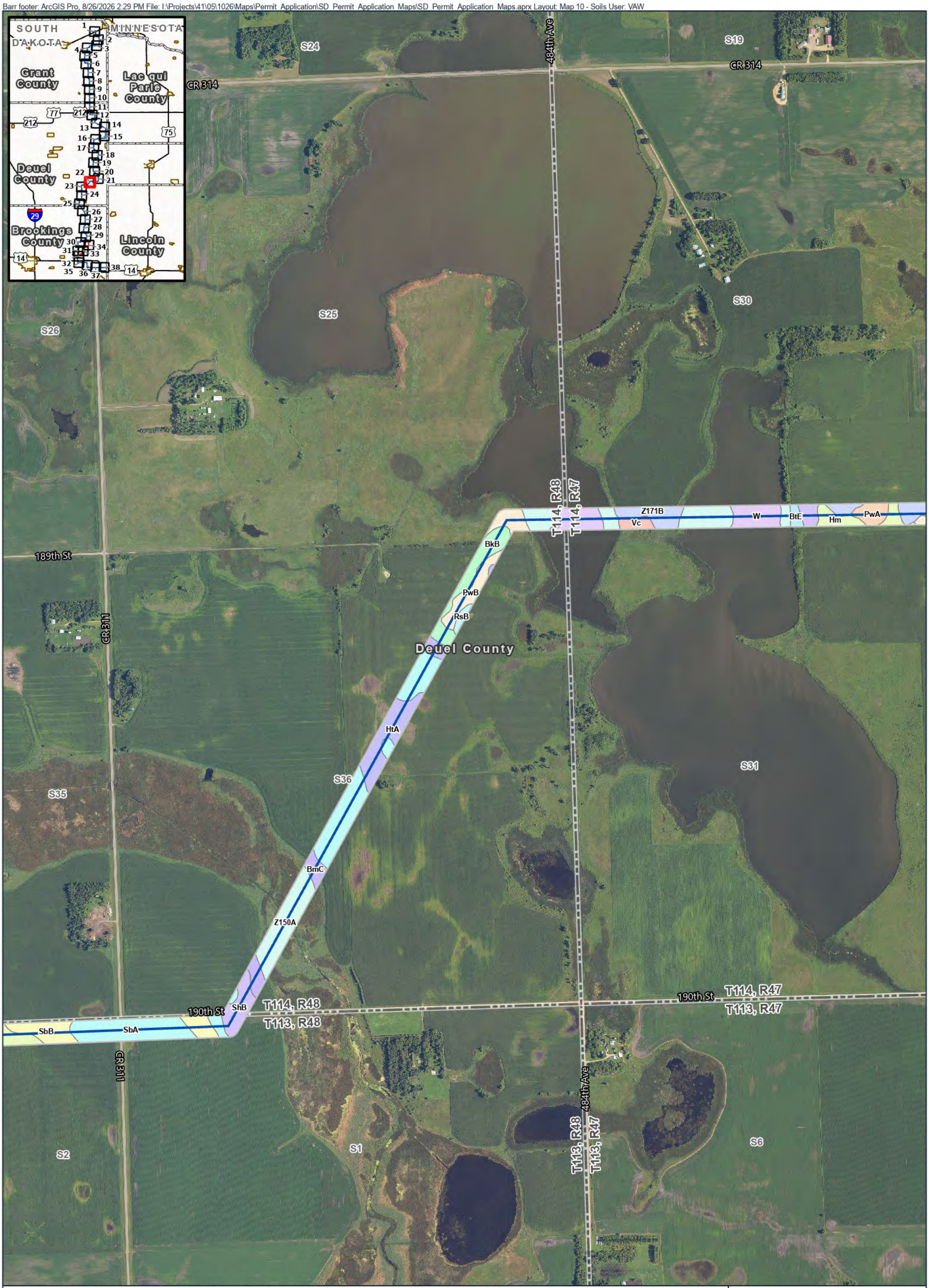
- BcB - Barnes-Buse loams, coteau, 2 to 6 percent slopes
- BkB - Barnes-Svea loams, 1 to 6 percent slopes
- BtE - Buse loam, 20 to 40 percent slopes
- Fy - Fulda silty clay loam
- Hm - Hamerly-Badger complex, 0 to 2 percent slopes
- HtA - Hegne-Fulda silty clay loams
- Pa - Parnell silty clay loam
- Pc - Parnell-Vallers complex
- PwA - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
- PwB - Poinsett-Waubay silty clay loams, 1 to 6 percent slopes
- SbA - Sinai silty clay, 0 to 2 percent slopes
- SbB - Sinai silty clay, 2 to 6 percent slopes
- ShA - Singsaas-Waubay silty clay loams, 0 to 2 percent slopes
- ShB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
- So - Southam silty clay loam, 0 to 1 percent slopes
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes

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Feet

SOILS
South Dakota

MAP 10-21

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

BkB - Barnes-Svea loams, 1 to 6 percent slopes
BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
BtE - Buse loam, 20 to 40 percent slopes
Hm - Hamerly-Badger complex, 0 to 2 percent slopes
HtA - Hegne-Fulda silty clay loams
PwA - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
PwB - Poinsett-Waubay silty clay loams, 1 to 6 percent slopes
RsB - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes
SbA - Sinai silty clay, 0 to 2 percent slopes
SbB - Sinai silty clay, 2 to 6 percent slopes
ShB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
Vc - Vallers loam
W - Water
Z150A - Rauville silty clay loam, coteau, 0 to 1 percent slopes, frequently flooded
Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes

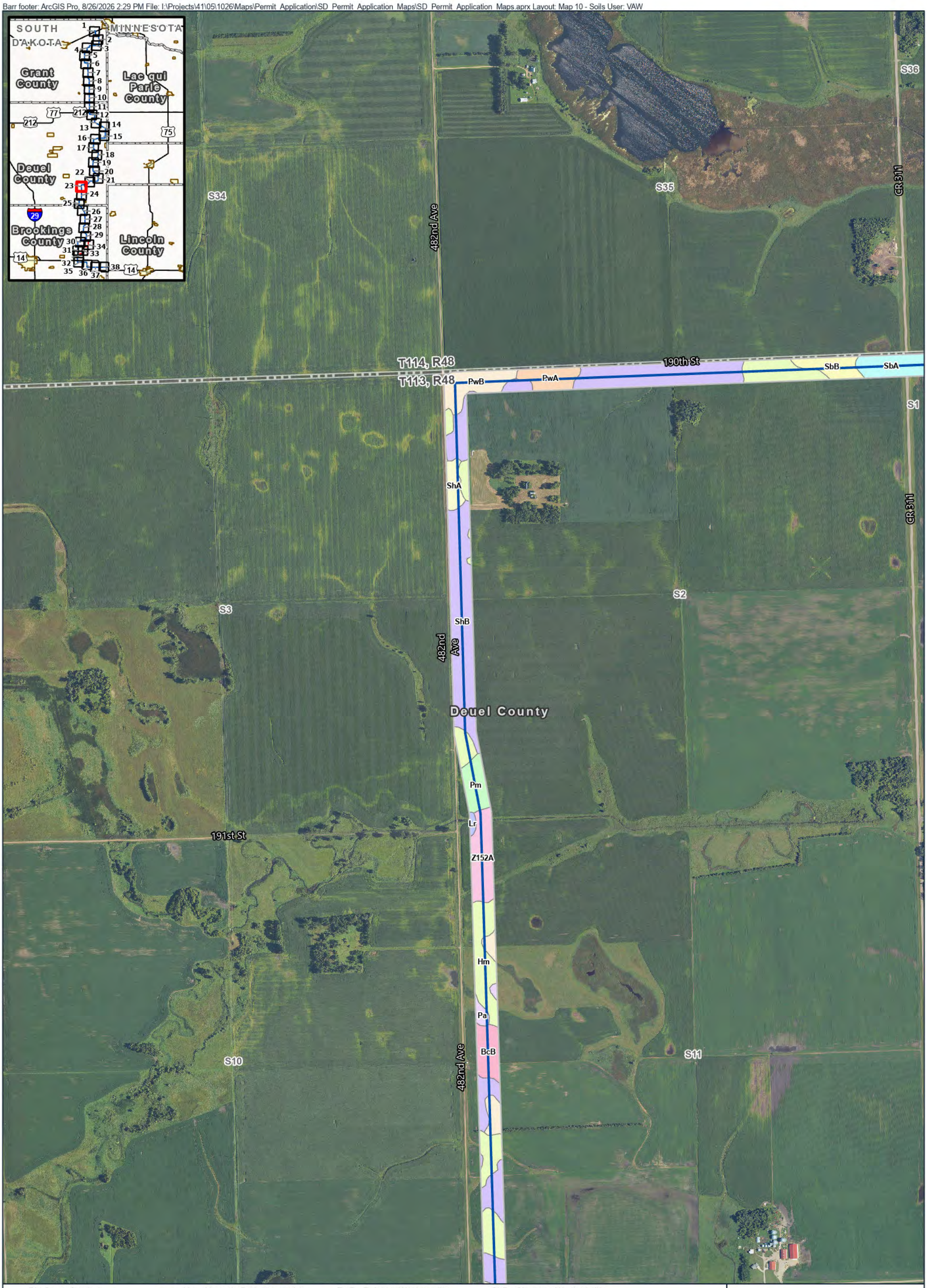
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SOILS
South Dakota

MAP 10-22

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

- BcB - Barnes-Buse loams, coteau, 2 to 6 percent slopes
- Hm - Hamerly-Badger complex, 0 to 2 percent slopes
- Lr - Lamoure-Rauville silty clay loams, channeled
- Pa - Parnell silty clay loam
- Pm - Playmoor silty clay loam
- PwA - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
- PwB - Poinsett-Waubay silty clay loams, 1 to 6 percent slopes
- SbA - Sinai silty clay, 0 to 2 percent slopes
- SbB - Sinai silty clay, 2 to 6 percent slopes
- ShA - Singsaas-Waubay silty clay loams, 0 to 2 percent slopes
- ShB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
- Z152A - Lamoure silty clay loam, coteau, 0 to 1 percent slopes, occasionally flooded

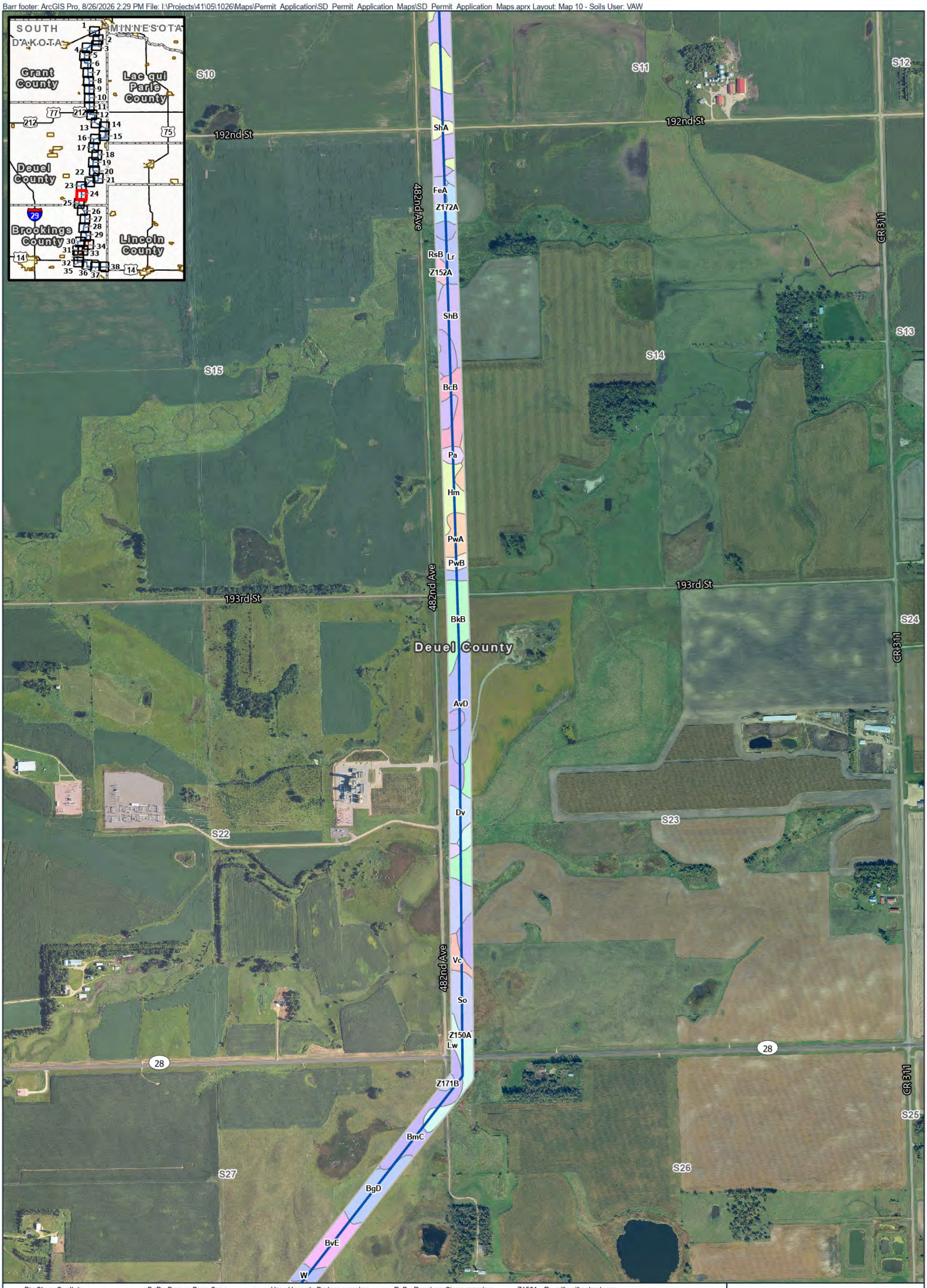
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Feet

SOILS
South Dakota

MAP 10-23

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

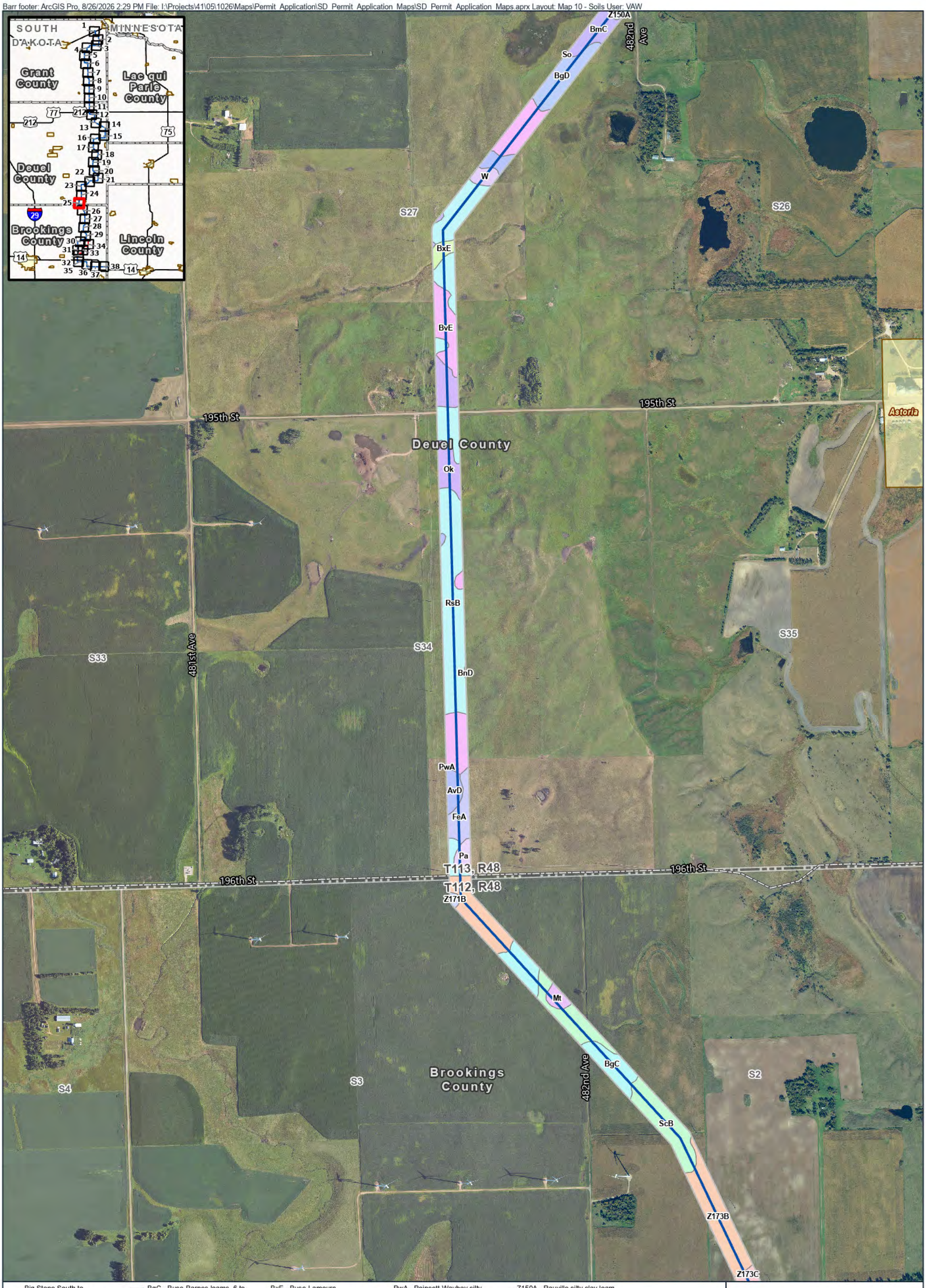
- AvD - Arvilla-Sioux complex, 6 to 15 percent slopes
- BcB - Barnes-Buse loams, coteau, 2 to 6 percent slopes
- BgD - Barnes-Buse-Svea loams, 2 to 15 percent slopes
- BkB - Barnes-Svea loams, 1 to 6 percent slopes
- BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
- BvE - Buse-Barnes loams, 9 to 40 percent slopes, very stony
- Dv - Divide loam
- FeA - Fordville loam, coteau, 0 to 2 percent slopes
- Hm - Hamerly-Badger complex, 0 to 2 percent slopes
- Lr - Lamoure-Rauville silty clay loams, channeled
- Lw - Lowe loam
- Pa - Parnell silty clay loam
- PwA - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
- PwB - Poinsett-Waubay silty clay loams, 1 to 6 percent slopes
- RsB - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes
- ShA - Singsaas-Waubay silty clay loams, 0 to 2 percent slopes
- ShB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
- So - Southam silty clay loam, 0 to 1 percent slopes
- Vc - Vallers loam
- W - Water
- Z150A - Rauville silty clay loam, coteau, 0 to 1 percent slopes, frequently flooded
- Z152A - Lamoure silty clay loam, coteau, 0 to 1 percent slopes, occasionally flooded
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z172A - Renshaw loam, coteau, 0 to 2 percent slopes

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Feet

SOILS
South Dakota

MAP 10-24

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary

Soil Taxonomy

AvD - Arvilla-Sioux complex, 6 to 15 percent slopes
BgC - Buse-Barnes loams, 6 to 9 percent slopes
BgD - Barnes-Buse-Svea loams, 2 to 15 percent slopes
BmC - Barnes-Svea-Buse loams, 2 to 9 percent slopes
BnD - Barnes, stony-Svea-Buse, stony loams, 2 to 12 percent slopes
BvE - Buse-Barnes loams, 9 to 40 percent slopes, very stony
BxE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
FeA - Fordville loam, coteau, 0 to 2 percent slopes
Mt - Mckranz-Badger silty clay loams, 0 to 2 percent slopes
Ok - Orthents, gravelly
Pa - Parnell silty clay loam
PwA - Poinsett-Waubay silty clay loams, 0 to 2 percent slopes
RsB - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes
ScB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
So - Southam silty clay loam, 0 to 1 percent slopes
W - Water
Z150A - Rauville silty clay loam, coteau, 0 to 1 percent slopes, frequently flooded
Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
Z173B - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes
Z173C - Renshaw-Sioux complex, coteau, 6 to 9 percent slopes

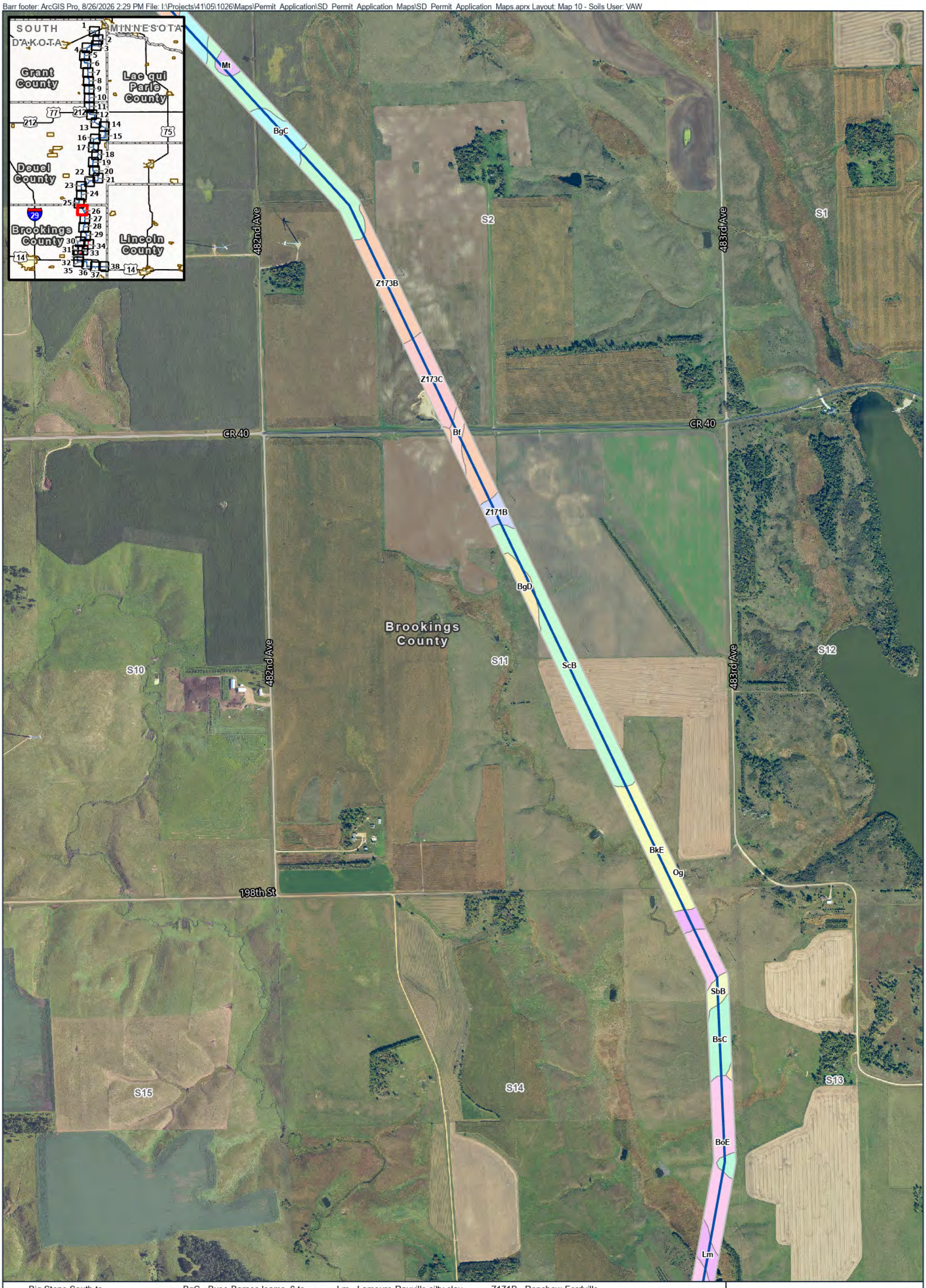
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Feet

SOILS
South Dakota

MAP 10-25

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

- Bf - Brookings silty clay loam, 0 to 2 percent slopes
- BgC - Buse-Barnes loams, 6 to 9 percent slopes
- BgD - Buse-Barnes loams, 9 to 20 percent slopes
- BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- BoE - Buse-Langhei complex, 15 to 40 percent slopes
- BsC - Buse-Singsaas complex, 6 to 9 percent slopes
- Lm - Lamoure-Rauville silty clay loams, channeled
- Mt - Mckranz-Badger silty clay loams, 0 to 2 percent slopes
- Og - Orthents, gravelly
- SbB - Singsaas-Buse complex, 2 to 6 percent slopes
- ScB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z173B - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes
- Z173C - Renshaw-Sioux complex, coteau, 6 to 9 percent slopes

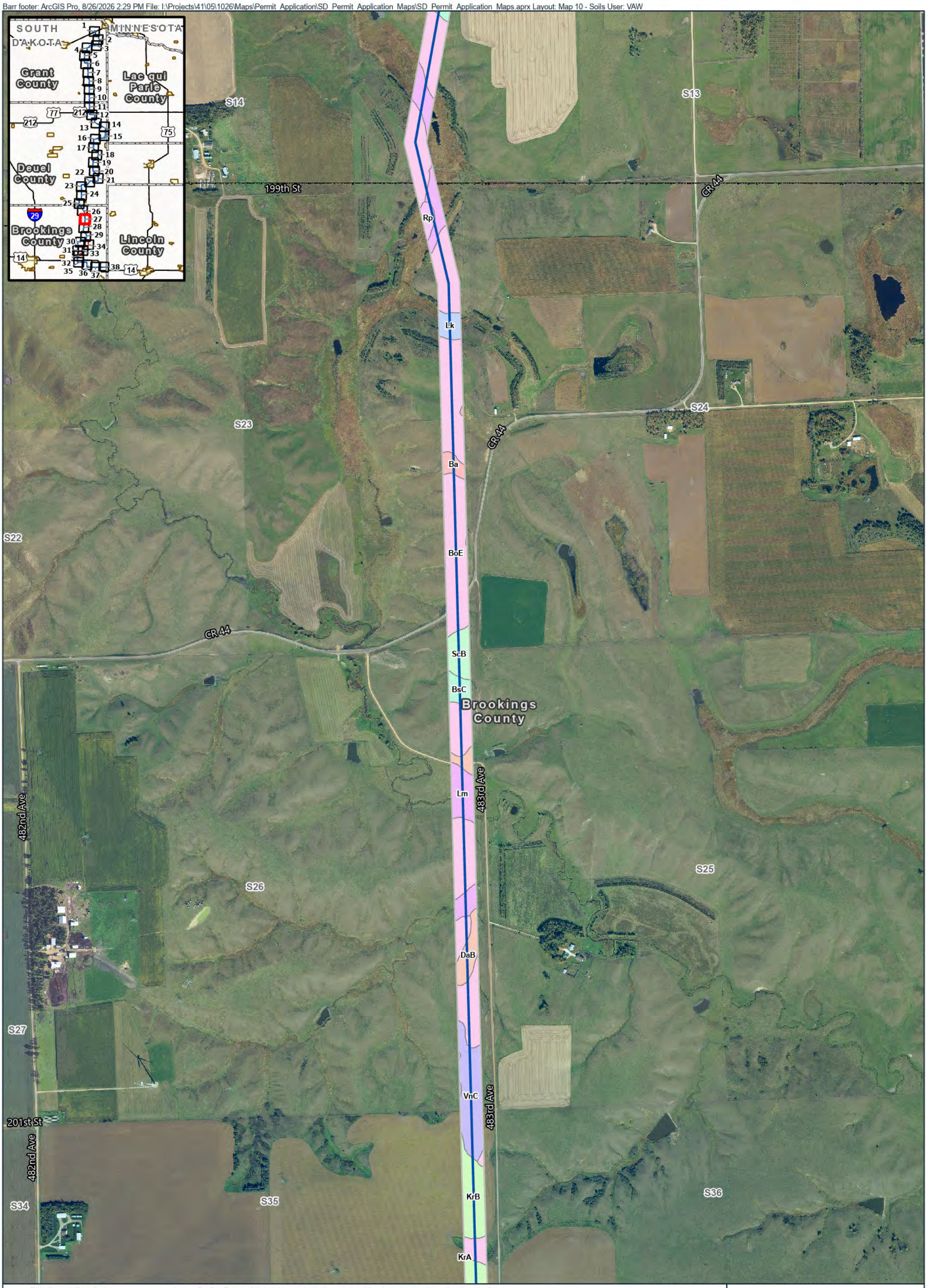
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Feet

SOILS
South Dakota

MAP 10-26

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

Ba - Badger silty clay loam, 0 to 1 percent slopes

BoE - Buse-Langhei complex, 15 to 40 percent slopes

BsC - Buse-Singsaas complex, 6 to 9 percent slopes

DaB - Darnen loam, 2 to 6 percent slopes

KrA - Kranzburg-Brookings silty clay loams, 0 to 2 percent slopes

KrB - Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes

Lk - Lamoure silty clay loam, 0 to 1 percent slopes

Lm - Lamoure-Rauville silty clay loams, channeled

Rp - Rauville silty clay loam, ponded

ScB - Singsaas-Waubay silty clay loams, 1 to 6 percent slopes

VnC - Vienna-Buse complex, 6 to 9 percent slopes

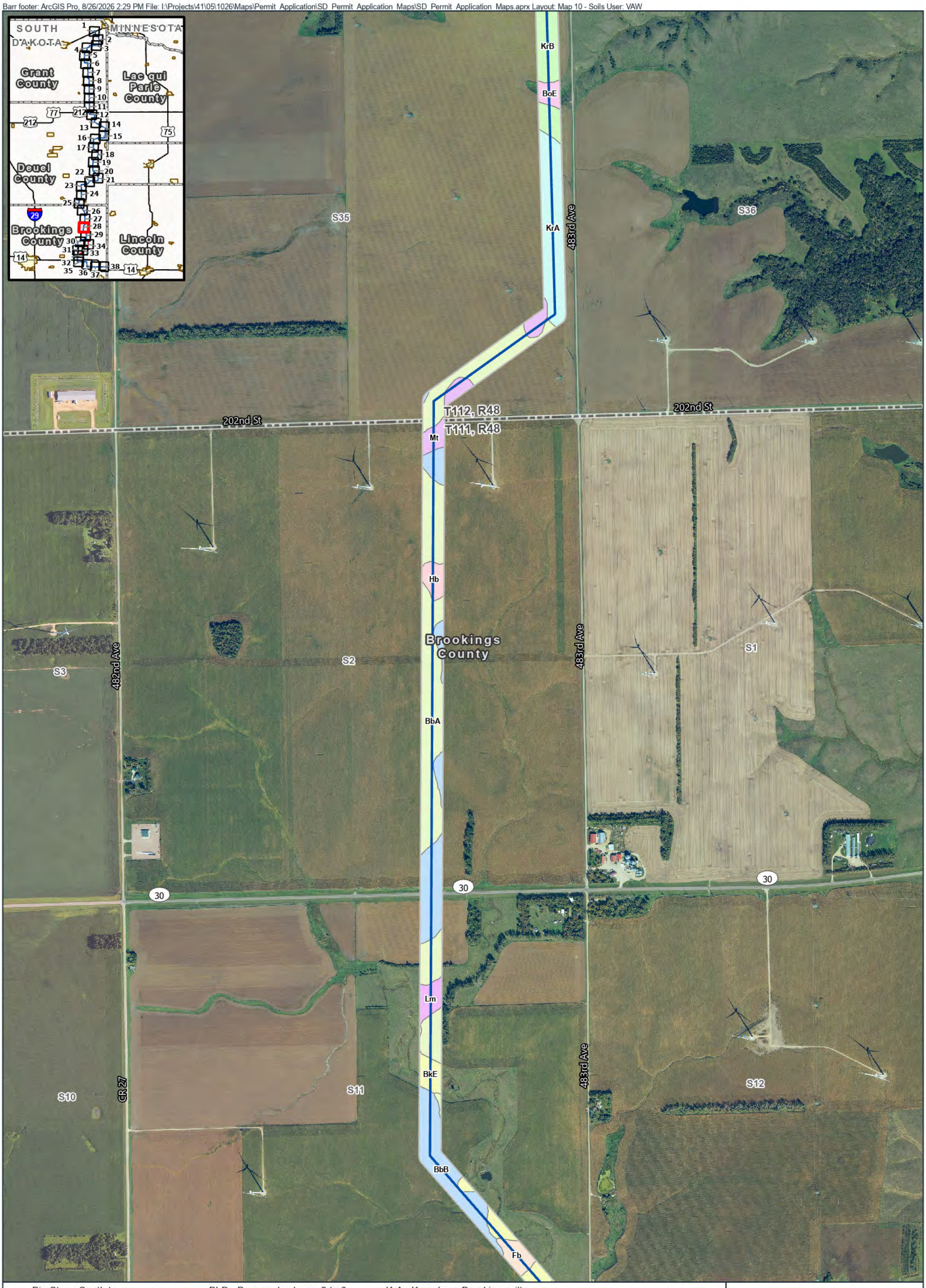
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Feet

SOILS
South Dakota

MAP 10-27

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

BbA - Barnes clay loam, 0 to 2 percent slopes

BbB - Barnes clay loam, 2 to 6 percent slopes

BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes

BoE - Buse-Langhei complex, 15 to 40 percent slopes

Fb - Fordtown loam, 0 to 2 percent slopes

Hb - Hamerly-Badger complex, 0 to 2 percent slopes

KrA - Kranzburg-Brookings silty clay loams, 0 to 2 percent slopes

KrB - Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes

Lm - Lamoure-Rauville silty clay loams, channeled

Mt - Mckranz-Badger silty clay loams, 0 to 2 percent slopes

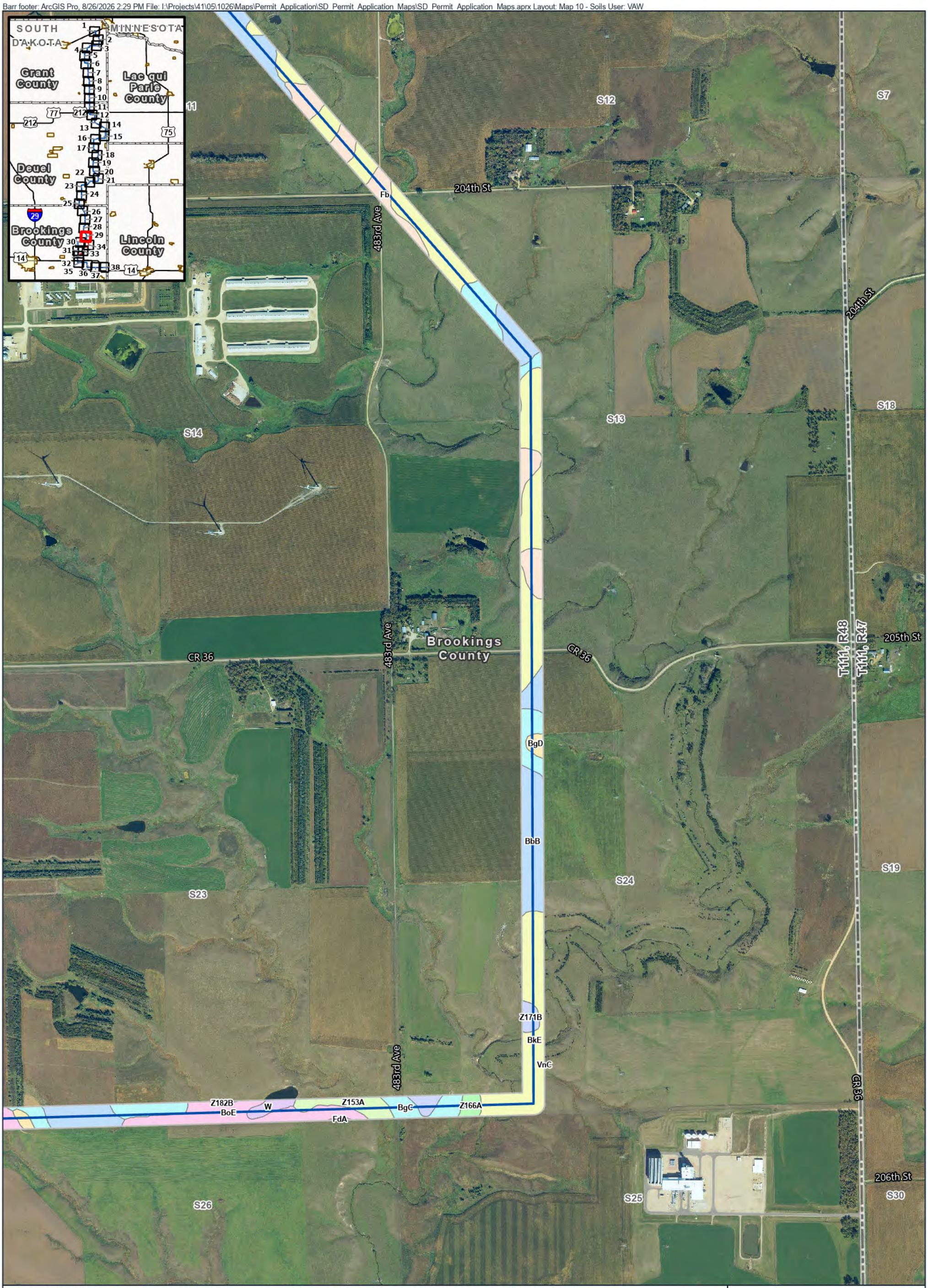
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Feet

SOILS
South Dakota

MAP 10-28

PowerOn Midwest
Big Stone South to Brookings



- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Soil Taxonomy

- BbB - Barnes clay loam, 2 to 6 percent slopes
- BgC - Buse-Barnes loams, 6 to 9 percent slopes
- BgD - Buse-Barnes loams, 9 to 20 percent slopes
- BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- BoE - Buse-Langhei complex, 15 to 40 percent slopes
- Fb - Fordtown loam, 0 to 2 percent slopes
- FdA - Fordville loam, coteau, 0 to 2 percent slopes
- VnC - Vienna-Buse complex, 6 to 9 percent slopes
- W - Water
- Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded
- Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z182B - Estelline silt loam, coteau, 2 to 6 percent slopes

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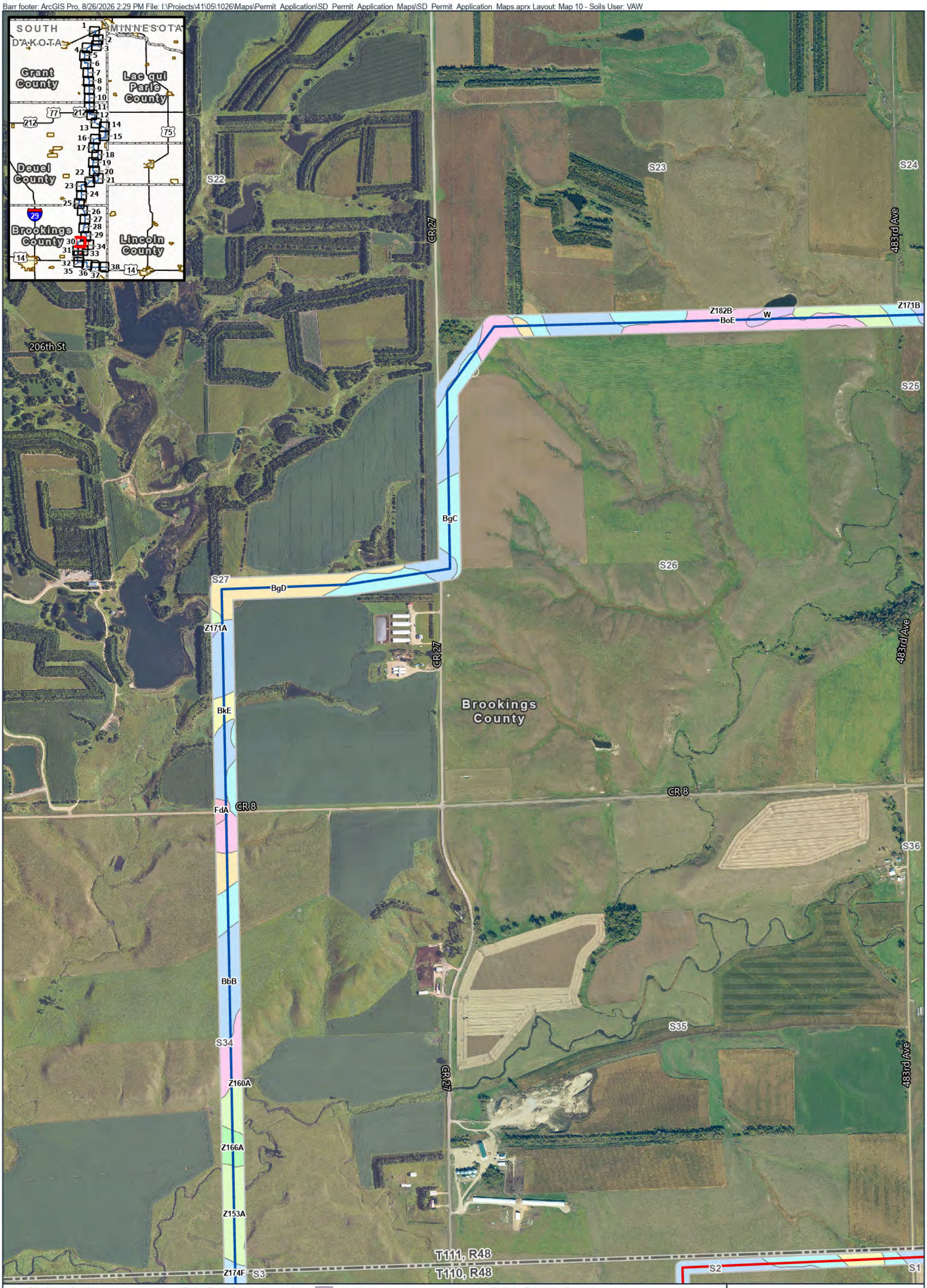
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Feet

SOILS
South Dakota

MAP 10-29

PowerOn Midwest
Big Stone South to Brookings



- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Soil Taxonomy

- BbB - Barnes clay loam, 2 to 6 percent slopes
- BgC - Buse-Barnes loams, 6 to 9 percent slopes
- BgD - Buse-Barnes loams, 9 to 20 percent slopes
- BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- BoE - Buse-Langhei complex, 15 to 40 percent slopes
- FdA - Fordville loam, coteau, 0 to 2 percent slopes
- W - Water
- Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded
- Z160A - Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes
- Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
- Z171A - Renshaw-Fordville loams, coteau, 0 to 2 percent slopes
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z174F - Sioux-Renshaw complex, coteau, 15 to 40 percent slopes
- Z182B - Estelline silt loam, coteau, 2 to 6 percent slopes

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0 500 1,000

Feet

SOILS
South Dakota

MAP 10-30

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary

Soil Taxonomy

- BbB - Barnes clay loam, 2 to 6 percent slopes
- Bf - Brookings silty clay loam, 0 to 2 percent slopes
- BgC - Buse-Barnes loams, 6 to 9 percent slopes
- BgD - Buse-Barnes loams, 9 to 20 percent slopes
- BhE - Buse-Barnes loams, 9 to 40 percent slopes, very stony
- BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- BxE - Buse-Sioux complex, 9 to 40 percent slopes
- Hb - Hamerly-Badger complex, 0 to 2 percent slopes
- SrB - Strayhoss loam, 2 to 6 percent slopes
- StB - Strayhoss-Maddock complex, 2 to 6 percent slopes
- VaB - Venagro-Svea loams, 1 to 6 percent slopes
- VbA - Vienna-Brookings complex, 0 to 2 percent slopes
- VbB - Vienna-Brookings complex, 1 to 6 percent slopes
- Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded
- Z159A - Divide loam, 0 to 2 percent slopes, occasionally flooded
- Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z173B - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes
- Z174F - Sioux-Renshaw complex, coteau, 15 to 40 percent slopes
- Z176B - Arvilla-Sandberg sandy loams, coteau, 2 to 6 percent slopes
- Z186B - Maddock-Egeland sandy loams, coteau, 2 to 6 percent slopes

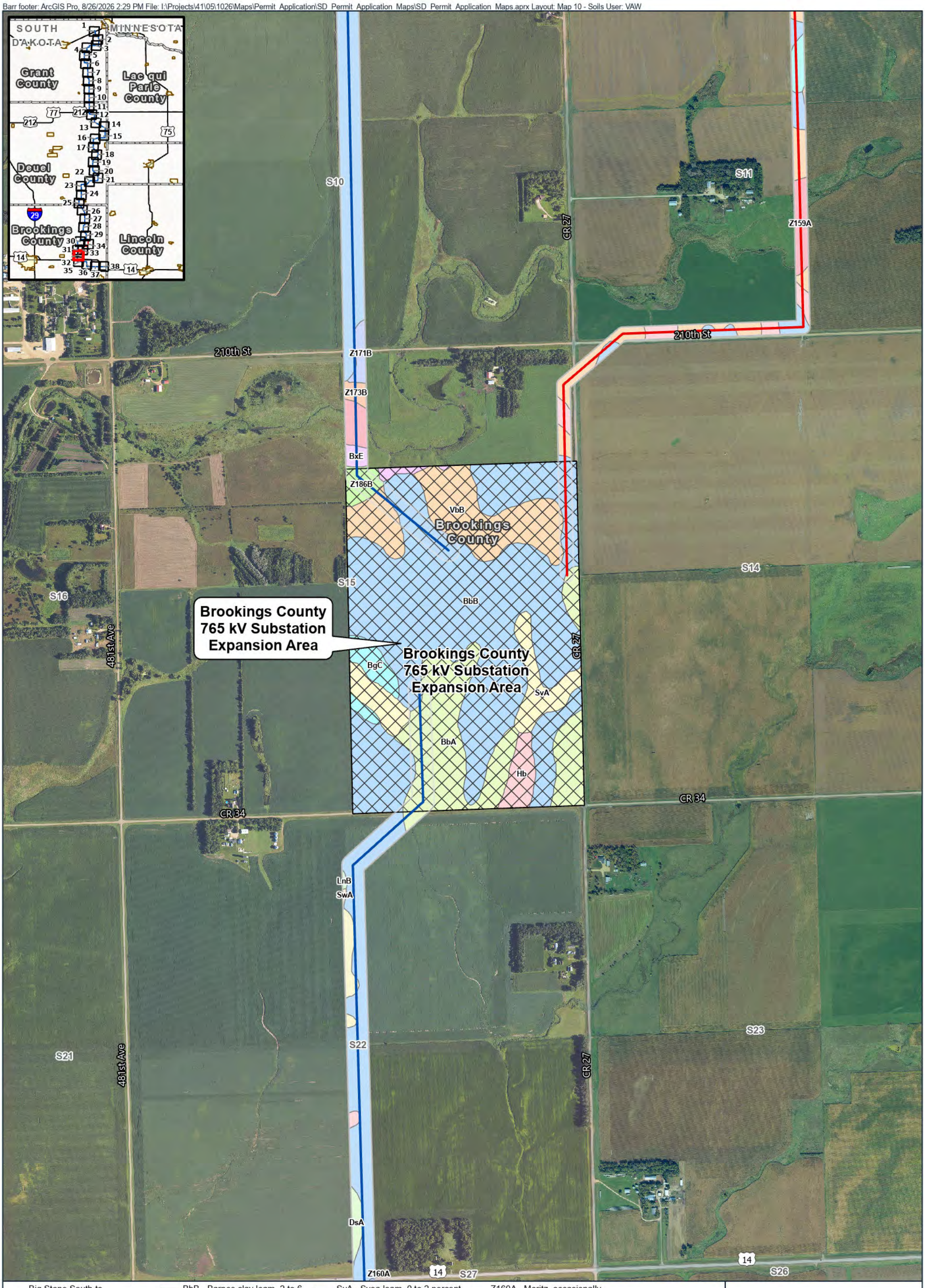
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Feet

SOILS
South Dakota

MAP 10-31

PowerOn Midwest
Big Stone South to Brookings



SOILS
South Dakota

MAP 10-32

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary

Soil Taxonomy

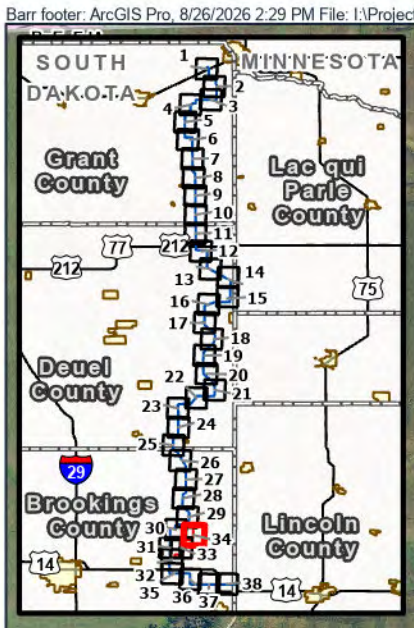
- BbB - Barnes clay loam, 2 to 6 percent slopes
- BgC - Buse-Barnes loams, 6 to 9 percent slopes
- BgD - Buse-Barnes loams, 9 to 20 percent slopes
- BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- BxE - Buse-Sioux complex, 9 to 40 percent slopes
- DoB - Doland loam, 2 to 6 percent slopes
- Hb - Hamerly-Badger complex, 0 to 2 percent slopes
- SrB - Strayhoss loam, 2 to 6 percent slopes
- StB - Strayhoss-Maddock complex, 2 to 6 percent slopes
- VaB - Venagro-Svea loams, 1 to 6 percent slopes
- VbB - Vienna-Brookings complex, 1 to 6 percent slopes
- Z159A - Divide loam, 0 to 2 percent slopes, occasionally flooded
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Brookings C 345 kV Substation Expansion Area

206th St
CR 36
CR 8
483rd Ave
484th Ave
T111, R48
T111, R47
T110, R48
T110, R47
S25
S30
S31
S36
S35
S1
S2
S6
Brookings County
VnC
StB
VaB
Mu
KrB
Z174D
Z171B
Z173C
Z182A
Z174F
Z153A
Z152A
Z166A
BkE
BgC
BbB
BgD
DoB

Existing Substation
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary

Soil Taxonomy

- BbB - Barnes clay loam, 2 to 6 percent slopes
- BgC - Buse-Barnes loams, 6 to 9 percent slopes
- BgD - Buse-Barnes loams, 9 to 20 percent slopes
- BkE - Buse-Lamoure, channeled, complex, 0 to 40 percent slopes
- BoE - Buse-Langhei complex, 15 to 40 percent slopes
- DoB - Doland loam, 2 to 6 percent slopes
- FdA - Fordville loam, coteau, 0 to 2 percent slopes
- KrB - Kranzburg-Brookings silty clay loams, 1 to 6 percent slopes
- Mu - McIntosh-Lamoure silty clay loams, 0 to 2 percent slopes
- StB - Strayhoss-Maddock complex, 2 to 6 percent slopes
- VaB - Venagro-Svea loams, 1 to 6 percent slopes
- VnC - Vienna-Buse complex, 6 to 9 percent slopes
- Z152A - Lamoure silty clay loam, coteau, 0 to 1 percent slopes, occasionally flooded
- Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded
- Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z173C - Renshaw-Sioux complex, coteau, 6 to 9 percent slopes
- Z174D - Sioux-Renshaw complex, coteau, 9 to 15 percent slopes
- Z174F - Sioux-Renshaw complex, coteau, 15 to 40 percent slopes
- Z182A - Estelline silt loam, coteau, 0 to 2 percent slopes

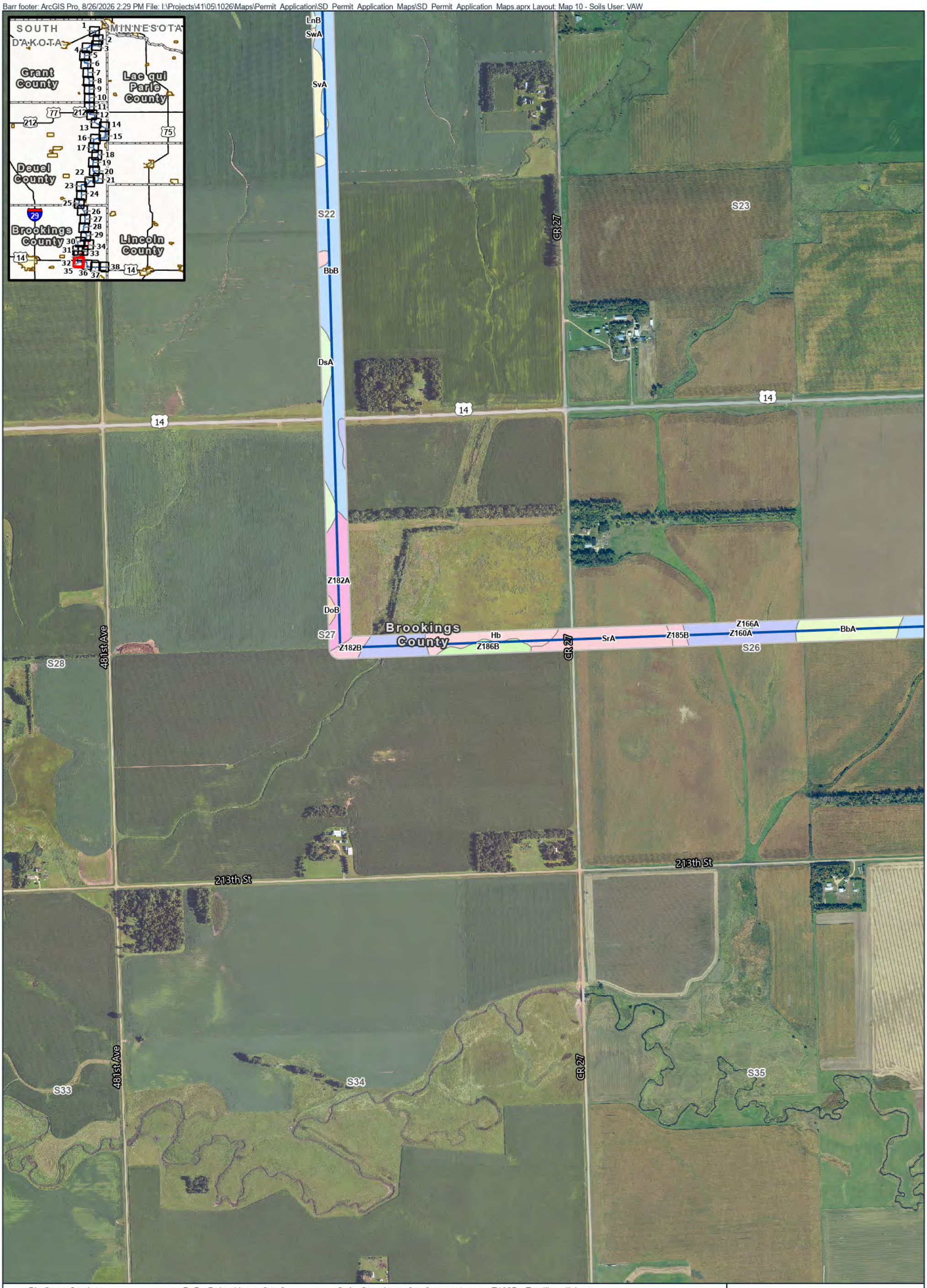
N

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-34

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

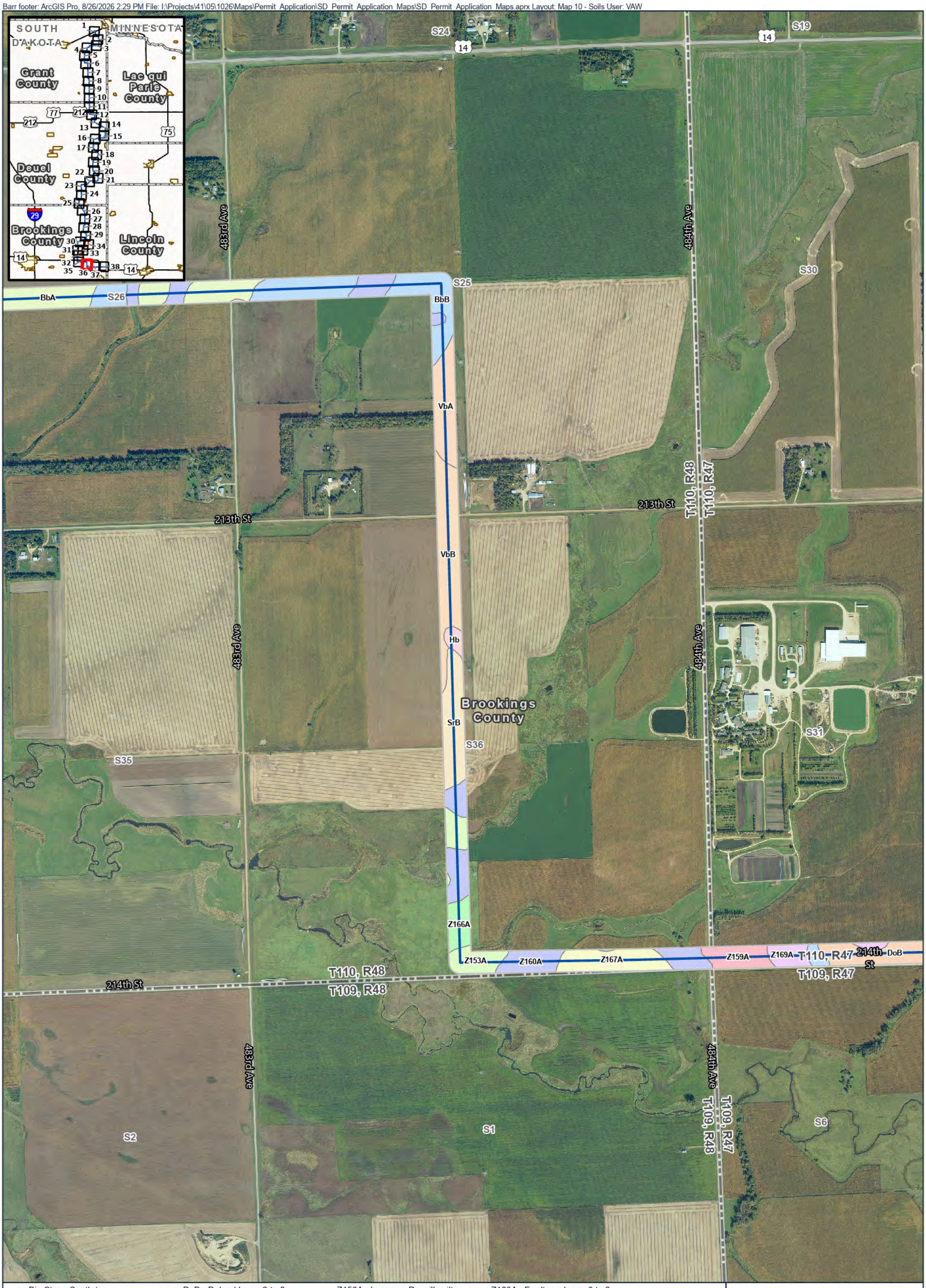
BbA - Barnes clay loam, 0 to 2 percent slopes
BbB - Barnes clay loam, 2 to 6 percent slopes
DoB - Doland loam, 2 to 6 percent slopes
DsA - Doland-Svea loams, 0 to 2 percent slopes
Hb - Hamerly-Badger complex, 0 to 2 percent slopes
LnB - Lanona-Swenoda sandy loams, 2 to 6 percent slopes
SrA - Strayhoss loam, 0 to 2 percent slopes
SvA - Svea loam, 0 to 2 percent slopes
SwA - Swenoda-Lanona sandy loams, 0 to 2 percent slopes
Z160A - Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes
Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
Z182A - Estelline silt loam, coteau, 0 to 2 percent slopes
Z182B - Estelline silt loam, coteau, 2 to 6 percent slopes
Z185B - Egeland-Embden complex, coteau, 2 to 6 percent slopes
Z186B - Maddock-Egeland sandy loams, coteau, 2 to 6 percent slopes

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-35

PowerOn Midwest
Big Stone South to Brookings



- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Soil Taxonomy

- BbA - Barnes clay loam, 0 to 2 percent slopes
- BbB - Barnes clay loam, 2 to 6 percent slopes
- DoB - Doland loam, 2 to 6 percent slopes
- Hb - Hamerly-Badger complex, 0 to 2 percent slopes
- SrB - Strayhoss loam, 2 to 6 percent slopes
- VbA - Vienna-Brookings complex, 0 to 2 percent slopes
- VbB - Vienna-Brookings complex, 1 to 6 percent slopes
- Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded
- Z159A - Divide loam, 0 to 2 percent slopes, occasionally flooded
- Z160A - Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes
- Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
- Z167A - Renwash loam, 0 to 2 percent slopes, rarely flooded
- Z169A - Fordtown, rarely flooded-Spottswood, ocassionally flooded, loams, 0 to 2 percent slopes

SOILS
South Dakota

MAP 10-36

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

Soil Taxonomy

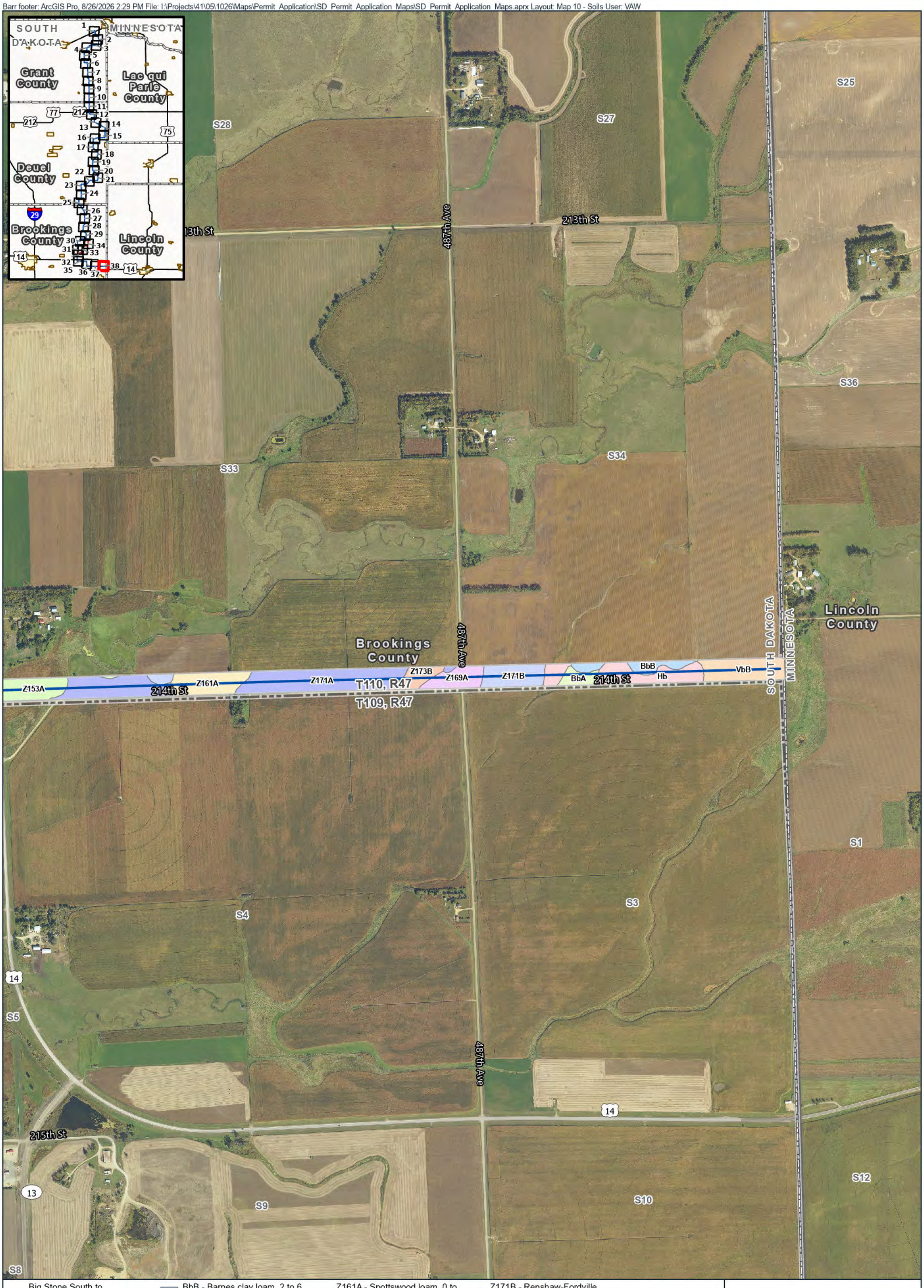
- BbA - Barnes clay loam, 0 to 2 percent slopes
- BbB - Barnes clay loam, 2 to 6 percent slopes
- DoB - Doland loam, 2 to 6 percent slopes
- VbB - Vienna-Brookings complex, 1 to 6 percent slopes
- Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded
- Z158A - Marysland loam, 0 to 1 percent slopes, occasionally flooded
- Z159A - Divide loam, 0 to 2 percent slopes, occasionally flooded
- Z160A - Moritz, occasionally flooded-Lamoure, frequently flooded, complex, 0 to 2 percent slopes
- Z161A - Spottswood loam, 0 to 2 percent slopes, occasionally flooded
- Z166A - Fordtown loam, 0 to 2 percent slopes, rarely flooded
- Z169A - Fordtown, rarely flooded-Spottswood, ocassionally flooded, loams, 0 to 2 percent slopes
- Z171A - Renshaw-Fordville loams, coteau, 0 to 2 percent slopes
- Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes
- Z173C - Renshaw-Sioux complex, coteau, 6 to 9 percent slopes

0 500 1,000
Feet

SOILS
South Dakota

MAP 10-37

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Soil Taxonomy

BbA - Barnes clay loam, 0 to 2 percent slopes

BbB - Barnes clay loam, 2 to 6 percent slopes

Hb - Hamerly-Badger complex, 0 to 2 percent slopes

VbB - Vienna-Brookings complex, 1 to 6 percent slopes

Z153A - Lamoure-Rauville silty clay loams, channeled, 0 to 2 percent slopes, frequently flooded

Z161A - Spottswood loam, 0 to 2 percent slopes, occasionally flooded

Z169A - Fordtown, rarely flooded-Spottswood, ocassionally flooded, loams, 0 to 2 percent slopes

Z171A - Renshaw-Fordville loams, coteau, 0 to 2 percent slopes

Z171B - Renshaw-Fordville loams, coteau, 2 to 6 percent slopes

Z173B - Renshaw-Sioux complex, coteau, 2 to 6 percent slopes

N

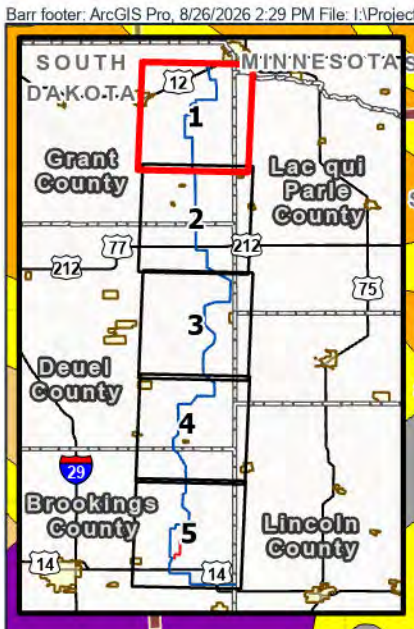
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Feet

SOILS
South Dakota

MAP 10-38

PowerOn Midwest
Big Stone South to Brookings



Big Stone South 765 kV Substation Expansion Area

BIG STONE SOUTH SUBSTATION

Granite Quarry

Big Stone County

Lac qui Parle County

Grant County

SOUTH DAKOTA

MINNESOTA

Milbank

158

T121, R48
T120, R48

T121, R47
T120, R48

T121, R47
T120, R47

T121, R46
T120, R47

T120, R48
T119, R48

T120, R47
T119, R47

T119, R48

T119, R47

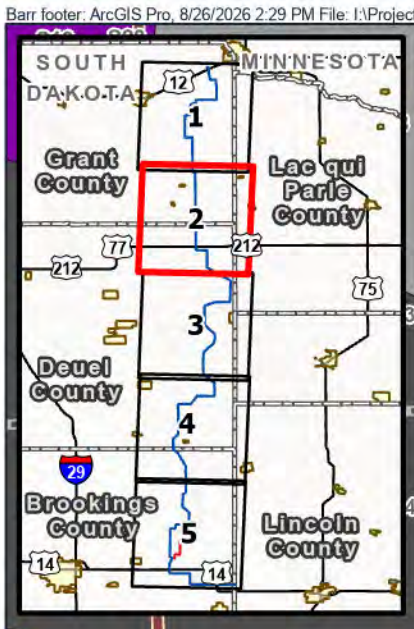
Existing Substation	First Occurrence is generally less than or equal to 50 feet below land surface	First Occurrence is generally greater than 50 feet and less than or equal to 100 feet below land surface	First Occurrence is generally greater than 100 feet below land surface
Big Stone South to Brookings 765 kV Route	Alluvium	Sand and Gravel	Sand and Gravel
Right-of-Way	Millbank Granite Wash	Millbank Granite Wash	Dakota Formation
Substation Expansion Area	Sand and Gravel		Millbank Granite Wash
County Boundary			
Public Land Survey Township			
Municipal Boundary			

0 1 2
Miles

FIRST OCCURRENCE OF AQUIFER MATERIALS
South Dakota

MAP 11-1

PowerOn Midwest
Big Stone South to Brookings



Albee
Revillo
Grant County
Lac qui Parle County
Deuel County
SOUTH DAKOTA
MINNESOTA
T119, R48
T118, R48
T119, R47
T118, R47
T118, R48
T117, R48
T118, R47
T117, R47
T117, R48
T116, R48
T117, R47
T116, R47
20
40
101
212

Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
County Boundary
Public Land Survey Township
Municipal Boundary

First Occurrence is generally less than or equal to 50 feet below land surface
Alluvium
Sand and Gravel

First Occurrence is generally greater than 50 feet and less than or equal to 100 feet below land surface
Sand and Gravel

First Occurrence is generally greater than 100 feet below land surface
Sand and Gravel
Dakota Formation
Millbank Granite Wash

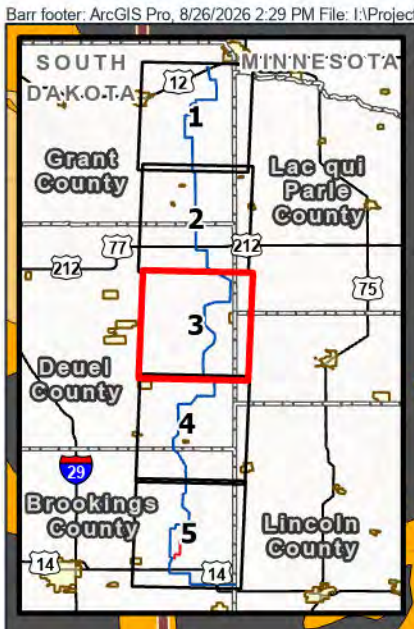
N

0 1 2
Miles

FIRST OCCURRENCE OF AQUIFER MATERIALS
South Dakota

MAP 11-2

PowerOn Midwest
Big Stone South to Brookings



Deuel County

Lac qui Parle County

Yellow Medicine County

Gary

SOUTH DAKOTA

MINNESOTA

T116, R48
T115, R48
T116, R47
T115, R47
T114, R48
T114, R47

101
22
68

Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
County Boundary
Public Land Survey Township
Municipal Boundary

First Occurrence is generally less than or equal to 50 feet below land surface
Alluvium
Sand and Gravel

First Occurrence is generally greater than 50 feet and less than or equal to 100 feet below land surface
Sand and Gravel

First Occurrence is generally greater than 100 feet below land surface
Sand and Gravel
Dakota Formation

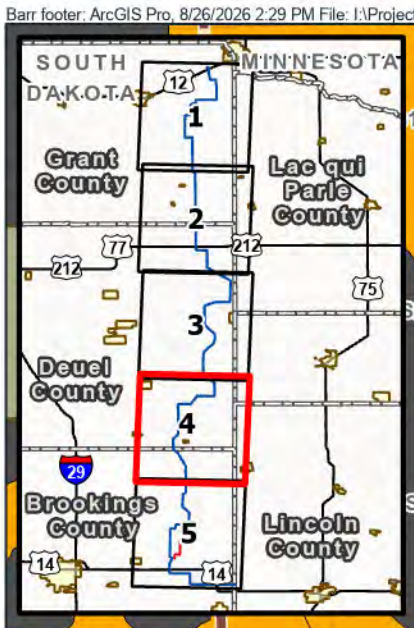
N

0 1 2
Miles

FIRST OCCURRENCE OF AQUIFER MATERIALS
South Dakota

MAP 11-3

PowerOn Midwest
Big Stone South to Brookings



Yellow Medicine County

T114, R48
T113, R48
T112, R48
T114, R47
T113, R47
T112, R47

Deuel County

Brookings County

Lincoln County

Toronto

Astoria

28

271

SOUTH DAKOTA

MINNESOTA

Existing Substation

Big Stone South to Brookings 765 kV Route

Right-of-Way

County Boundary

Public Land Survey Township

Municipal Boundary

First Occurrence is generally less than or equal to 50 feet below land surface

Alluvium

Sand and Gravel

First Occurrence is generally greater than 50 feet and less than or equal to 100 feet below land surface

Sand and Gravel

First Occurrence is generally greater than 100 feet below land surface

Sand and Gravel

N

0 1 2

Miles

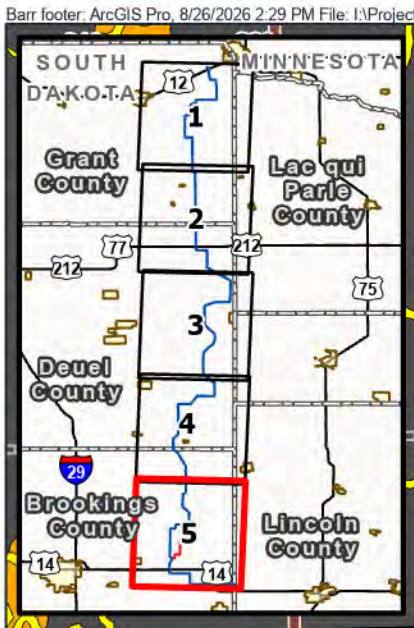
FIRST OCCURRENCE OF AQUIFER MATERIALS

South Dakota

MAP 11-4

PowerOn Midwest

Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

Brookings County 765 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Brookings County

Lincoln County

SOUTH DAKOTA

MINNESOTA

White

Bushnell

T112, R48
T111, R48
T112, R47
T111, R47
T110, R48
T110, R47
T109, R48
T109, R47

30
19
14

- Existing Substation
- Big Stone South to Brookings 765 kV Route
- Brookings to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- County Boundary
- Public Land Survey Township
- Municipal Boundary

First Occurrence is generally less than or equal to 50 feet below land surface
- Alluvium
- Sand and Gravel

First Occurrence is generally greater than 50 feet and less than or equal to 100 feet below land surface
- Sand and Gravel

First Occurrence is generally greater than 100 feet below land surface
- Sand and Gravel

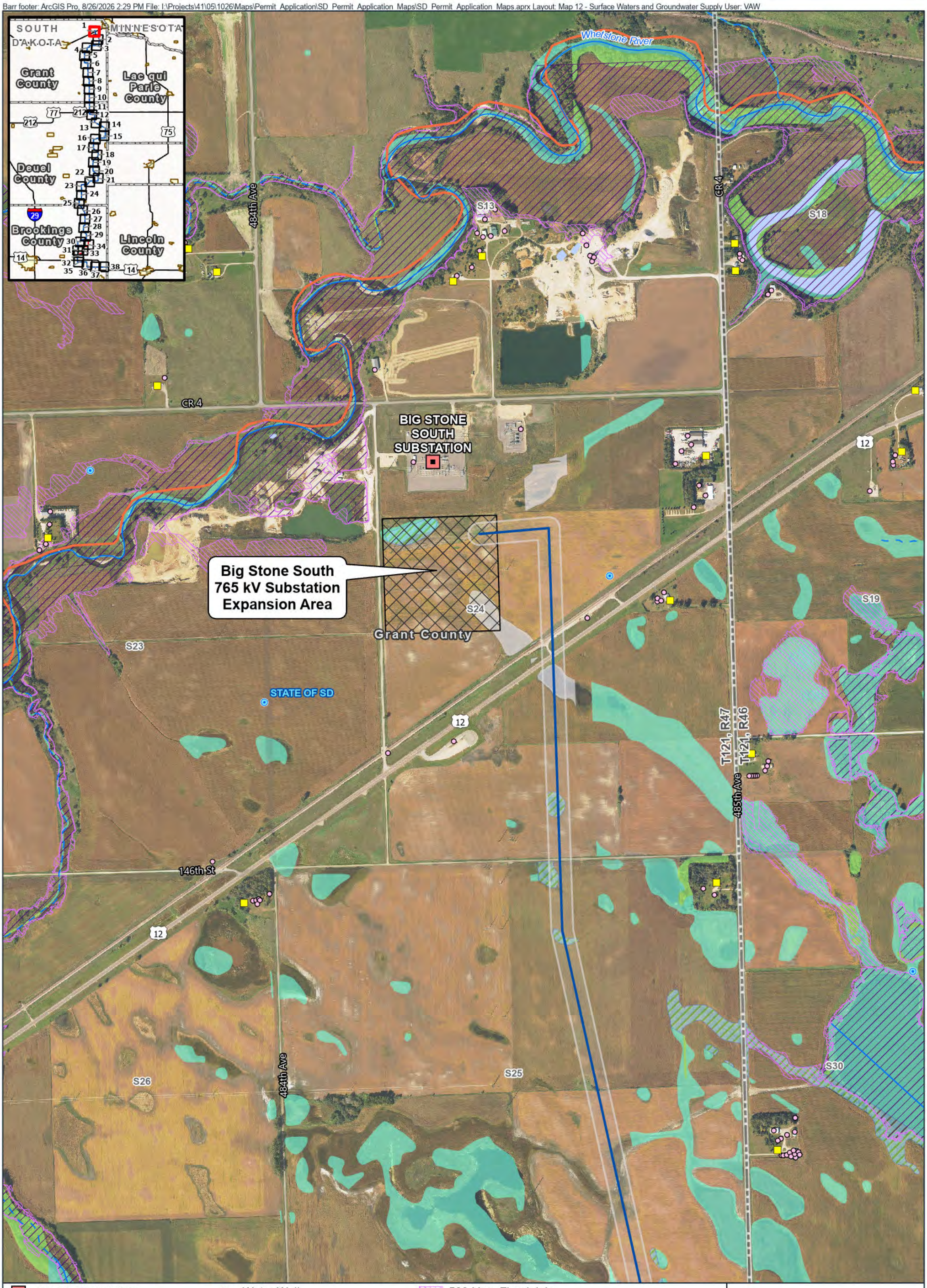
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0 1 2
Miles

FIRST OCCURRENCE OF AQUIFER MATERIALS
South Dakota

MAP 11-5

PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Substation Expansion Area
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Impaired Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

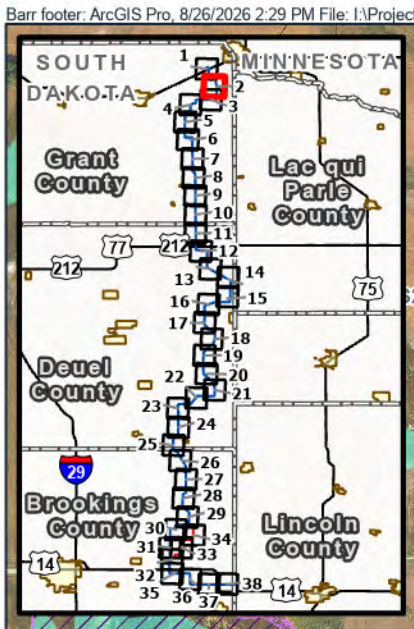
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

N
0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-1

PowerOn Midwest
Big Stone South to Brookings



S25 S30 S29 S36 S31 S32 S4 S5 S6 S7 S8 S9

485th Ave 486th Ave

147th St 148th St 149th St

T121, R47 T121, R46 T120, R47

Grant County

CR 10 CR 39

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well

Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

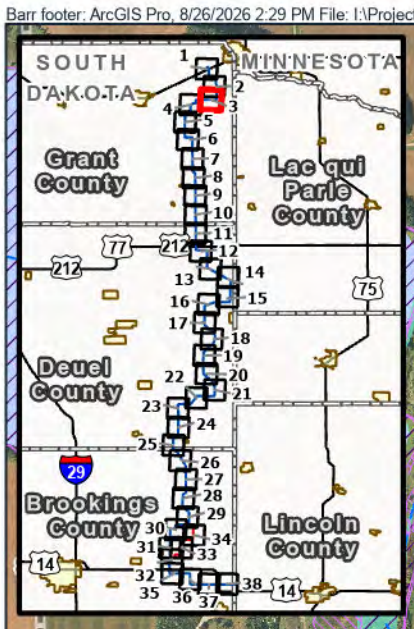
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Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-2

PowerOn Midwest
Big Stone South to Brookings



S6
S5
149th St
CR 10
T120, R48
T120, R47
S7
CR 39
COLD SPRING GRANITE
S8
Grant County
S12
150th St
150th St
484th Ave
S13
S18
CR 39
S17
North Fork Yellow Bank River

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Impaired Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

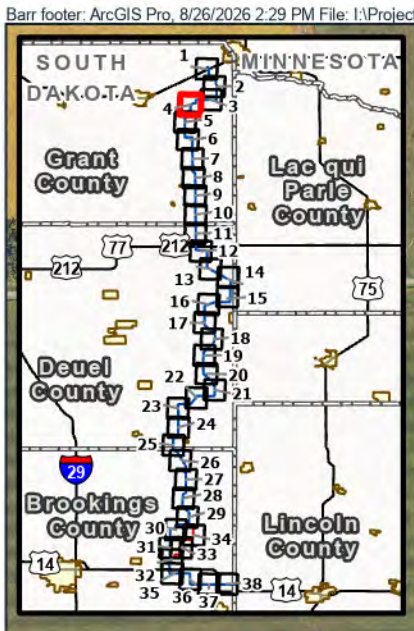
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

N
0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-3

PowerOn Midwest
Big Stone South to Brookings



S2 S1 S6 S7 S11 S12 S13 S14 S23 S24

149th St

150th St

151st St

483rd Ave

484th Ave

T120, R48

T120, R47

Grant County

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Non-Residential Structure

Water Well

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

100-Year Floodplain

500-Year Floodplain

Desktop-Based Wetland Delineation

Non-Forested Wetland

Wetland classification pending

National Wetland Inventory

Forested Wetland

Non-Forested Wetland

N

0 500 1,000

Feet

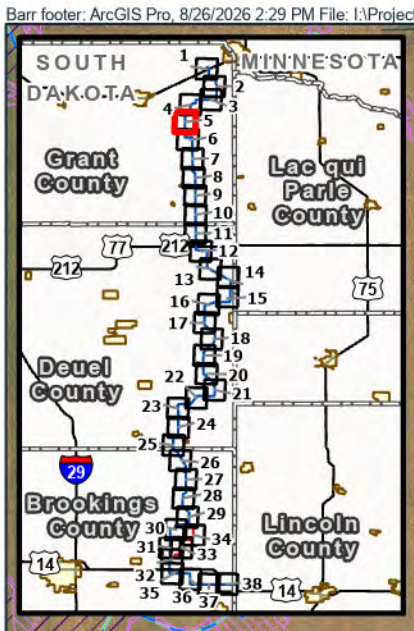
SURFACE WATERS AND GROUNDWATER SUPPLY

South Dakota

MAP 12-4

PowerOn Midwest

Big Stone South to Brookings



CR 35
S23
483rd Ave
S24
152nd St
Grant County
S26
S25
S27
North Fork Yellow Bank River
CR 14
S34
S35
S36

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Impaired Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

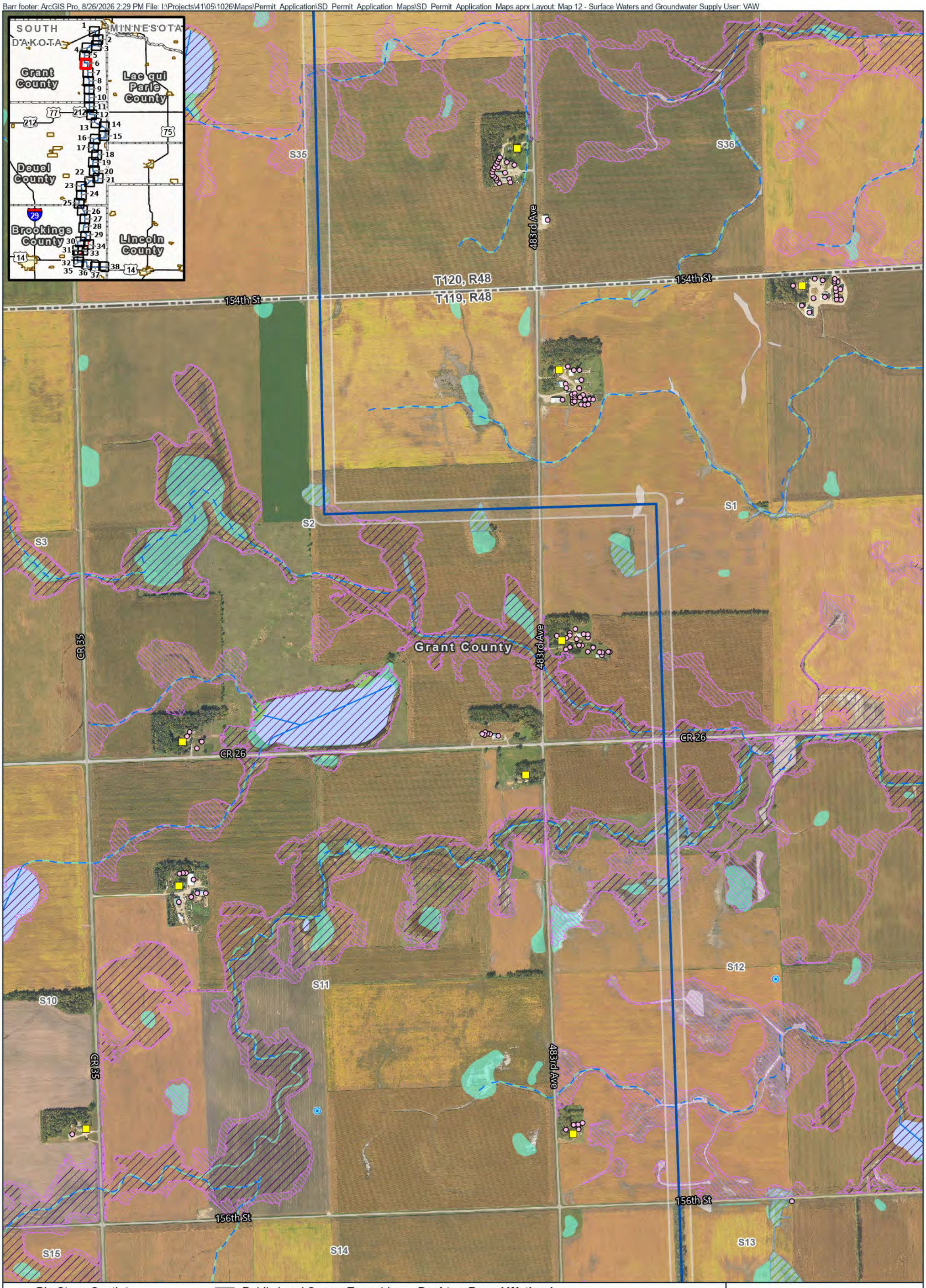
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-5

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well

Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

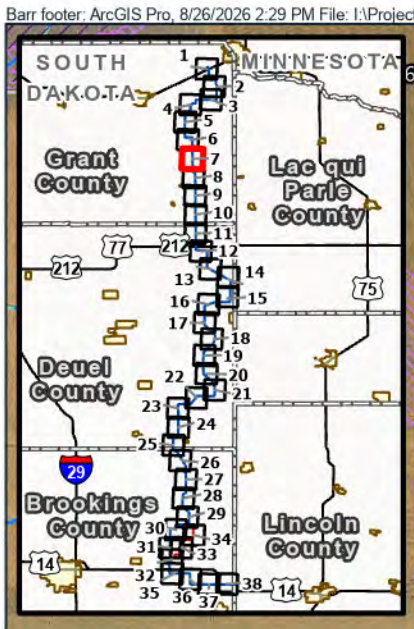
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-6

PowerOn Midwest
Big Stone South to Brookings



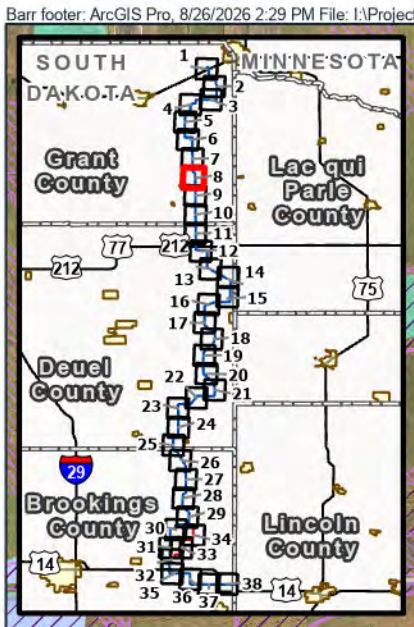
156th St
S12
483rd Ave
S13
484th Ave
S18
158
T119, R47
T119, R48
Grant County
S24
S19
S23
158th St
S26
S25
S30

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain
Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending
National Wetland Inventory
Non-Forested Wetland
N
0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-7

PowerOn Midwest
Big Stone South to Brookings



S25 S30 S35 S36 S31 S1 S2 S6 S7 S11 S12

483rd Ave 484th Ave

CR 28 160th St CR 18

T119, R48 T119, R47 T118, R48 T118, R47

Grant County

Albee

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Municipal Boundary

Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

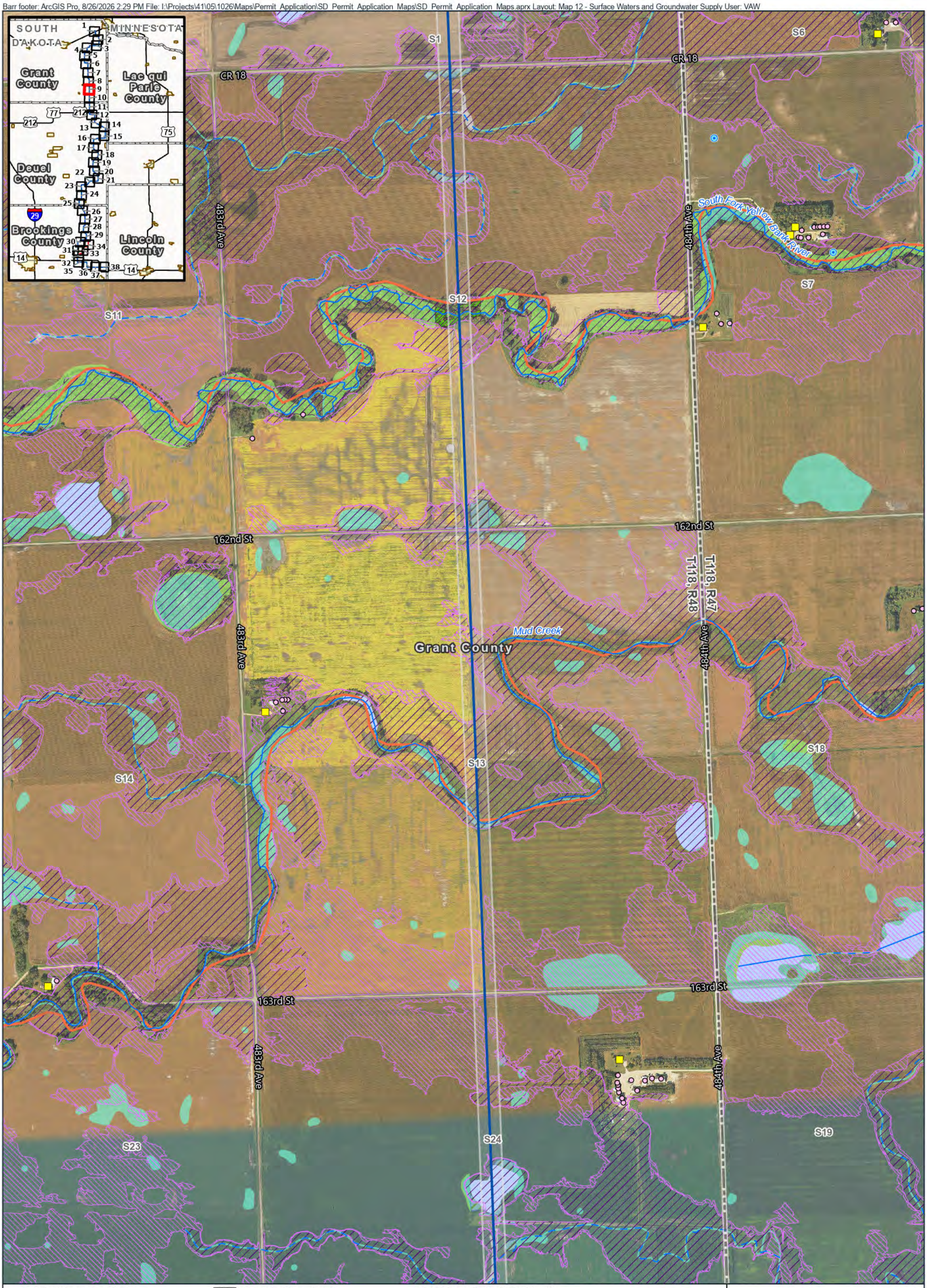
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-8

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township

County Boundary
Perennial Stream
Intermittent Stream
Impaired Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

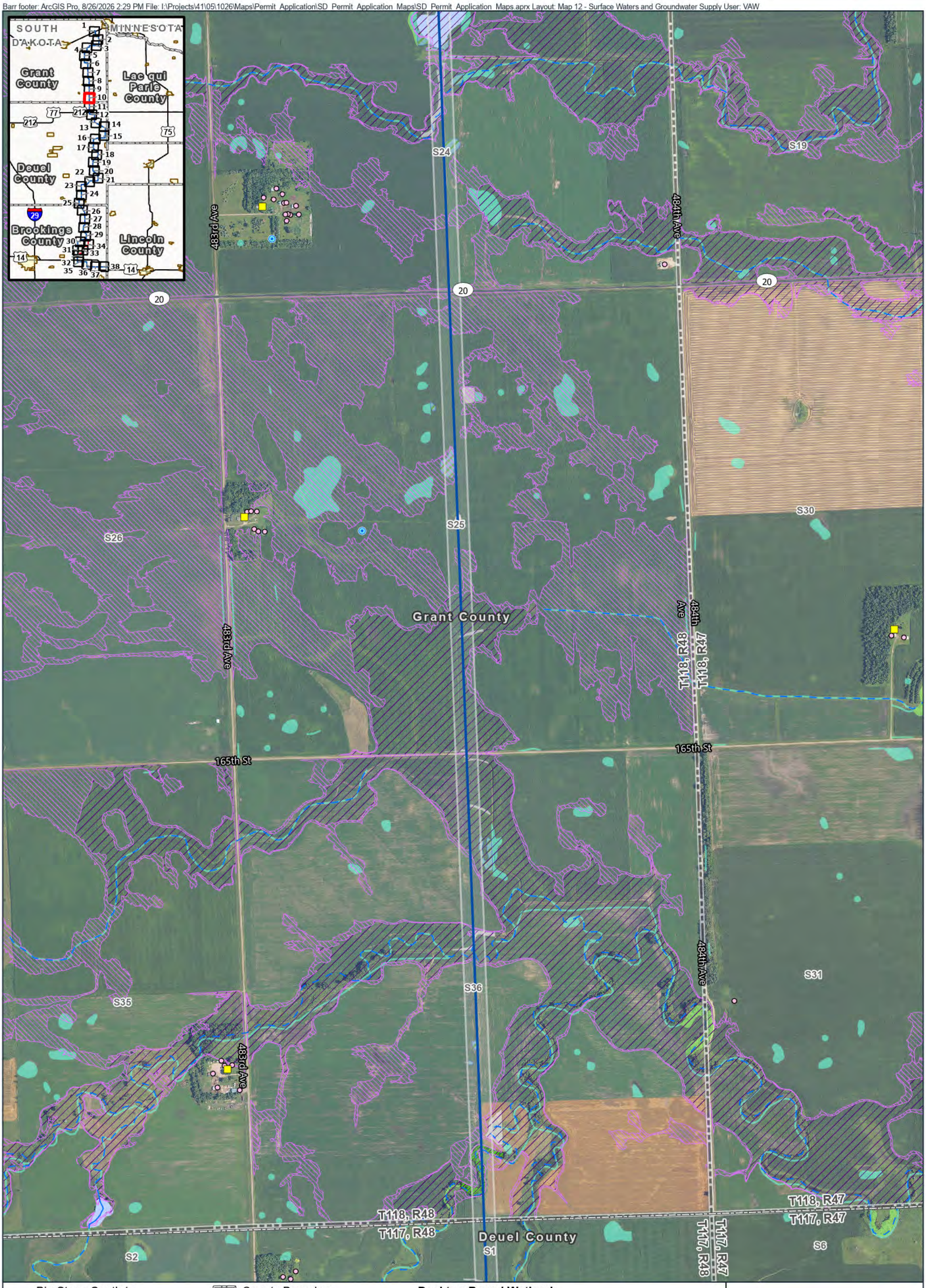
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-9

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township

County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

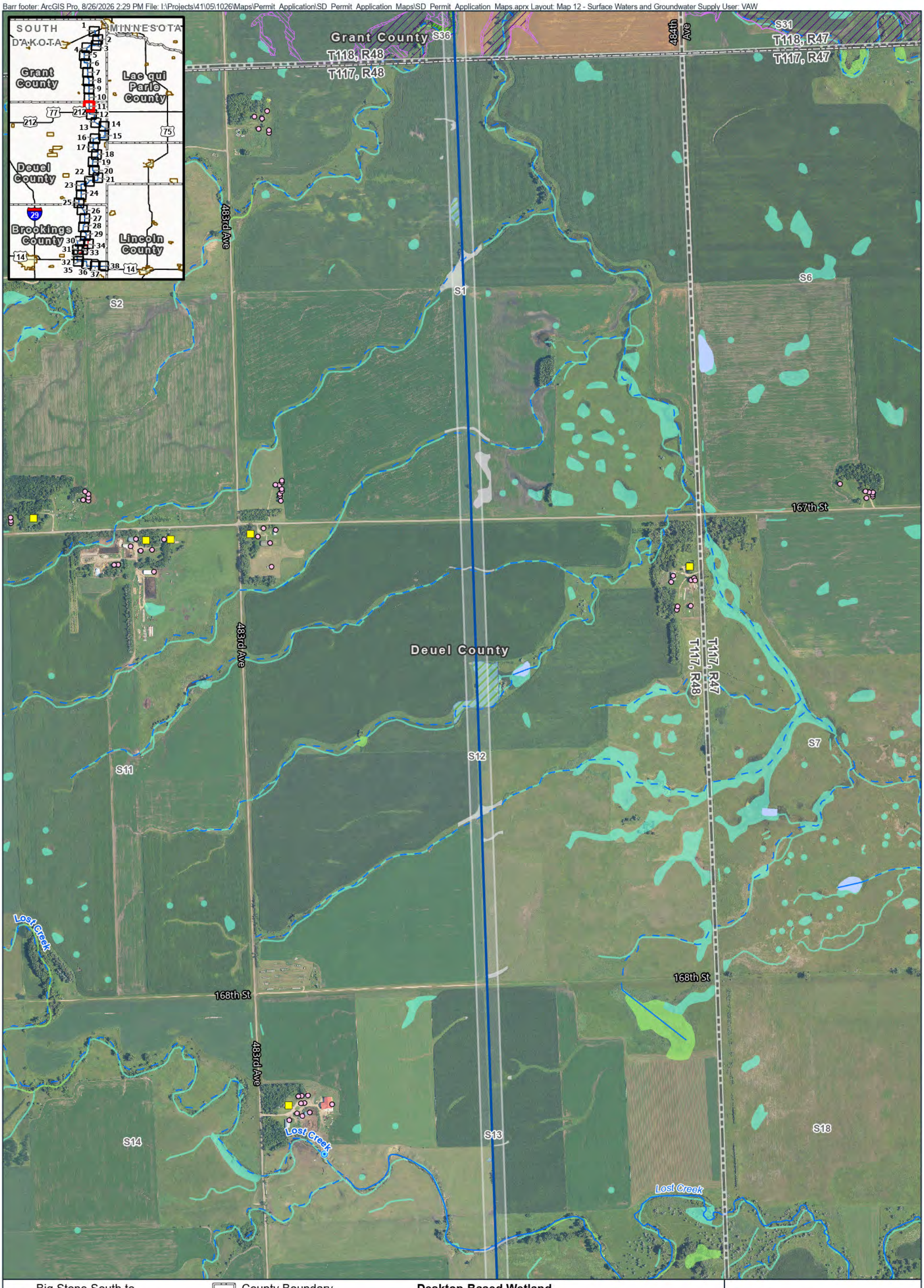
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-10

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township

County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

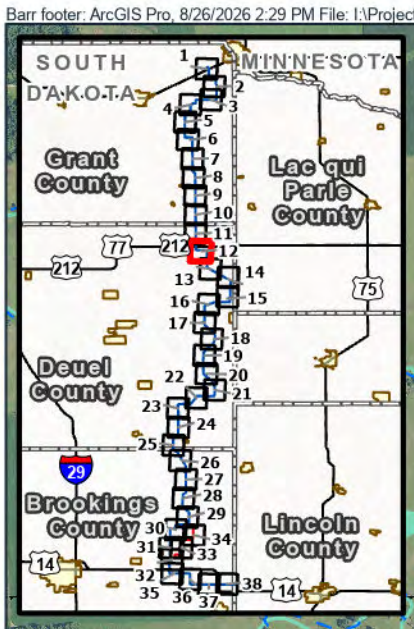
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-11

PowerOn Midwest
Big Stone South to Brookings



Lost Creek
S13
S18
485th Ave
212
S24
T117, R48
T117, R47
S19
Deuel County
Crow Timber Creek
S23
170th St
S25
S30
S26

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

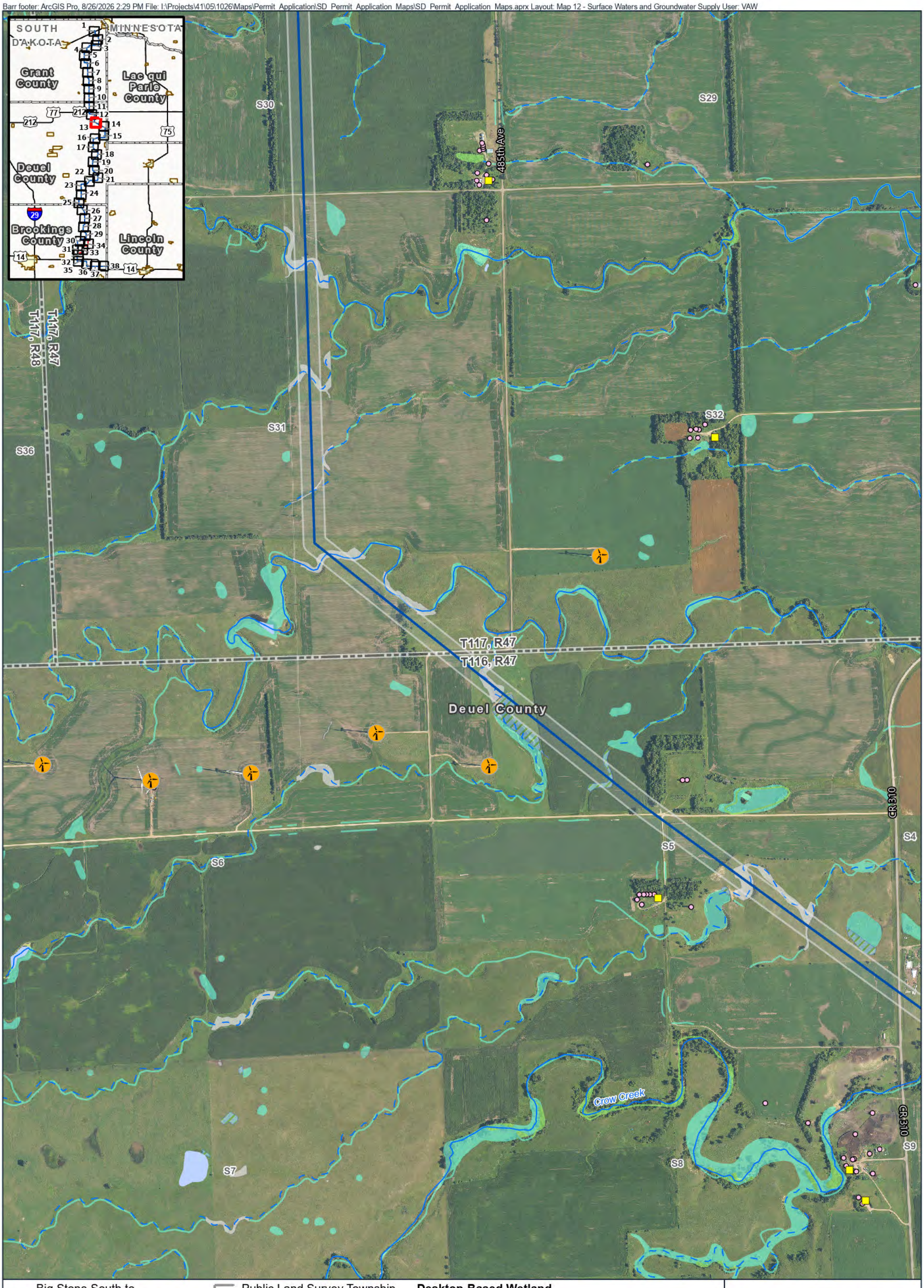
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0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-12

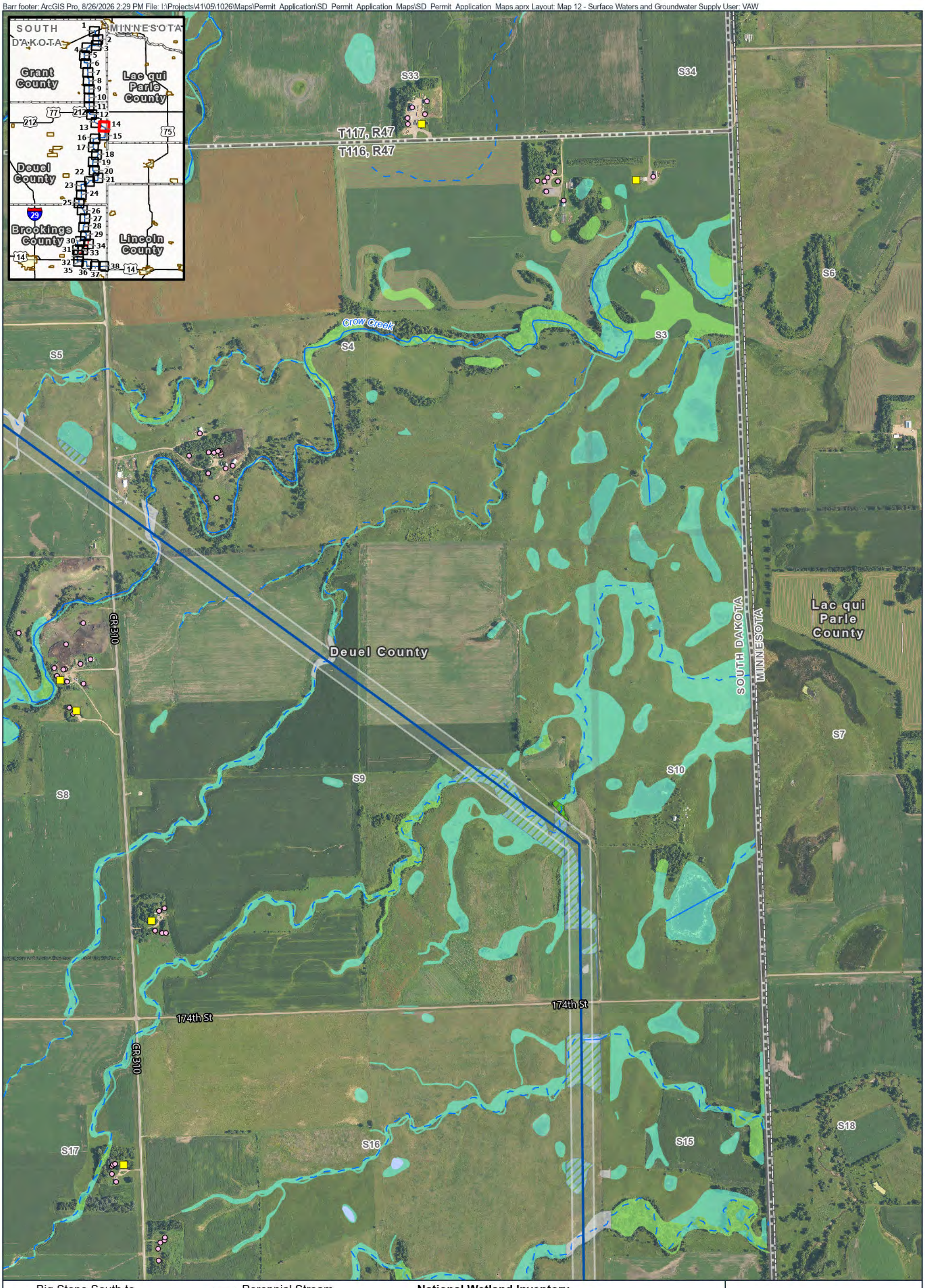
PowerOn Midwest
Big Stone South to Brookings



SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-13

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Public Land Survey Township
County Boundary

Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

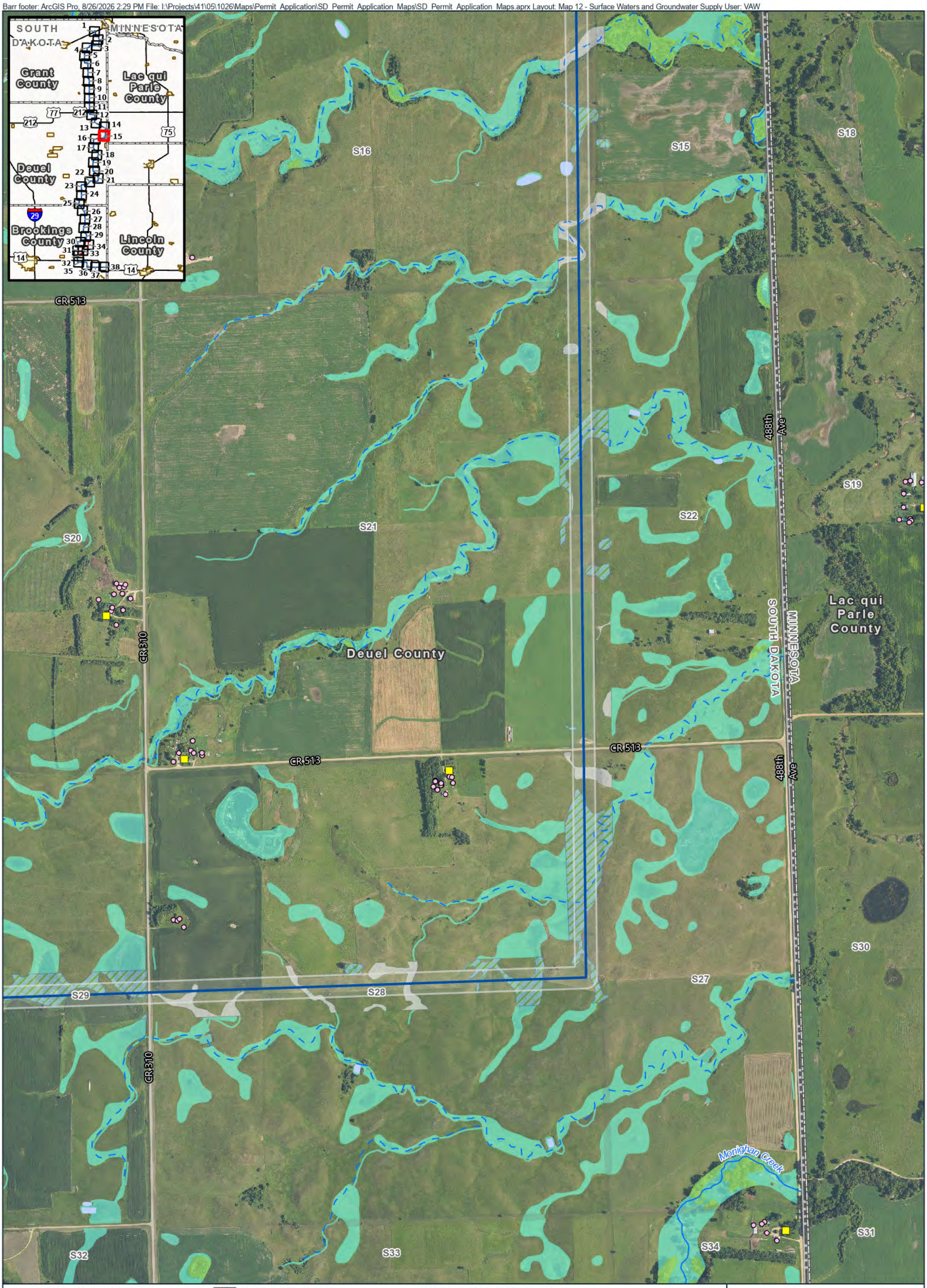
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-14

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Non-Residential Structure

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Desktop-Based Wetland Delineation

Non-Forested Wetland

Wetland classification pending

National Wetland Inventory

Forested Wetland

Non-Forested Wetland

N

0 500 1,000

Feet

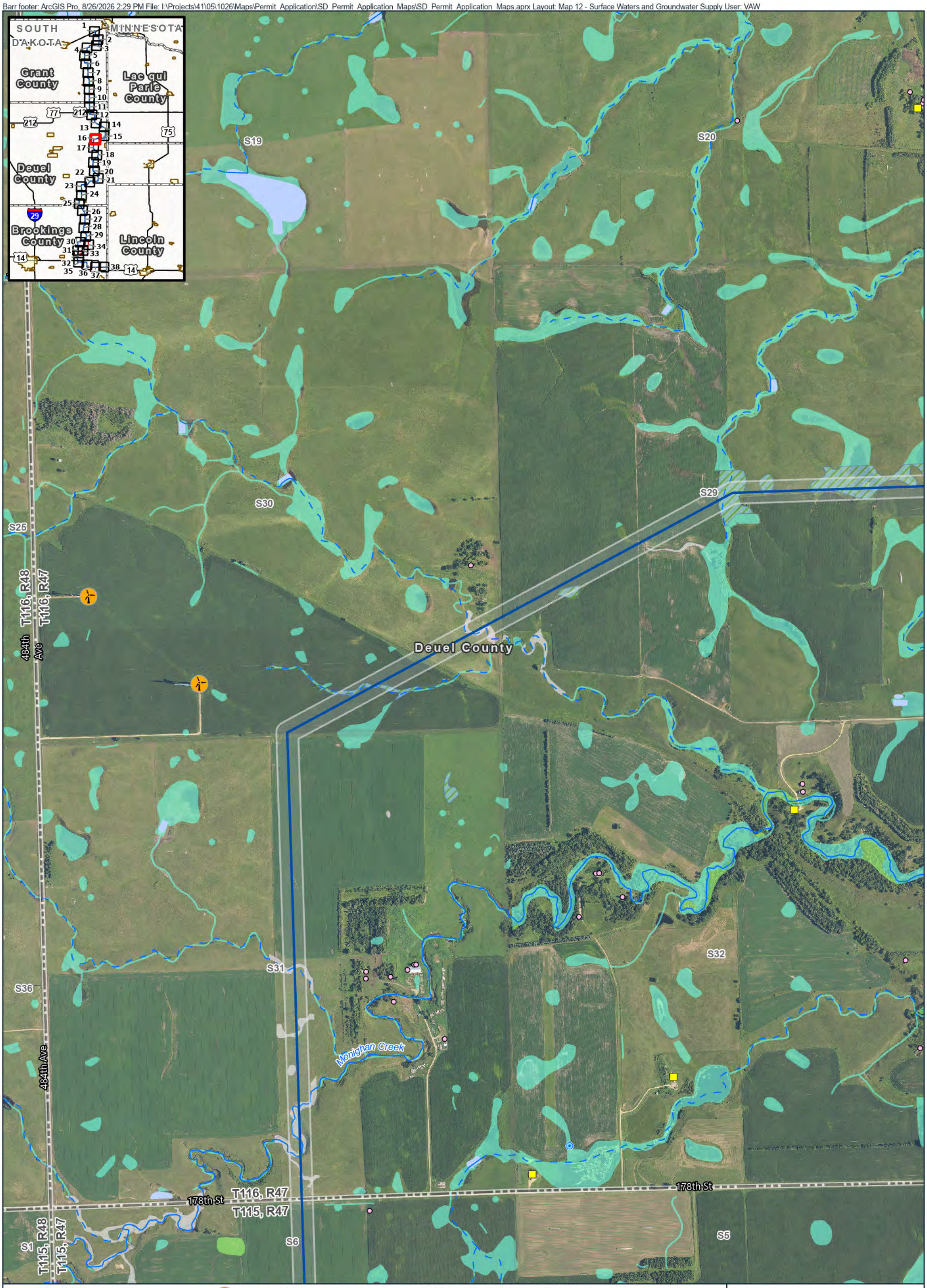
SURFACE WATERS AND GROUNDWATER SUPPLY

South Dakota

MAP 12-15

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

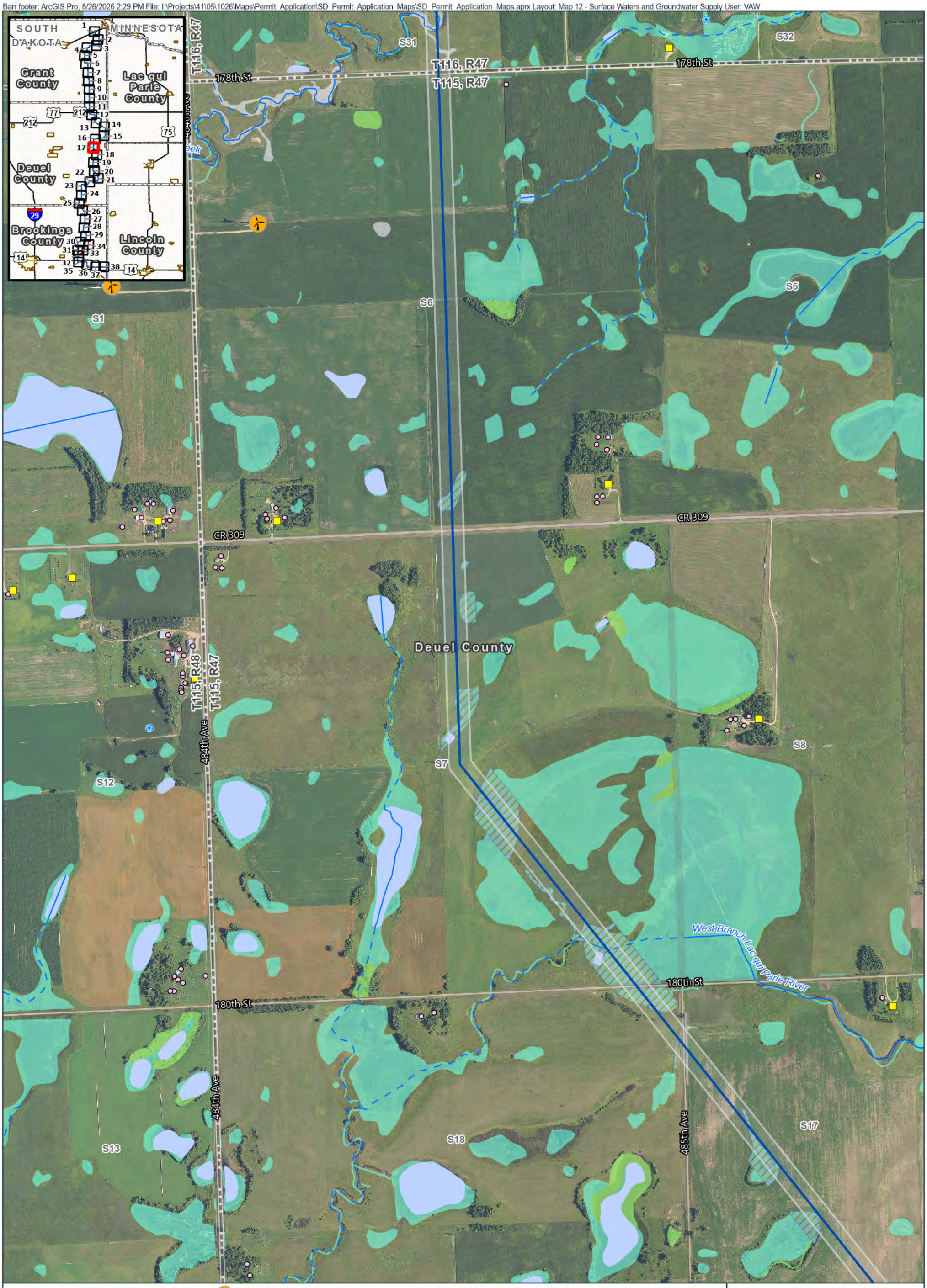
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-16

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

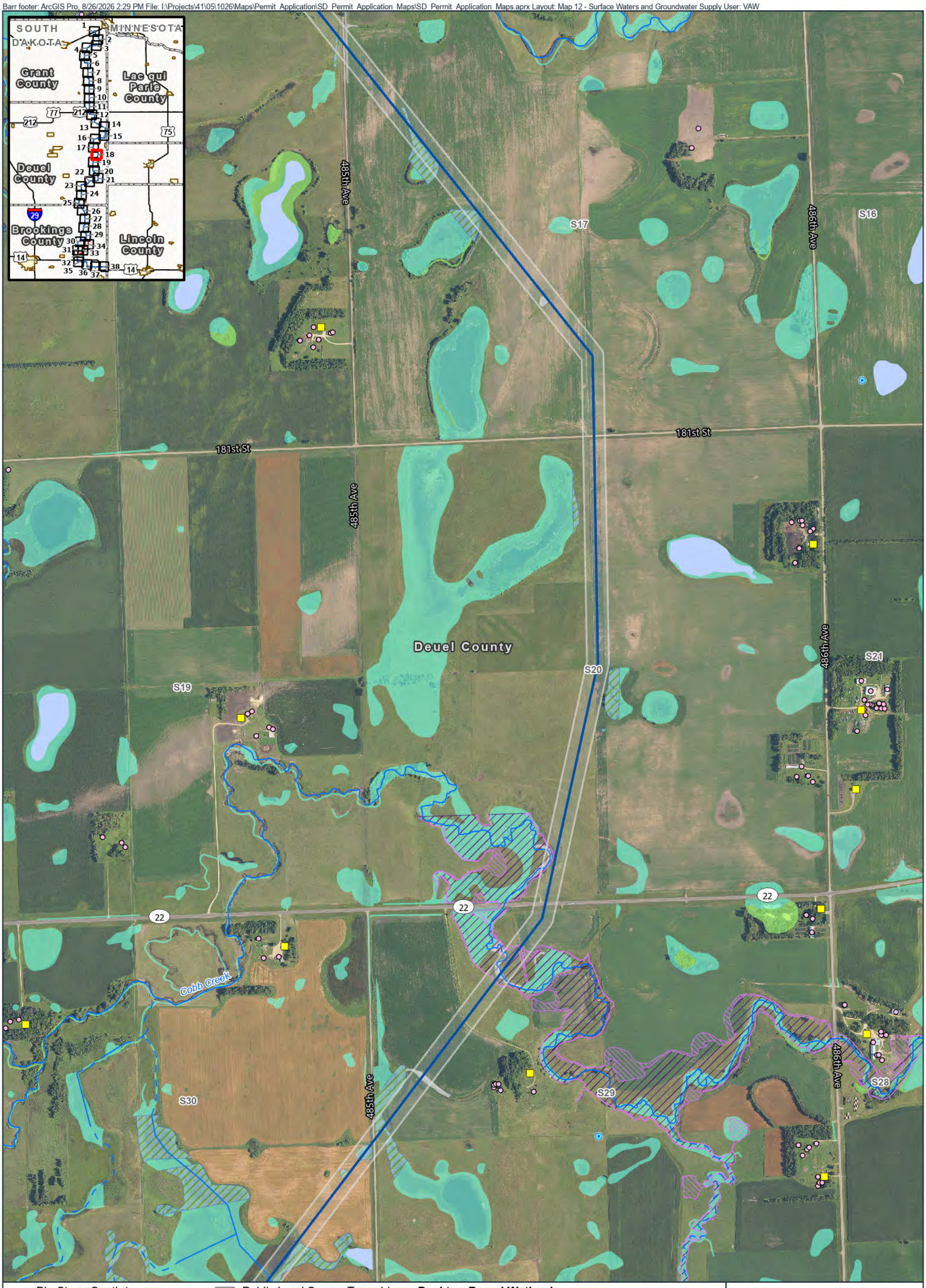
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-17

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well

Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

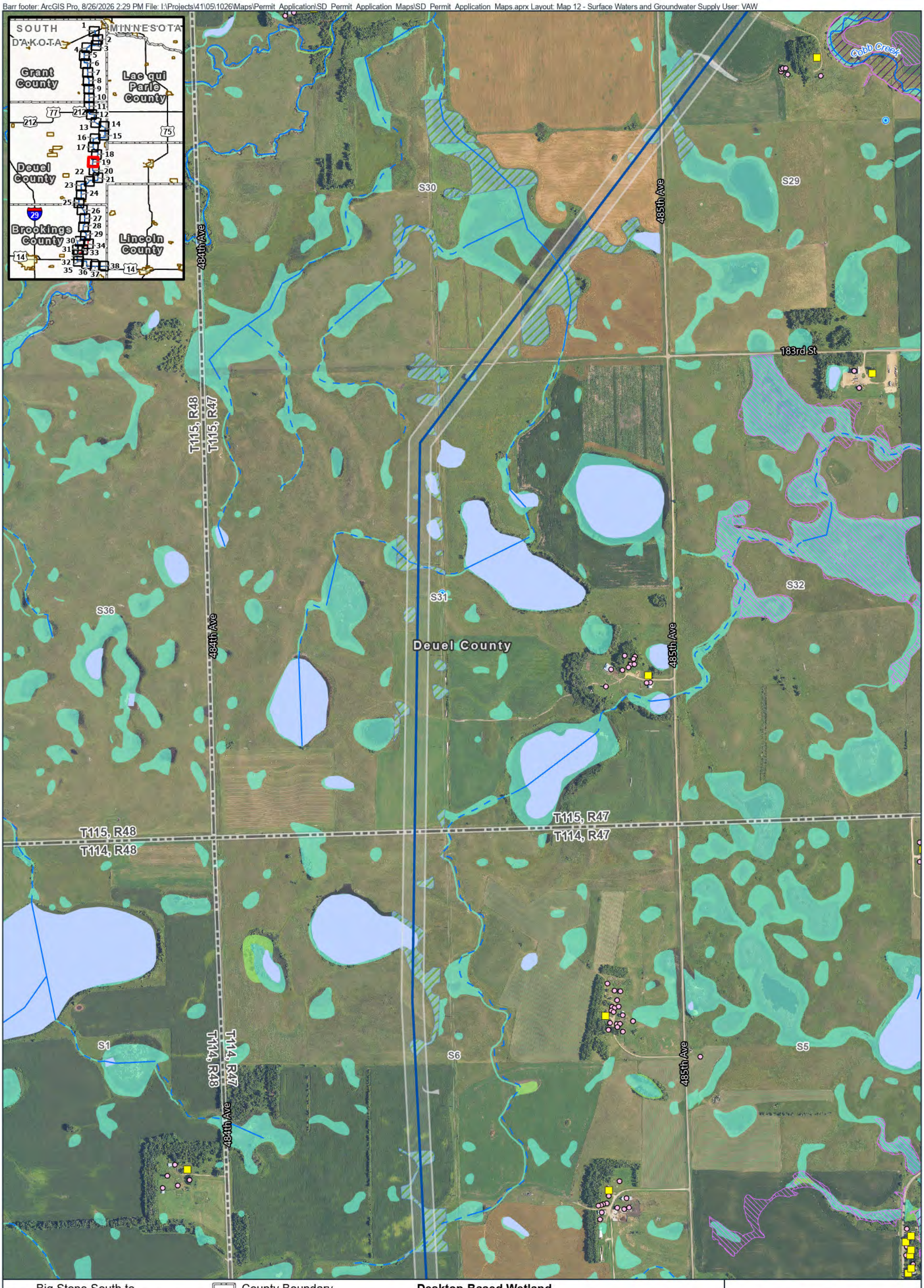
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-18

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township

County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Impaired Lake
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

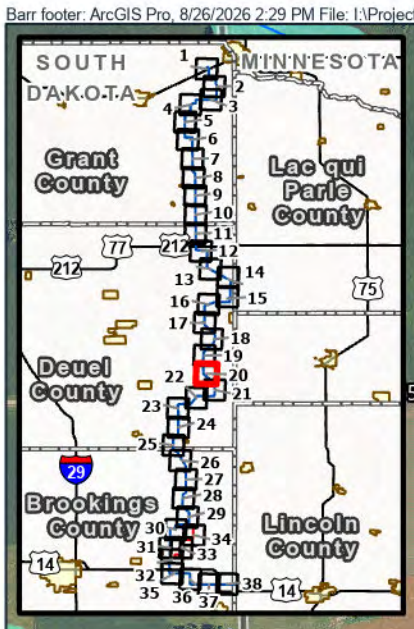
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-19

PowerOn Midwest
Big Stone South to Brookings



S6
S5
CR 375
485th Ave
CR 375
S7
S8
S12
T114, R48
T114, R47
484th Ave
186th St
Deuel County
186th St
485th Ave
S13
S18
S17
485th Ave
484th Ave
187th St
S24
S19
S20

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Public Land Survey Township
County Boundary

Perennial Stream
Intermittent Stream
Impaired Stream
Waterbody
Impaired Lake
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

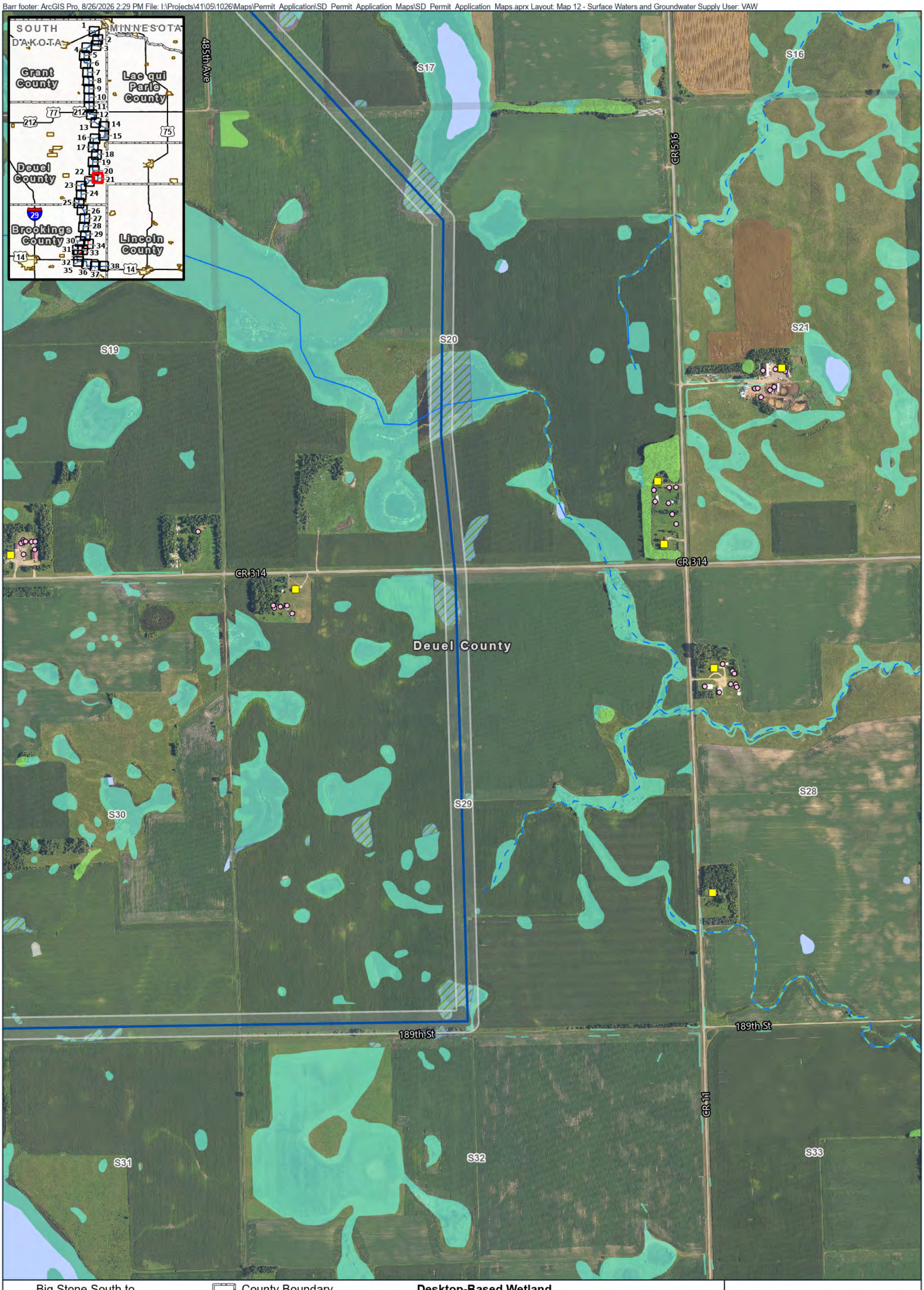
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0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-20

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

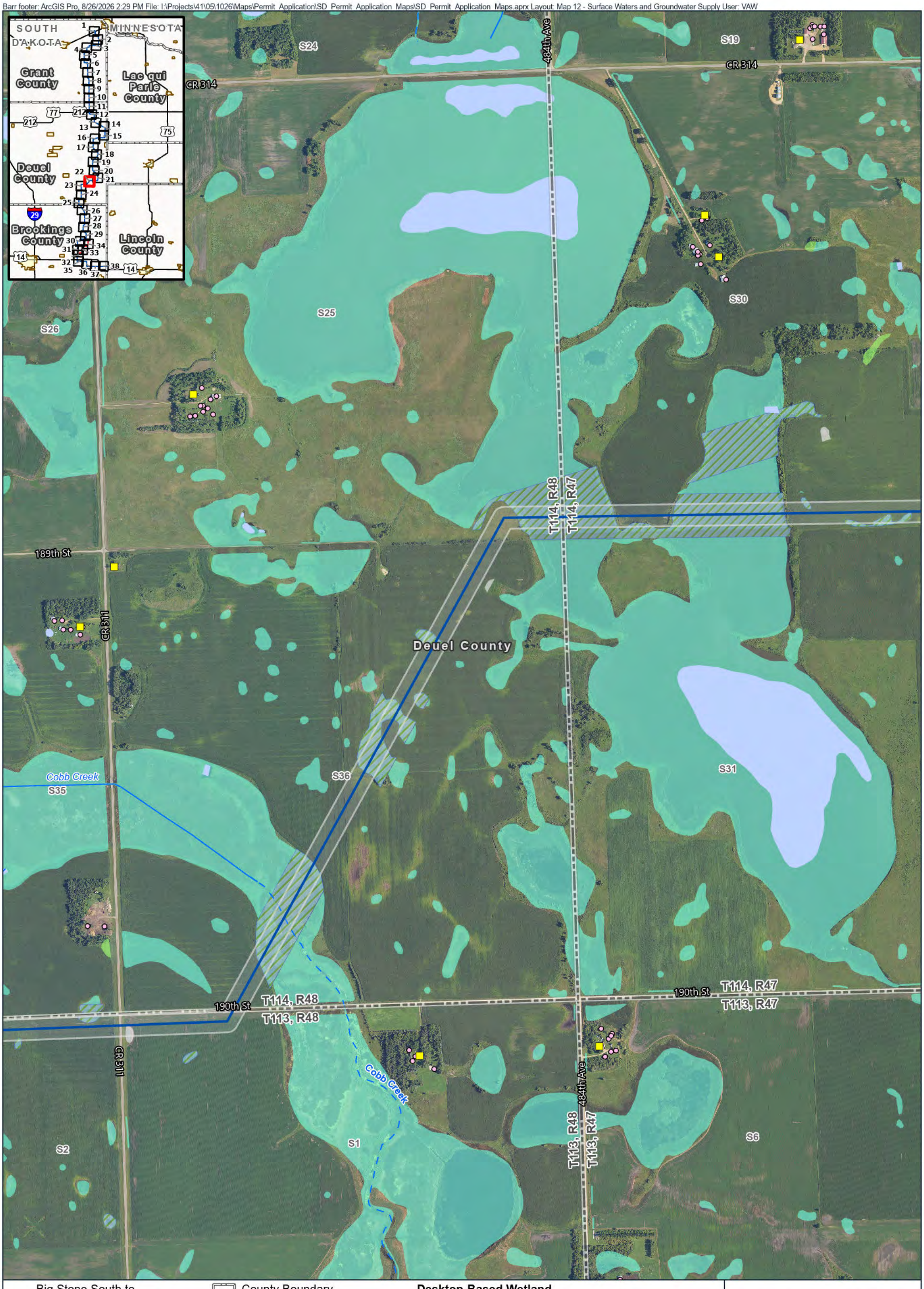
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-21

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

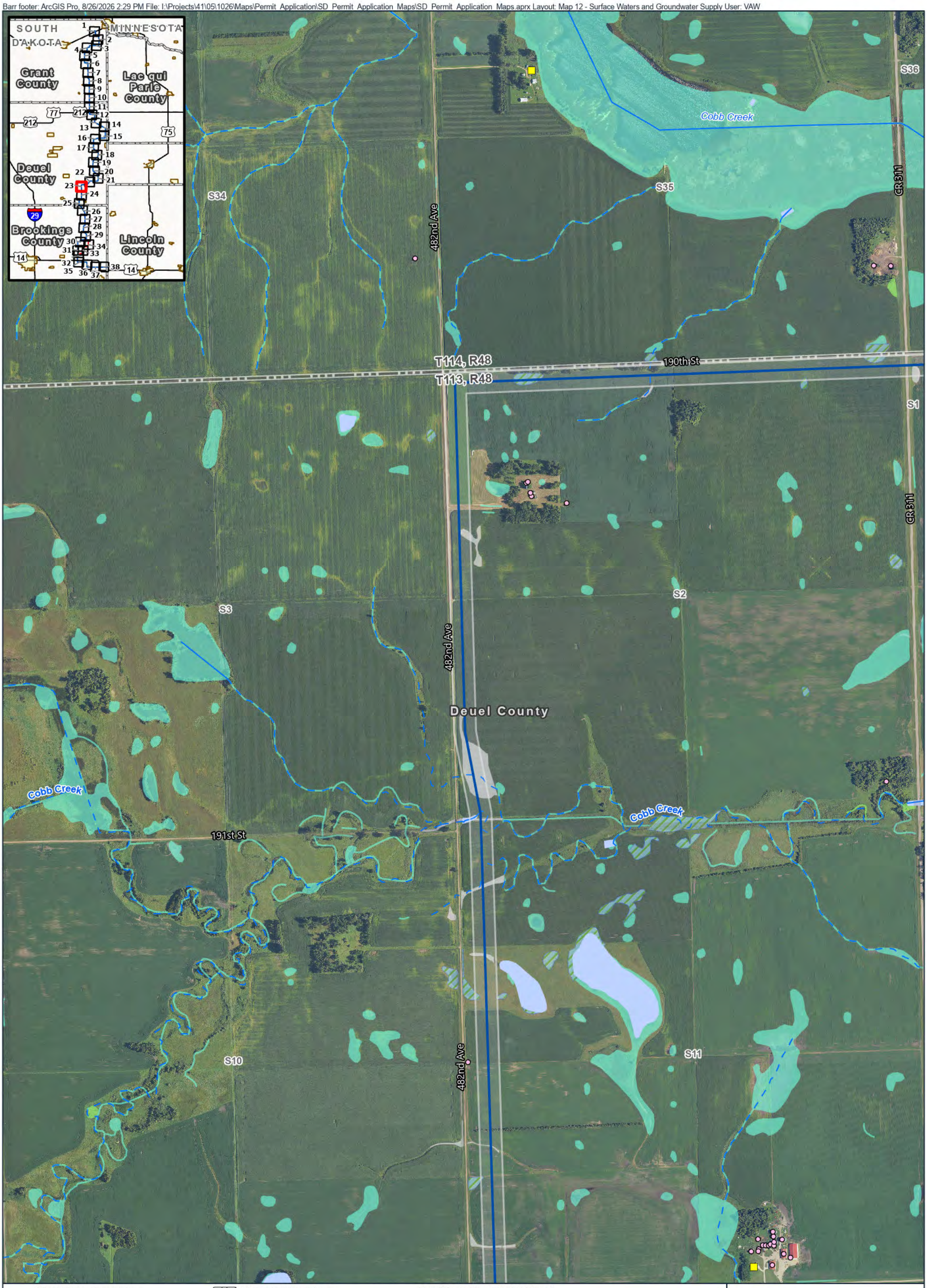
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-22

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

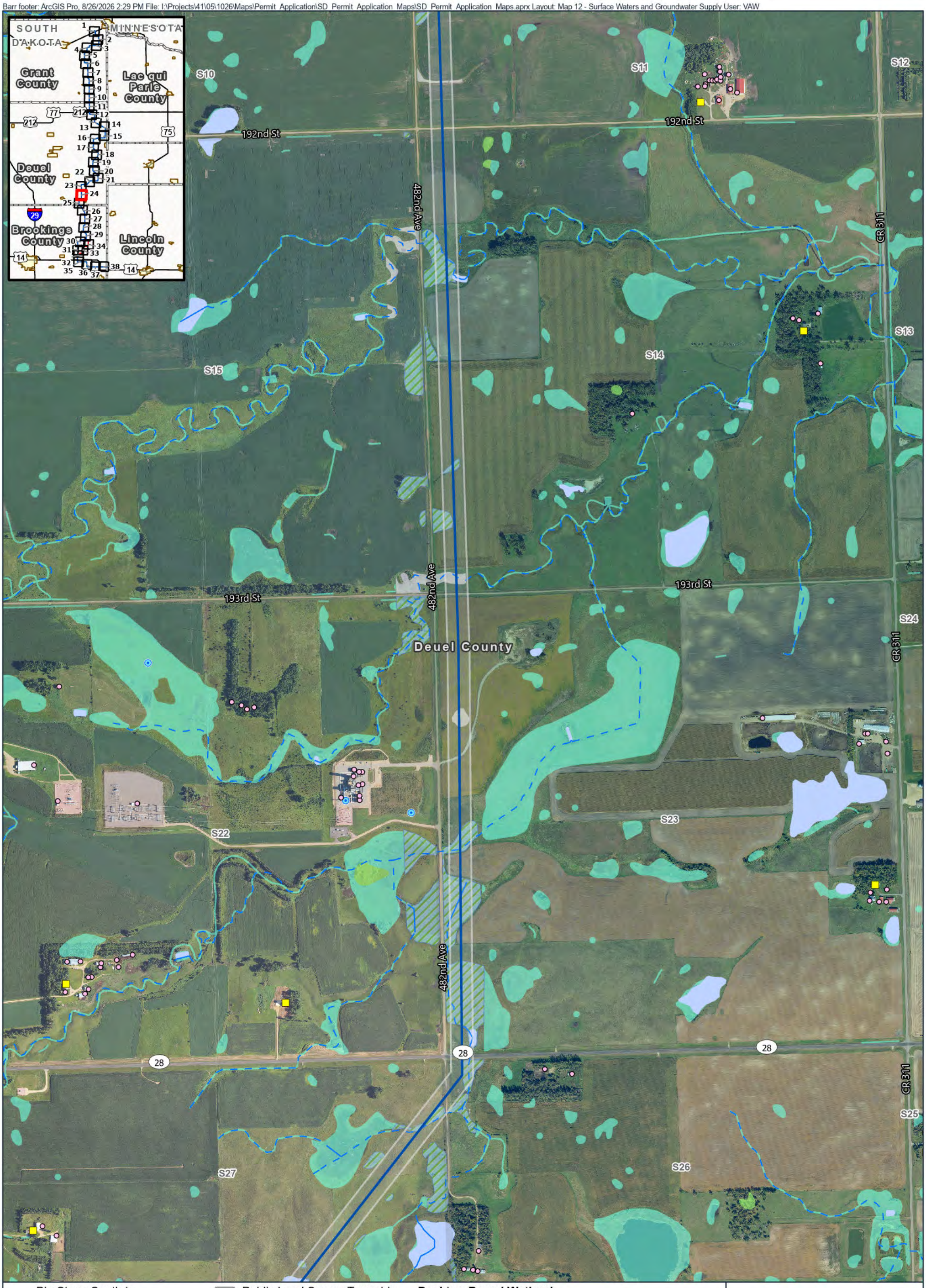
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-23

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

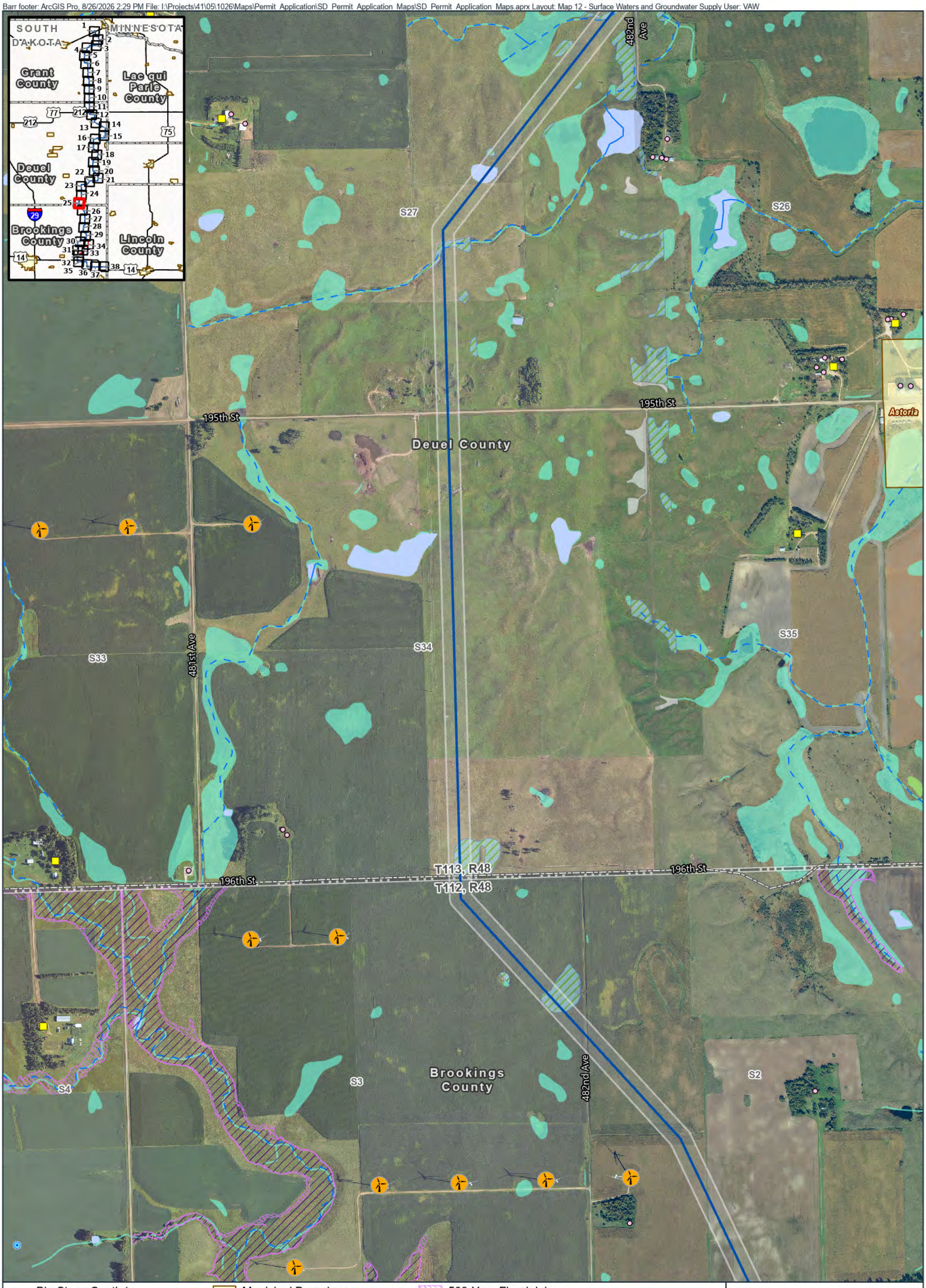
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-24

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Existing Wind Turbine
Municipal Boundary
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain
Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

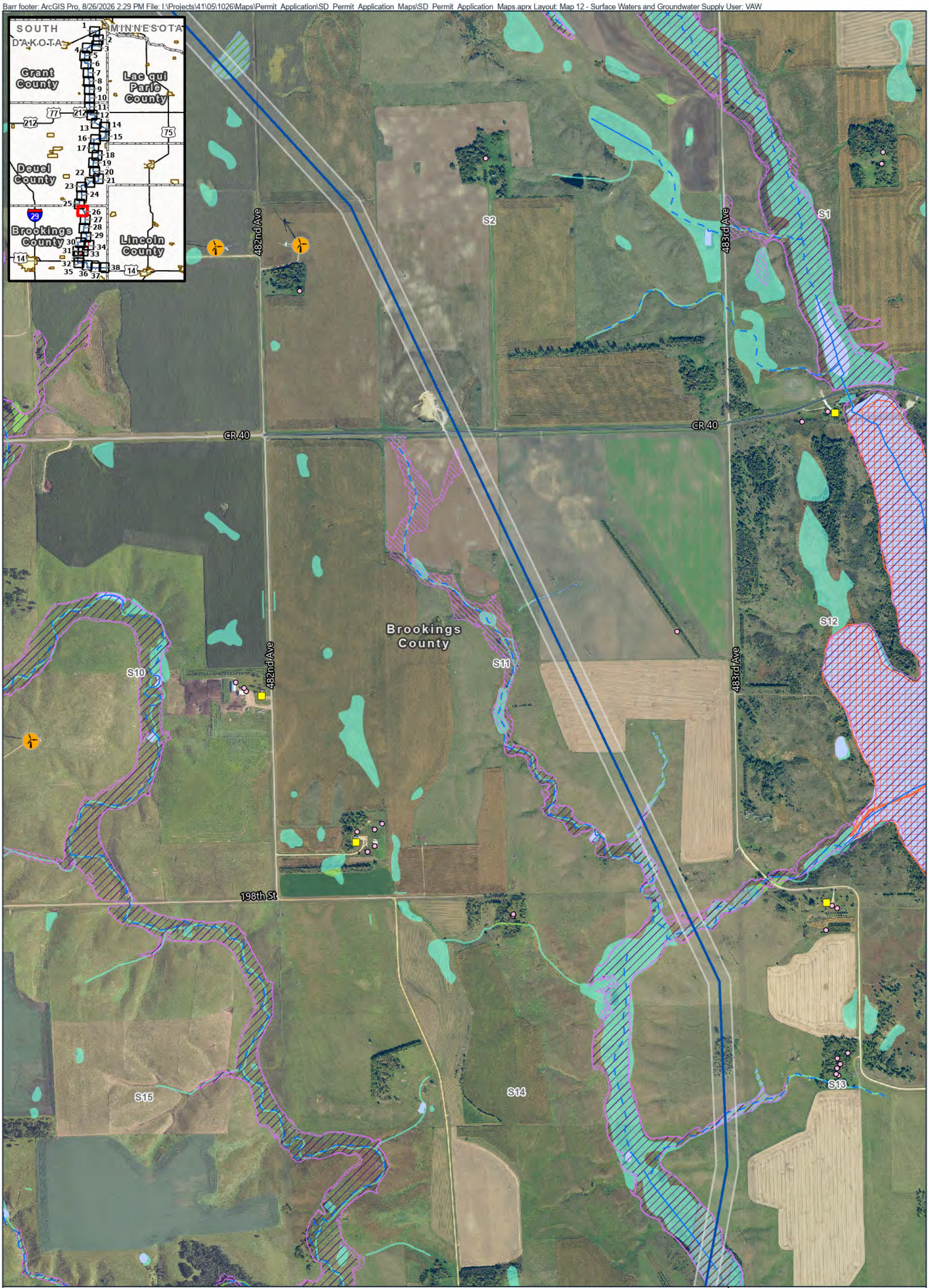
N

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-25

PowerOn Midwest
Big Stone South to Brookings



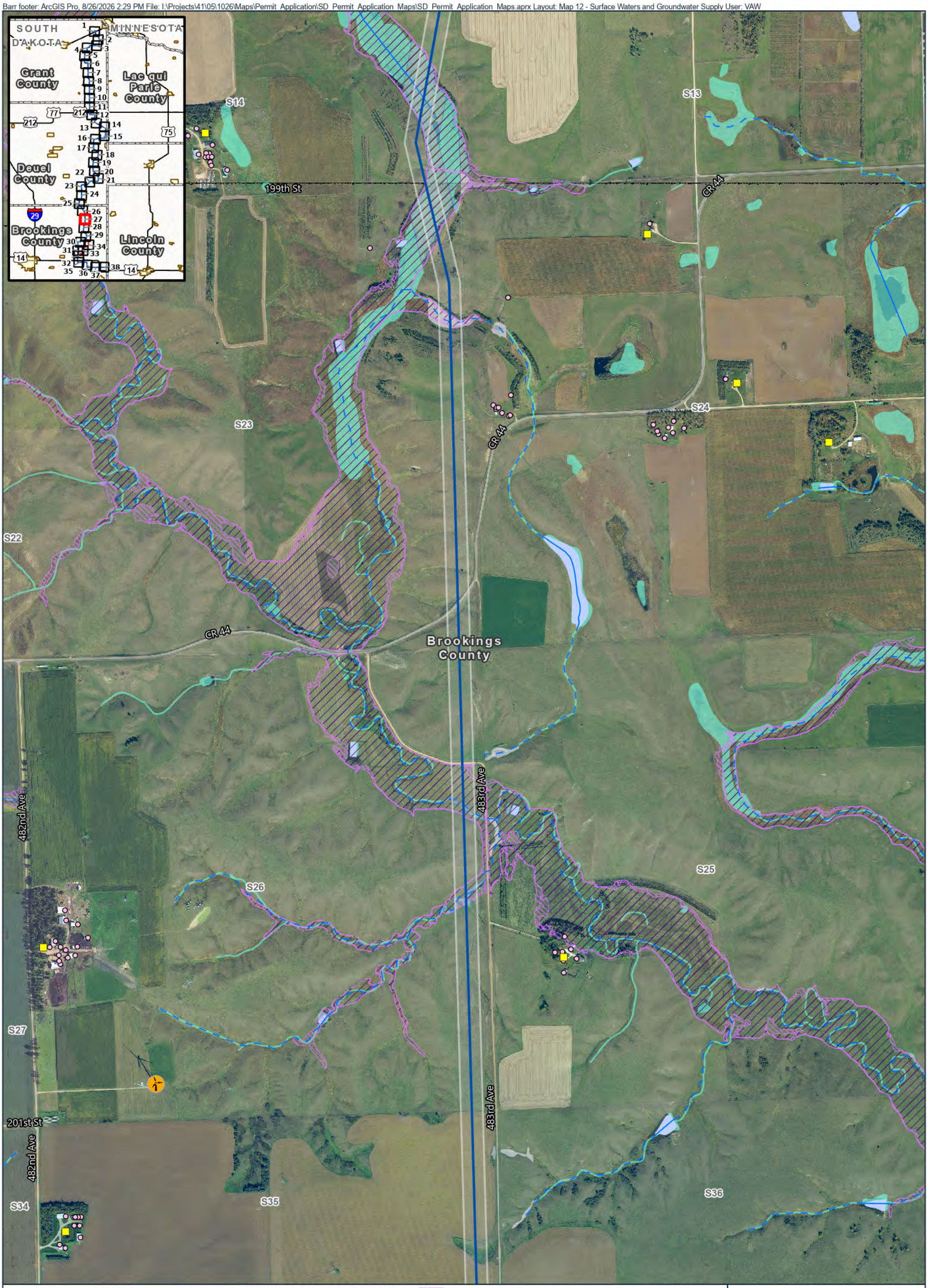
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Impaired Stream
Waterbody
Impaired Lake
100-Year Floodplain
500-Year Floodplain
Desktop-Based Wetland Delineation
Non-Forested Wetland
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-26

PowerOn Midwest
Big Stone South to Brookings



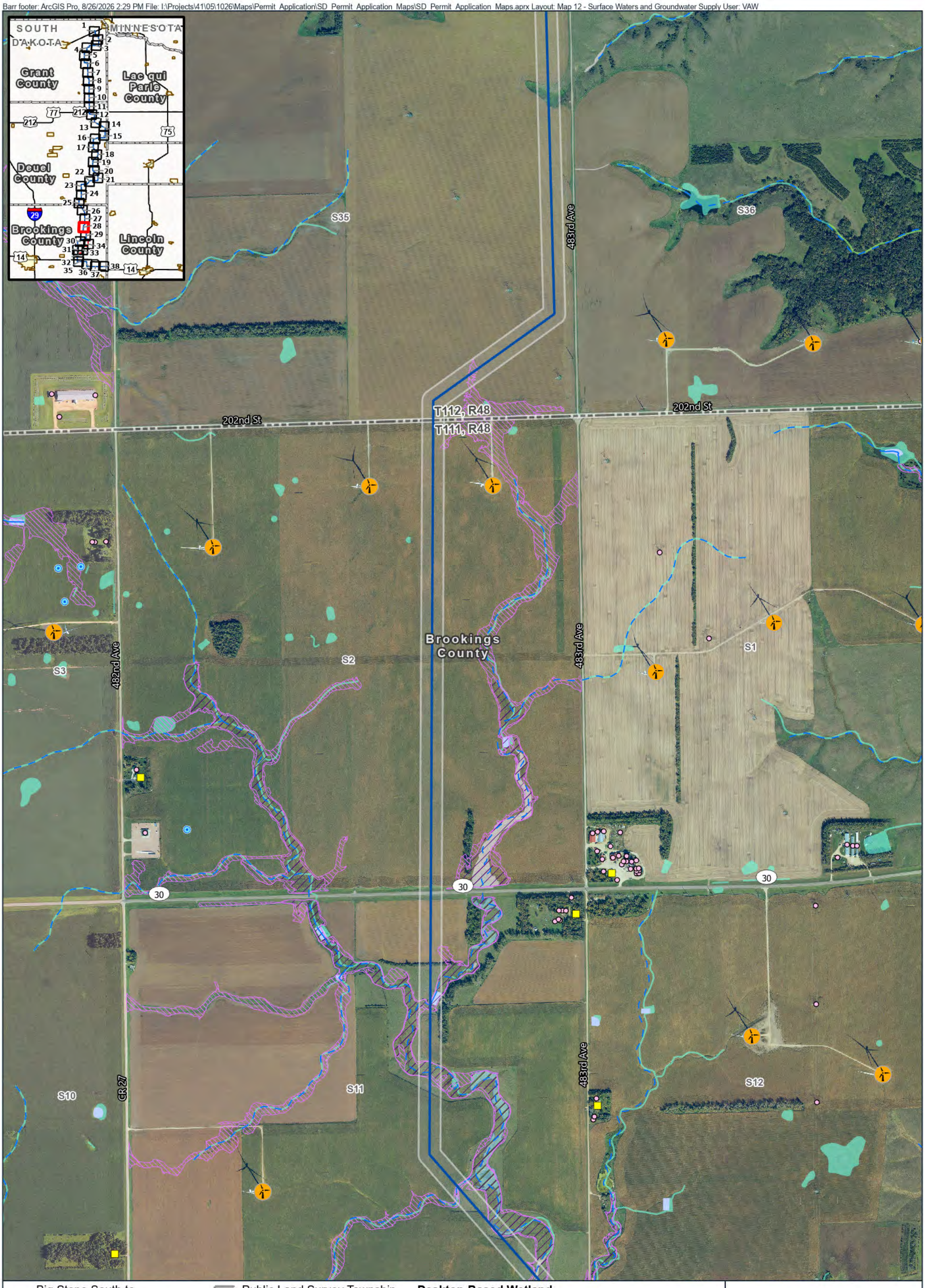
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain
Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending
National Wetland Inventory
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-27

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

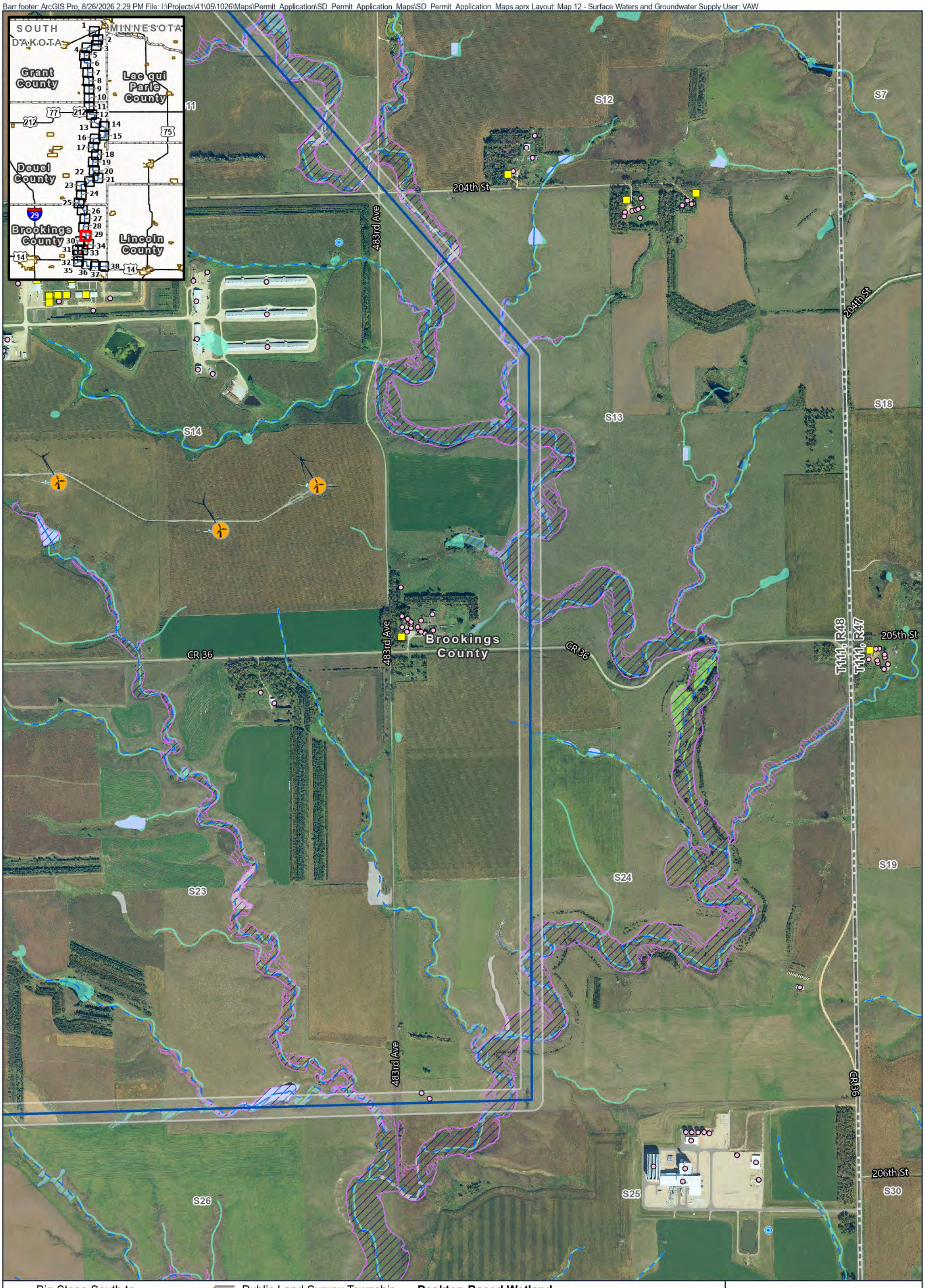
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-28

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Existing Wind Turbine
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

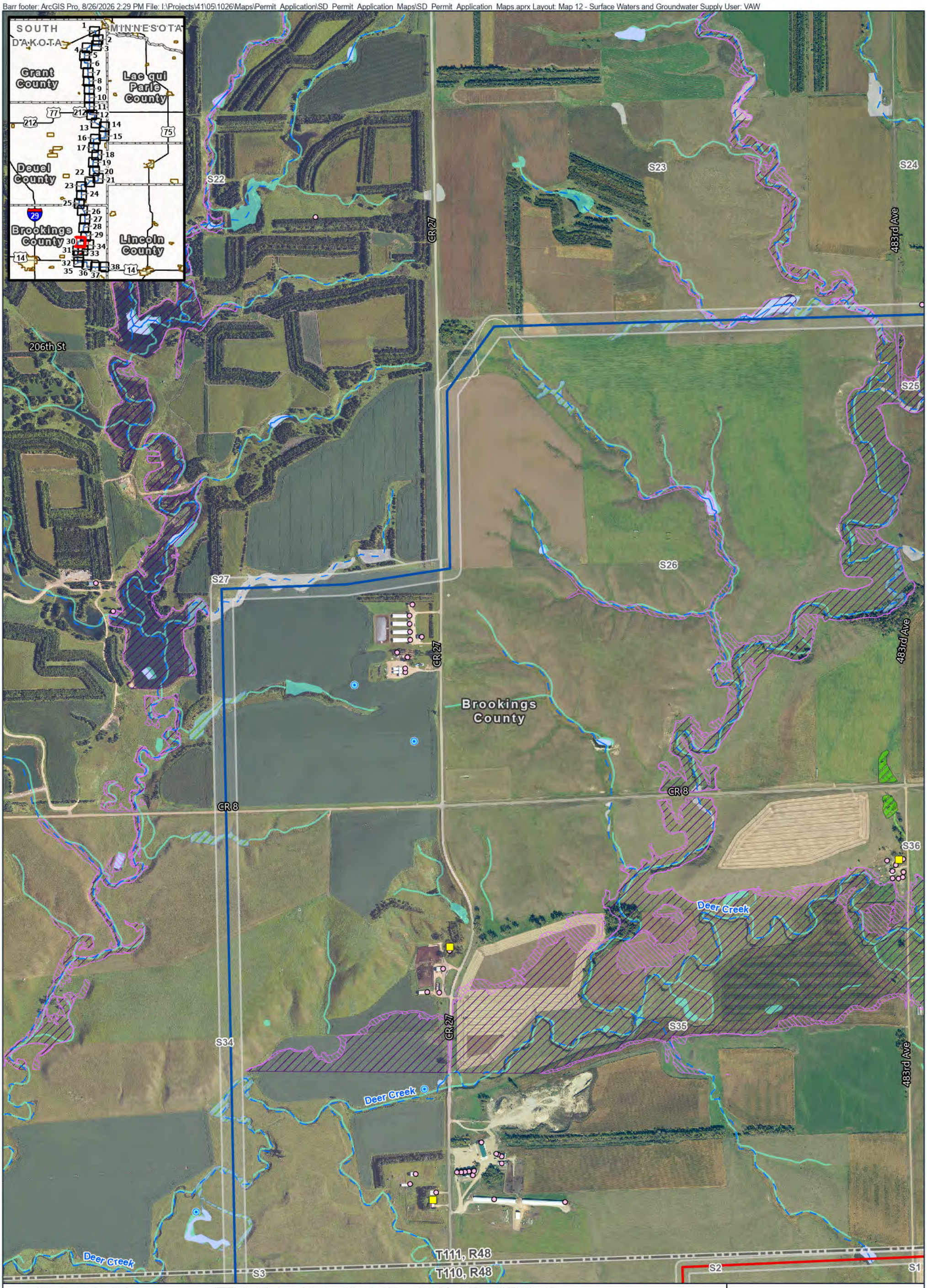
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-29

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Residence
Non-Residential Structure
Water Well

Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

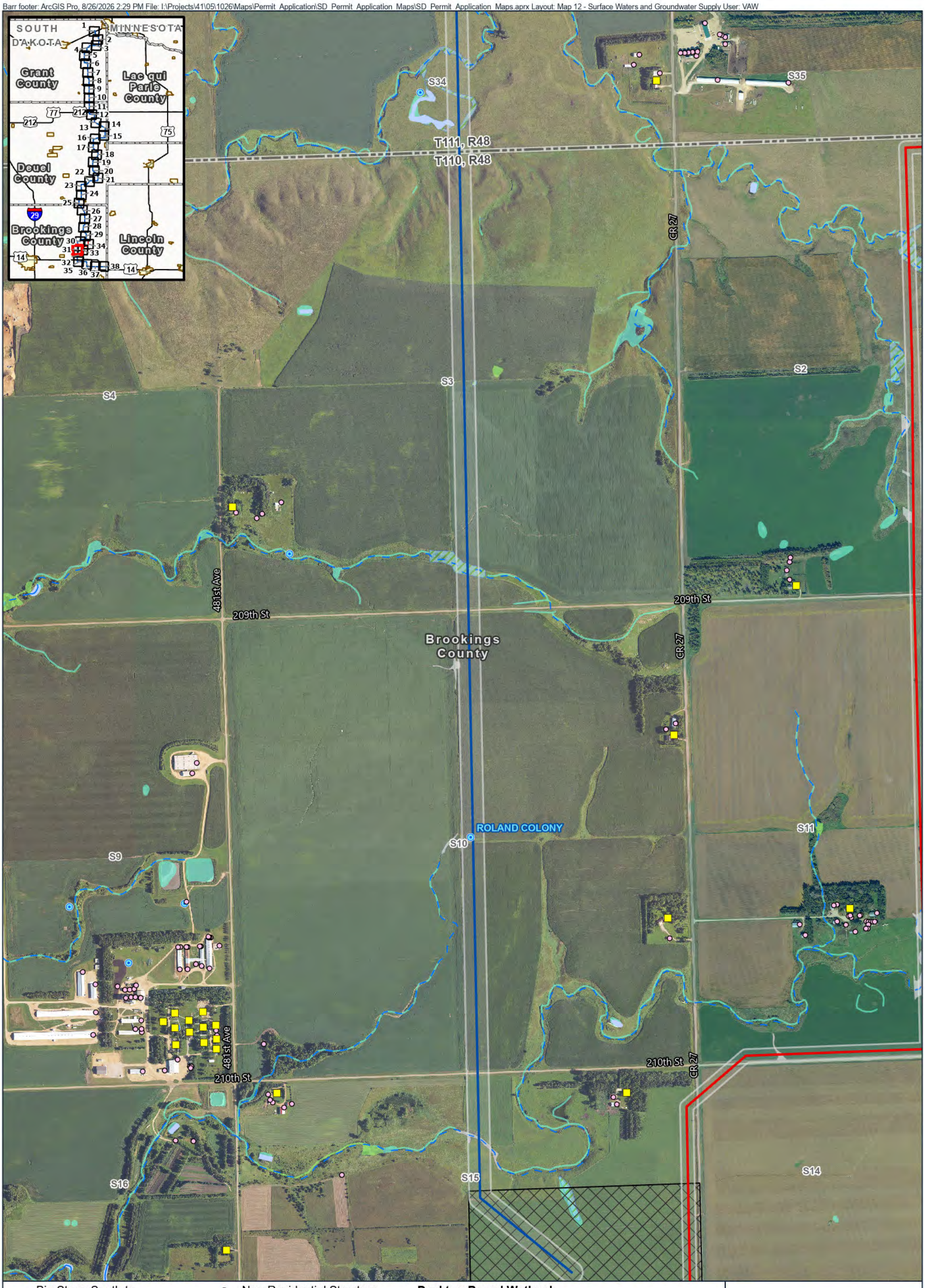
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-30

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

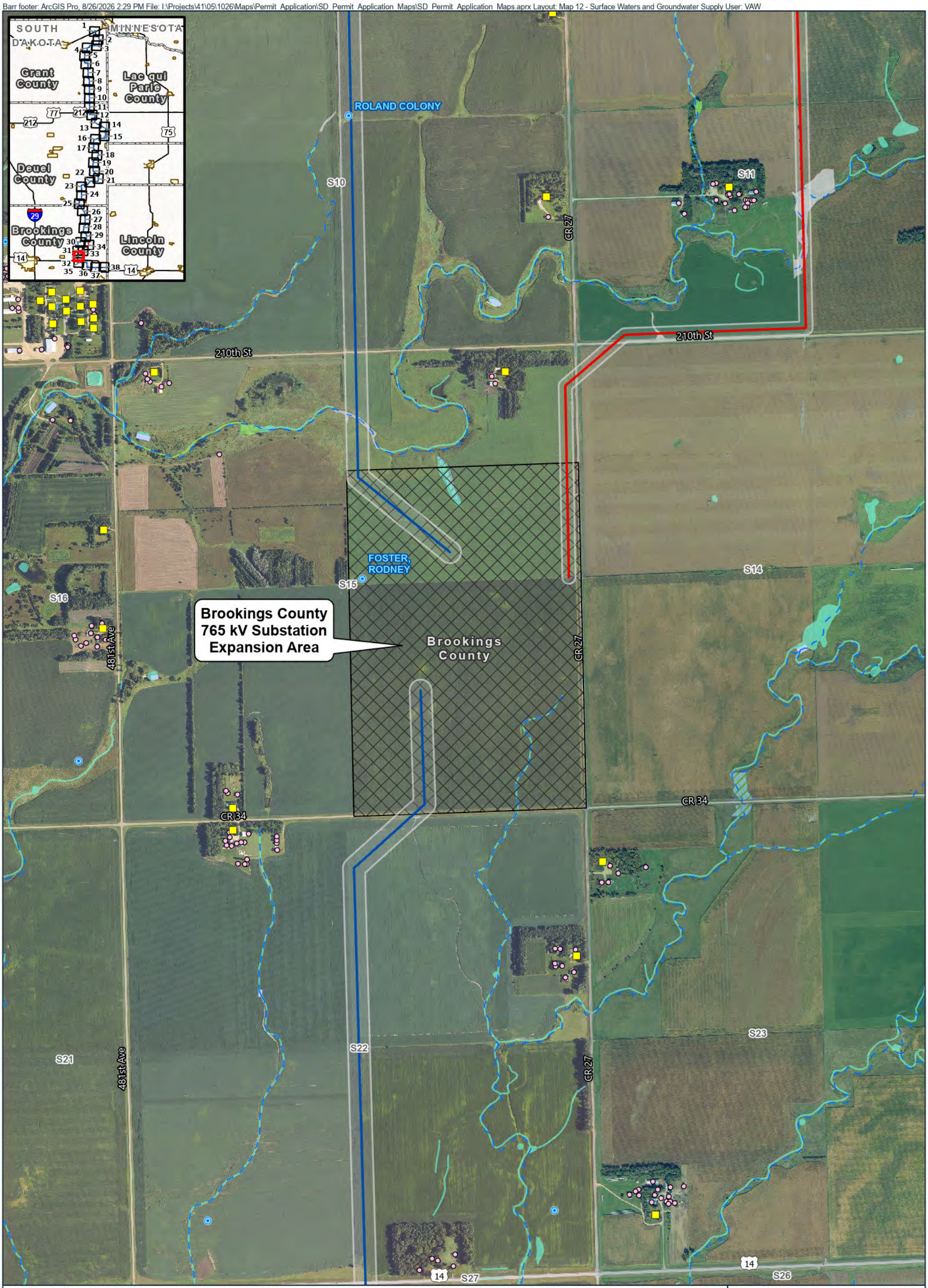
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-31

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-32

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

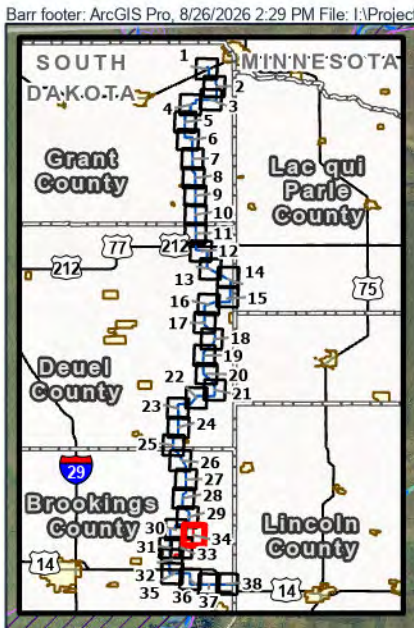
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

206th St

S25

S30

CR 36

CR 8

T111, R48

T111, R47

T110, R48

T110, R47

Deer Creek

Brookings County

483rd Ave

484th Ave

S35

S36

S31

S1

S2

S6

Existing Substation
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
100-Year Floodplain
500-Year Floodplain

Desktop-Based Wetland Delineation

Forested Wetland
Non-Forested Wetland
Wetland classification pending

National Wetland Inventory

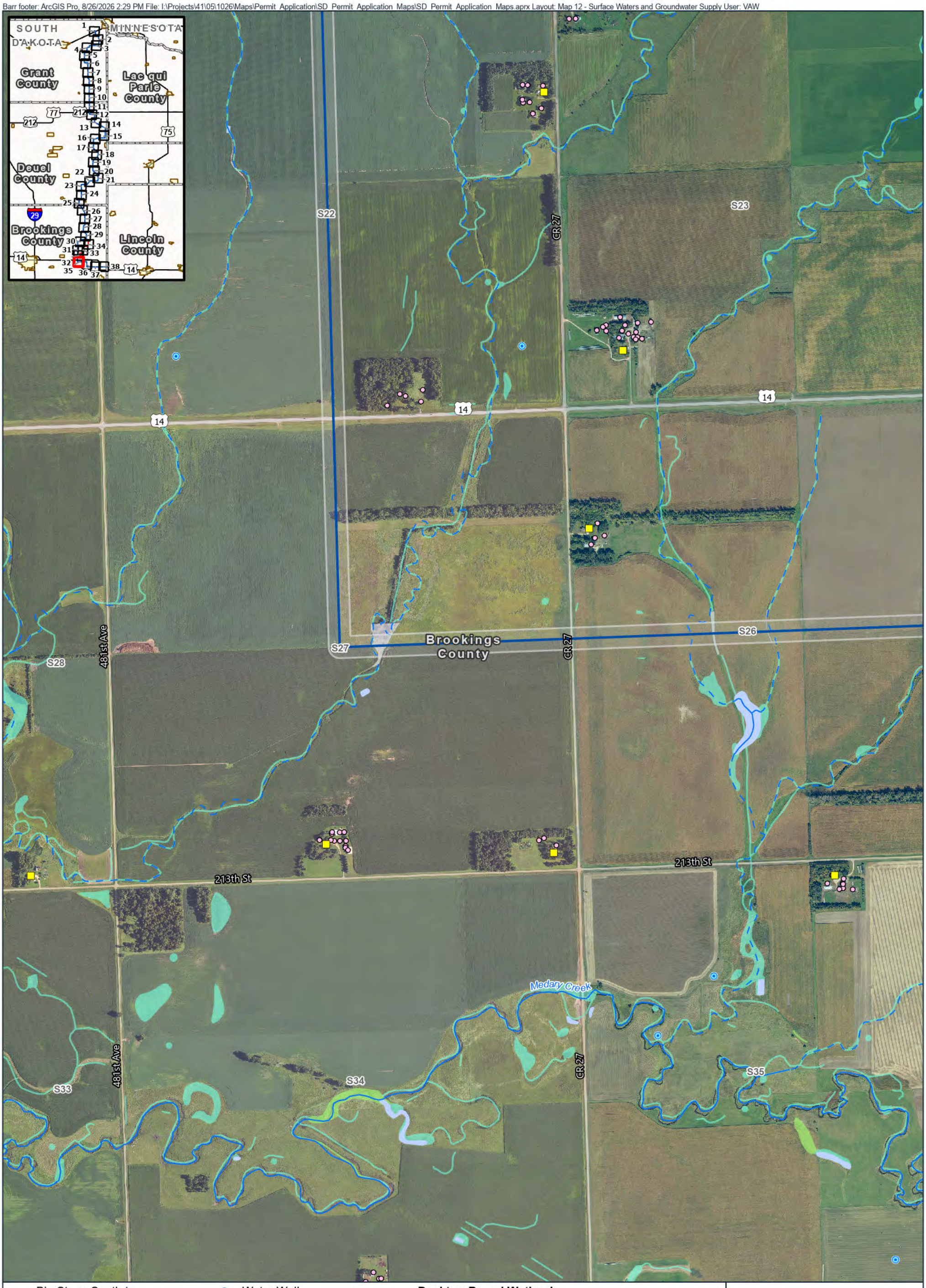
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-34

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Wetland classification pending

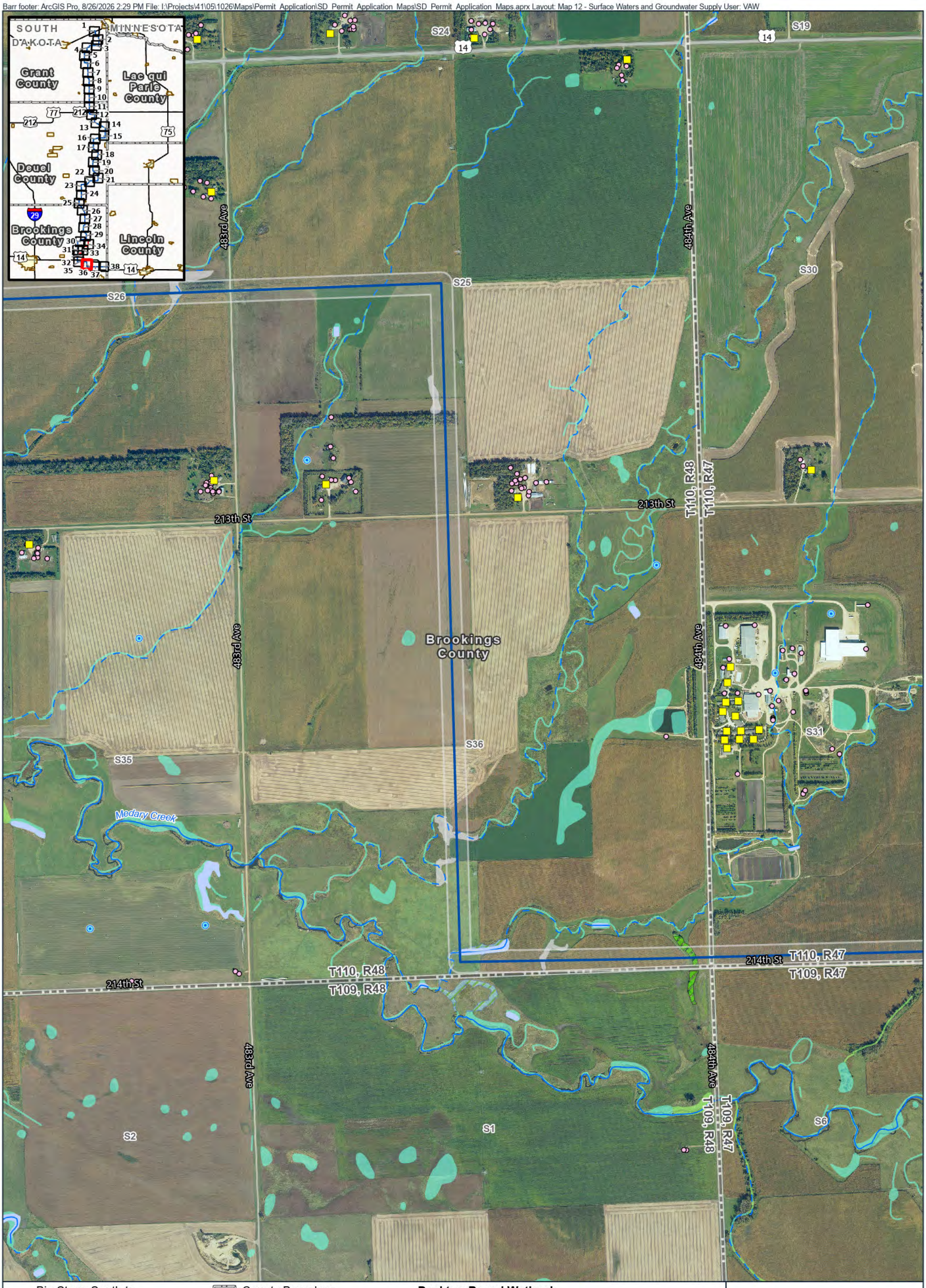
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-35

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Forested Wetland
Non-Forested Wetland
Wetland classification pending

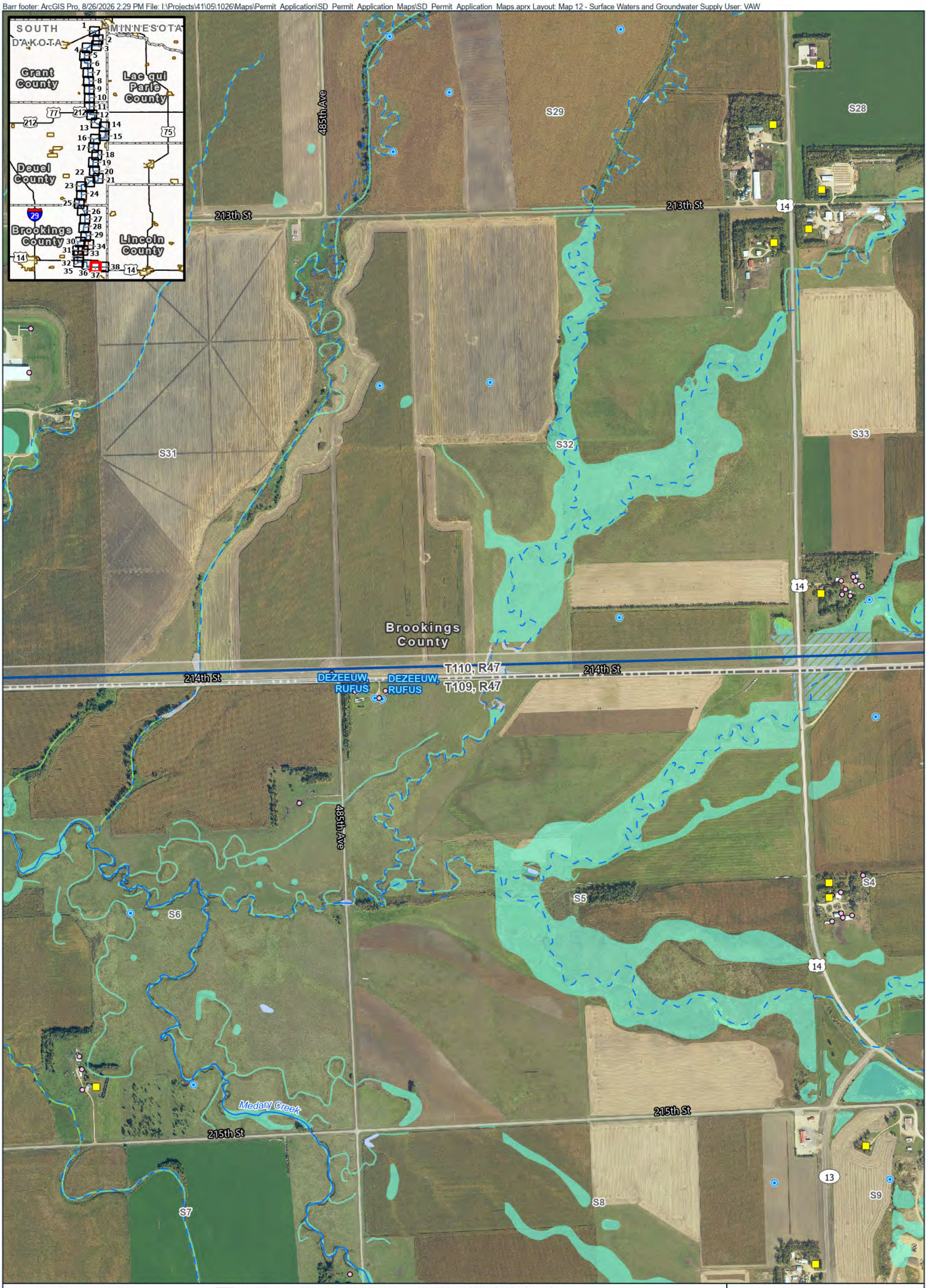
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-36

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Residence
Non-Residential Structure
Water Well
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody

Desktop-Based Wetland Delineation
Non-Forested Wetland
Wetland classification pending

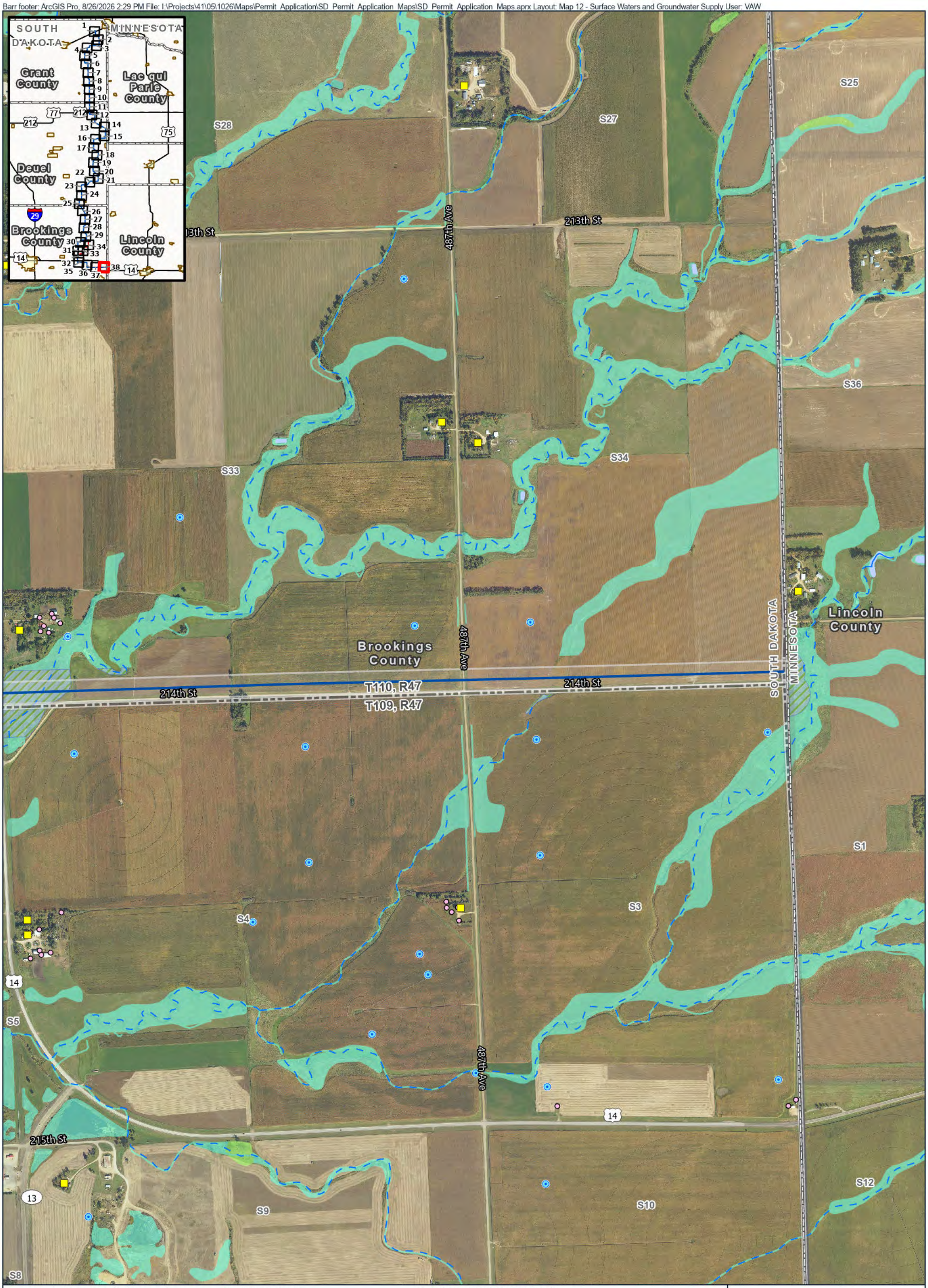
National Wetland Inventory
Forested Wetland
Non-Forested Wetland

0 500 1,000
Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-37

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Residence

Non-Residential Structure

Water Well

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Desktop-Based Wetland Delineation

Non-Forested Wetland

National Wetland Inventory

Forested Wetland

Non-Forested Wetland

N

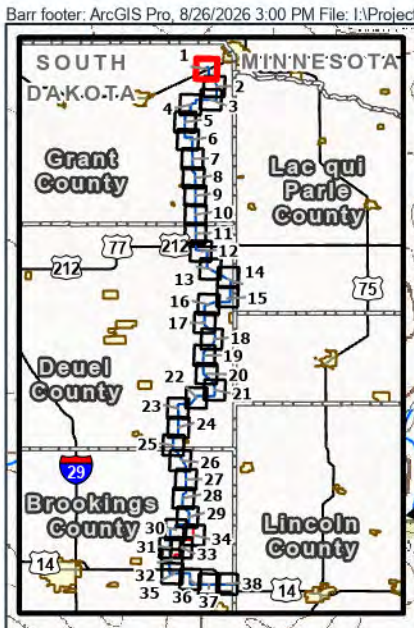
0 500 1,000

Feet

SURFACE WATERS AND GROUNDWATER SUPPLY
South Dakota

MAP 12-38

PowerOn Midwest
Big Stone South to Brookings



Whetstone River
484th Ave
CR 4
13
S13
S18
Gaging Sta
Gravel Pit
1050
1070
1056
1058
1062
1080
1090
BIG STONE SOUTH SUBSTATION
Big Stone South 765 kV Substation Expansion Area
S24
Grant County
24
23
S23
S19
12
Upper Minnesota Watershed
Roadside Park
146th St
T121, R47
T121, R46
485th Ave
S26
S25
25
26
S30

- Existing Substation
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Substation Expansion Area
- Public Land Survey Township
- County Boundary
- Perennial Stream
- Intermittent Stream
- Waterbody
- Watershed Sub-basins

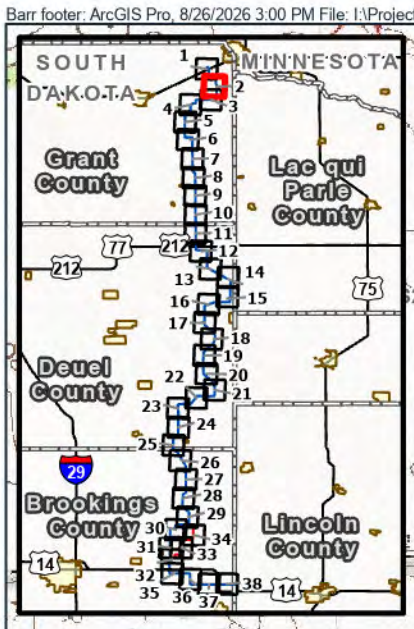
N

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-1

PowerOn Midwest
Big Stone South to Brookings



Upper Minnesota Watershed

Grant County

147th St
148th St
149th St
485th Ave
486th Ave
CR 10
CR 39
T121, R47
T120, R47
T121, R46
T120, R47
S29
S30
S31
S32
S36
S6
S5
S4
S7
S8
S9

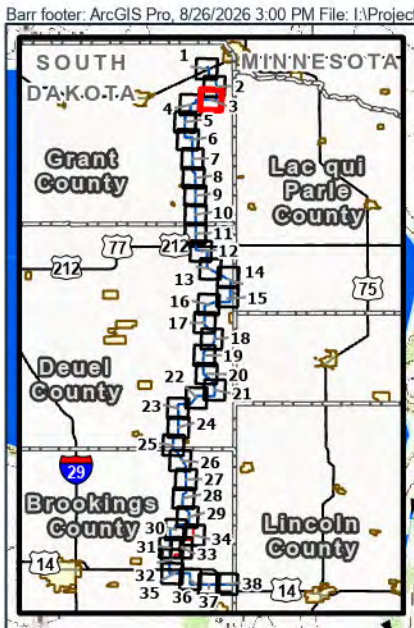
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-2

PowerOn Midwest
Big Stone South to Brookings



S6
S5
BM 1096
149th St
CR 10
Grant County
7
Upper Minnesota Watershed
8
S8
S7
T120, R48
T120, R47
CR 39
S12
Quarries
Gravel Pit
150th St
S13
484th Ave
S18
18
S17
North Fork Yellow Bank River

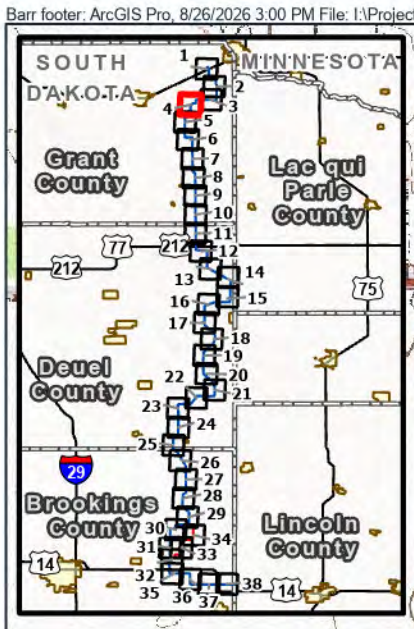
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-3

PowerOn Midwest
Big Stone South to Brookings



Upper Minnesota Watershed

Grant County

149th St
150th St
151st St
483rd Ave
484th Ave
T120, R48
T120, R47
S1
S2
S6
S7
S11
S12
S13
S14
S23
S24
1080
1090
1100
1120
1130
1140
1070
1084
1089
1096
Gravel Pits
Quarries
Bethlehem Ch

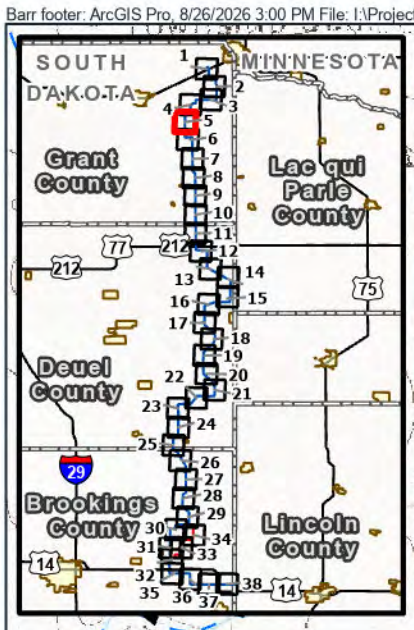
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-4

PowerOn Midwest
Big Stone South to Brookings



Upper Minnesota Watershed

Grant County

North Fork Yellow Bank River

CR 35

CR 14

483rd Ave

152nd St

S23

S24

S25

S26

S27

S34

S35

S36

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

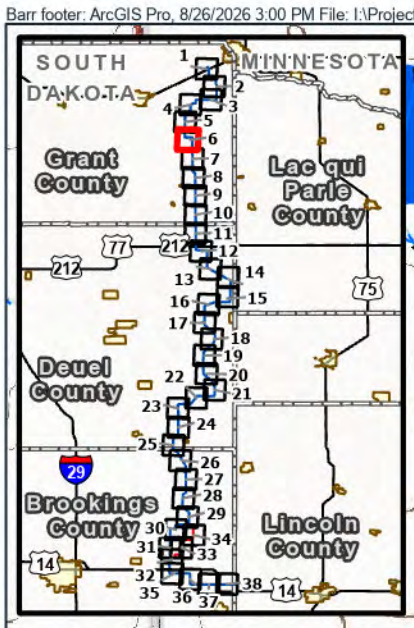
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-5

PowerOn Midwest
Big Stone South to Brookings



T120, R48
T119, R48
154th St
483rd Ave
S35
S36
S1
S2
S3
S10
S11
S12
S13
S14
S15
CR 35
CR 26
156th St
NATIONAL WATERFOWL PRODUCING AREA
Upper Minnesota Watershed
Grant County

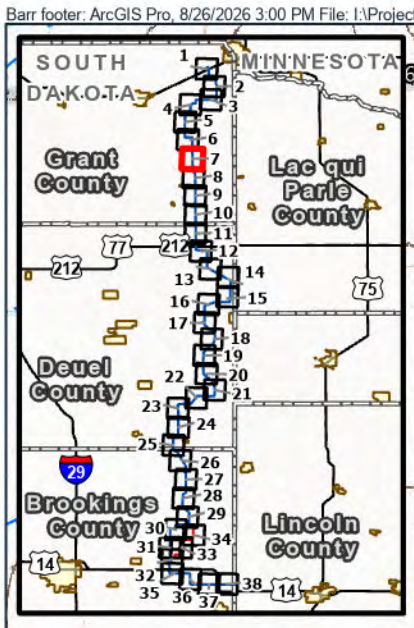
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-6

PowerOn Midwest
Big Stone South to Brookings



156th St
158th St
483rd Ave
484th Ave
S12
S13
S18
S19
S23
S24
S25
S26
S30
13
24
23
25
26
158
Townhall
Upper Minnesota Watershed
Grant County
T119, R48
T119, R47
NATIONAL PROD
1132
1134
1136
1138
1140
1142
1143
1144
1145
1146
1148
1150
1152
1154
1158
1160

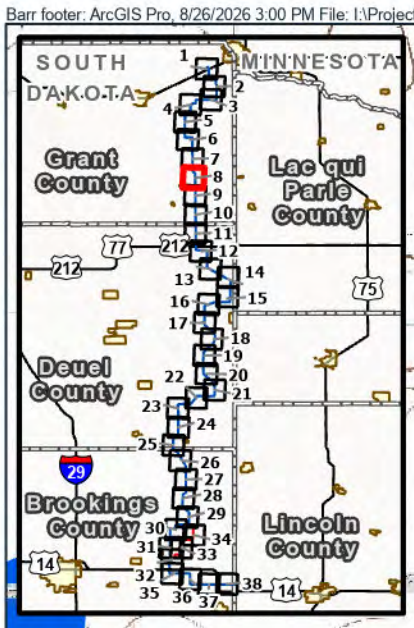
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-7

PowerOn Midwest
Big Stone South to Brookings



Upper Minnesota Watershed

Grant County

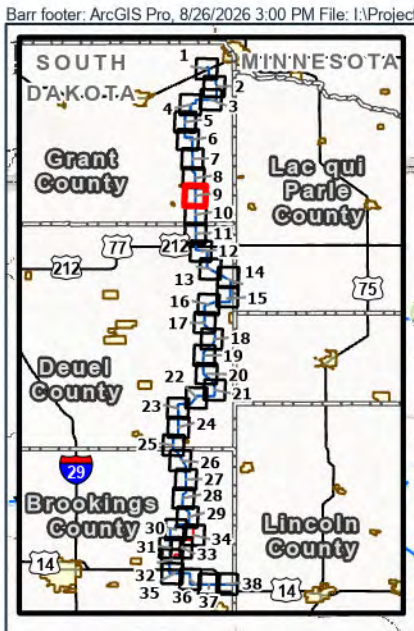
Big Stone South to Brookings County to Minnesota Border 765 kV Route	County Boundary
Right-of-Way	Perennial Stream
Municipal Boundary	Intermittent Stream
Public Land Survey Township	Waterbody
	Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-8

PowerOn Midwest
Big Stone South to Brookings



CR 18
162nd St
163rd St
483rd Ave
484th Ave
S1
S6
S7
S11
S12
S13
S14
S18
S19
S23
S24
South Fork Yellow Bank River
Mud Creek
Grant County
Upper Minnesota Watershed
Lac Qui Parle Watershed
T118, R48
T118, R47
OLD RAILROAD GRADE

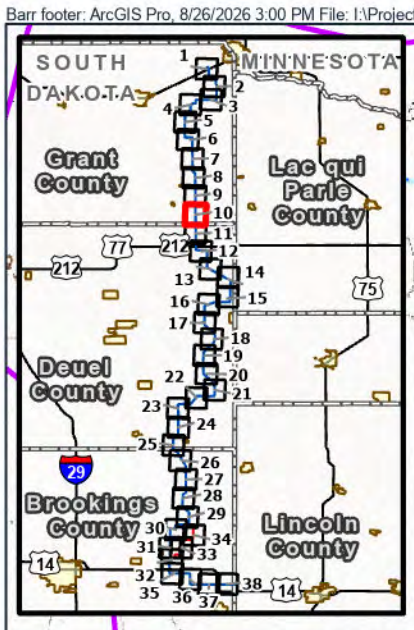
Big Stone South to Brookings County to Minnesota Border 765 kV Route	County Boundary
Right-of-Way	Perennial Stream
Public Land Survey Township	Intermittent Stream
	Waterbody
	Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-9

PowerOn Midwest
Big Stone South to Brookings



OLD RAILROAD GRADE

483rd Ave

484th Ave

165th St

20

S24 S25 S26 S30 S19 S35 S36 S31 S2 S1 S6

Grant County

Lac Qui Parle Watershed

Deuel County

T118, R48

T117, R48

T118, R47

T117, R47

GRANT CO

DEUEL CO

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

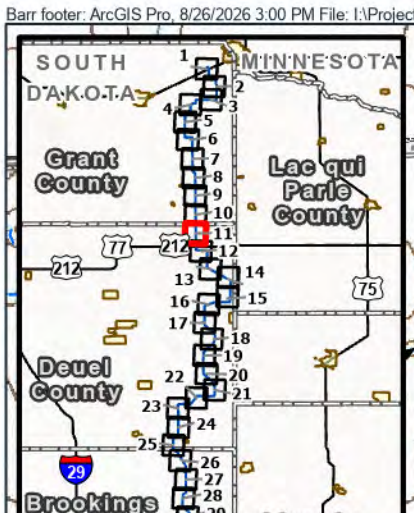
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-10

PowerOn Midwest
Big Stone South to Brookings



Grant County
T118, R48
T117, R48
GRANT CO
DEUEL CO
T118, R47
T117, R47
S31
S36
484th Ave
483rd Ave
167th St
168th St
S1
S2
S6
S7
S11
S12
S13
S14
S18
Lac Qui Parle Watershed
Deuel County
Lost Creek
1211
1200
1238
1204
1250
1220
1258
1223
1259
1300
1309
1350

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

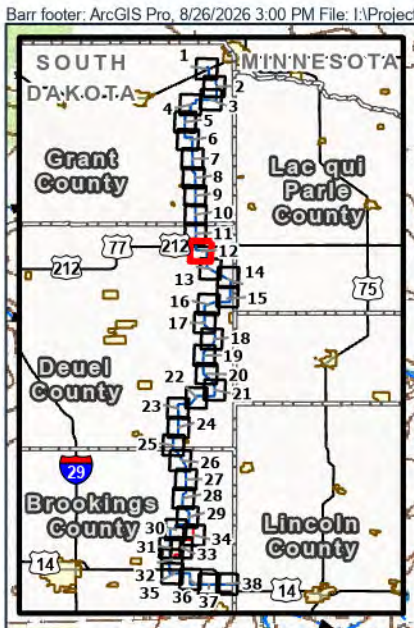
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0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-11

PowerOn Midwest
Big Stone South to Brookings



Lost Creek
Crow Timber Creek
Lac Qui Parle Watershed
Deuel County
485th Ave
170th St
212
S13
S18
S19
S23
S24
S25
S26
S30
T117, R48
T117, R47

Big Stone South to Brookings County to Minnesota Border 765 kV Route

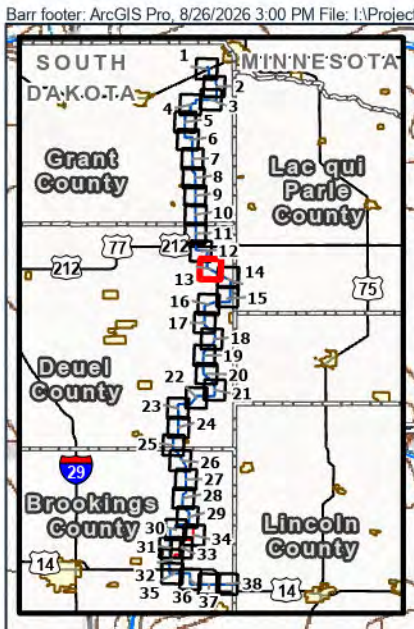
- Right-of-Way
- Public Land Survey Township
- County Boundary
- Perennial Stream
- Intermittent Stream
- Waterbody
- Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-12

PowerOn Midwest
Big Stone South to Brookings



485th Ave

Lac Qui Parle Watershed

Deuel County

Crow Creek

CR 310

T117, R48

T117, R47

T116, R47

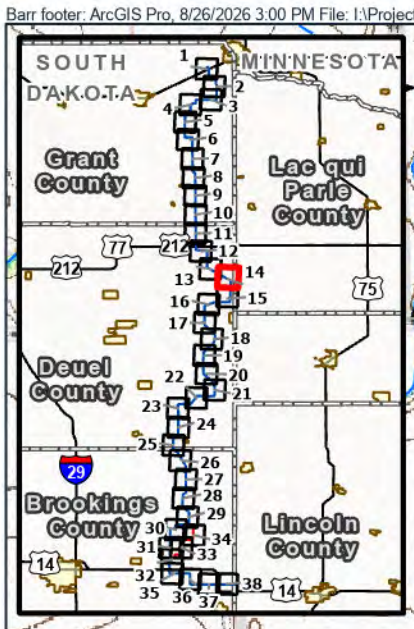
S29 S30 S31 S32 S36 S6 S5 S4 S7 S8 S9

1300 1292 1258 1250 1315 1330 1350 1320 1357 1385 1370 1410 1400 1351 1365

SURFACE HYDROLOGY
South Dakota

MAP 13-13

PowerOn Midwest
Big Stone South to Brookings



T117, R47
T116, R47

Crow Creek

Deuel County

Lac Qui Parle Watershed

Lac qui Parle County

SOUTH DAKOTA
MINNESOTA

174th St

CR 310

S3 S4 S5 S6 S7 S8 S9 S10 S15 S16 S17 S18

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

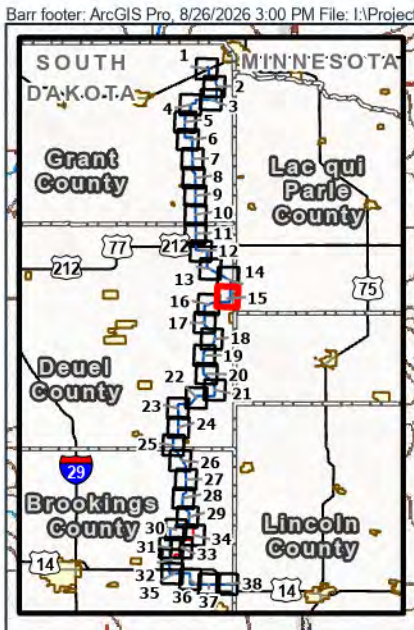
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-14

PowerOn Midwest
Big Stone South to Brookings



Deuel County

Lac Qui Parle Watershed

Lac qui Parle County

Monighan Creek

CR 513

CR 310

488th Ave

SOUTH DAKOTA

MINNESOTA

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

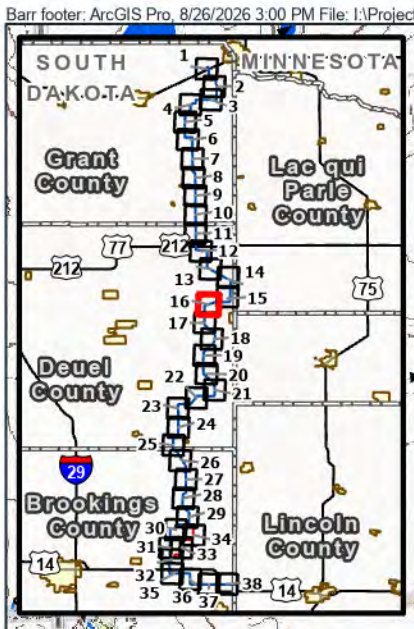
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-15

PowerOn Midwest
Big Stone South to Brookings



S19 S20 S29 S30 S25 S31 S32 S36 S1 S6 S5

Lac Qui Parle Watershed

Deuel County

Monighan Creek

484th Ave

178th St

T116, R48

T116, R47

T115, R48

T115, R47

1550 1500 1600 1580 1585 1570 1620

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

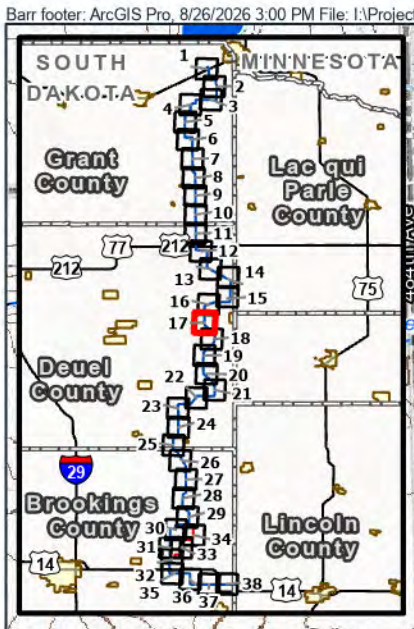
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-16

PowerOn Midwest
Big Stone South to Brookings



T116, R47
T115, R47
178th St
S31
S32
1600
1630
1620
S5
S6
S1
1650
1670
CR 309
Lac Qui Parle Watershed
Deuel County
T115, R48
484th Ave
S12
S7
S8
1640
180th St
West Branch Lac qui Parle River
485th Ave
S17
S18
S13
1635
18

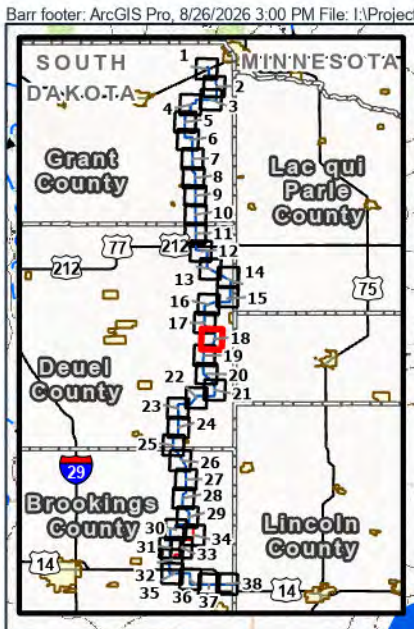
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-17

PowerOn Midwest
Big Stone South to Brookings



Lac Qui Parle Watershed

Deuel County

485th Ave

486th Ave

181st St

Cobb Creek

S16 S17 S19 S20 S21 S28 S29 S30

17 19 20 29 30

22

1650 1670

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

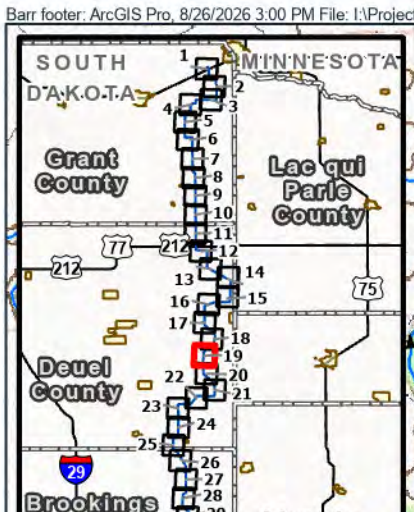
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-18

PowerOn Midwest
Big Stone South to Brookings



Cobb Creek
484th Ave
485th Ave
183rd St
T115, R48
T114, R48
T115, R47
T114, R47
Lac Qui Parle Watershed
Deuel County
S1
S5
S6
S29
S30
S31
S32
S36
29
30
31
32
1650
1670
1700
1750

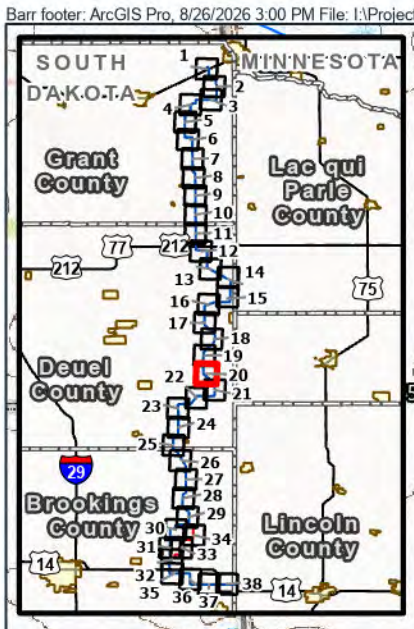
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

N
0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-19

PowerOn Midwest
Big Stone South to Brookings



CR 375
485th Ave
S6
S5
S7
S8
S12
S13
S17
S18
S19
S20
S24
1750
1800
1790
1782
1784
1792
1795
T114, R48
T114, R47
484th Ave
186th St
187th St
488th Ave
485th Ave
Lac Qui Parle Watershed
Deuel County
Gravel Pit
RUNGE STATE WILDLIFE MANAGEMENT AREA

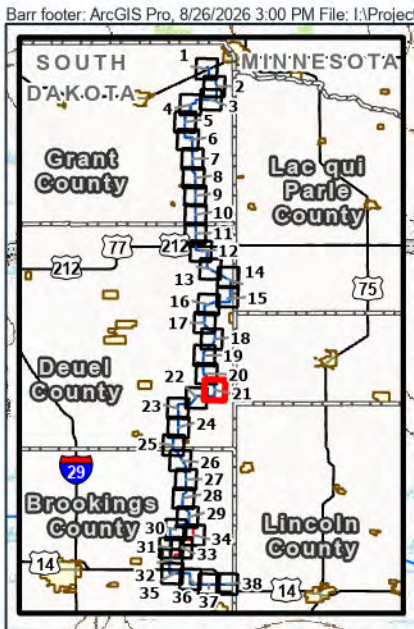
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

N
0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-20

PowerOn Midwest
Big Stone South to Brookings



485th Ave
CR 516
CR 314
189th St
CR 111
S16
S17
S19
S20
S21
S28
S29
S30
S31
S32
S33
1800
1790
1784
1797
1750
1785
1794
1799
1811
1795
Cottonwood Slough
Lac Qui Parle Watershed
Deuel County

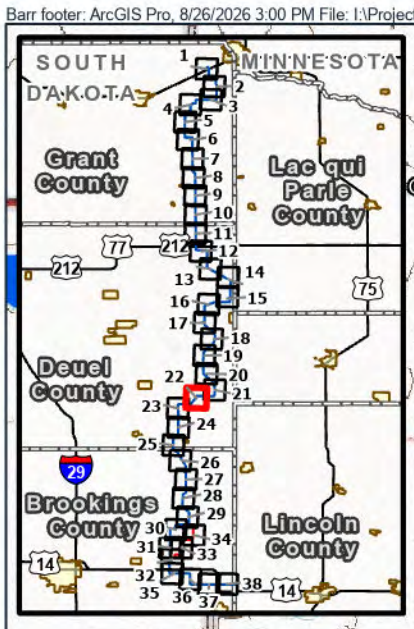
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

N
0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-21

PowerOn Midwest
Big Stone South to Brookings

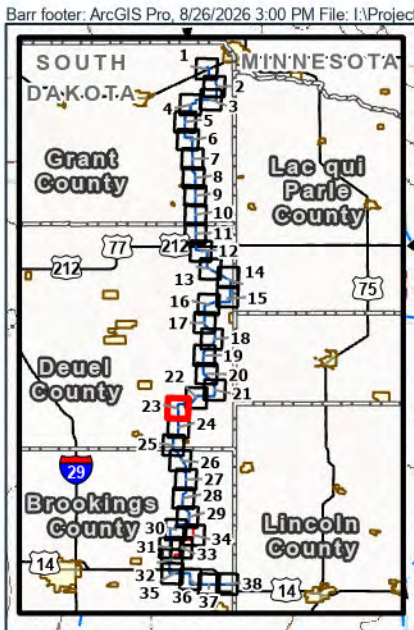


Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins
Lac Qui Parle Watershed
0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-22

PowerOn Midwest
Big Stone South to Brookings



Cobb Creek
482nd Ave
CR 311
190th St
191st St
T114, R48
T113, R48
Lac Qui Parle Watershed
Deuel County
CANDIA
S1
S2
S3
S10
S11
S34
S35
S36
1800
1810
1820
1830
1838

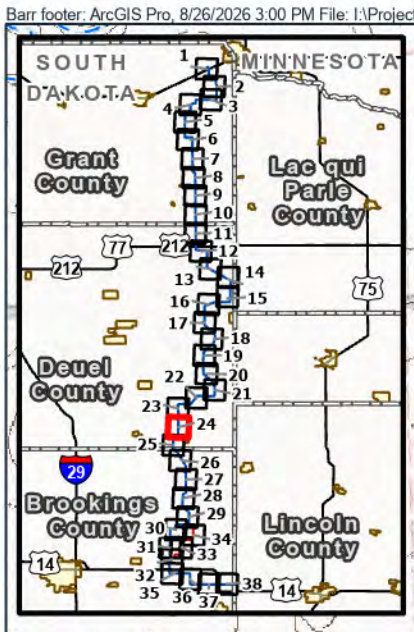
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-23

PowerOn Midwest
Big Stone South to Brookings



Lac Qui Parle Watershed

Deuel County

192nd St

193rd St

482nd Ave

CR 311

Gravel Pit

Jorstad Spring

S10 S11 S12 S13 S14 S15 S22 S23 S24 S25 S26 S27

28

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

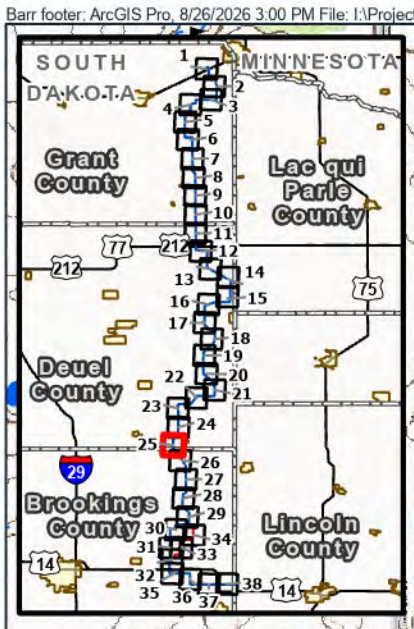
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-24

PowerOn Midwest
Big Stone South to Brookings



482nd Ave
195th St
196th St
481st Ave
Deuel County
Brookings County
Lac Qui Parle Watershed
T113, R48
T112, R48
Gravel Pit
Well
Astoria
S27
S26
S35
S34
S33
S3
S2
S4

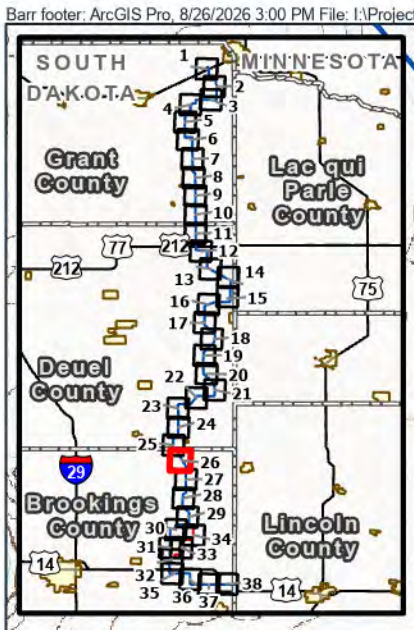
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-25

PowerOn Midwest
Big Stone South to Brookings



482nd Ave
483rd Ave
CR 40
198th St
Gravel Pit
Lac Qui Parle Watershed
Brookings County
S1
S2
S10
S11
S12
S13
S14
S15
1950
1930
1900
1850
1820
1940
1917
1918
1853
1886
1929

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

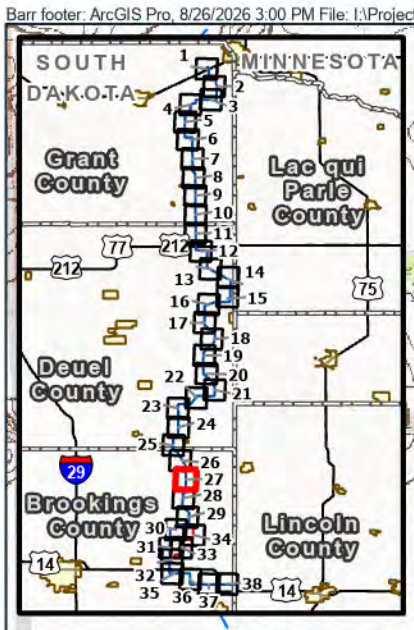
N

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-26

PowerOn Midwest
Big Stone South to Brookings



S14 S13 S23 S24 S22 S25 S26 S27 S35 S36 S34

1850 1900 1950

199th St

CR 44

482nd Ave

483rd Ave

201st St

Lac Qui Parle Watershed

Brookings County

Middle Big Sioux Watershed

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

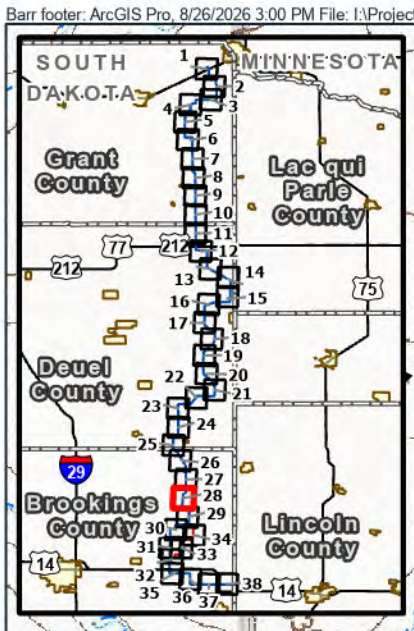
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-27

PowerOn Midwest
Big Stone South to Brookings



Lac Qui Parle Watershed

Middle Big Sioux Watershed

Brookings County

T112, R48

T111, R48

202nd St

482nd Ave

483rd Ave

Gravel Pit

S1 S2 S3 S10 S11 S12

35 36 1 12

30

CR 27

1950 1930 1900 1850

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

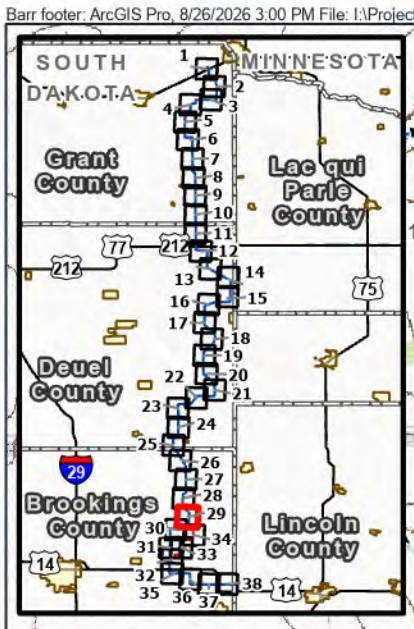
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-28

PowerOn Midwest
Big Stone South to Brookings



204th St
483rd Ave
205th St
206th St
CR 36
T111 R48
T111 R47
Middle Big Sioux Watershed
Brookings County
S7
S12
S13
S14
S18
S19
S23
S24
S25
S26
S30
1900
1850
1800

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

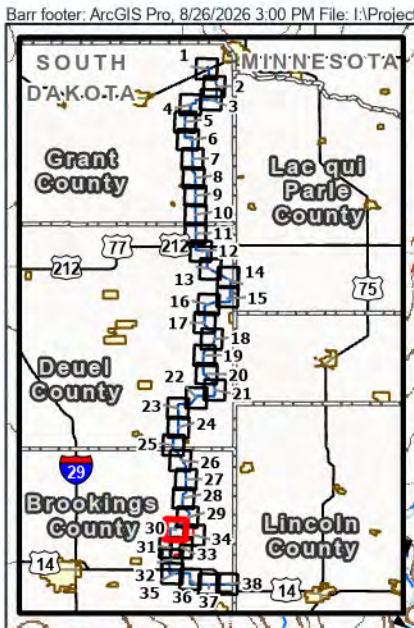
N

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-29

PowerOn Midwest
Big Stone South to Brookings



206th St
CR 27
483rd Ave
CR 8
Middle Big Sioux Watershed
Brookings County
Deer Creek
T111, R48
T110, R48
R M A N
S22
S23
S24
S25
S26
S27
S34
S35
S36
S1
S2
S3
23
27
34
35
1850
1800
1750
1700

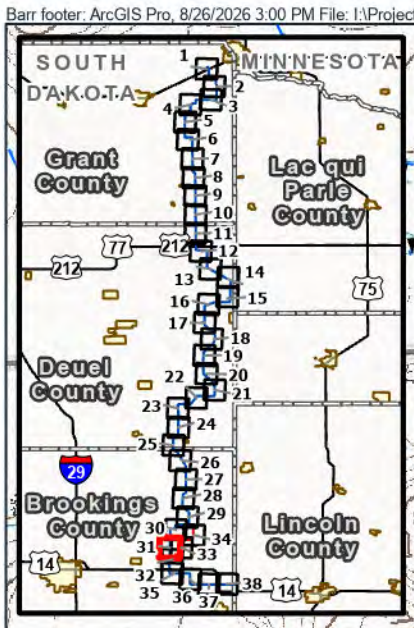
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-30

PowerOn Midwest
Big Stone South to Brookings



T111, R48
T110, R48
S34
S35
S4
S3
S2
S9
S10
S11
S16
S15
S14
GR 27
481st Ave
209th St
210th St
1700
1750
1800
1850
1783
1765
1735
1737
1777

Middle Big Sioux Watershed

Brookings County

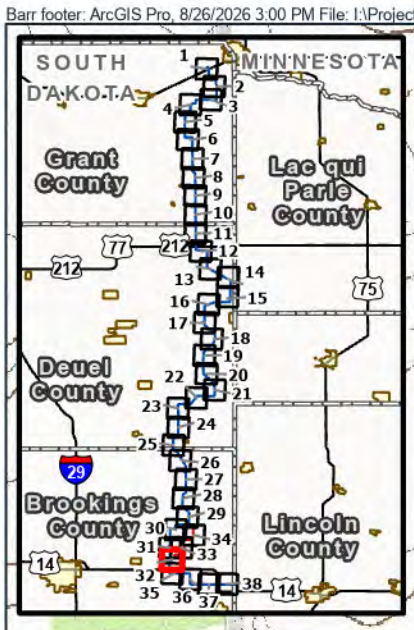
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-31

PowerOn Midwest
Big Stone South to Brookings



Brookings County 765 kV Substation Expansion Area

Middle Big Sioux Watershed

Brookings County

210th St

CR 27

481st Ave

CR 34

S10 S11 S14 S15 S16 S21 S22 S23 S26 S27

10 11 14 15 22 23

1800 1750 1730 1700 1720 1740 1760 1780 1770 1703 1713 1692

T 109 N

Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Substation Expansion Area

Public Land Survey Township

County Boundary

Perennial Stream

Intermittent Stream

Waterbody

Watershed Sub-basins

N

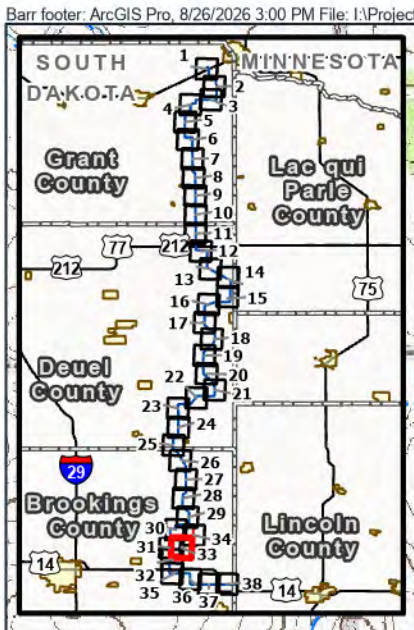
0 500 1,000

Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-32

PowerOn Midwest
Big Stone South to Brookings



T111, R48
T110, R48
S35
S36
S1
S2
S3
S10
S11
S12
S13
S14
S15
1750
1800
1850
1867
483rd Ave
209th St
210th St
CR 27
CR 34
Middle Big Sioux Watershed
Brookings County

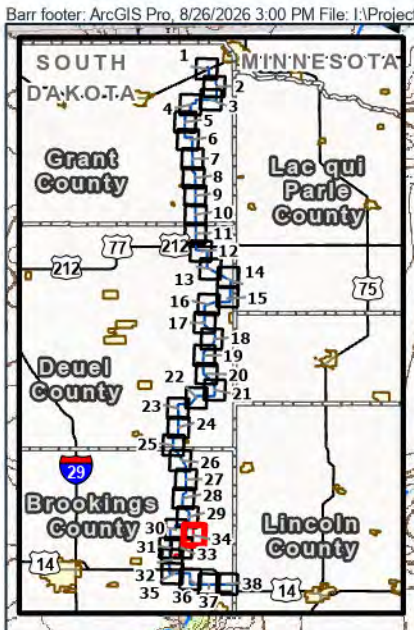
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

N
0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Deer Creek

Middle Big Sioux Watershed

Brookings County

205th St

483rd Ave

484th Ave

CR 8

CR 36

T111, R48

T110, R48

T111, R47

T110, R47

S1 S2 S6 S25 S30 S31 S35 S36

1750 1800 1850 1900

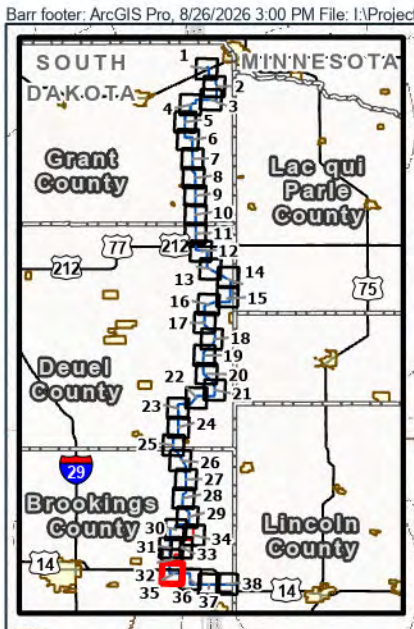
Existing Substation
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-34

PowerOn Midwest
Big Stone South to Brookings



Middle Big Sioux Watershed

Brookings County

Medary Creek

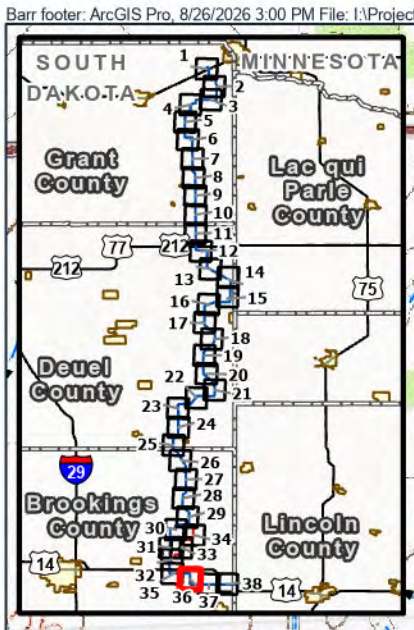
Big Stone South to Brookings County to Minnesota Border 765 kV Route	County Boundary
Right-of-Way	Perennial Stream
Public Land Survey Township	Intermittent Stream
	Waterbody
	Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-35

PowerOn Midwest
Big Stone South to Brookings



S24 S19 S25 S30 S26 S31 S36 S35 S1 S2 S6

14 14 14

483rd Ave 484th Ave

213th St 214th St

T110, R48 T110, R47 T109, R48 T109, R47

1750 1700 1680 1670 1690

Middle Big Sioux Watershed

Brookings County

Medary Creek

Gravel Pit

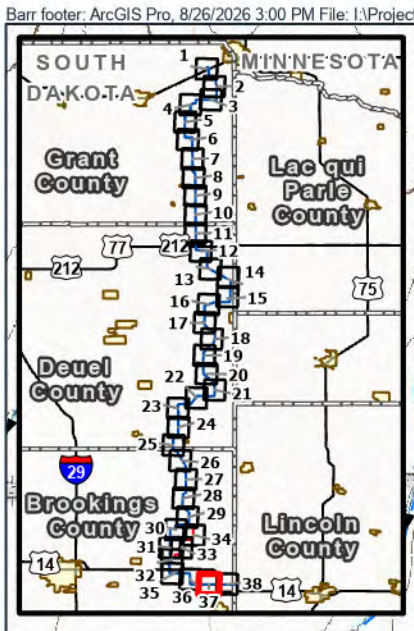
0 500 1,000 Feet

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

SURFACE HYDROLOGY
South Dakota

MAP 13-36

PowerOn Midwest
Big Stone South to Brookings



485th Ave
213th St
214th St
215th St
T110, R47
T109, R47
Brookings County
Middle Big Sioux Watershed
Medary Creek
S28
S29
S31
S32
S33
S4
S5
S6
S7
S8
S9
14
13
1750
1740
1730
1720
1710
1700
1698

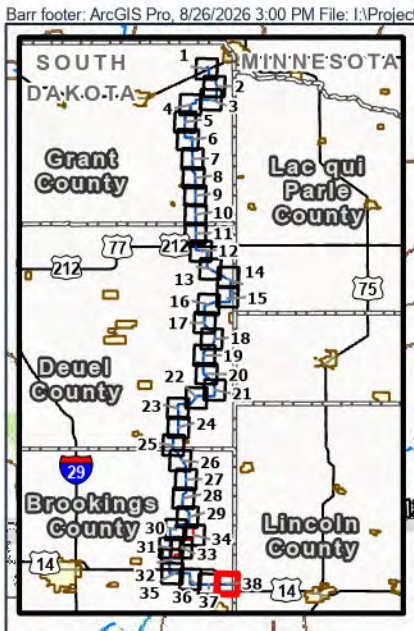
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-37

PowerOn Midwest
Big Stone South to Brookings



Brookings County
Lincoln County
SOUTH DAKOTA
MINNESOTA
487th Ave
213th St
214th St
215th St
T110, R47
T109, R47
Middle Big Sioux Watershed
Roadside Park
Gravel Pit
S25
S28
S27
S36
S33
S34
S1
S3
S4
S5
S9
S10
S12
S8
36
33
1
3
4
14
13
1850
1800
1750
1770
1730
1740
1780

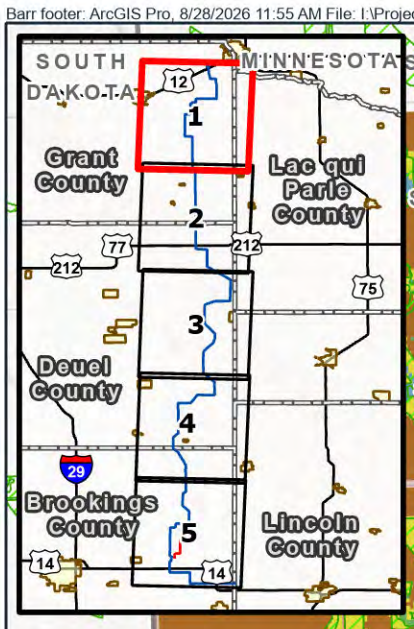
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Perennial Stream
Intermittent Stream
Waterbody
Watershed Sub-basins

0 500 1,000
Feet

SURFACE HYDROLOGY
South Dakota

MAP 13-38

PowerOn Midwest
Big Stone South to Brookings



Big Stone South 765 kV Substation Expansion Area

BIG STONE SOUTH SUBSTATION

Granite Quarry

Grant County

Lac qui Parle County

Big Stone County

SOUTH DAKOTA

MINNESOTA

Milbank

Minnesota River Prairie Ecoregion

158

T121, R48
T120, R48
T121, R47
T120, R48
T121, R47
T120, R47
T121, R46
T120, R47
T120, R48
T119, R48
T120, R47
T119, R47
T120, R48
T119, R48
T120, R47
T119, R47

Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
Substation Expansion Area
Municipal Boundary
Public Land Survey Township
County Boundary
Ecoregions (LVL 4)

Potentially Undisturbed GrassLands

National Landcover Types

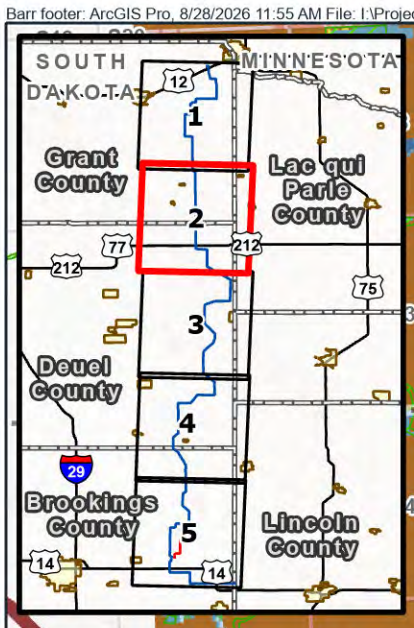
Barren Land
Cultivated Crops
Deciduous Forest
Developed, High Intensity
Developed, Low Intensity
Developed, Medium Intensity
Developed, Open Space
Emergent Herbaceuous Wetlands
Evergreen Forest
Hay/Pasture
Herbaceuous
Mixed Forest
Open Water
Woody Wetlands

0 1 2
Miles

LAND COVER
South Dakota

MAP 14-1

PowerOn Midwest
Big Stone South to Brookings



Albee
Revillo
Grant County
Deuel County
Minnesota River Prairie Ecoregion
Prairie Coteau Escarpment Ecoregion
Prairie Coteau Ecoregion
Lac qui Parle County
SOUTH DAKOTA
MINNESOTA
T119, R48
T119, R47
T118, R48
T118, R47
T117, R48
T117, R47
T116, R48
T116, R47
20
40
101
212

- Existing Substation
- Big Stone South to Brookings 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Ecoregions (LVL 4)
- Potentially Undisturbed GrassLands

National Landcover Types

- Barren Land
- Cultivated Crops
- Deciduous Forest
- Developed, High Intensity
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, Open Space
- Emergent Herbaceuous Wetlands
- Evergreen Forest
- Hay/Pasture
- Herbaceuous
- Mixed Forest
- Open Water
- Woody Wetlands

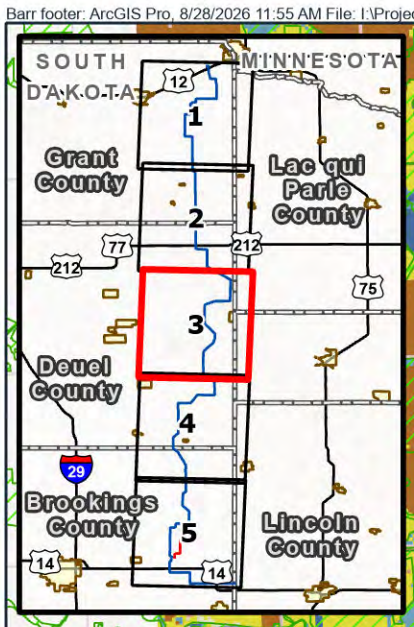
N

0 1 2
Miles

LAND COVER
South Dakota

MAP 14-2

PowerOn Midwest
Big Stone South to Brookings



Minnesota River Prairie Ecoregion

Prairie Coteau Escarpment Ecoregion

Prairie Coteau Ecoregion

Lac qui Parle County

Deuel County

Yellow Medicine County

Gary

T116, R48

T116, R47

T115, R48

T115, R47

T114, R48

T114, R47

101

22

68

SOUTH DAKOTA

MINNESOTA

Existing Substation

Big Stone South to Brookings 765 kV Route

Right-of-Way

Municipal Boundary

Public Land Survey Township

County Boundary

Ecoregions (LVL 4)

Potentially Undisturbed GrassLands

National Landcover Types

- Barren Land
- Cultivated Crops
- Deciduous Forest
- Developed, High Intensity
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, Open Space
- Emergent Herbaceuous Wetlands
- Evergreen Forest
- Hay/Pasture
- Herbaceuous
- Mixed Forest
- Open Water
- Shrub/Scrub
- Woody Wetlands

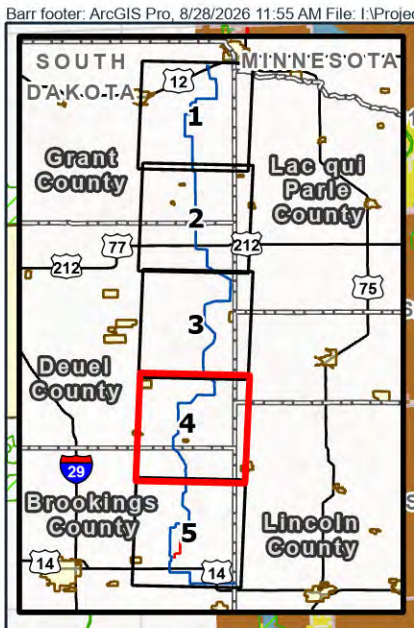
0 1 2

Miles

LAND COVER
South Dakota

MAP 14-3

PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Ecoregions (LVL 4)

Potentially Undisturbed GrassLands

National Landcover Types

Barren Land
Cultivated Crops
Deciduous Forest
Developed, High Intensity
Developed, Low Intensity
Developed, Medium Intensity
Developed, Open Space
Emergent Herbaceuous Wetlands
Evergreen Forest
Hay/Pasture
Herbaceuous
Mixed Forest
Open Water
Woody Wetlands

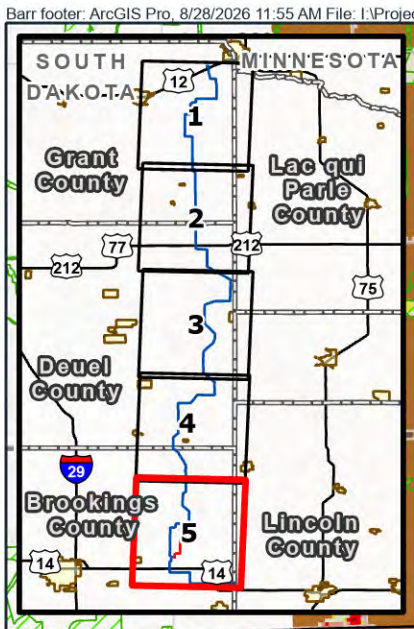
N

0 1 2
Miles

LAND COVER
South Dakota

MAP 14-4

PowerOn Midwest
Big Stone South to Brookings



Prairie Coteau Ecoregion

Big Sioux Basin Ecoregion

Brookings County 345 kV Substation Expansion Area

Brookings County 765 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Brookings County

Lincoln County

White

Bushnell

SOUTH DAKOTA

MINNESOTA

T112, R48

T112, R47

T111, R48

T111, R47

T110, R48

T110, R47

T109, R48

T109, R47

30

19

14

- Existing Substation
- Big Stone South to Brookings 765 kV Route
- Brookings to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Ecoregions (LVL 4)
- Potentially Undisturbed GrassLands

National Landcover Types

- Barren Land
- Cultivated Crops
- Deciduous Forest
- Developed, High Intensity
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, Open Space
- Emergent Herbaceuous Wetlands
- Evergreen Forest
- Hay/Pasture
- Herbaceuous
- Mixed Forest
- Open Water
- Shrub/Scrub
- Woody Wetlands

N

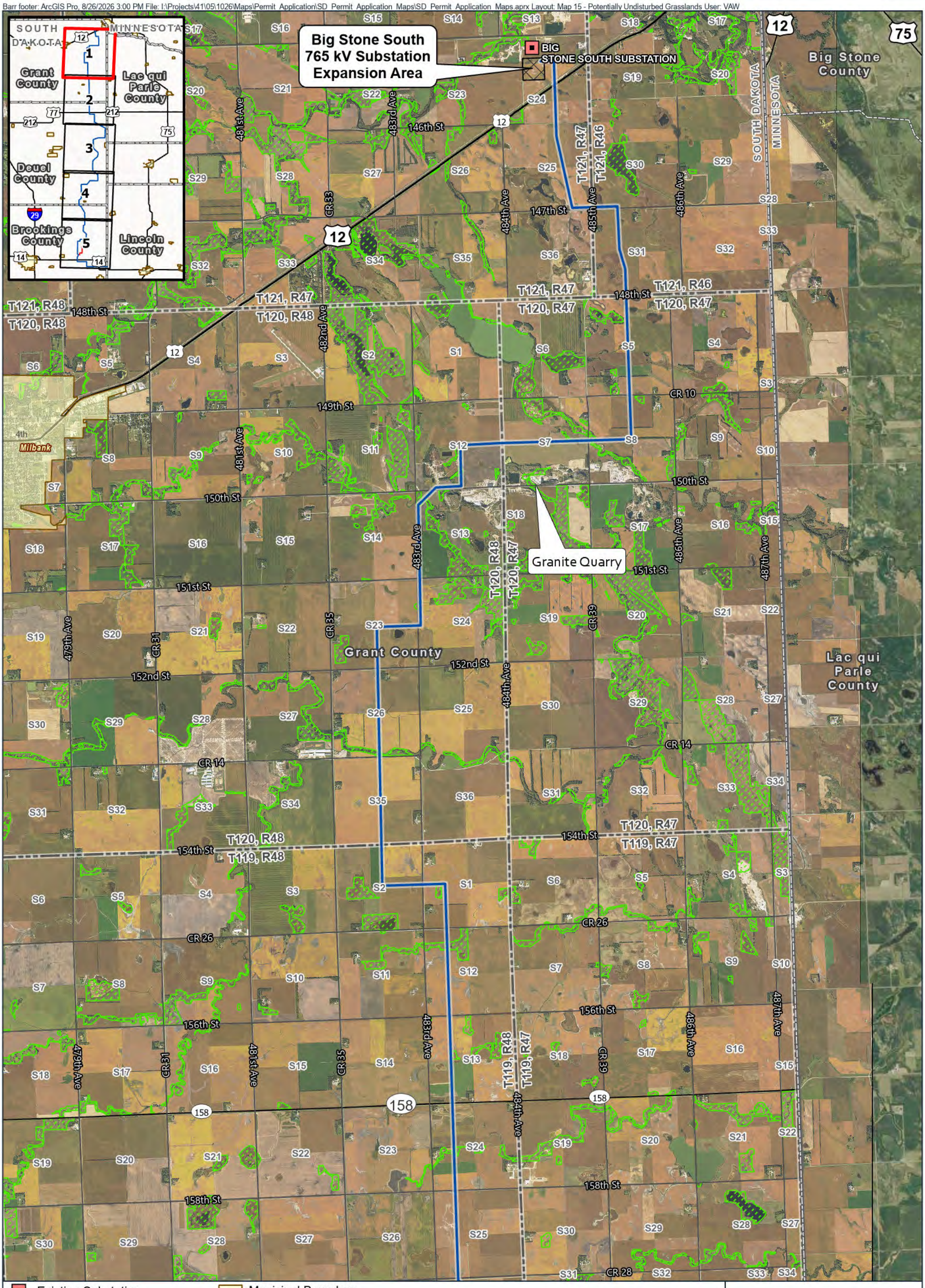
0 1 2

Miles

LAND COVER
South Dakota

MAP 14-5

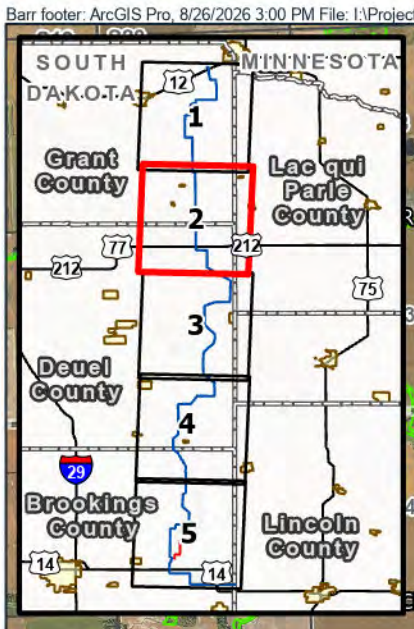
PowerOn Midwest
Big Stone South to Brookings



POTENTIALLY UNDISTURBED GRASSLAND
South Dakota

MAP 15-1

PowerOn Midwest
Big Stone South to Brookings



Albee
Revillo
Grant County
Deuel County
Lac qui Parle County
SOUTH DAKOTA
MINNESOTA

T119, R48
T119, R47
T118, R48
T118, R47
T117, R48
T117, R47
T116, R48
T116, R47

160th St
162nd St
163rd St
165th St
166th St
167th St
168th St
170th St
171st St
172nd St

CR 28
CR 18
CR 35
CR 39
CR 31
CR 10
CR 290
CR 513
CR 6
CR 310

481st Ave
483rd Ave
484th Ave
485th Ave
486th Ave
487th Ave
479th Ave
480th Ave

20
40
101
212

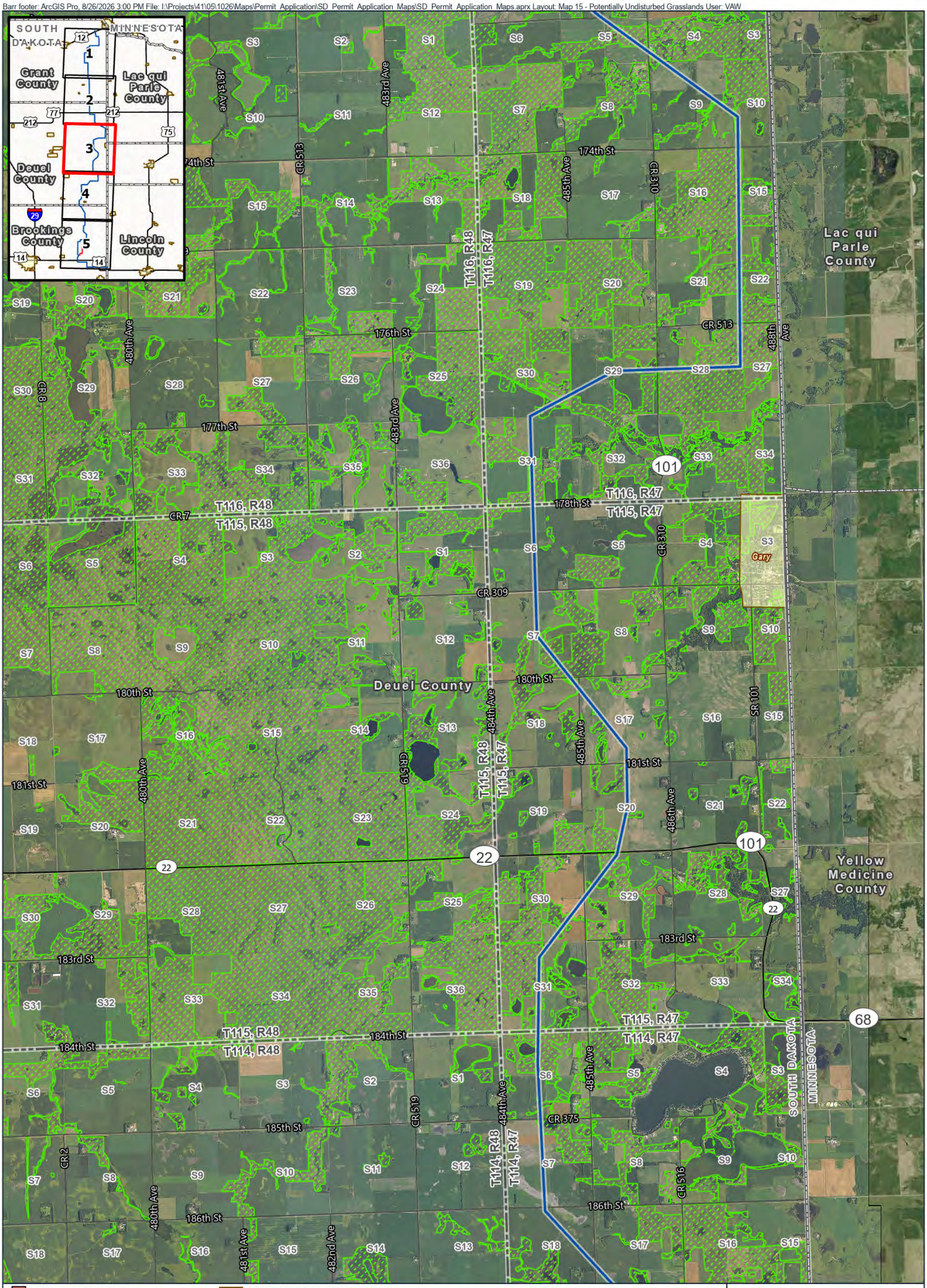
- Existing Substation
- Big Stone South to Brookings 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary
- Potentially Undisturbed Grasslands

0 1 2
Miles

POTENTIALLY UNDISTURBED GRASSLAND
South Dakota

MAP 15-2

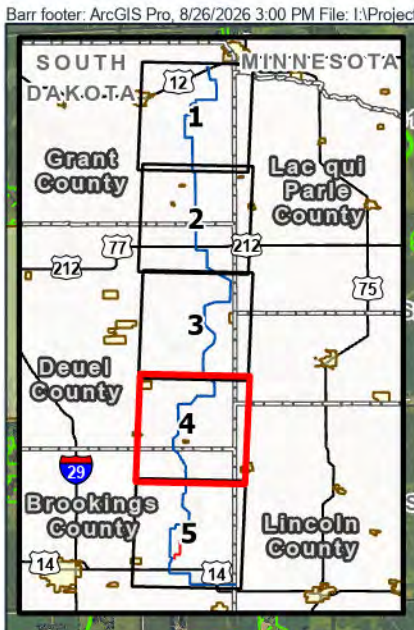
PowerOn Midwest
Big Stone South to Brookings



POTENTIALLY UNDISTURBED GRASSLAND
South Dakota

MAP 15-3

PowerOn Midwest
Big Stone South to Brookings



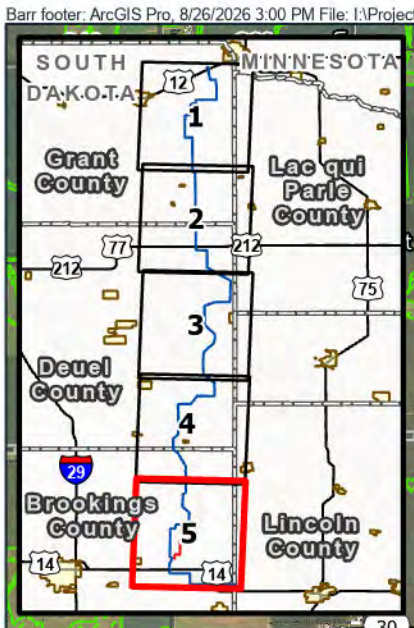
Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Potentially Undisturbed Grasslands

0 1 2
Miles

POTENTIALLY UNDISTURBED GRASSLAND
South Dakota

MAP 15-4

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

Brookings County 765 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

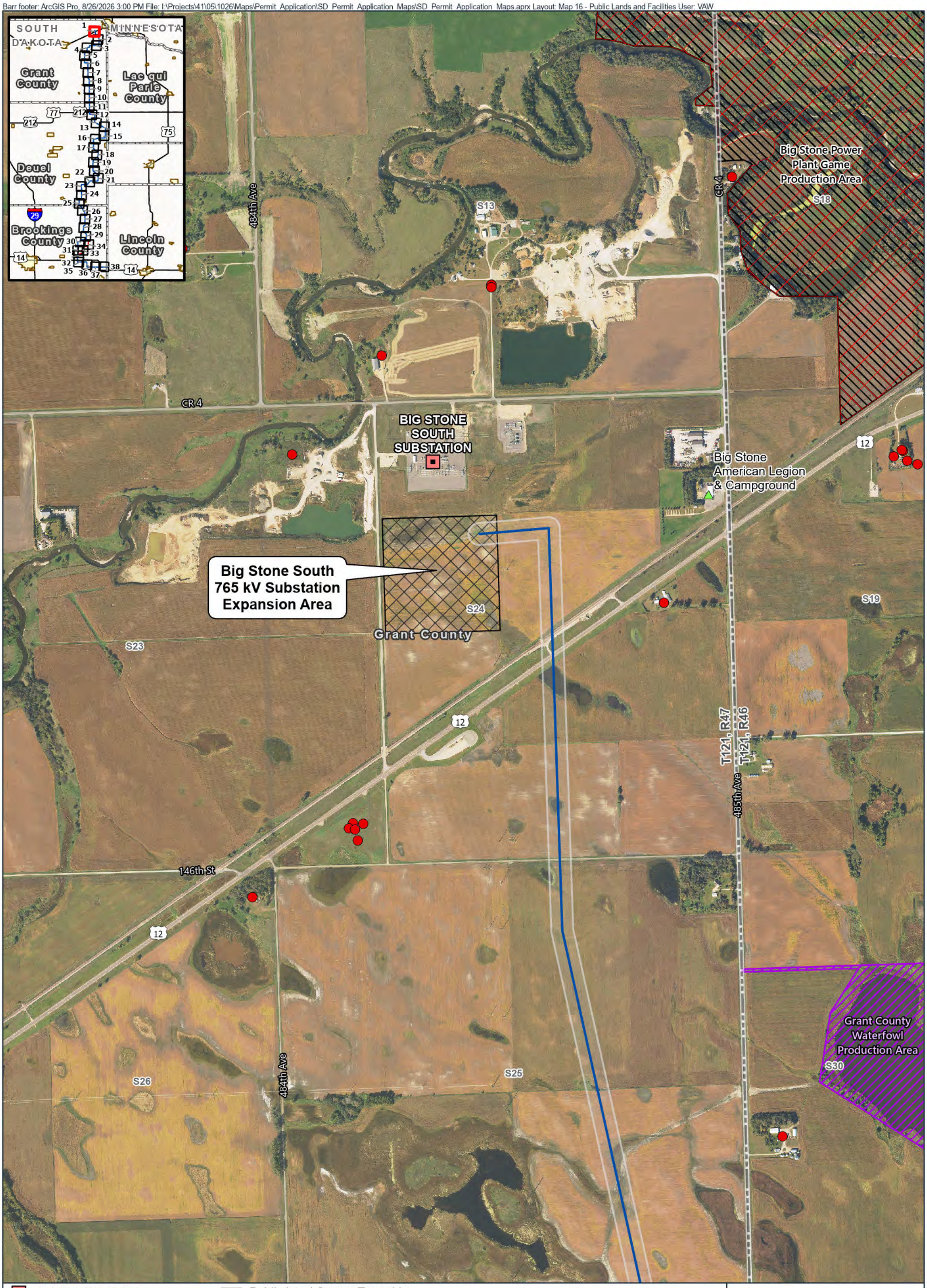
Existing Substation
Big Stone South to Brookings 765 kV Route
Brookings to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Municipal Boundary
Public Land Survey Township
County Boundary
Potentially Undisturbed Grasslands

0 1 2
Miles

POTENTIALLY UNDISTURBED GRASSLAND
South Dakota

MAP 15-5

PowerOn Midwest
Big Stone South to Brookings



- Existing Substation
- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Substation Expansion Area
- Public Land Survey Township
- County Boundary
- Park

Protected Areas

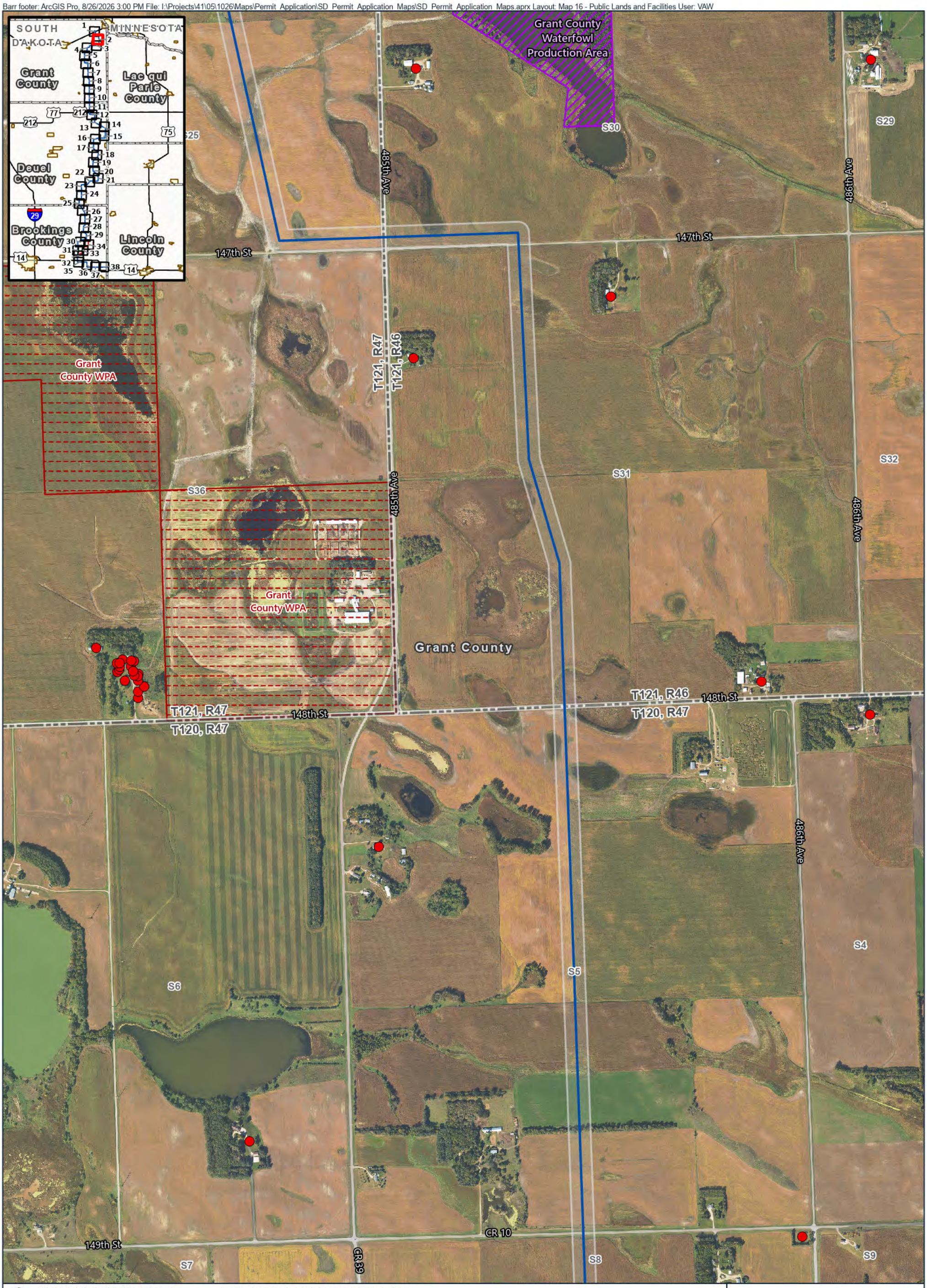
- Federal Land
- State Land
- Game Production Area

0 500 1,000 Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-1

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Protected Areas

- Federal Land
- Local Land

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-2

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary
- Church
- Cemetery

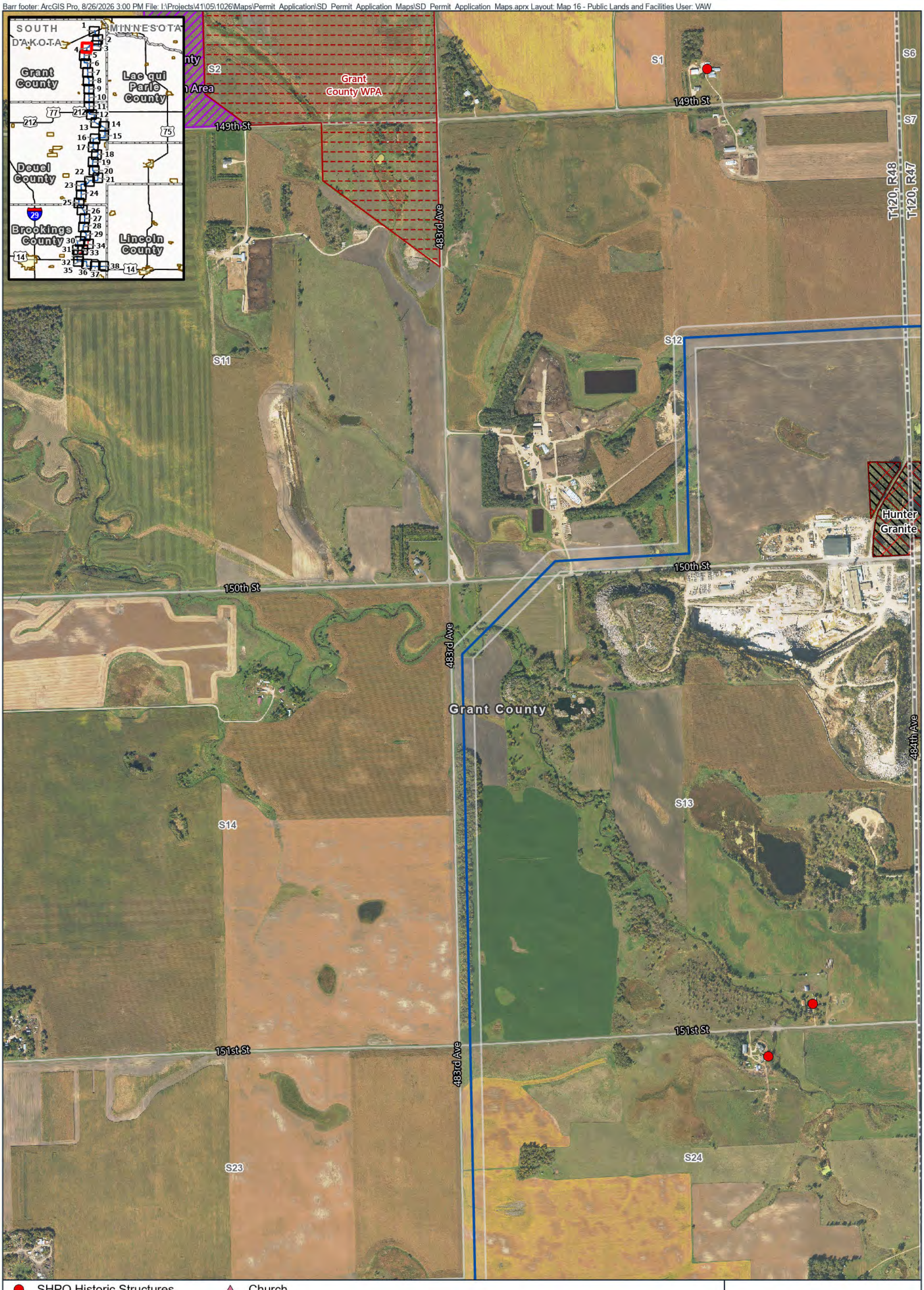
Protected Areas

- State Land
- Game Production Area

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-3

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary
Church

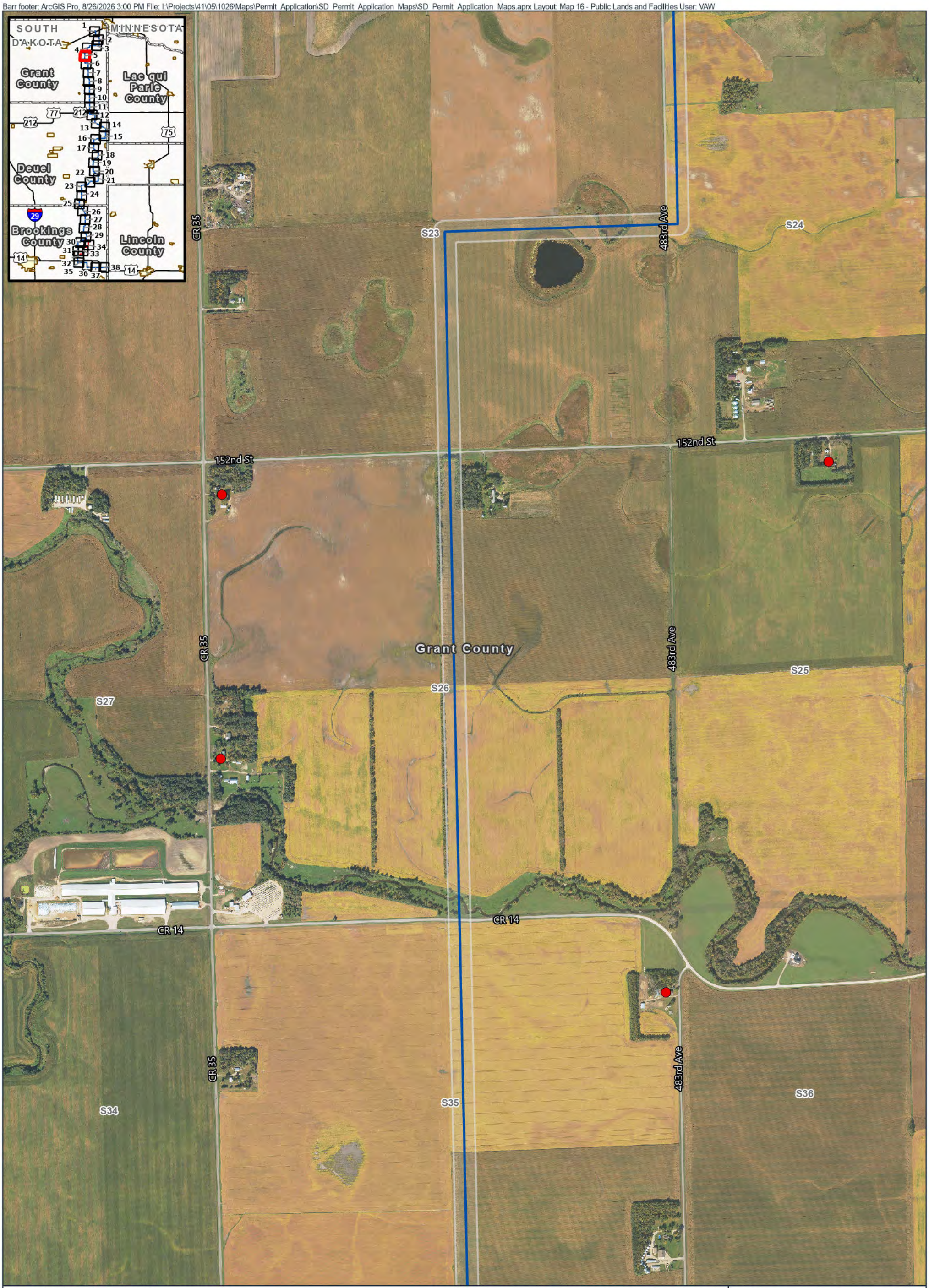
Protected Areas
Federal Land
State Land
Local Land
Game Production Area

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-4

PowerOn Midwest
Big Stone South to Brookings



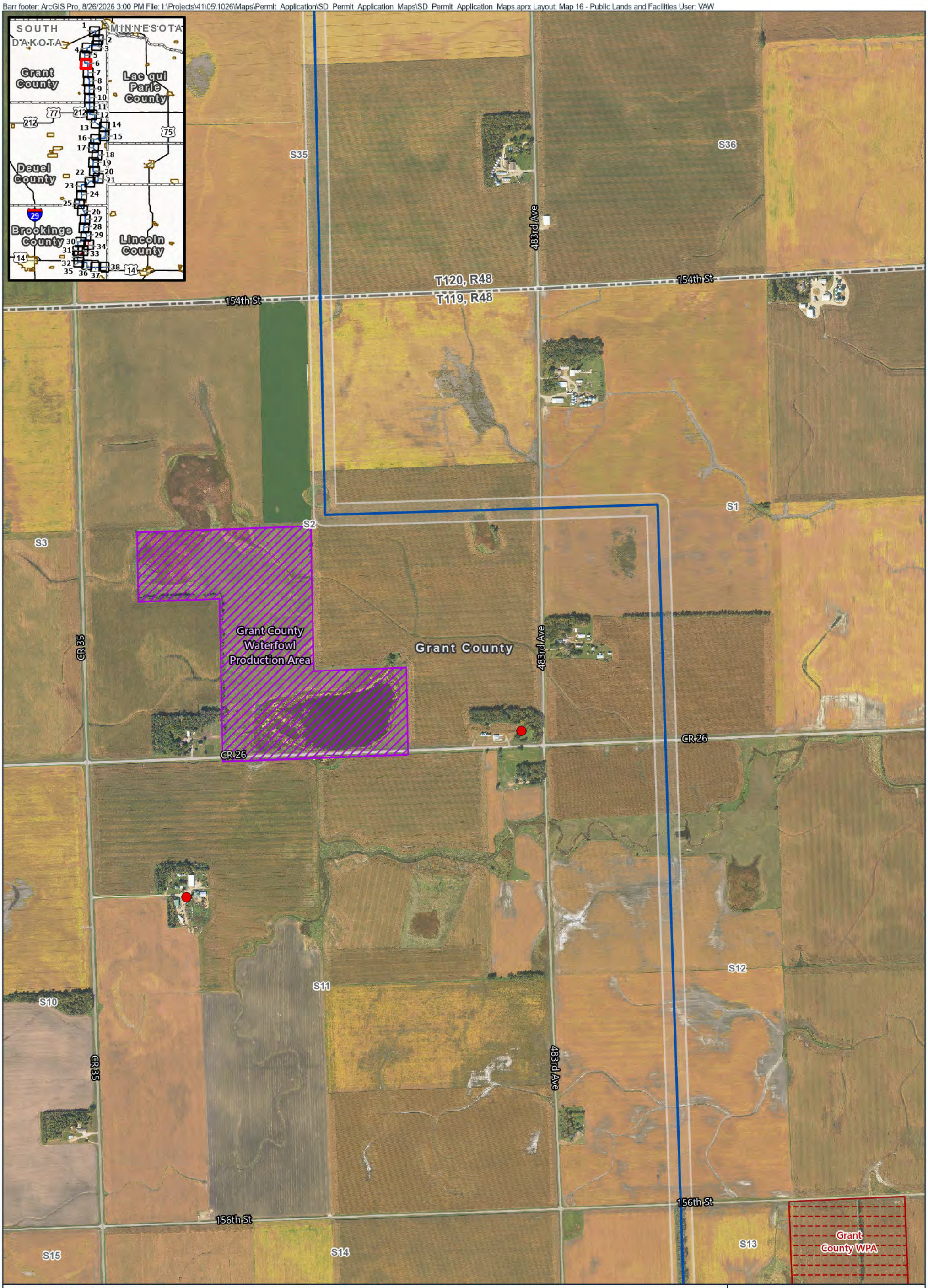
SHPO Historic Structures
SHPO Cemeteries
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Public Land Survey Township
County Boundary

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-5

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Federal Land

Local Land

N

0 500 1,000

Feet

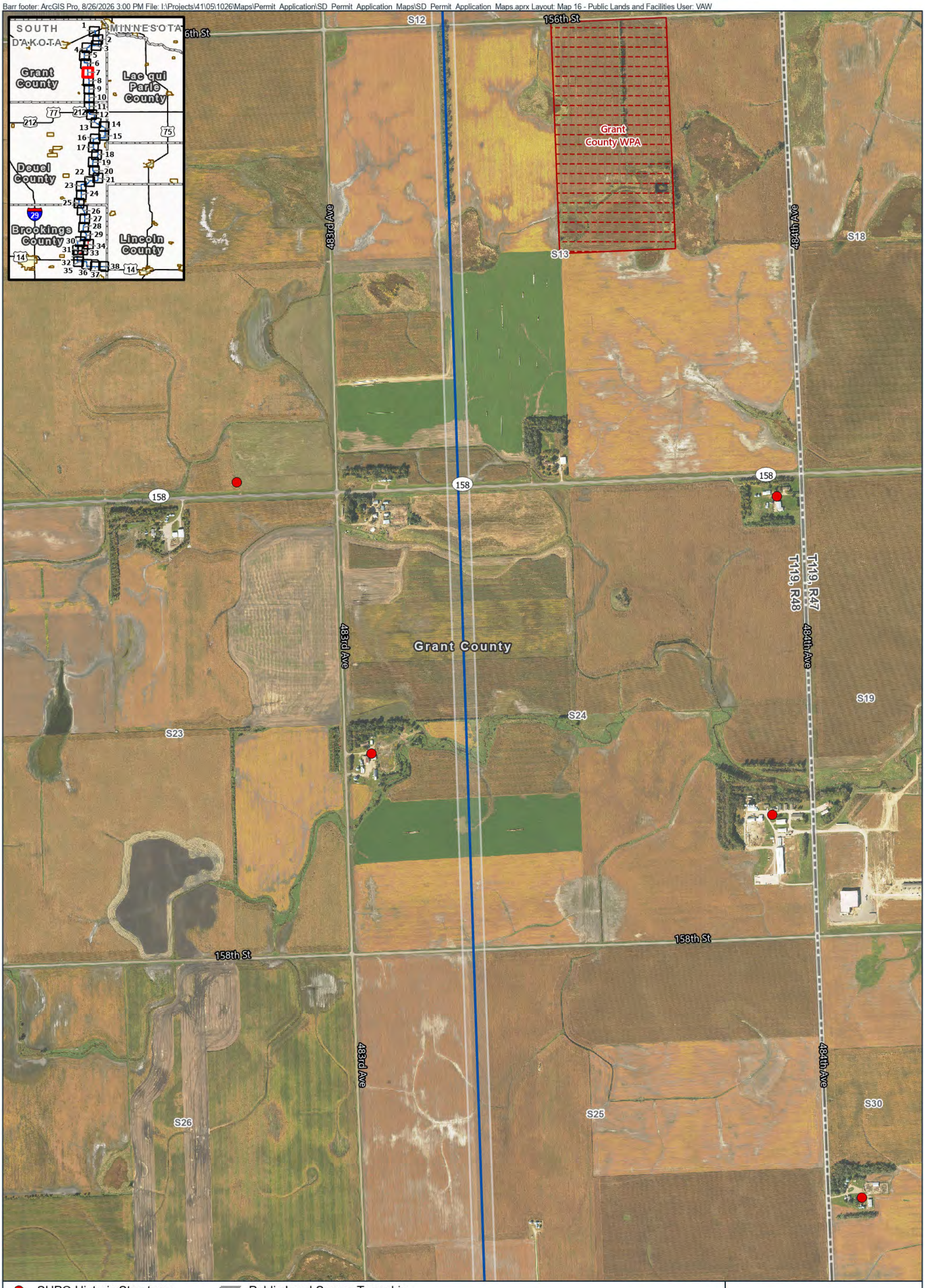
PUBLIC LANDS AND FACILITIES

South Dakota

MAP 16-6

PowerOn Midwest

Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

N

0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-7

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Municipal Boundary

Public Land Survey Township

County Boundary

Protected Areas

Local Land

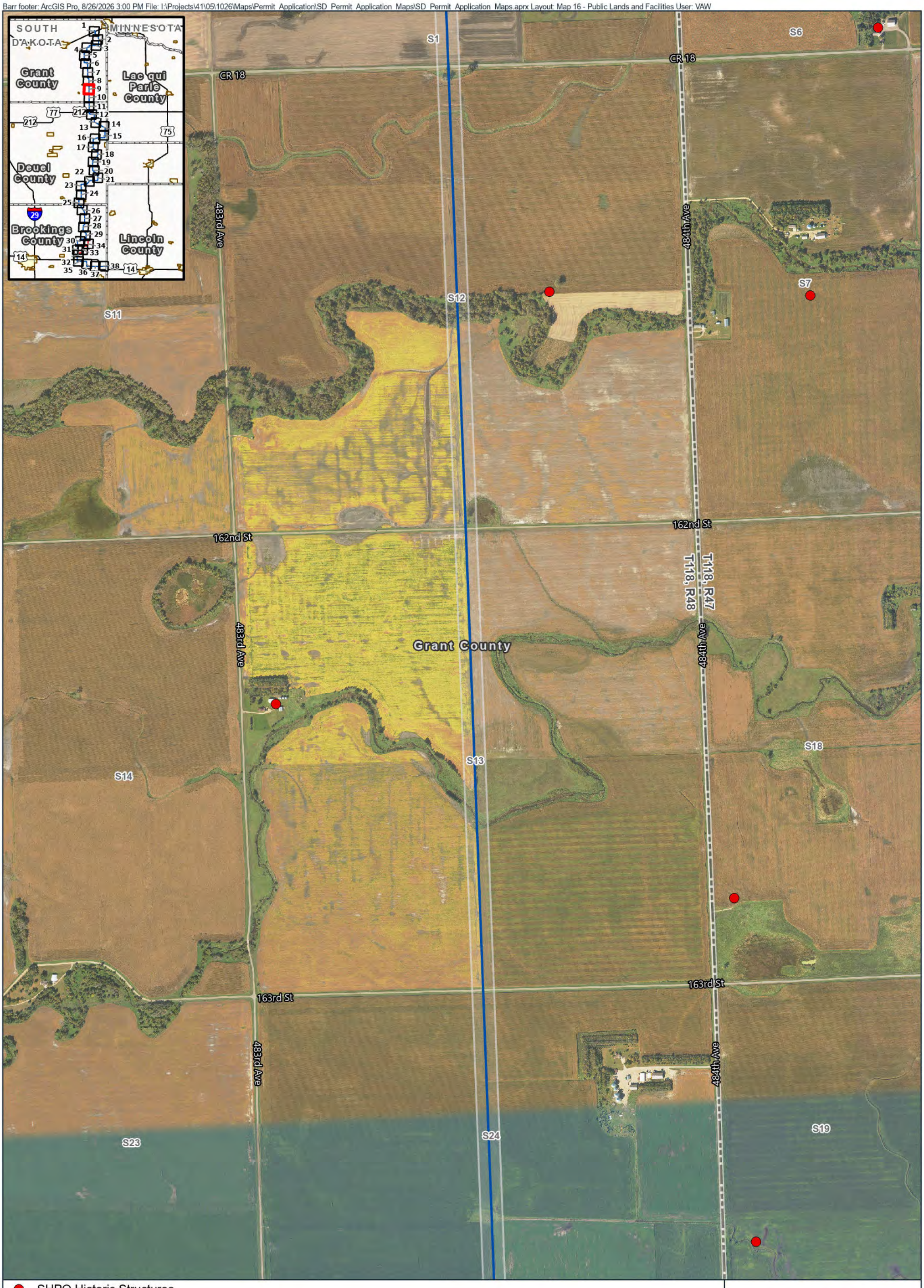
0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-8

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-9

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

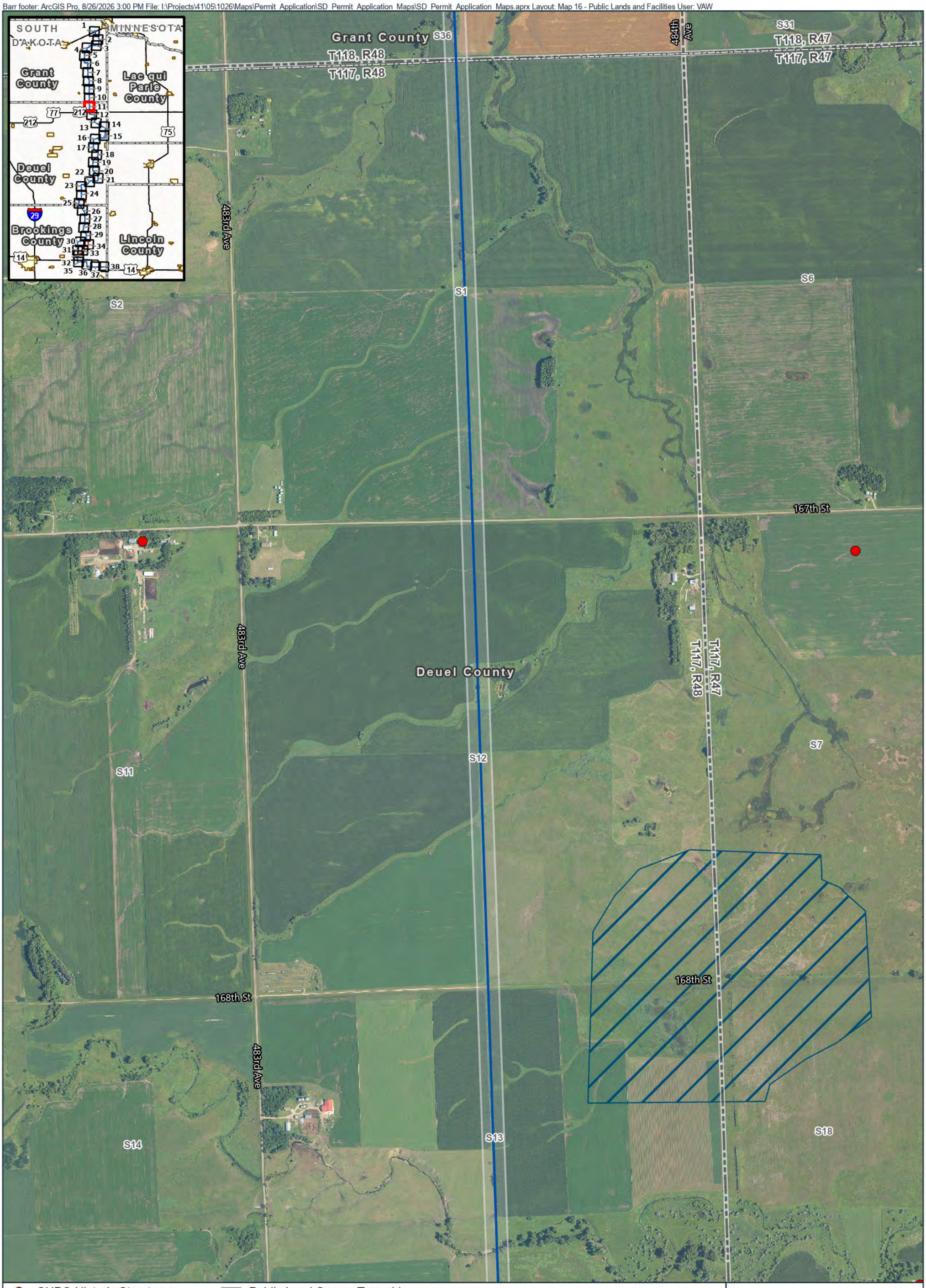
0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-10

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Sharp-Tailed Grouse Habitat Prioritization

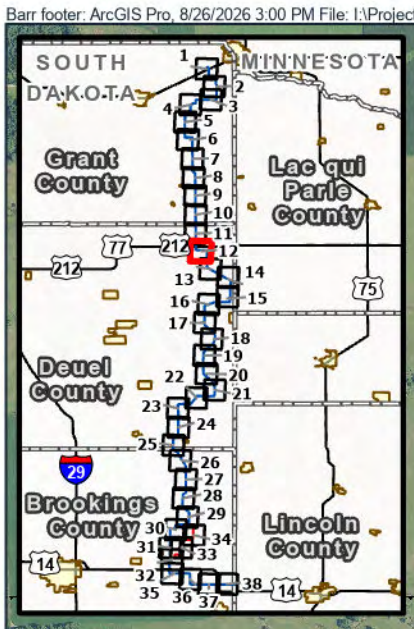
- Tier 3

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-11

PowerOn Midwest
Big Stone South to Brookings



S13
S18
485th Ave
212
S19
S24
T117, R48
T117, R47
Deuel County
S23
170th St
S25
S30
S26

- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Sharp-Tailed Grouse Habitat Prioritization

- Tier 3

N

0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-12

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 3

0 500 1,000

Feet

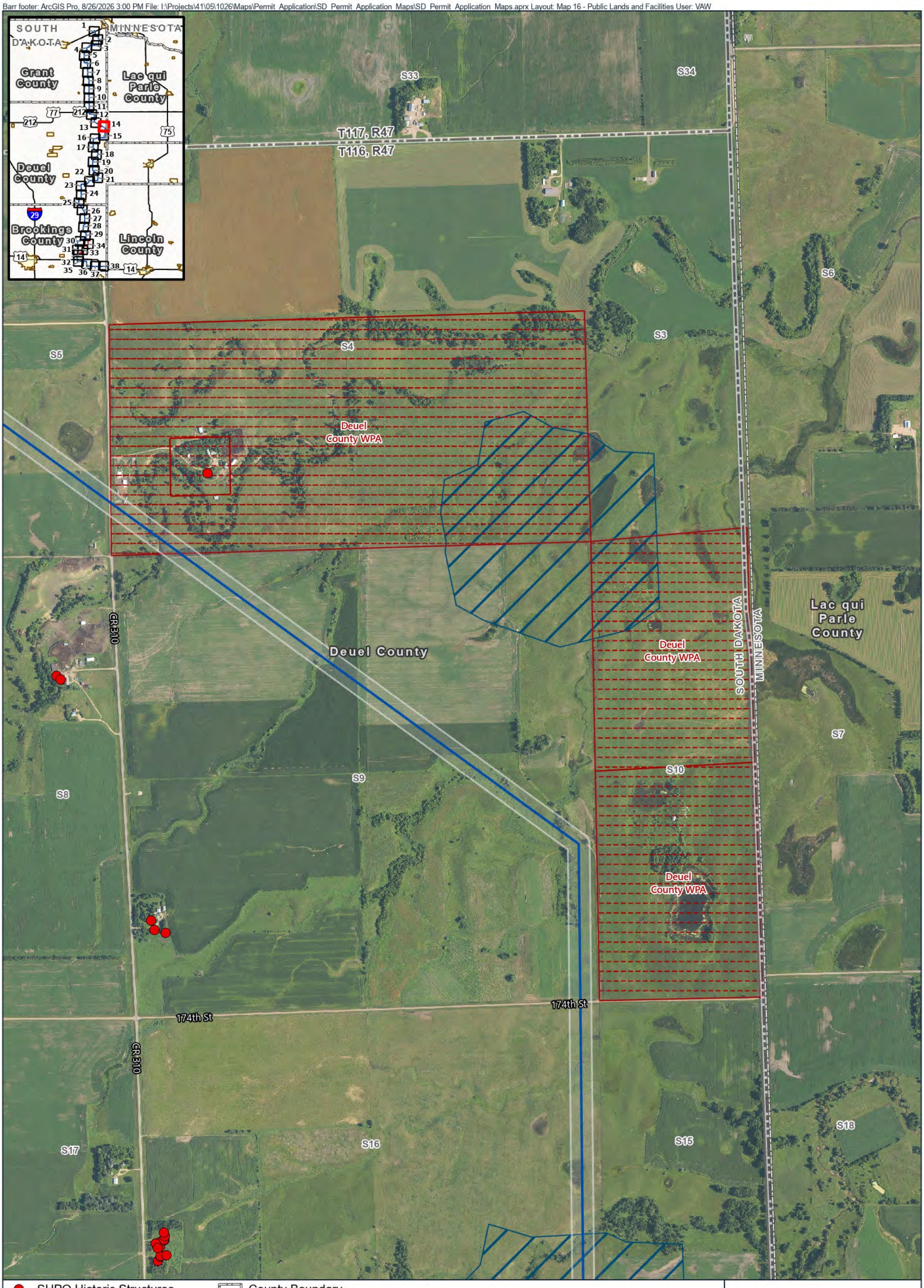
PUBLIC LANDS AND FACILITIES

South Dakota

MAP 16-13

PowerOn Midwest

Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 3

N

0 500 1,000

Feet

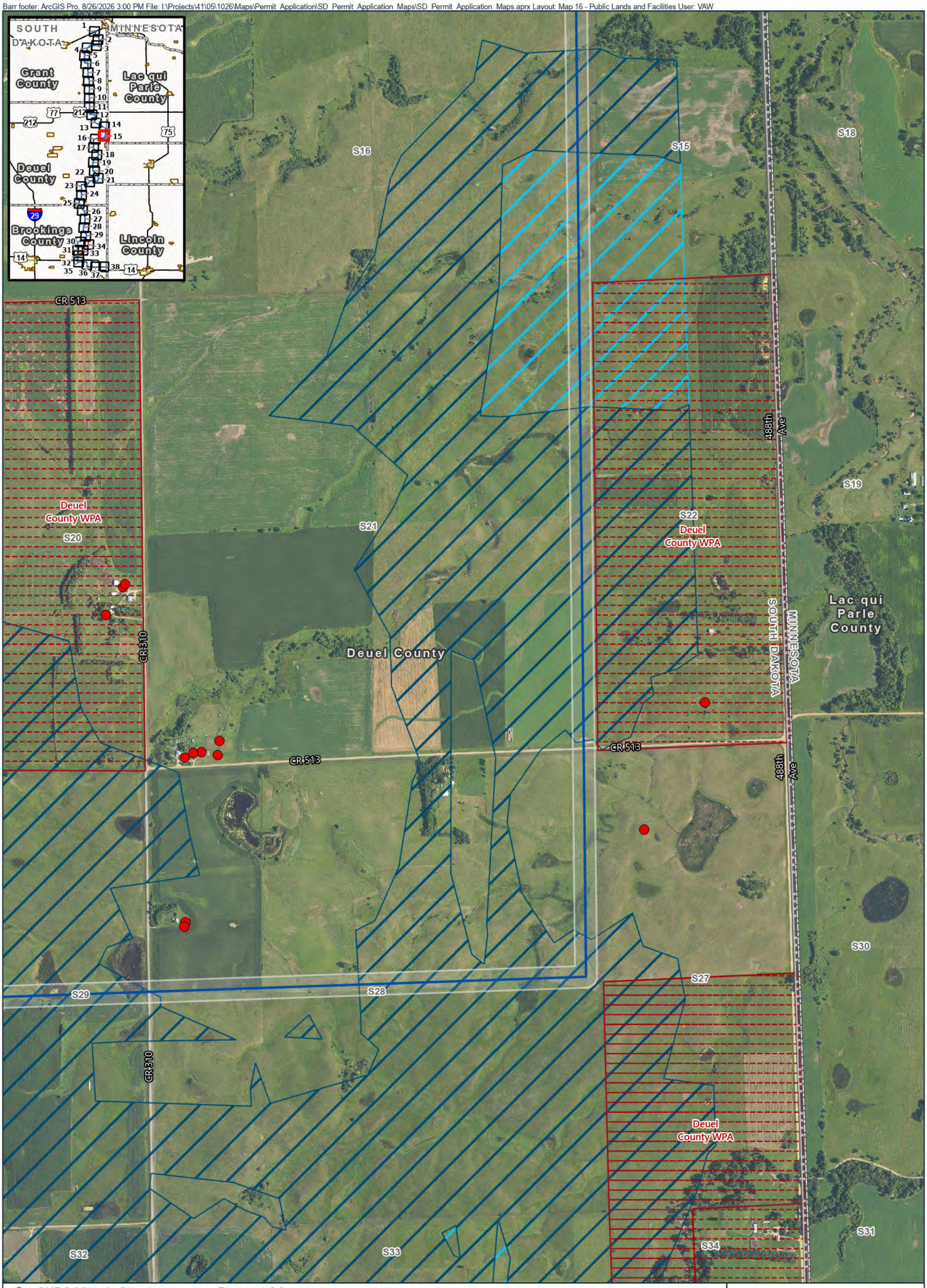
PUBLIC LANDS AND FACILITIES

South Dakota

MAP 16-14

PowerOn Midwest

Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 2

Tier 3

N

0 500 1,000

Feet

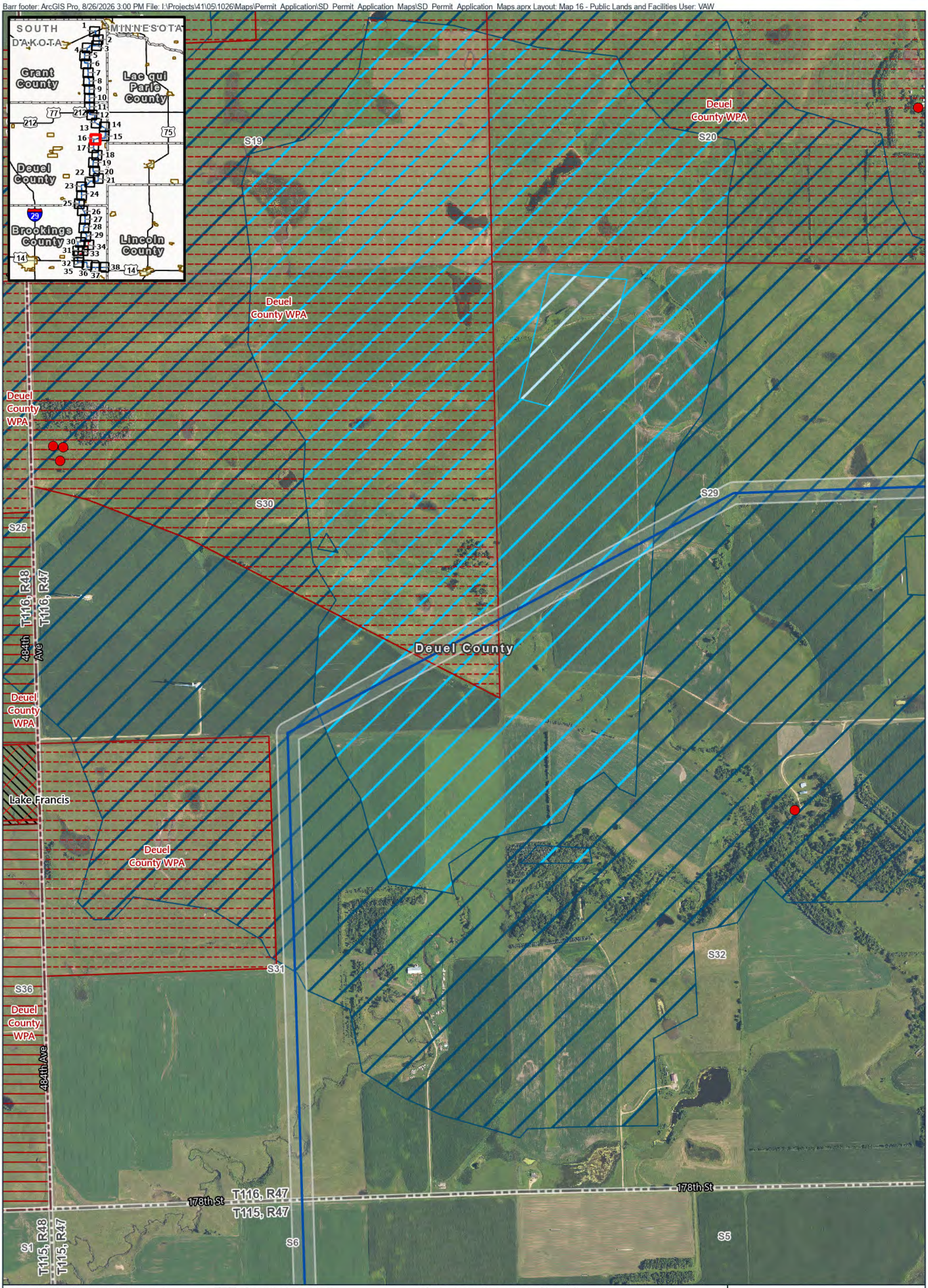
PUBLIC LANDS AND FACILITIES

South Dakota

MAP 16-15

PowerOn Midwest

Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Protected Areas

- State Land
- Local Land
- Game Production Area

Sharp-Tailed Grouse Habitat Prioritization

- Tier 1
- Tier 2
- Tier 3

N

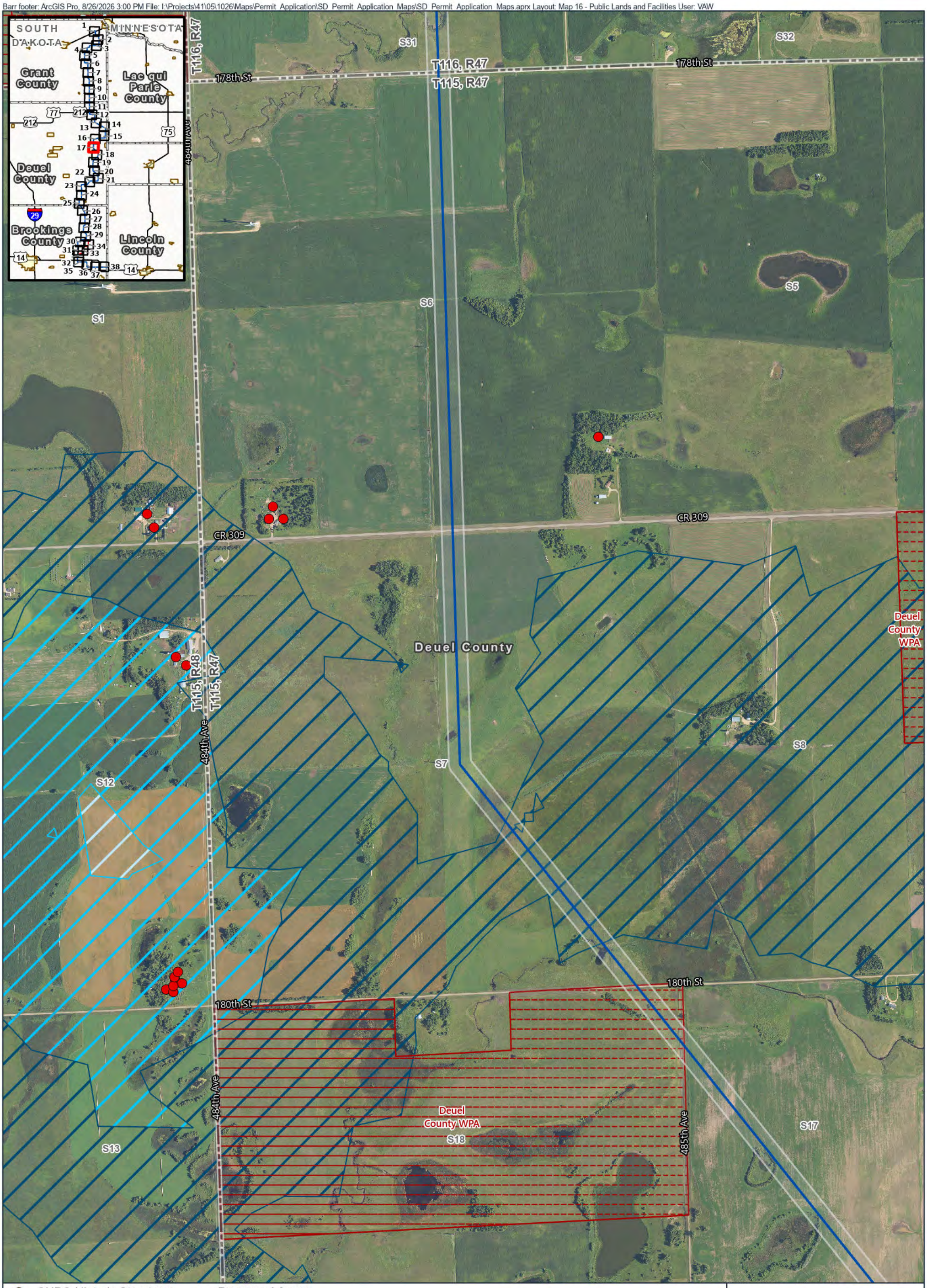
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Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-16

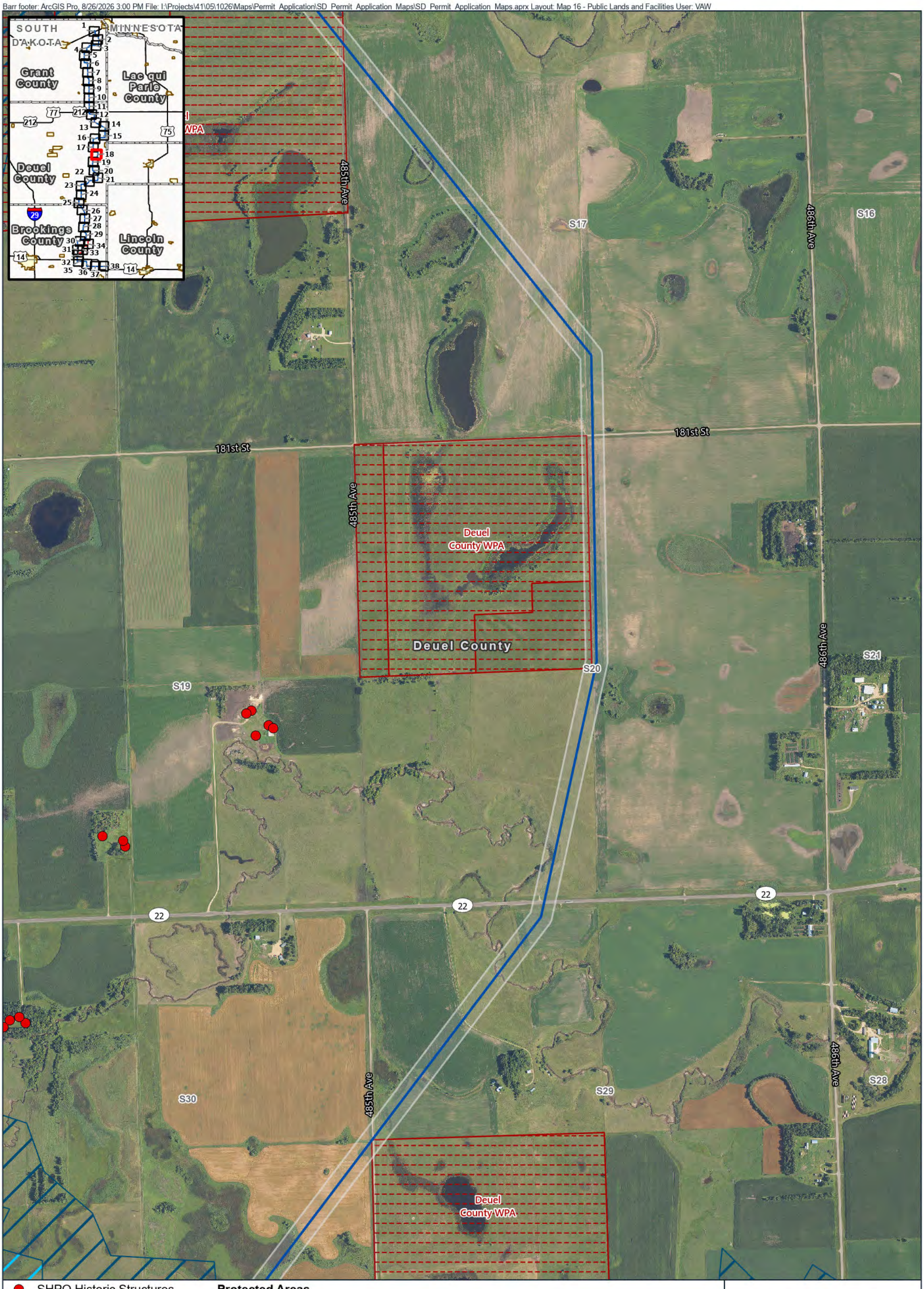
PowerOn Midwest
Big Stone South to Brookings



PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-17

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 2

Tier 3

0 500 1,000

Feet

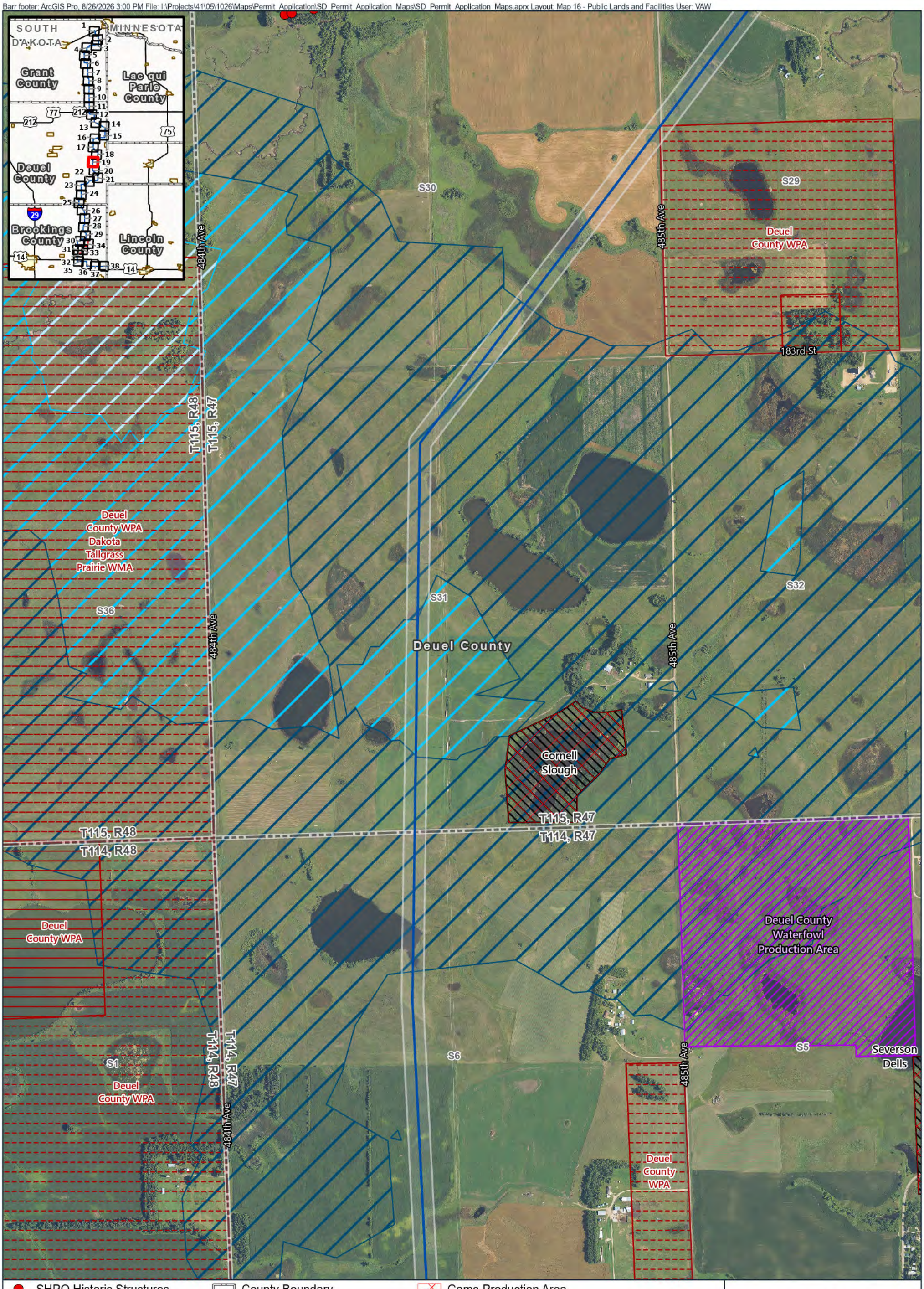
PUBLIC LANDS AND FACILITIES

South Dakota

MAP 16-18

PowerOn Midwest

Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Federal Land

State Land

Local Land

Game Production Area

Sharp-Tailed Grouse Habitat Prioritization

Tier 1

Tier 2

Tier 3

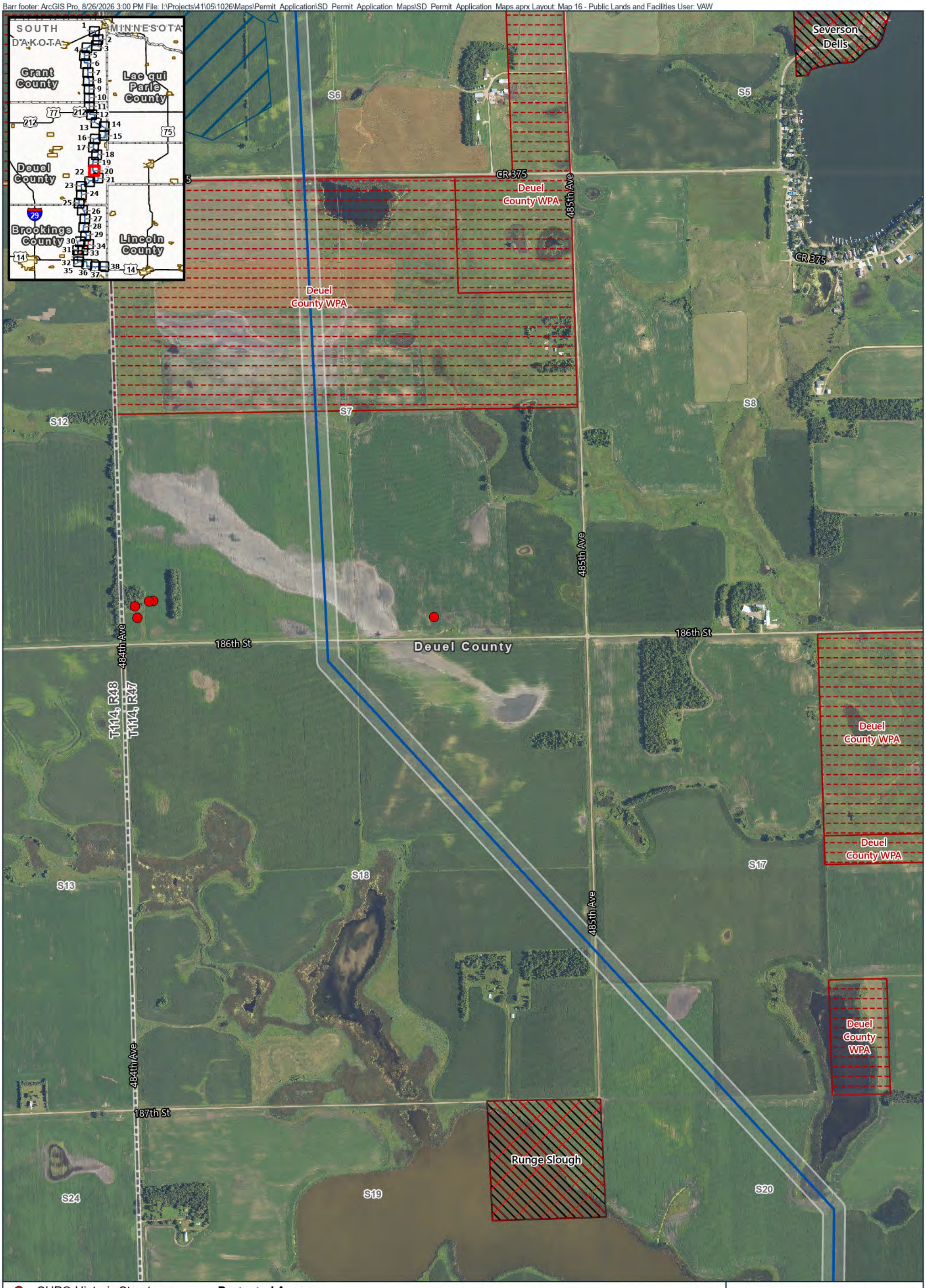
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Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-19

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Protected Areas

- State Land
- Local Land
- Game Production Area

Sharp-Tailed Grouse Habitat Prioritization

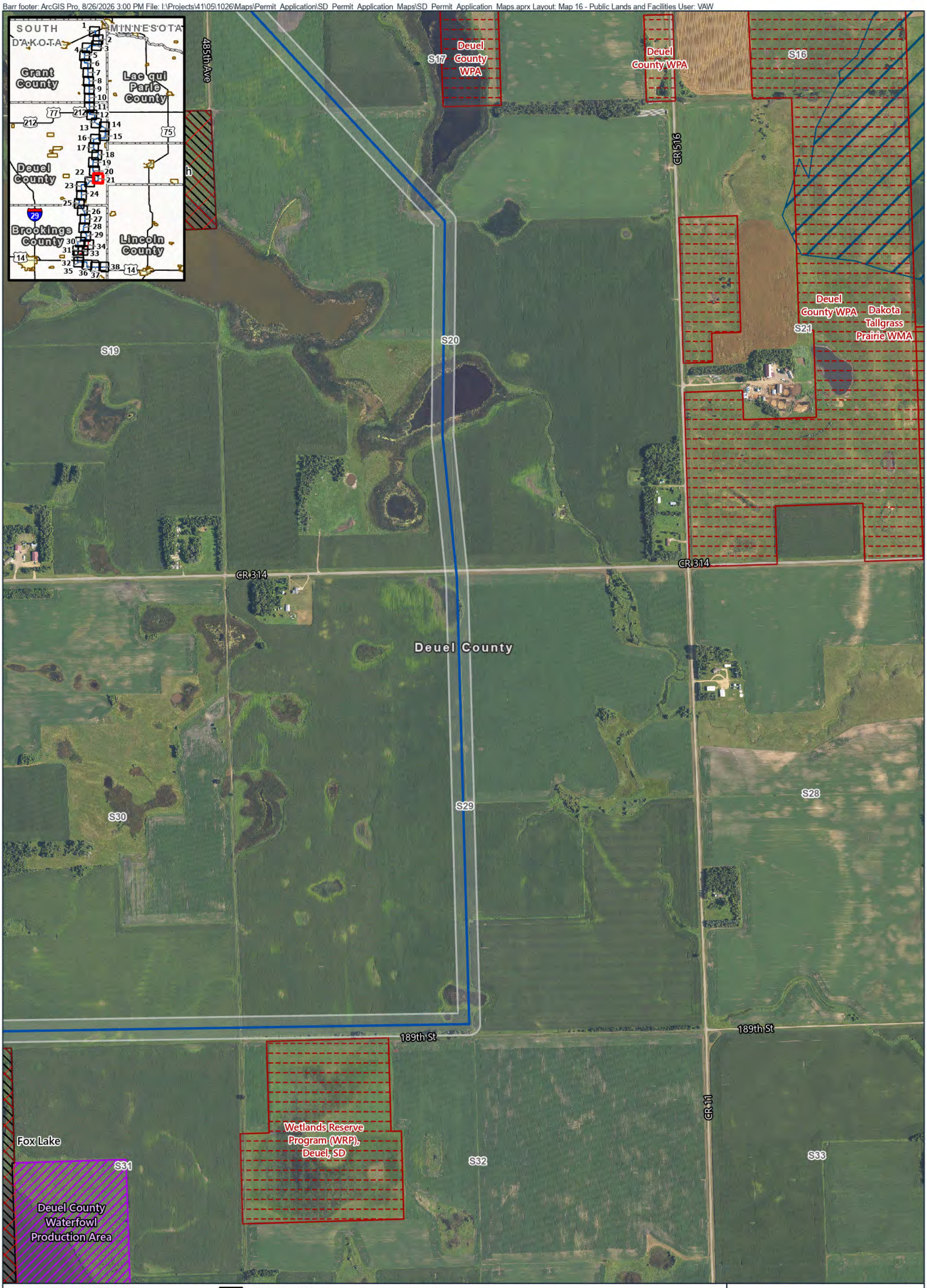
- Tier 3

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-20

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Federal Land

State Land

Local Land

Game Production Area

Sharp-Tailed Grouse Habitat Prioritization

Tier 3

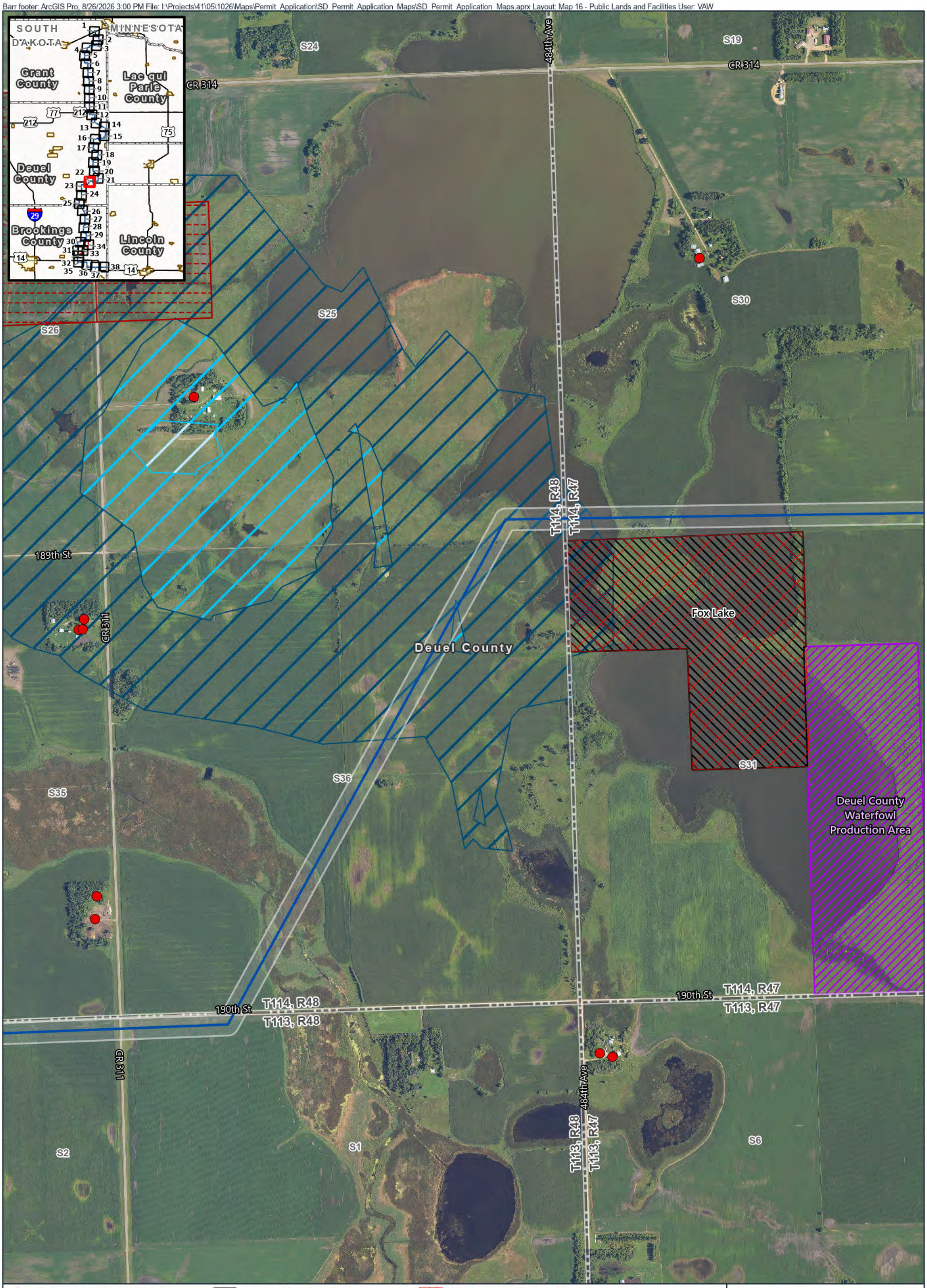
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Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-21

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Protected Areas

- Federal Land
- State Land
- Local Land
- Game Production Area

Sharp-Tailed Grouse Habitat Prioritization

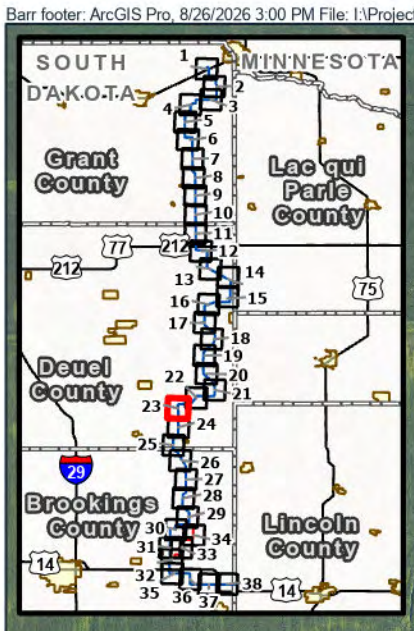
- Tier 1
- Tier 2
- Tier 3

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-22

PowerOn Midwest
Big Stone South to Brookings



Deuel County WPA

Deuel County WPA

S1
S2
S3
S10
S11
S34
S35
S36
482nd Ave
CR 311
190th St
191st St
T114, R48
T113, R48
Deuel County

SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 3

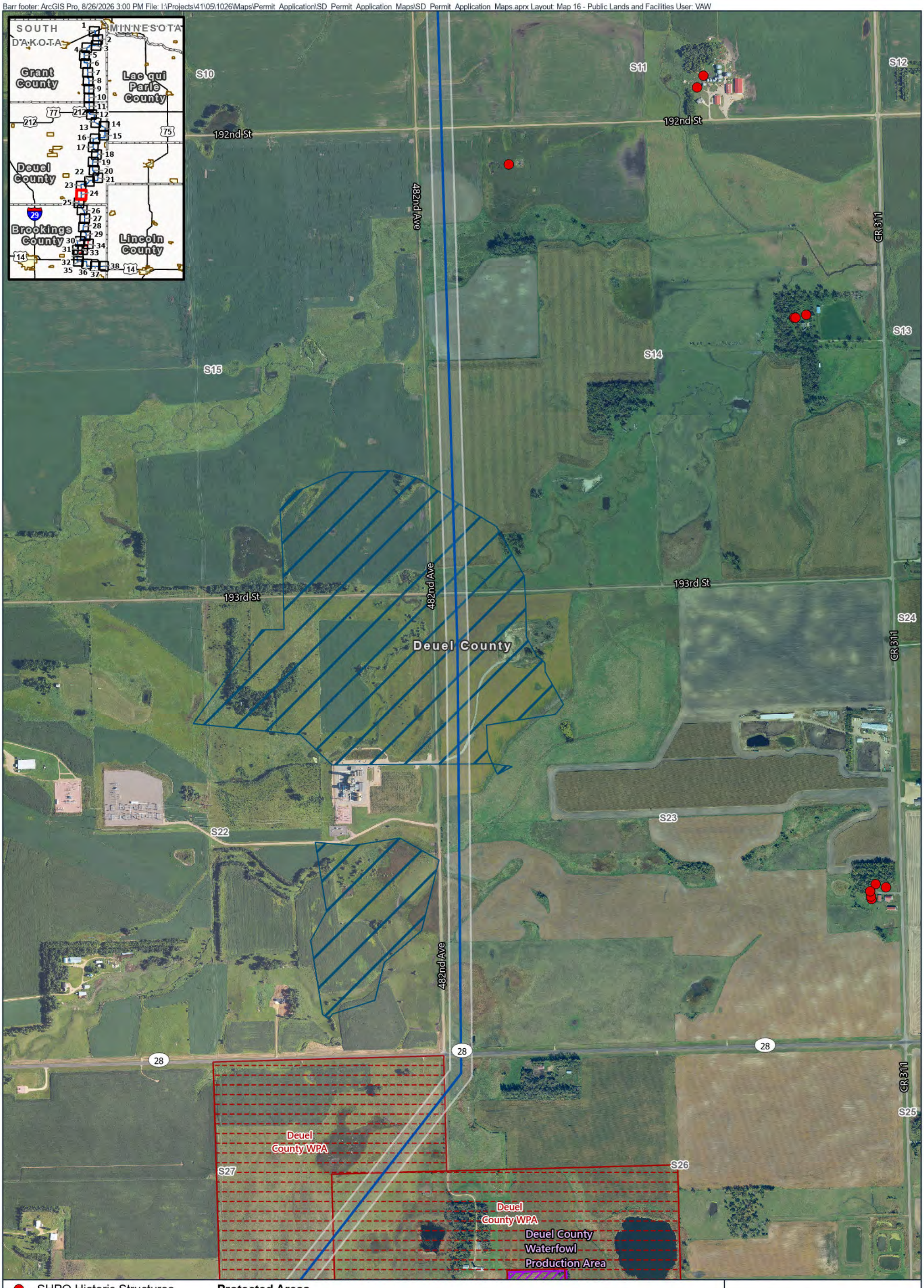
0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-23

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Federal Land

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 3

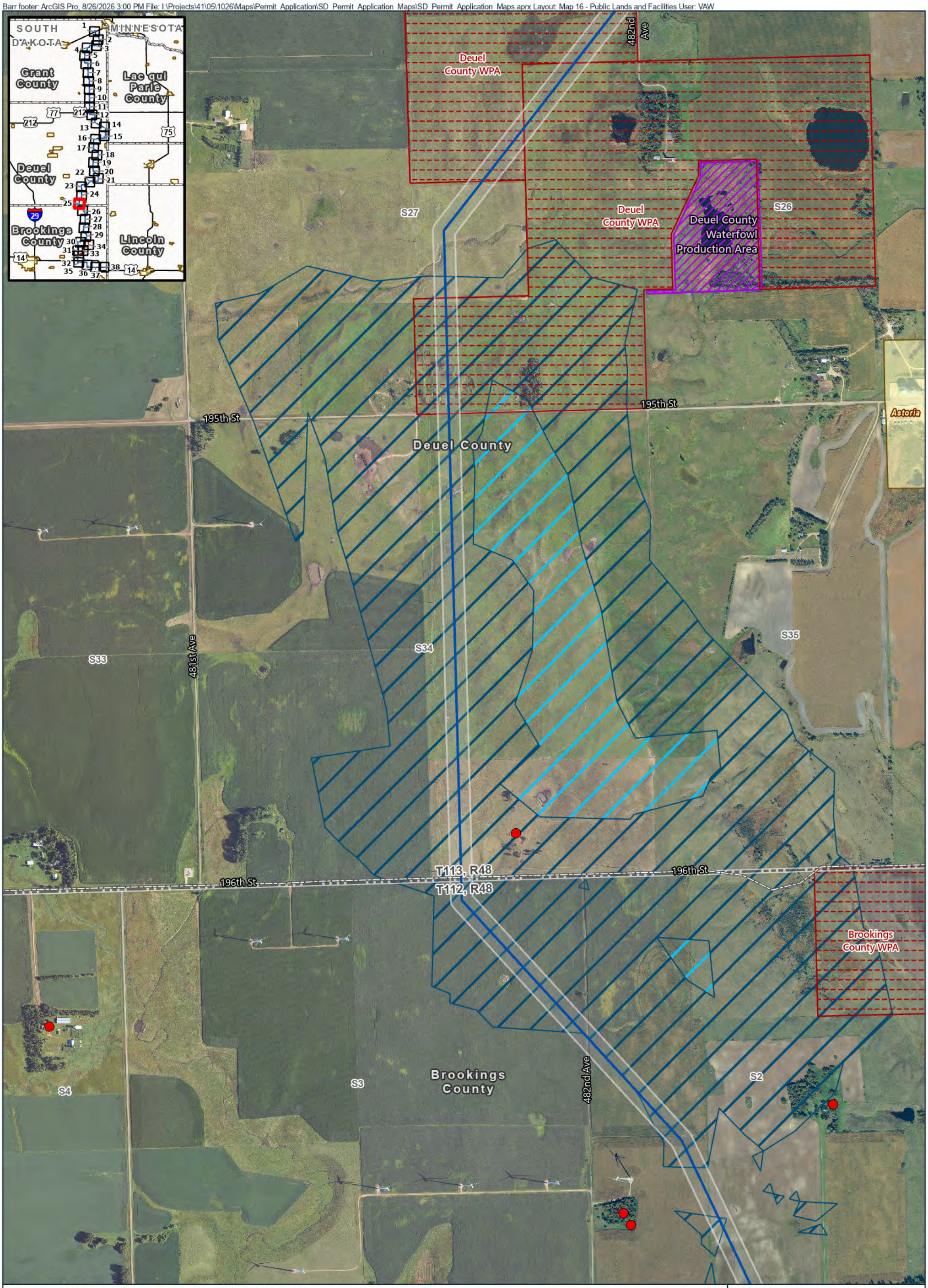
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Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-24

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Municipal Boundary
- Public Land Survey Township
- County Boundary

Protected Areas
- Federal Land
- Local Land

Sharp-Tailed Grouse Habitat Prioritization
- Tier 2
- Tier 3

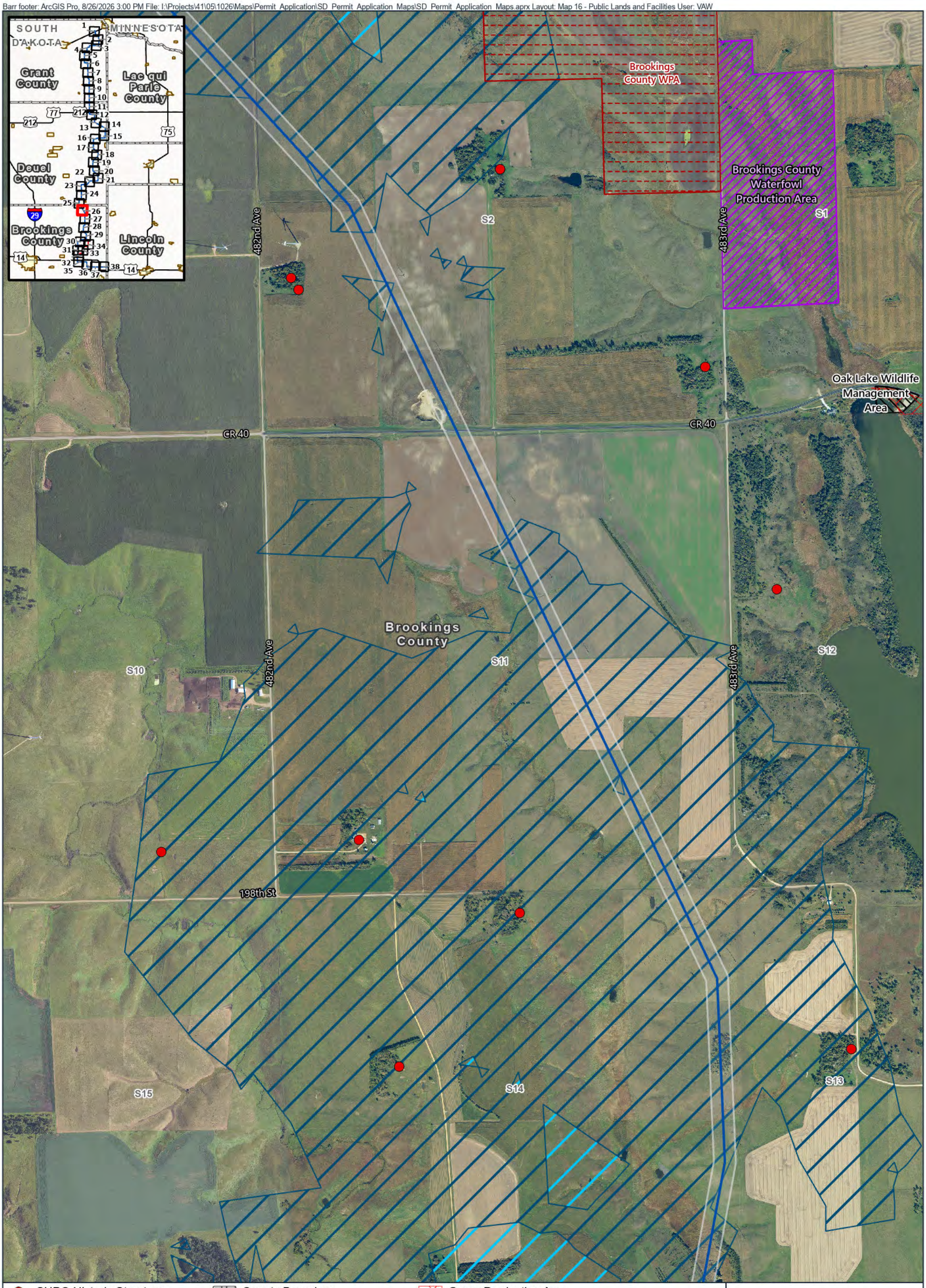
N

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-25

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Federal Land

State Land

Local Land

Game Production Area

Sharp-Tailed Grouse Habitat Prioritization

Tier 2

Tier 3

N

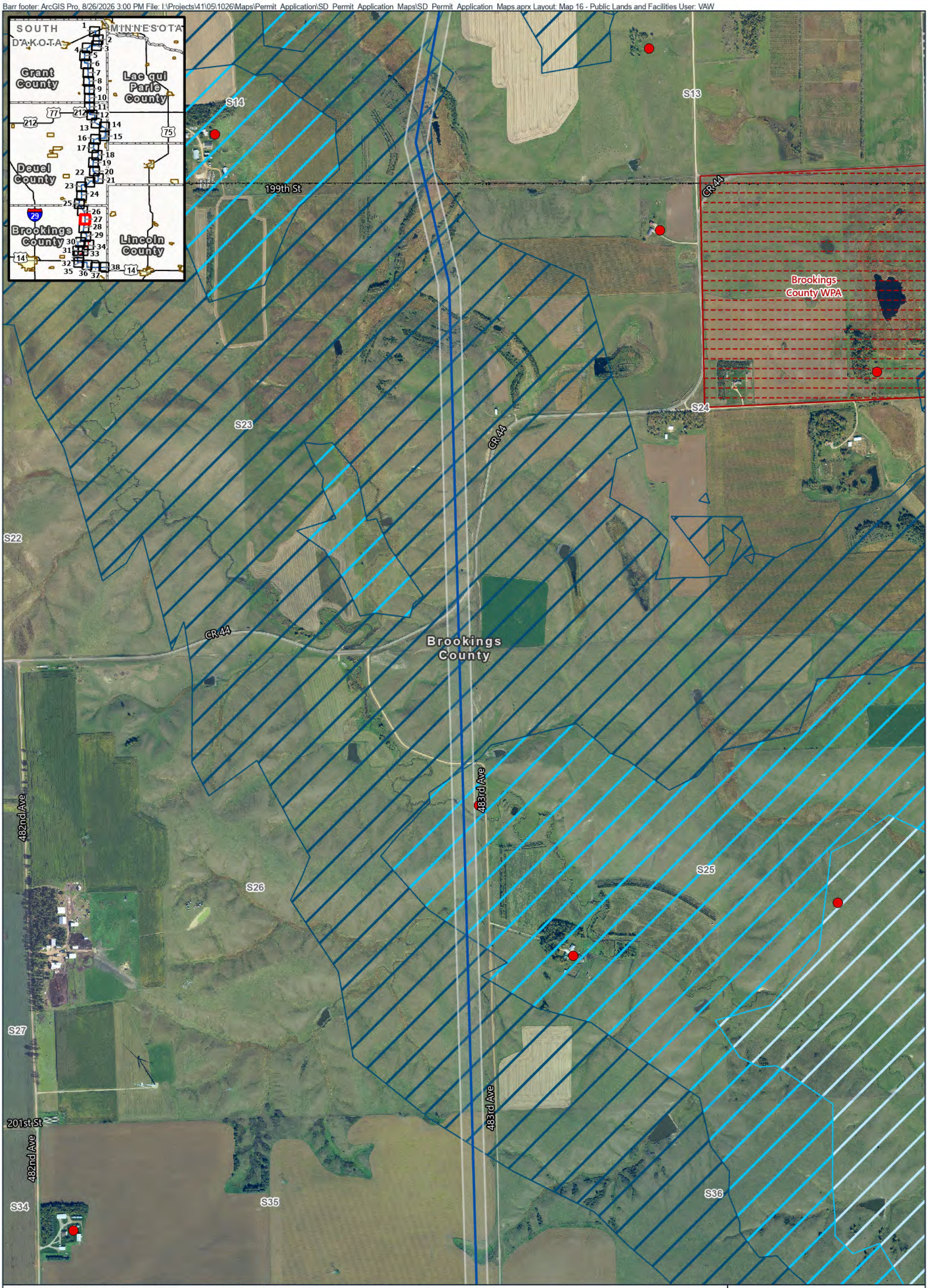
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Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-26

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 1

Tier 2

Tier 3

N

0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES

South Dakota

MAP 16-27

PowerOn Midwest

Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Sharp-Tailed Grouse Habitat Prioritization

Tier 1

Tier 2

Tier 3

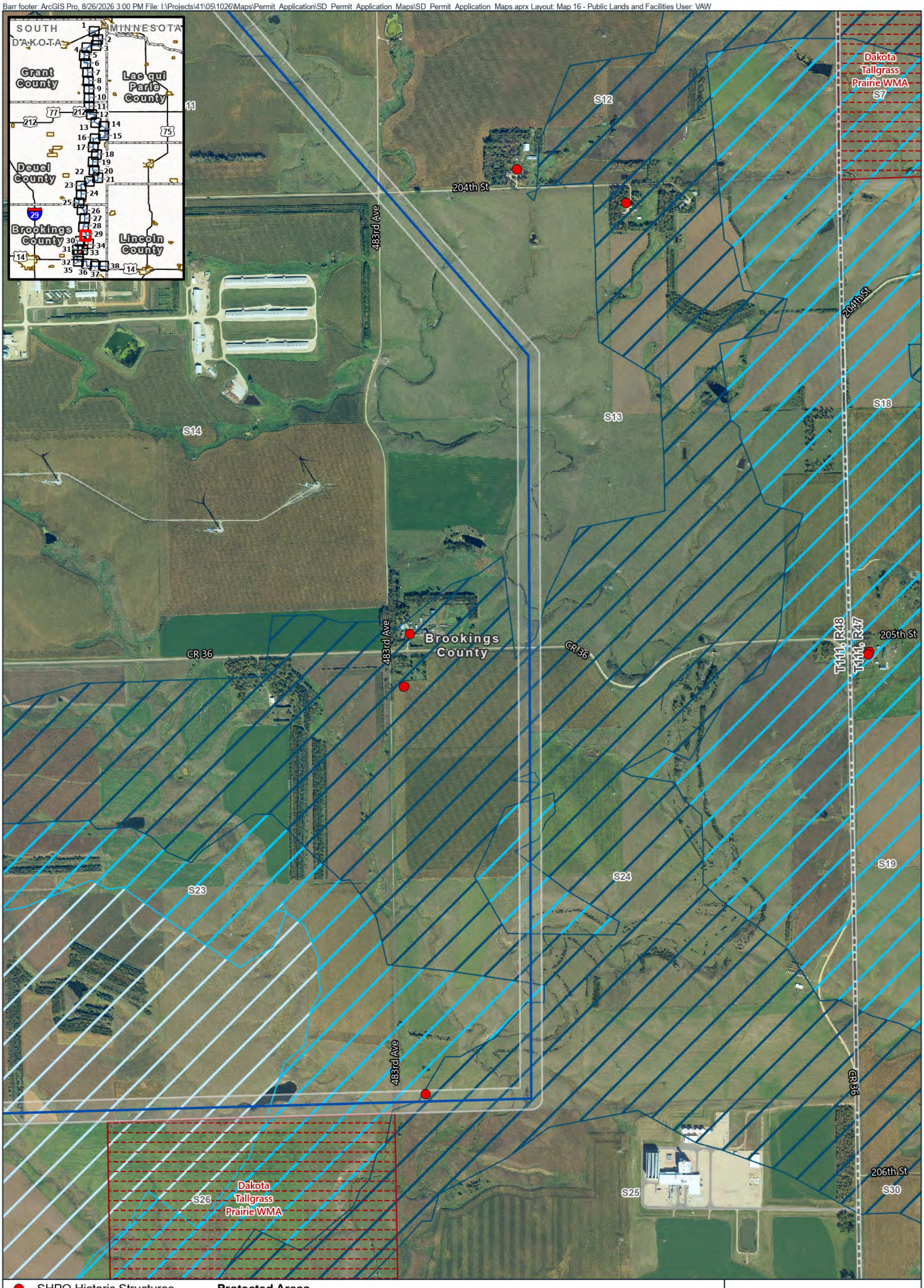
0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-28

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Protected Areas

- Local Land

Sharp-Tailed Grouse Habitat Prioritization

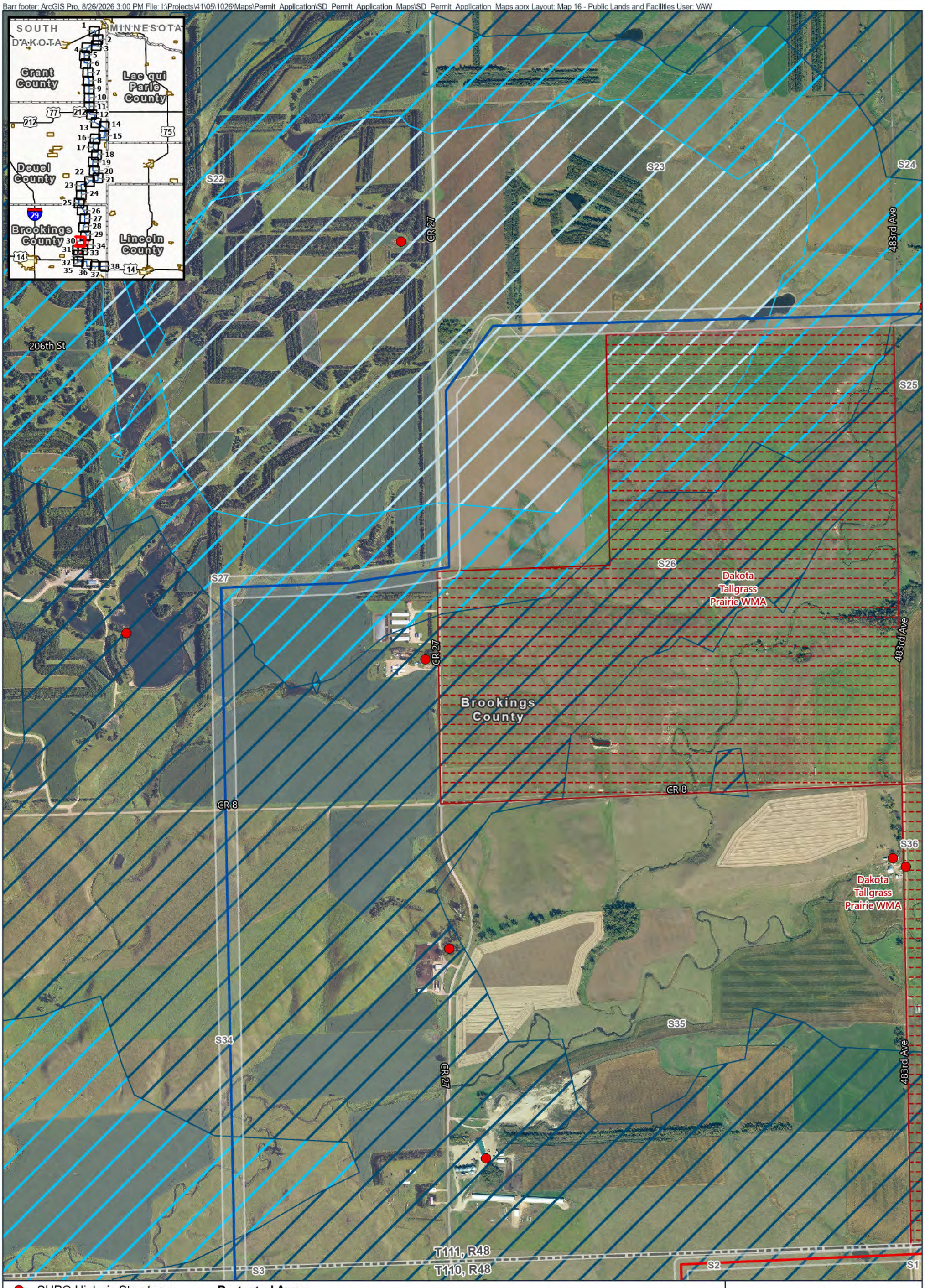
- Tier 1
- Tier 2
- Tier 3

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-29

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Public Land Survey Township
- County Boundary

Protected Areas

- Local Land

Sharp-Tailed Grouse Habitat Prioritization

- Tier 1
- Tier 2
- Tier 3

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-30

PowerOn Midwest
Big Stone South to Brookings



- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Public Land Survey Township
- County Boundary

Protected Areas

- Local Land

Sharp-Tailed Grouse Habitat Prioritization

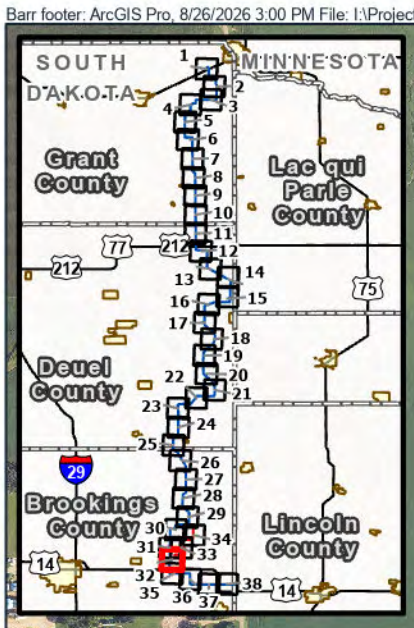
- Tier 2
- Tier 3

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-31

PowerOn Midwest
Big Stone South to Brookings



S10
S11
CR 27
210th St
Wetlands Reserve Program (WRP), Brookings, SD
S15
S14
S16
Brookings County 765 kV Substation Expansion Area
Brookings County
481st Ave
CR 34
S21
S22
S23
S27
S26

- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Public Land Survey Township
- County Boundary

Protected Areas

- Local Land

N

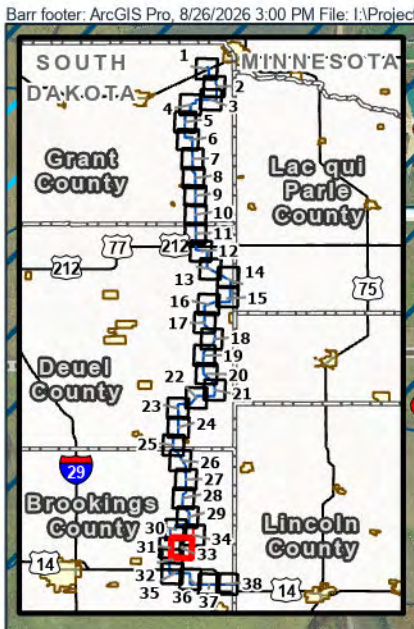
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Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-32

PowerOn Midwest
Big Stone South to Brookings



Dakota Tallgrass Prairie WMA

S35

S36

T111, R48

T110, R48

483rd Ave

S1

S2

S3

209th St

CR 27

Brookings County

S10

S11

S12

210th St

CR 34

S13

S14

S15

SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Substation Expansion Area

Public Land Survey Township

County Boundary

Protected Areas

Local Land

Sharp-Tailed Grouse Habitat Prioritization

Tier 2

Tier 3

N

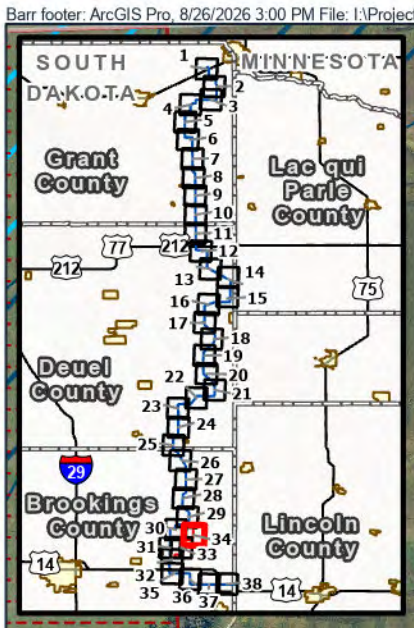
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PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

206th St

CR 36

S25

S30

T111, R48

T111, R47

CR 8

483rd Ave

Brookings County

484th Ave

Dakota Tallgrass Prairie WMA

S35

S36

S31

T111, R48

T110, R48

T111, R47

T110, R47

S2

S1

S6

T110, R48

T110, R47

Existing Substation
SHPO Historic Structures
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Public Land Survey Township
County Boundary

Protected Areas
Local Land

Sharp-Tailed Grouse Habitat Prioritization
Tier 2
Tier 3

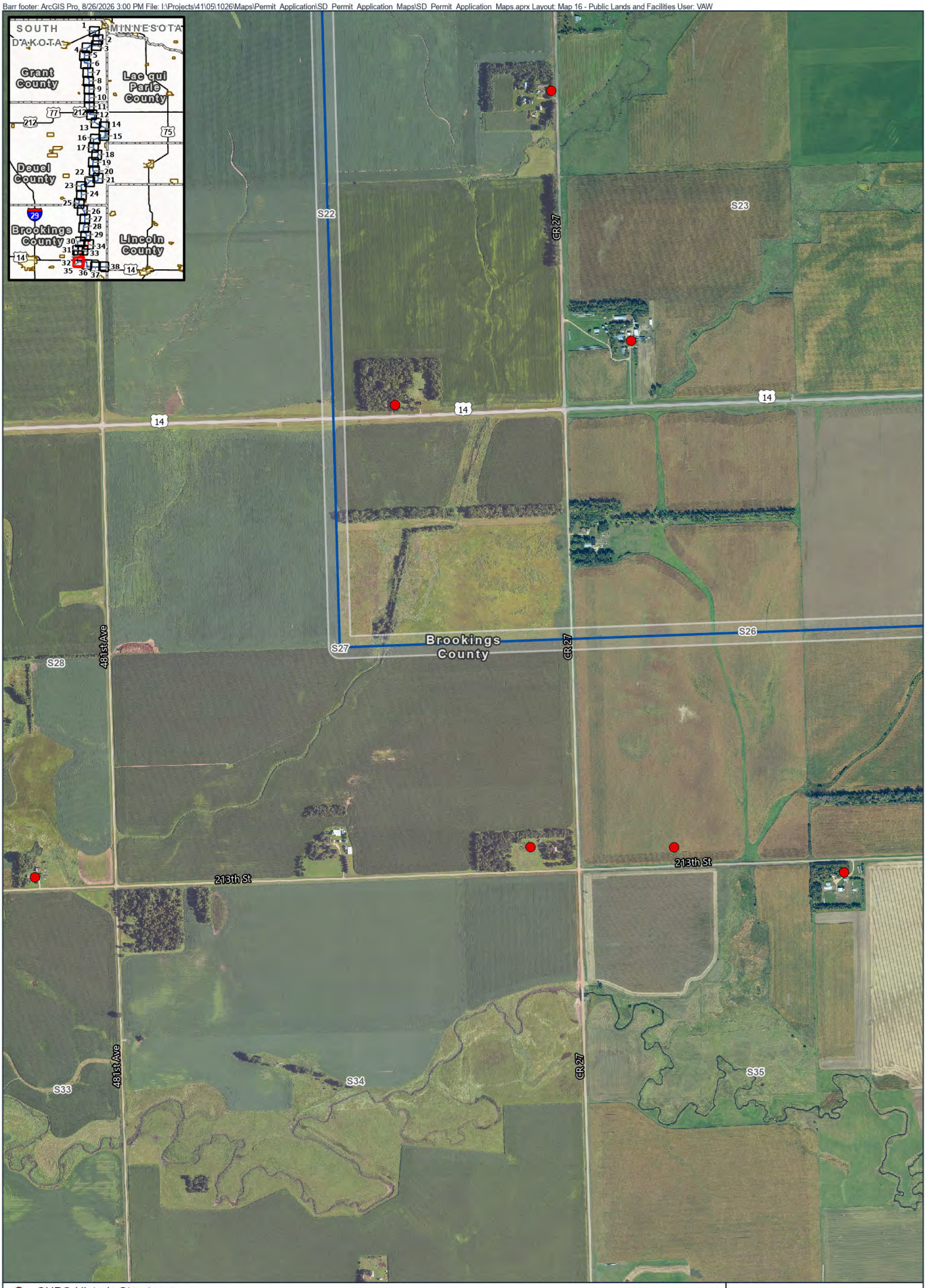
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0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-34

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

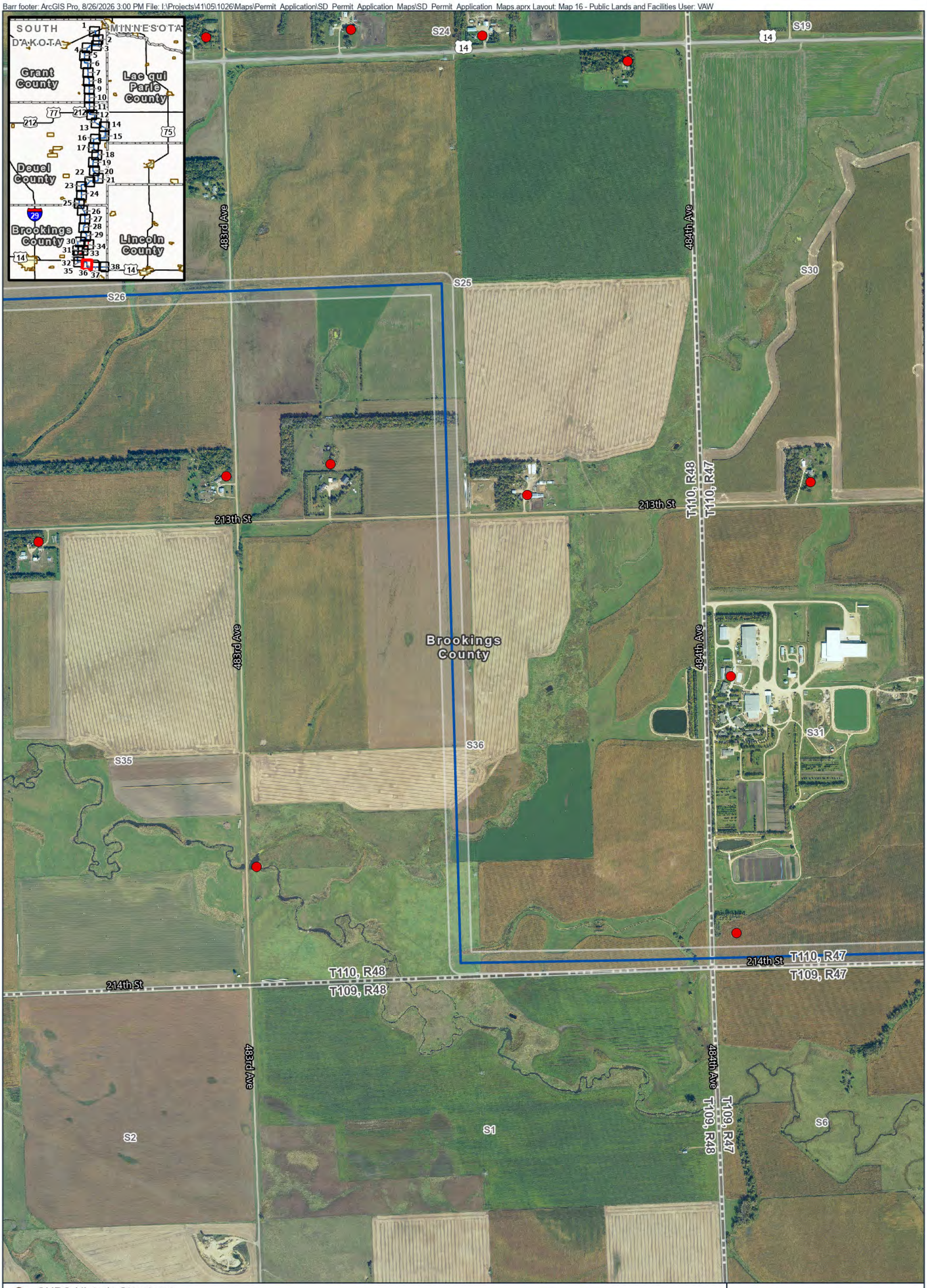
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PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-35

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

N

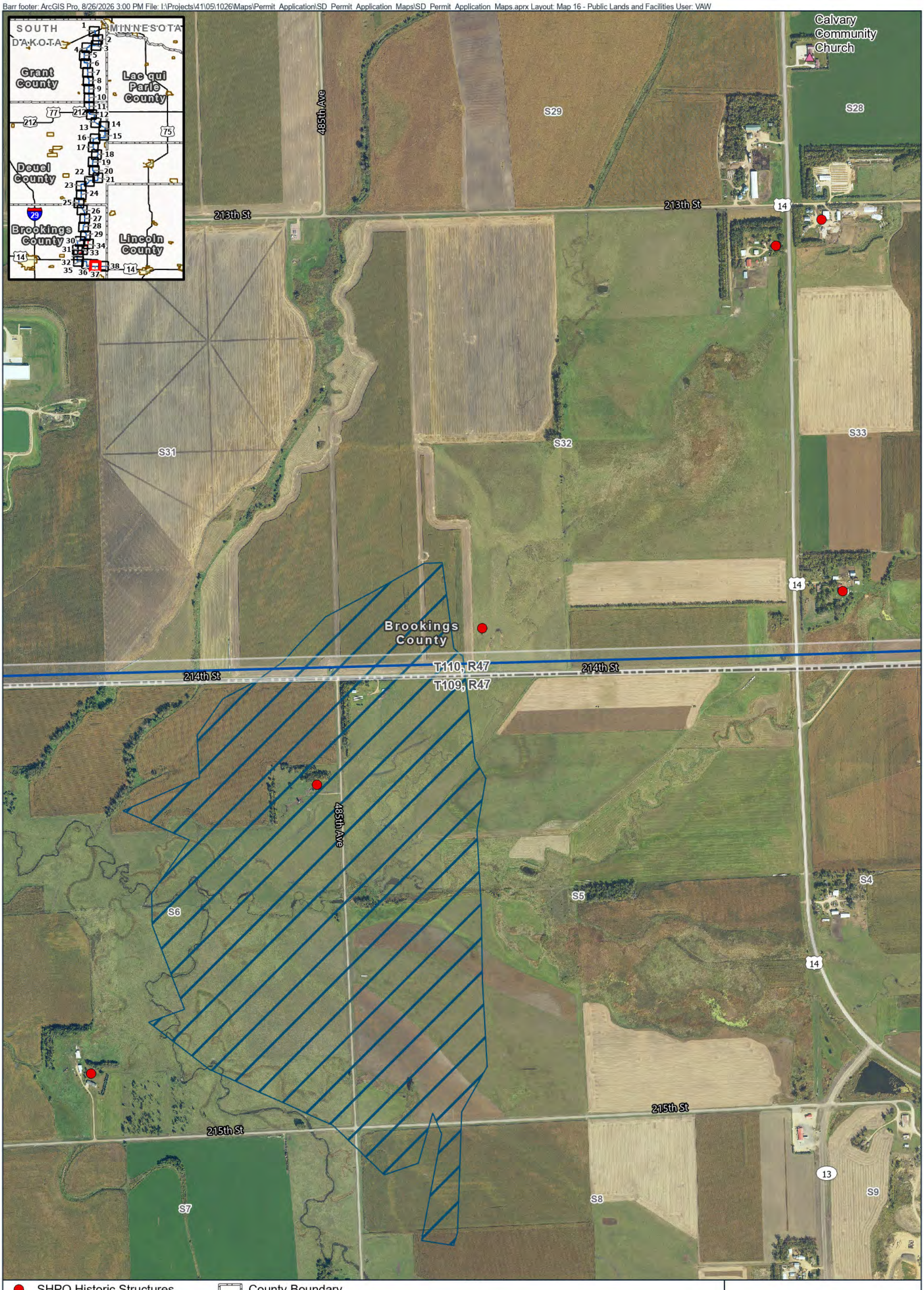
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PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-36

PowerOn Midwest
Big Stone South to Brookings



SHPO Historic Structures

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Public Land Survey Township

County Boundary

Church

Sharp-Tailed Grouse Habitat Prioritization

Tier 3

0 500 1,000

Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-37

PowerOn Midwest
Big Stone South to Brookings



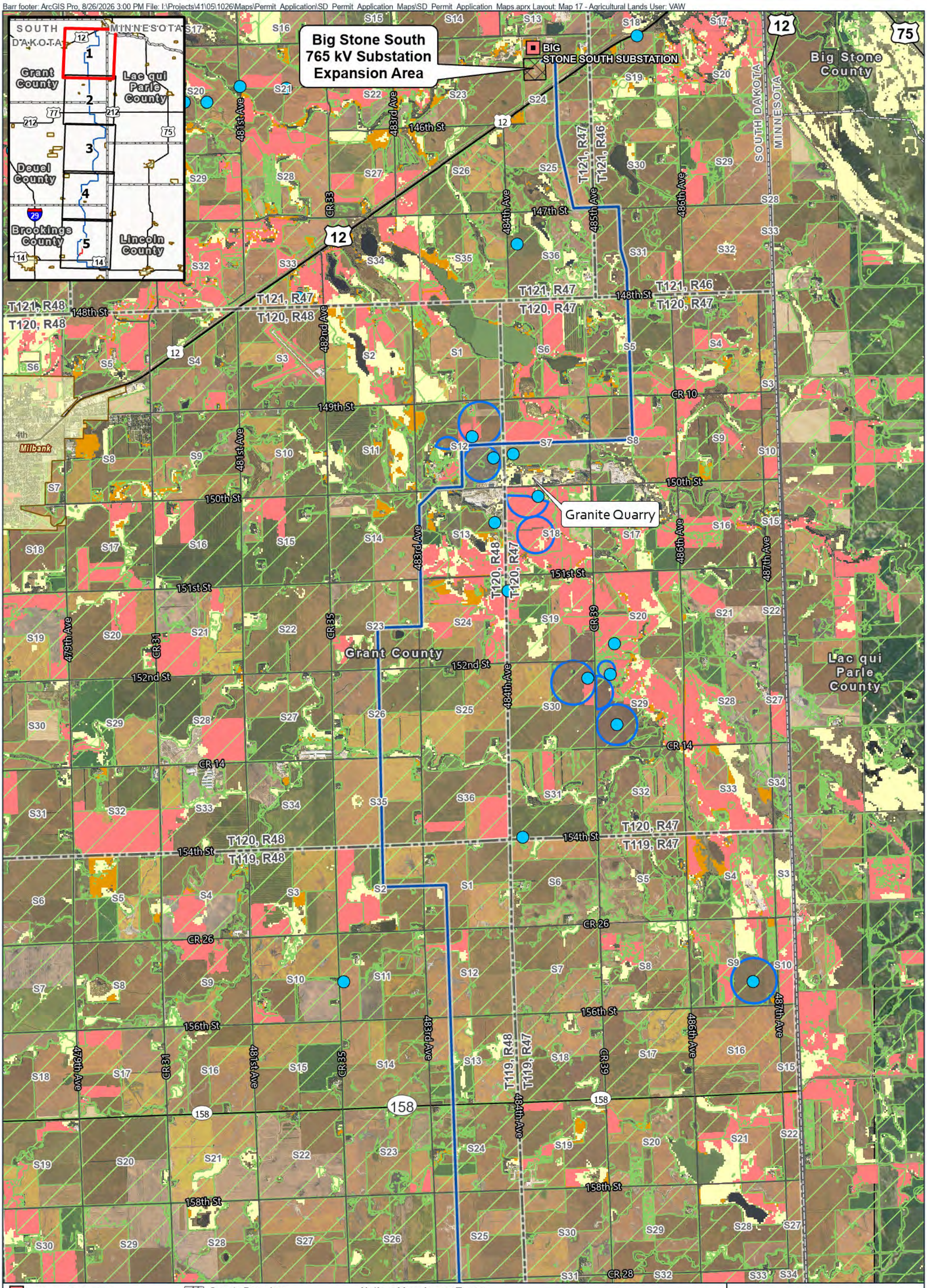
- SHPO Historic Structures
- Big Stone South to Brookings County to Minnesota Border 765 kV Route
- Right-of-Way
- Public Land Survey Township
- County Boundary
- Church

0 500 1,000
Feet

PUBLIC LANDS AND FACILITIES
South Dakota

MAP 16-38

PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
Substation Expansion Area
Municipal Boundary
Public Land Survey Township

County Boundary
Centerpivot Irrigation
Row or Non-Row Crops in Rotation

Rangelands Dataset (USDA)
Rangeland
Pasture

National Landcover Types
Hay/Pasture

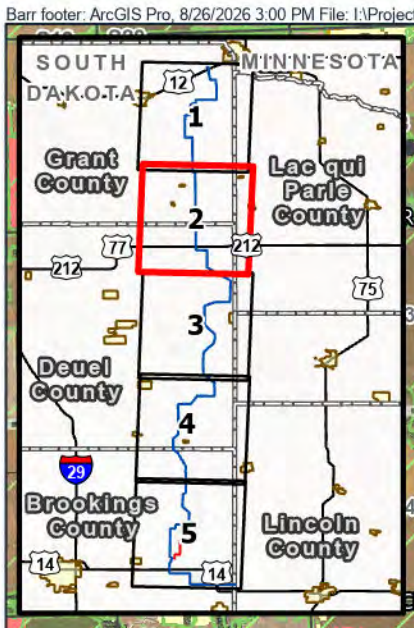
Municipal Water RIghts
Irrigation

0 1 2
Miles

AGRICULTURAL LANDS
South Dakota

MAP 17-1

PowerOn Midwest
Big Stone South to Brookings



Albee
Revillo
Grant County
Lac qui Parle County
Deuel County
SOUTH DAKOTA
MINNESOTA
T119, R48
T119, R47
T118, R48
T118, R47
T117, R48
T117, R47
T116, R48
T116, R47
160th St
162nd St
163rd St
165th St
166th St
167th St
168th St
170th St
171st St
172nd St
CR 28
CR 18
CR 35
CR 39
CR 31
CR 290
CR 10
CR 513
CR 6
CR 310
481st Ave
483rd Ave
484th Ave
486th Ave
487th Ave
479th Ave
480th Ave
485th Ave
20
40
212
101

Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Row or Non-Row Crops in Rotation

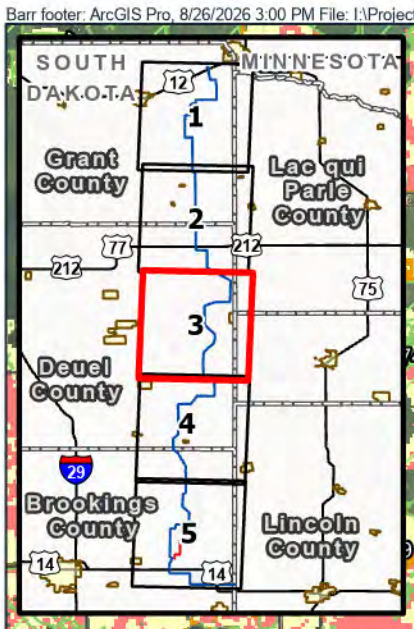
Rangelands Dataset (USDA)
Rangeland
Pasture
National Landcover Types
Hay/Pasture
Municipal Water RIghts
Municipal

0 1 2
Miles

AGRICULTURAL LANDS
South Dakota

MAP 17-2

PowerOn Midwest
Big Stone South to Brookings



Existing Substation
Big Stone South to Brookings 765 kV Route
Right-of-Way
Municipal Boundary
Public Land Survey Township
County Boundary
Row or Non-Row Crops in Rotation

Rangelands Dataset (USDA)
Rangeland
Pasture

National Landcover Types
Hay/Pasture

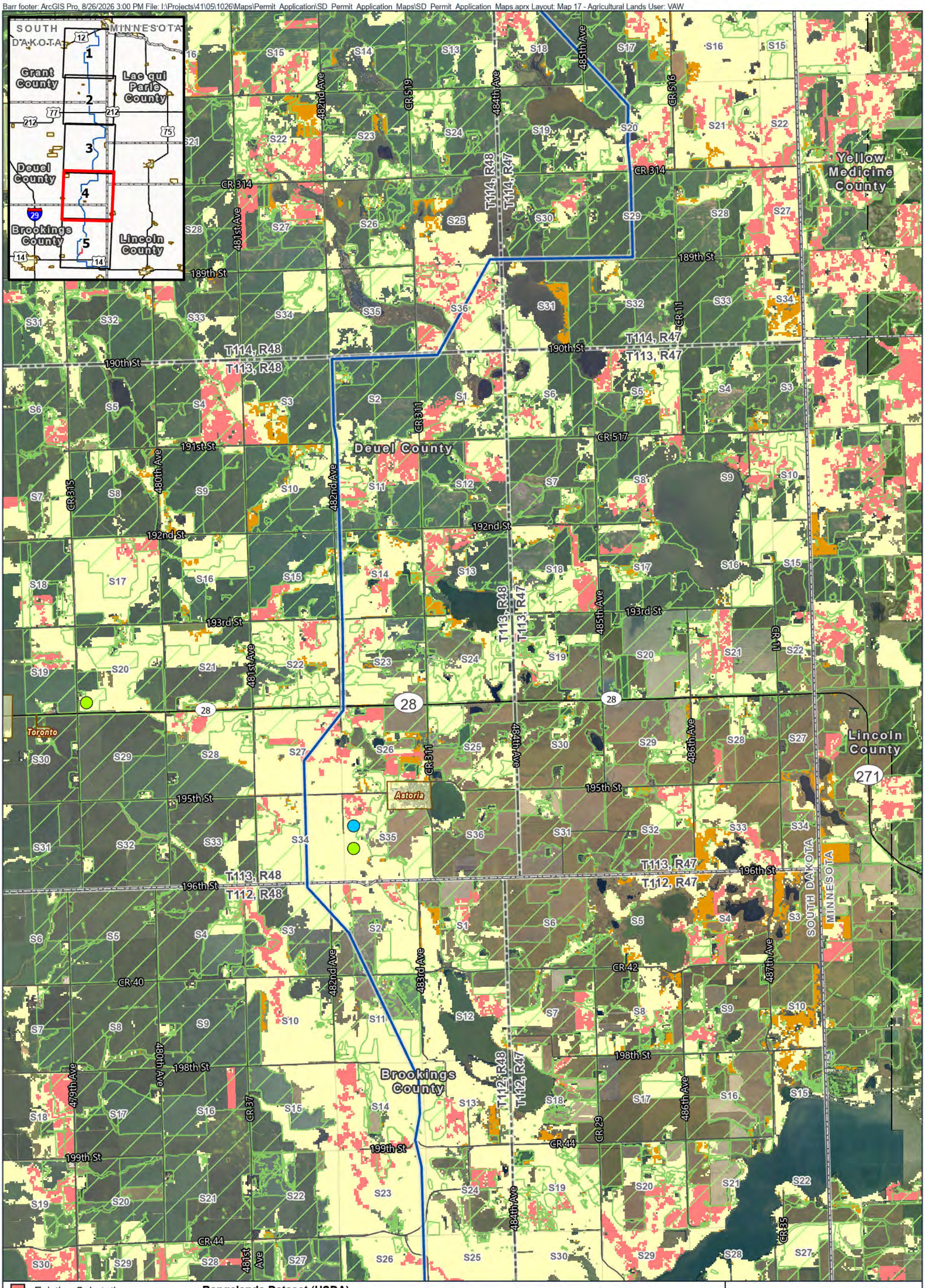
Municipal Water RIghts
Municipal
Irrigation

0 1 2
Miles

AGRICULTURAL LANDS
South Dakota

MAP 17-3

PowerOn Midwest
Big Stone South to Brookings



Existing Substation

Big Stone South to Brookings 765 kV Route

Right-of-Way

Municipal Boundary

Public Land Survey Township

County Boundary

Row or Non-Row Crops in Rotation

Rangelands Dataset (USDA)

Rangeland

Pasture

National Landcover Types

Hay/Pasture

Municipal Water RIghts

Municipal

Irrigation

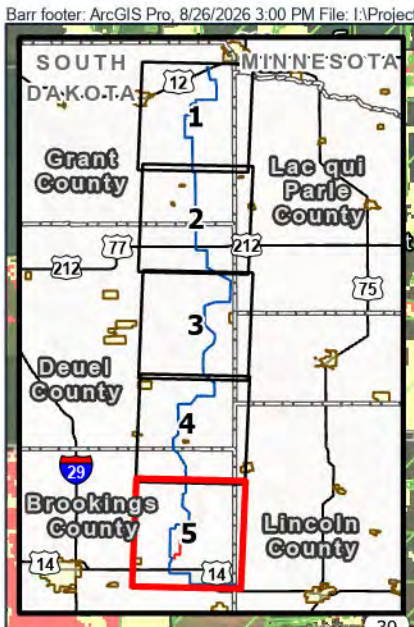
0 1 2

Miles

AGRICULTURAL LANDS
South Dakota

MAP 17-4

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

Brookings County 765 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

Existing Substation
Big Stone South to Brookings 765 kV Route
Brookings to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Municipal Boundary
Public Land Survey Township
County Boundary
Centerpivot Irrigation
Row or Non-Row Crops in Rotation

Rangelands Dataset (USDA)
Rangeland
Pasture

National Landcover Types
Hay/Pasture

Municipal Water RIghts
Irrigation

0 1 2
Miles

AGRICULTURAL LANDS
South Dakota

MAP 17-5

PowerOn Midwest
Big Stone South to Brookings



Existing Substation

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Substation Expansion Area

Railroads

Public Land Survey Township

County Boundary

N

0 500 1,000

Feet

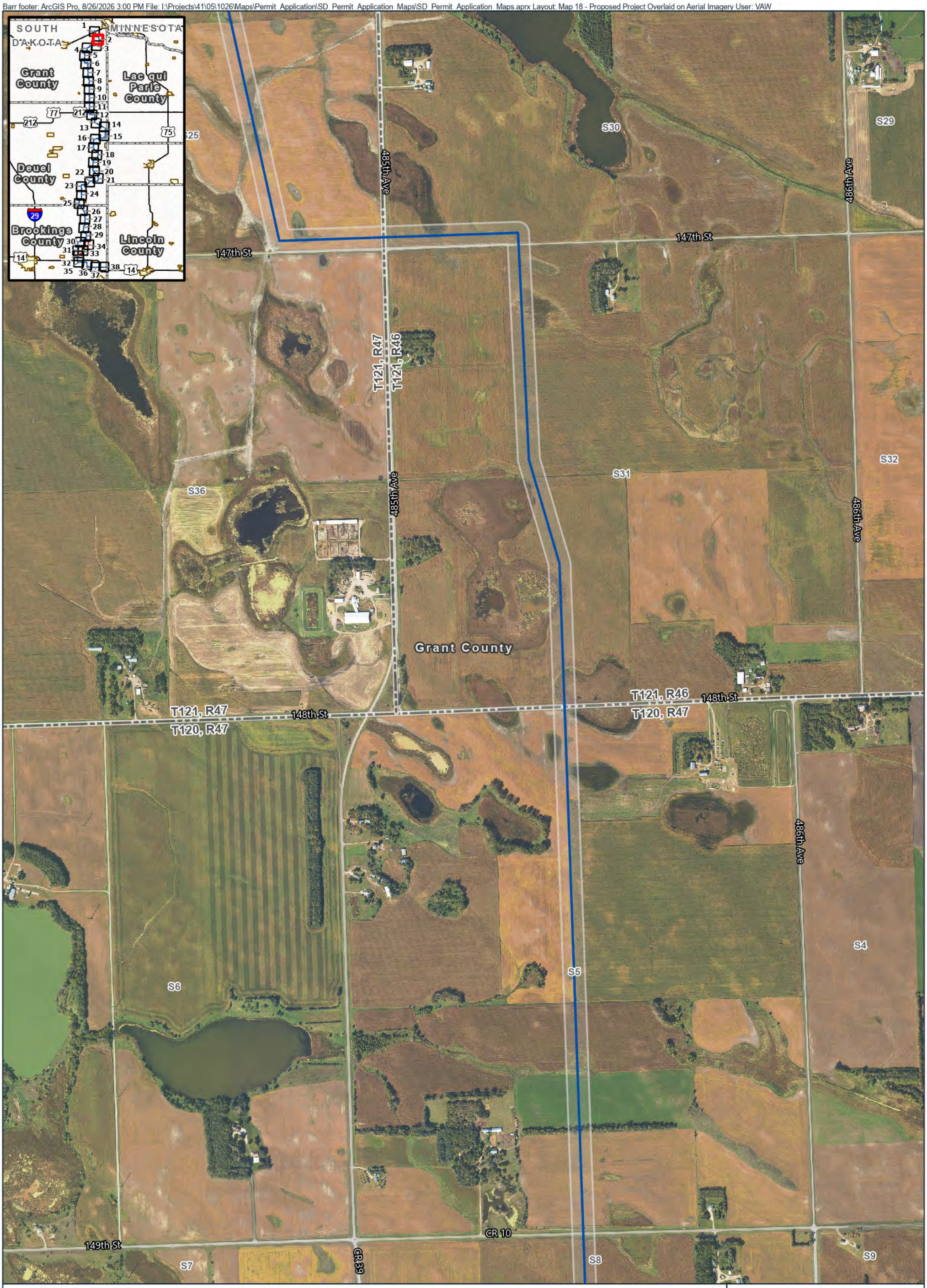
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-1

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

N

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-2

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

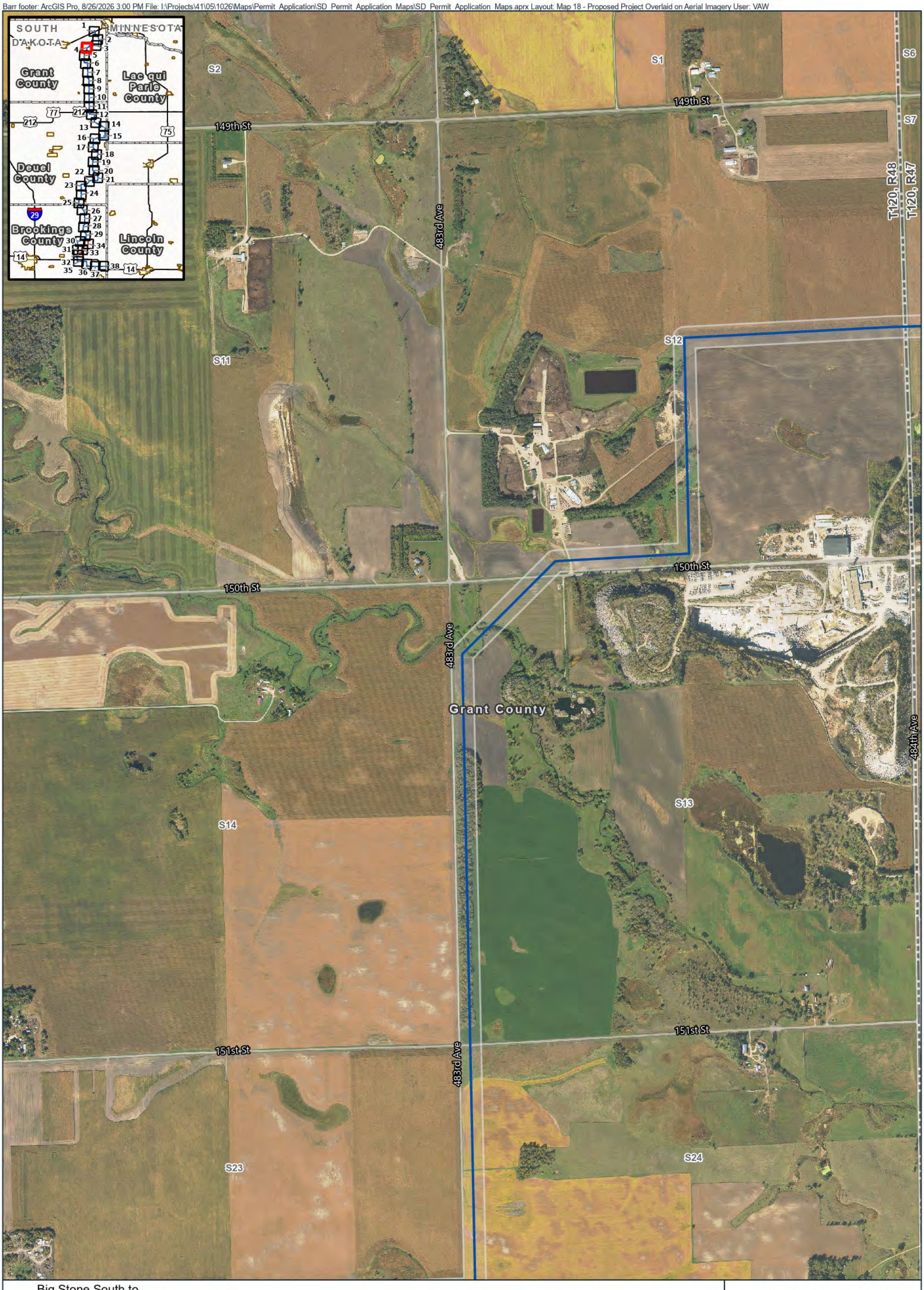
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-3

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

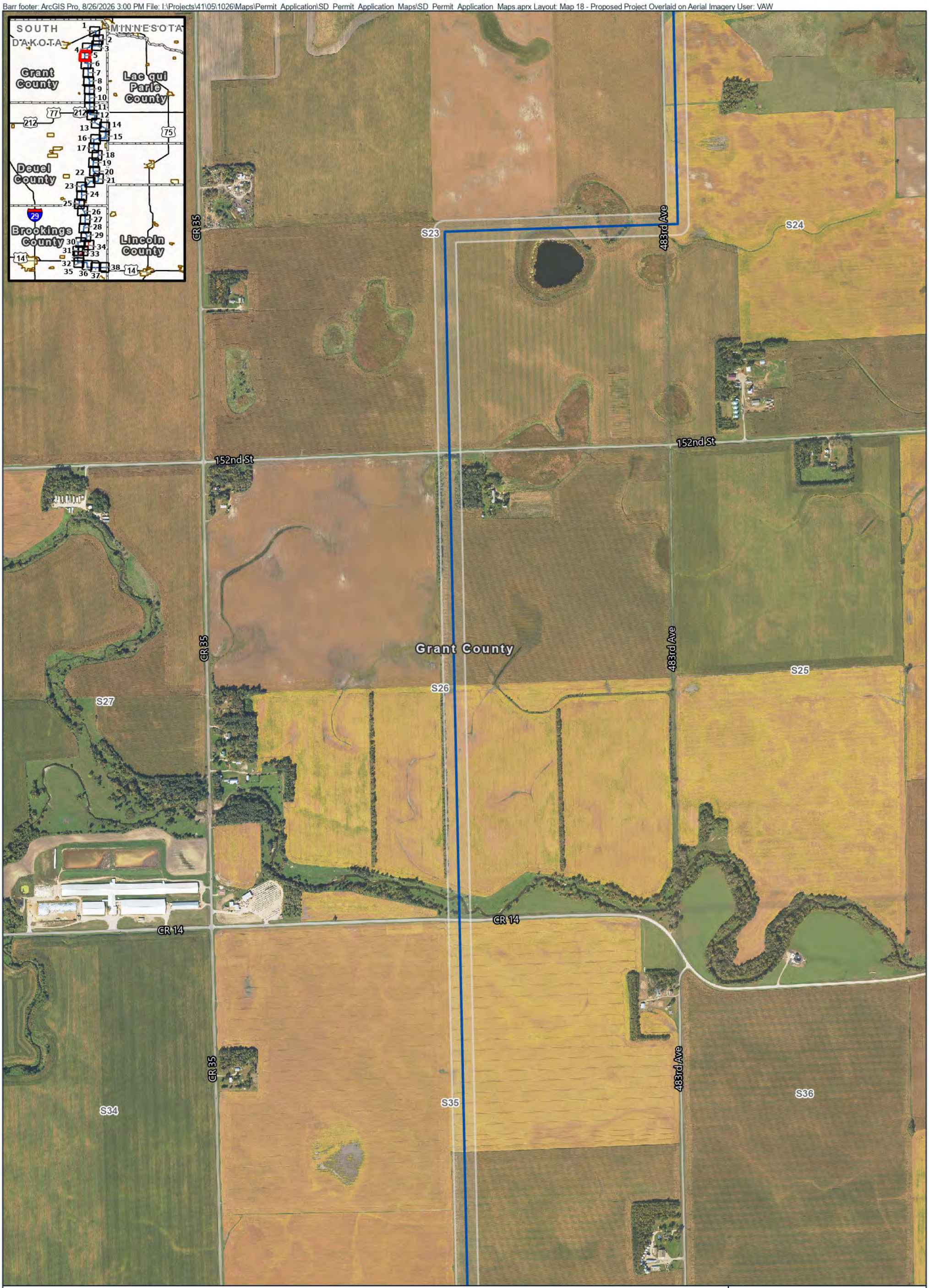
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-4

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

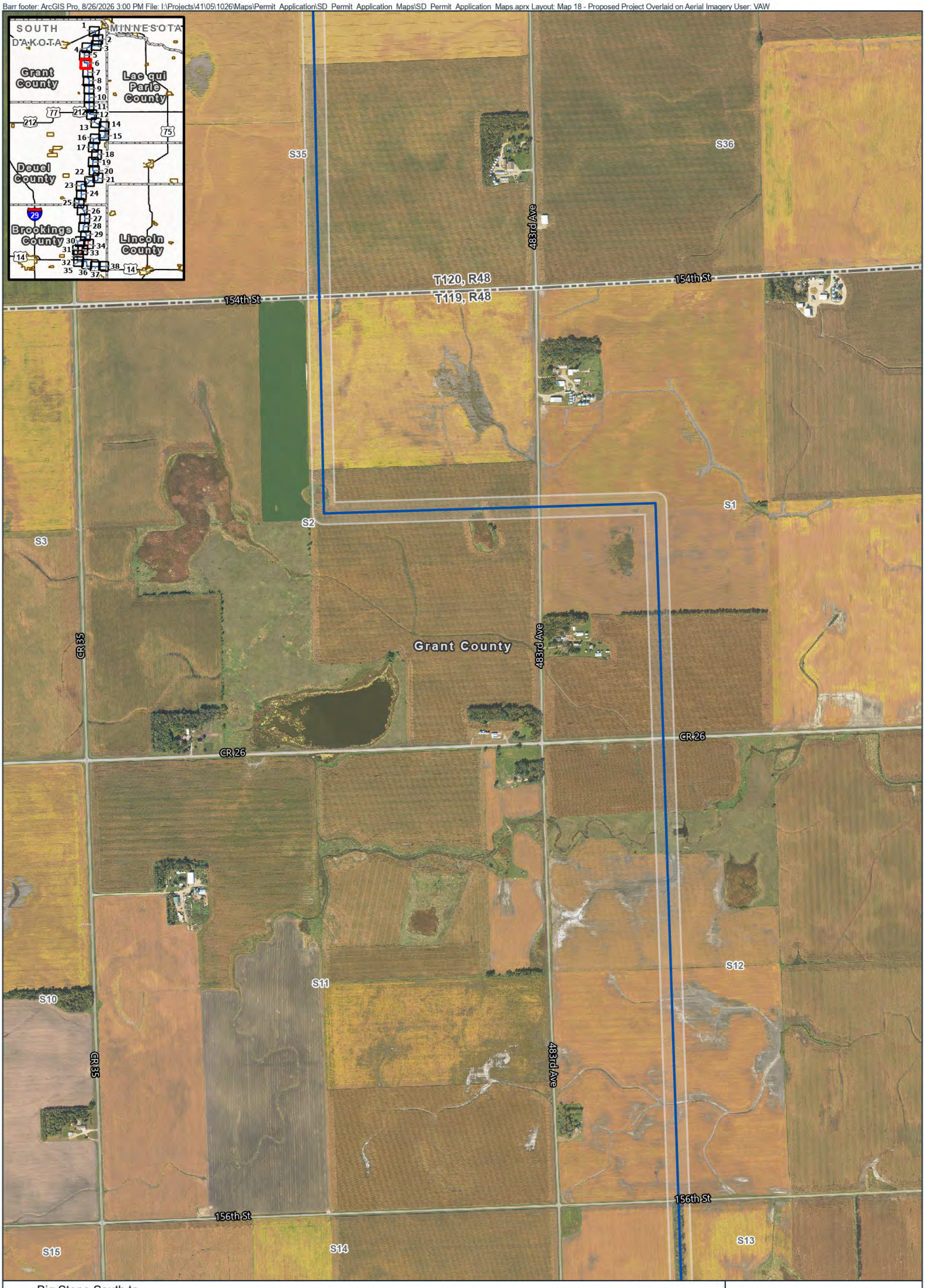
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-5

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

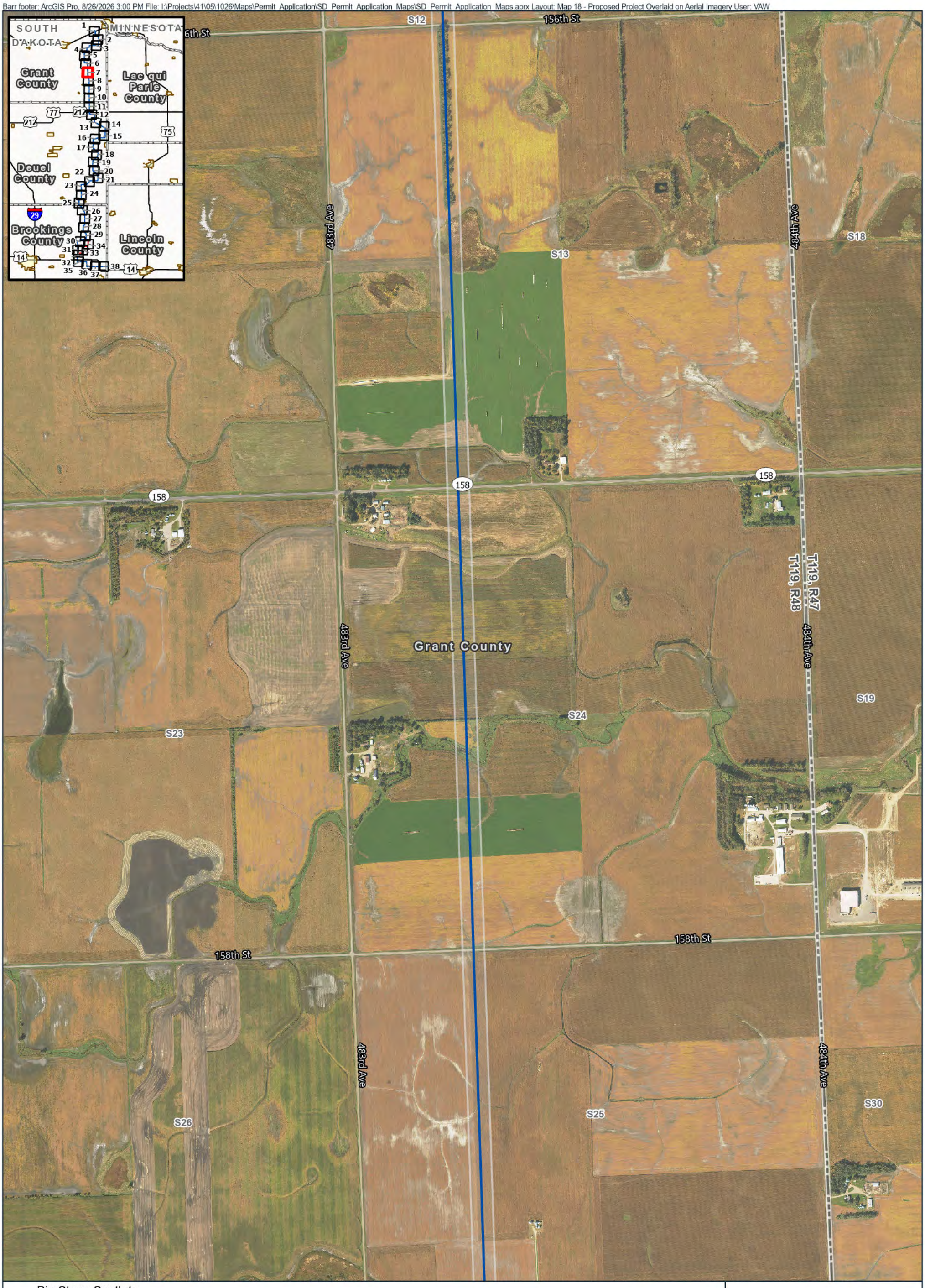
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-6

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-7

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Municipal Boundary

Public Land Survey Township

County Boundary

N

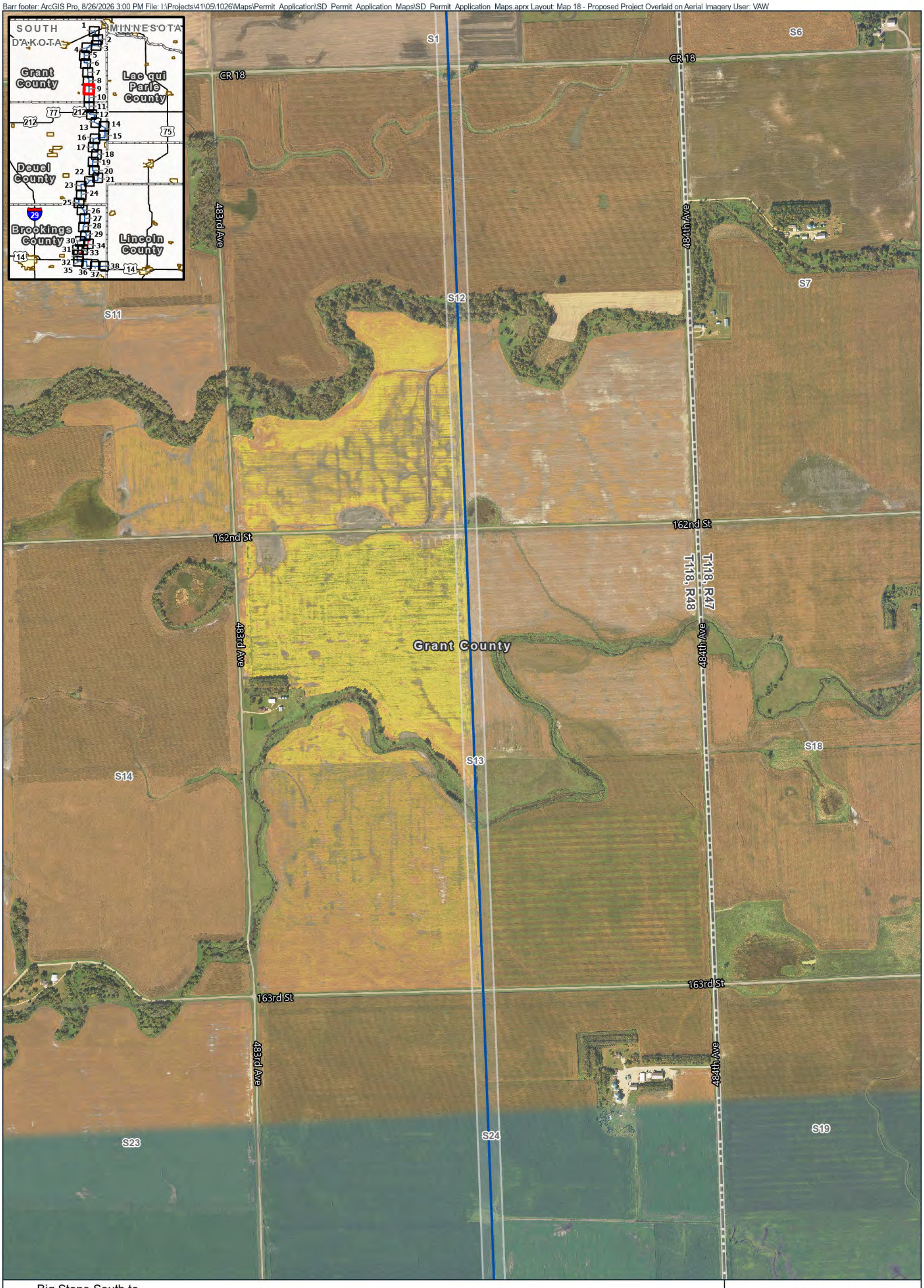
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-8

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

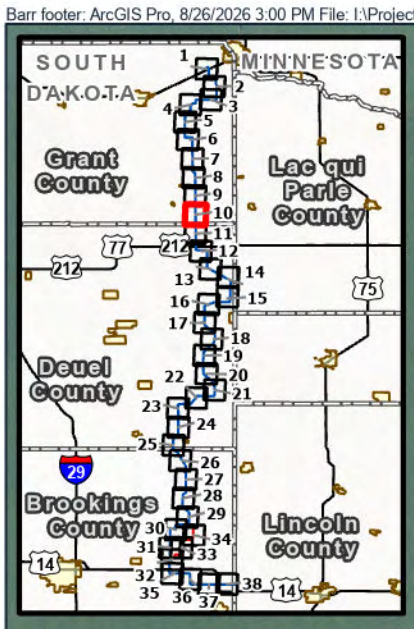
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-9

PowerOn Midwest

Big Stone South to Brookings



S24
S19
483rd Ave
484th Ave
20
S26
S25
S30
Grant County
165th St
T118, R48
T117, R48
T118, R47
T117, R47
S36
S31
S35
S1
S6
S2
Deuel County

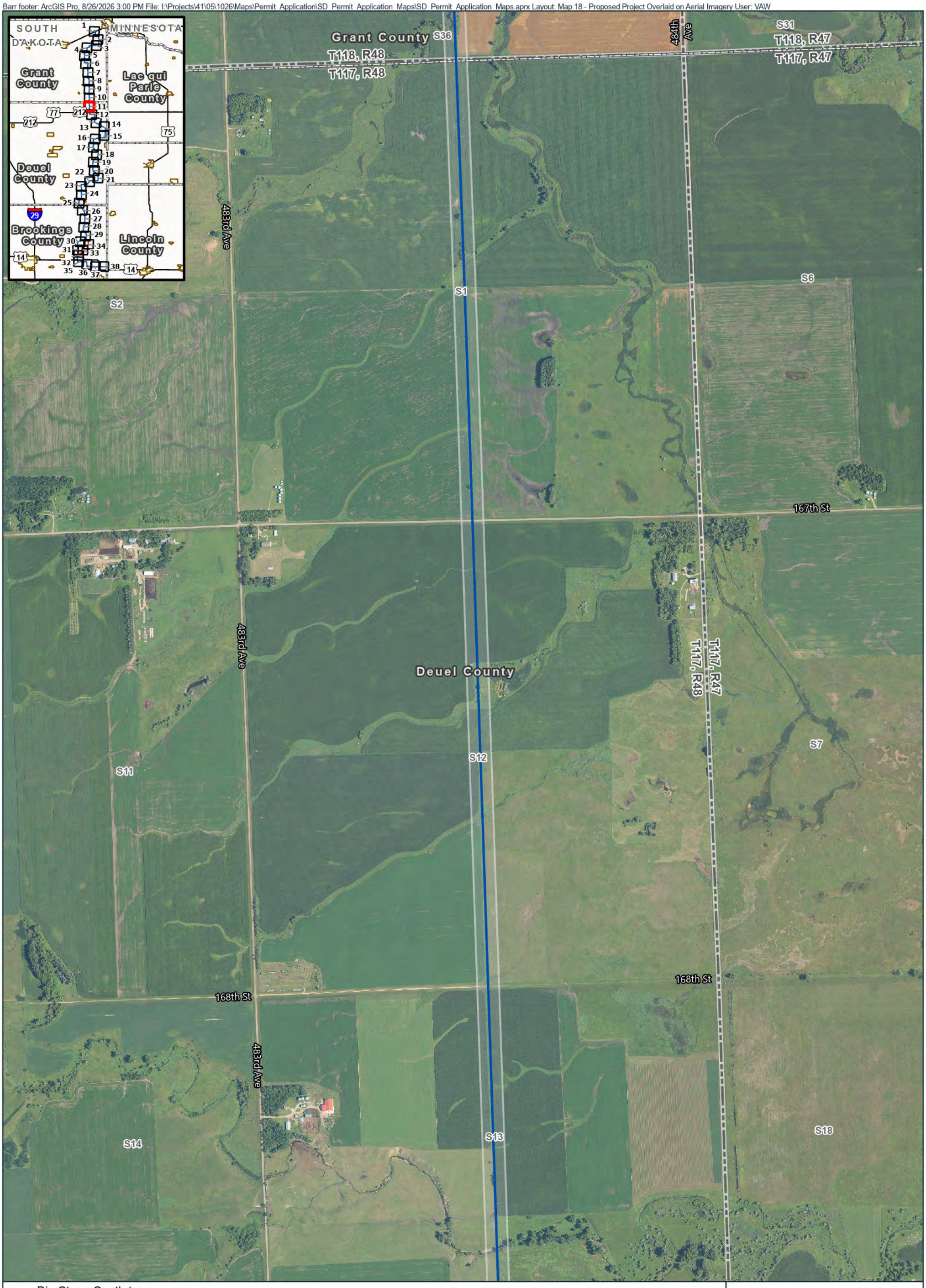
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Railroads
Public Land Survey Township
County Boundary

0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-10

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

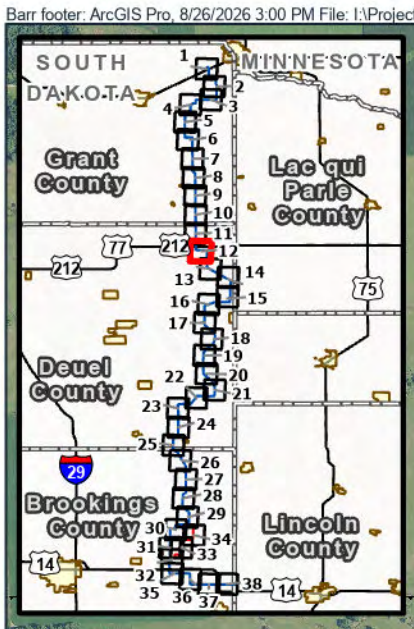
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-11

PowerOn Midwest

Big Stone South to Brookings



485th Ave
S13
S18
212
S19
S24
T117, R48
T117, R47
Deuel County
S23
170th St
S25
S30
S26

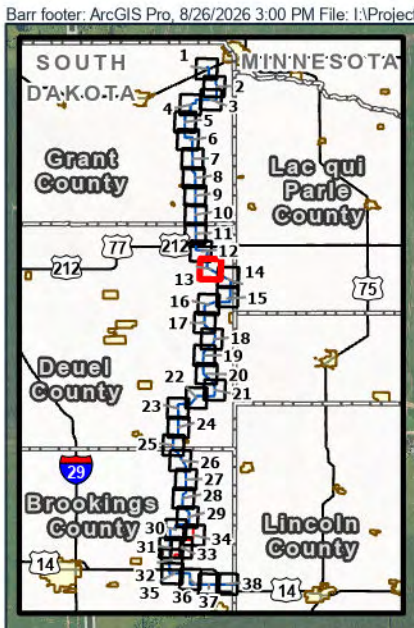
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Railroads
Public Land Survey Township
County Boundary

0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-12

PowerOn Midwest
Big Stone South to Brookings



S30
S29
485th Ave
S31
S32
S36
T117, R47
T117, R48
T117, R47
T116, R47
Deuel County
S5
S6
S4
CR 310
S7
S8
S9

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Railroads
Public Land Survey Township
County Boundary

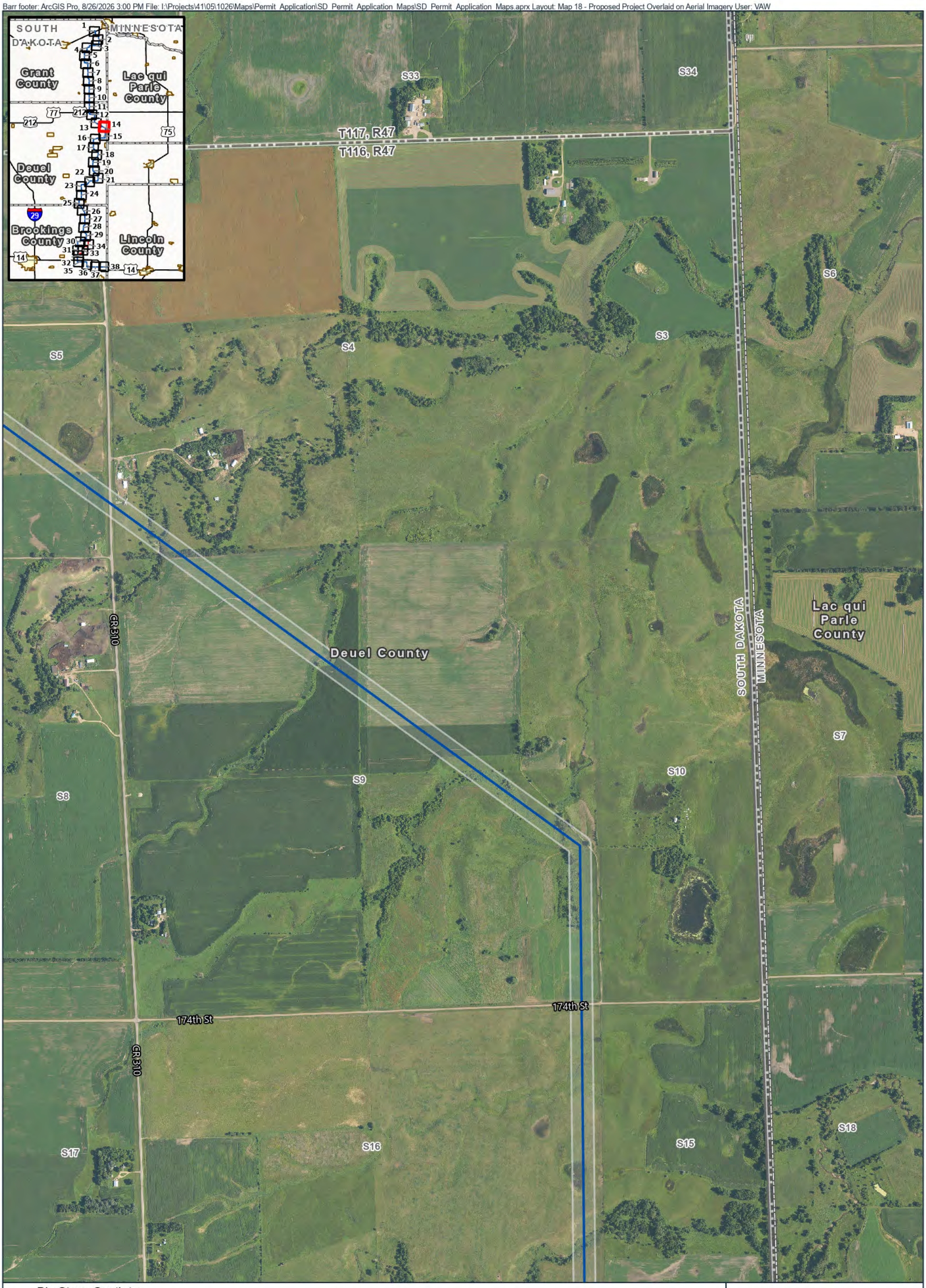
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-13

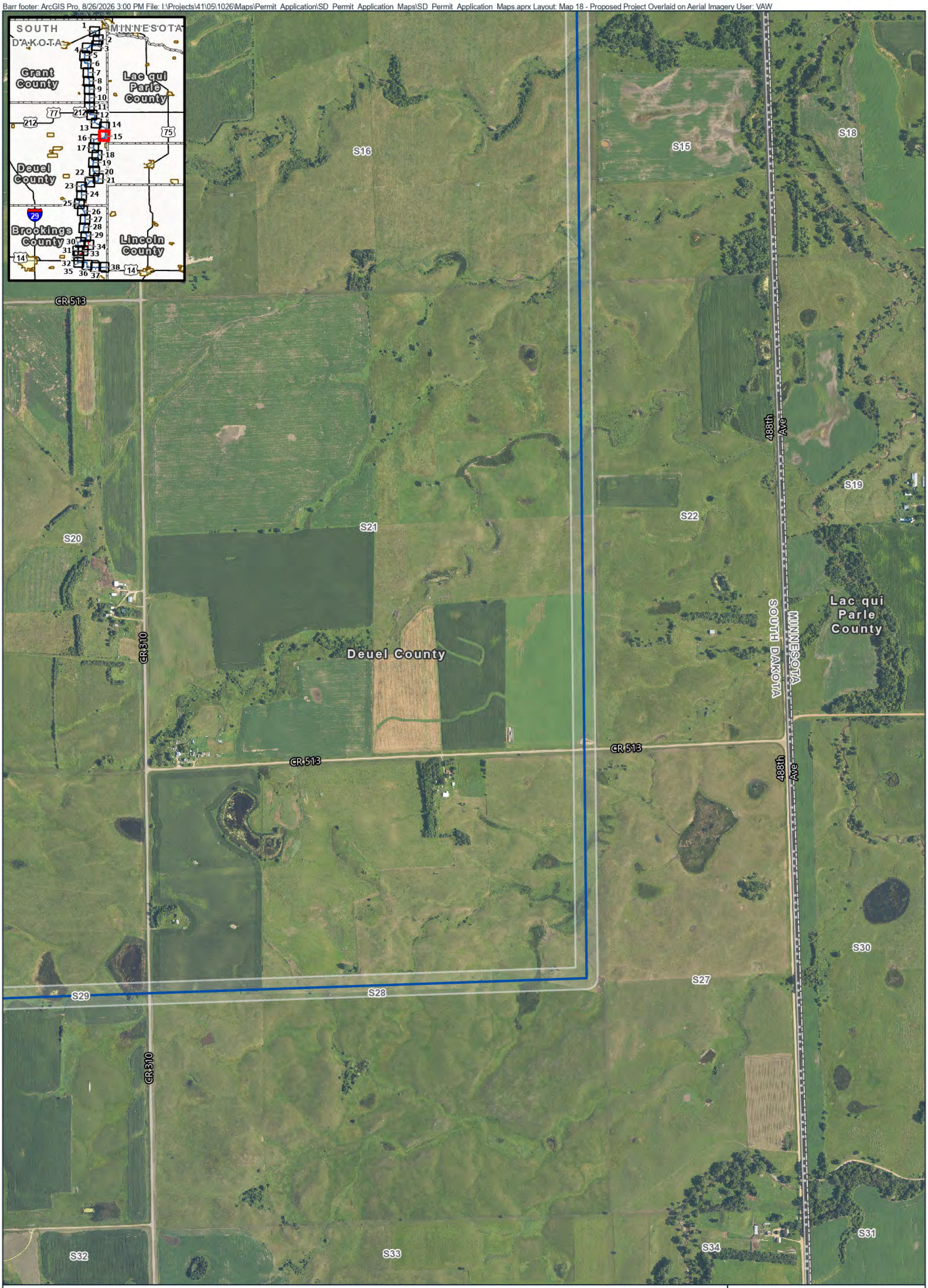
PowerOn Midwest
Big Stone South to Brookings



PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-14

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

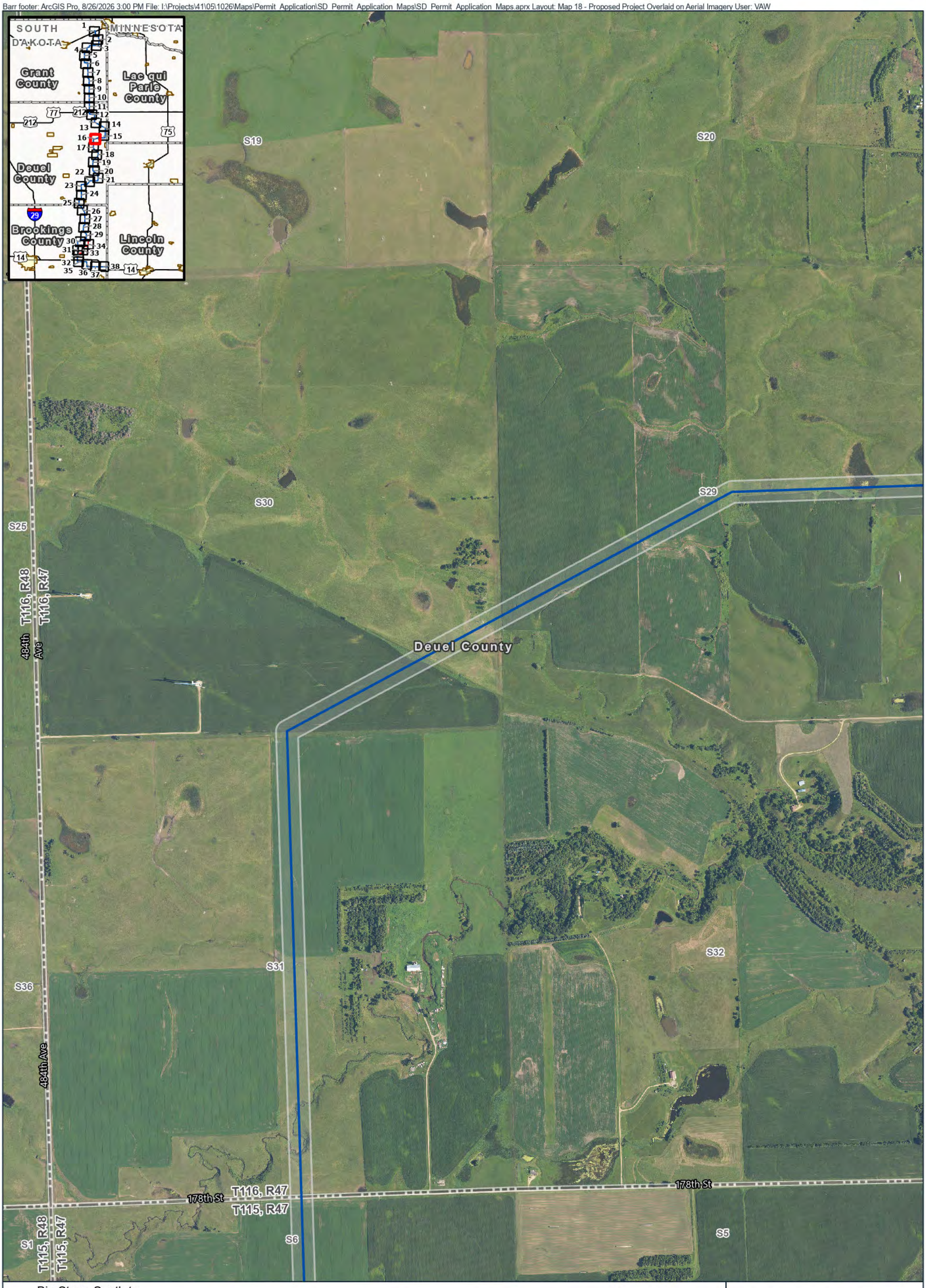
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-15

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

N

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-16

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-17

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-18

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

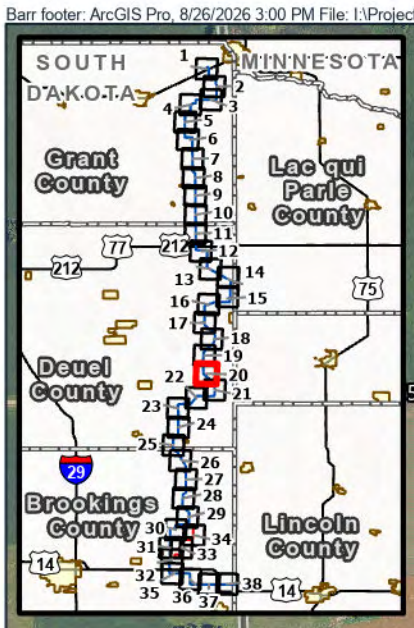
0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-19

PowerOn Midwest
Big Stone South to Brookings



S6
S5
CR 375
485th Ave
CR 375
S12
S7
S8
484th Ave
T114, R48
T114, R47
186th St
Deuel County
186th St
485th Ave
S13
S18
S17
485th Ave
484th Ave
187th St
S24
S19
S20

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

N

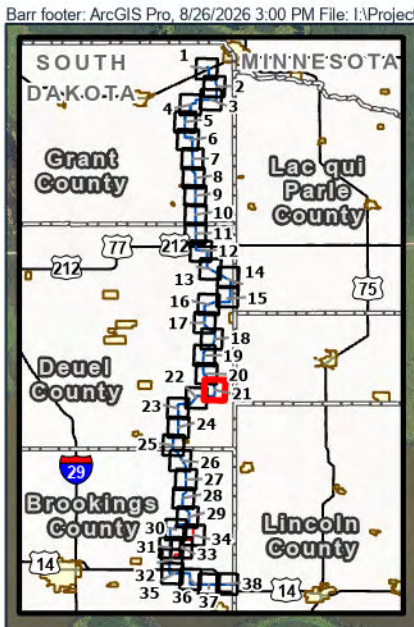
0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-20

PowerOn Midwest
Big Stone South to Brookings



485th Ave
S17
S16
CR 516
S19
S20
S21
CR 314
Deuel County
S30
S29
S28
189th St
CR 11
S31
S32
S33

Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Railroads
Public Land Survey Township
County Boundary

N

0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-21

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

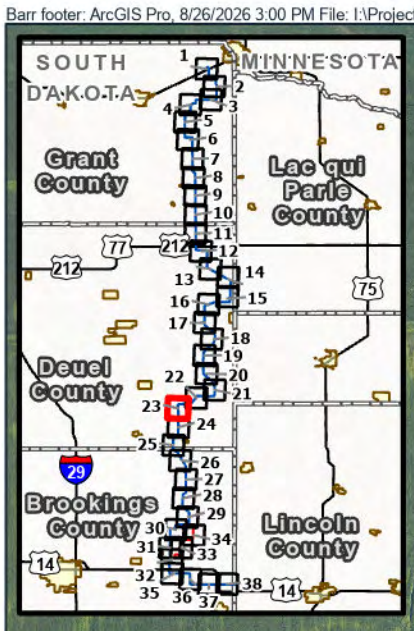
0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-22

PowerOn Midwest
Big Stone South to Brookings



S34
S35
S36
482nd Ave
CR 311
T114, R48
T113, R48
190th St
S1
S2
S3
Deuel County
191st St
S10
S11

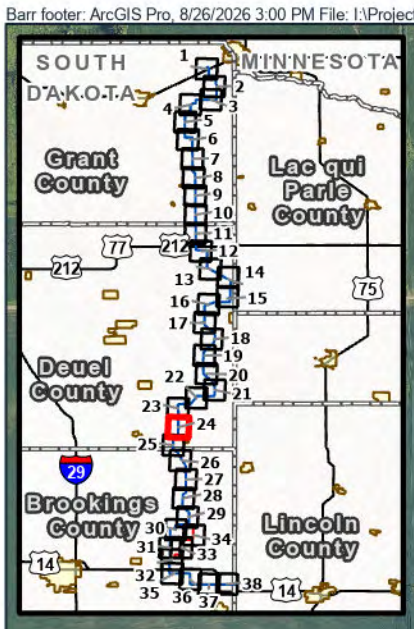
Big Stone South to Brookings County to Minnesota Border 765 kV Route
Right-of-Way
Railroads
Public Land Survey Township
County Boundary

0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-23

PowerOn Midwest
Big Stone South to Brookings



S10 S11 S12 S13 S14 S15 S22 S23 S24 S25 S26 S27

192nd St

193rd St

482nd Ave

CR 311

Deuel County

28

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

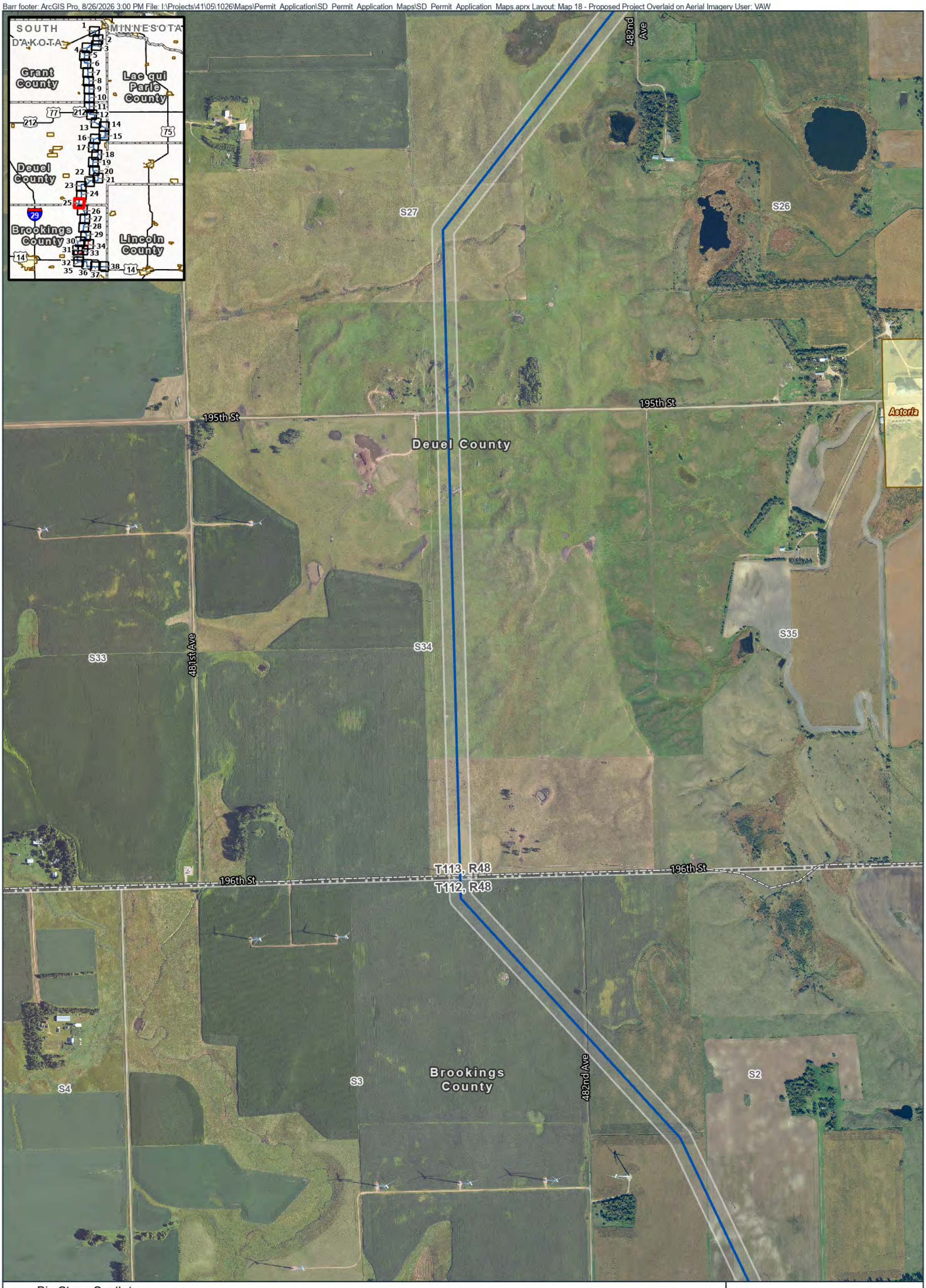
0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-24

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Municipal Boundary

Public Land Survey Township

County Boundary

N

0 500 1,000

Feet

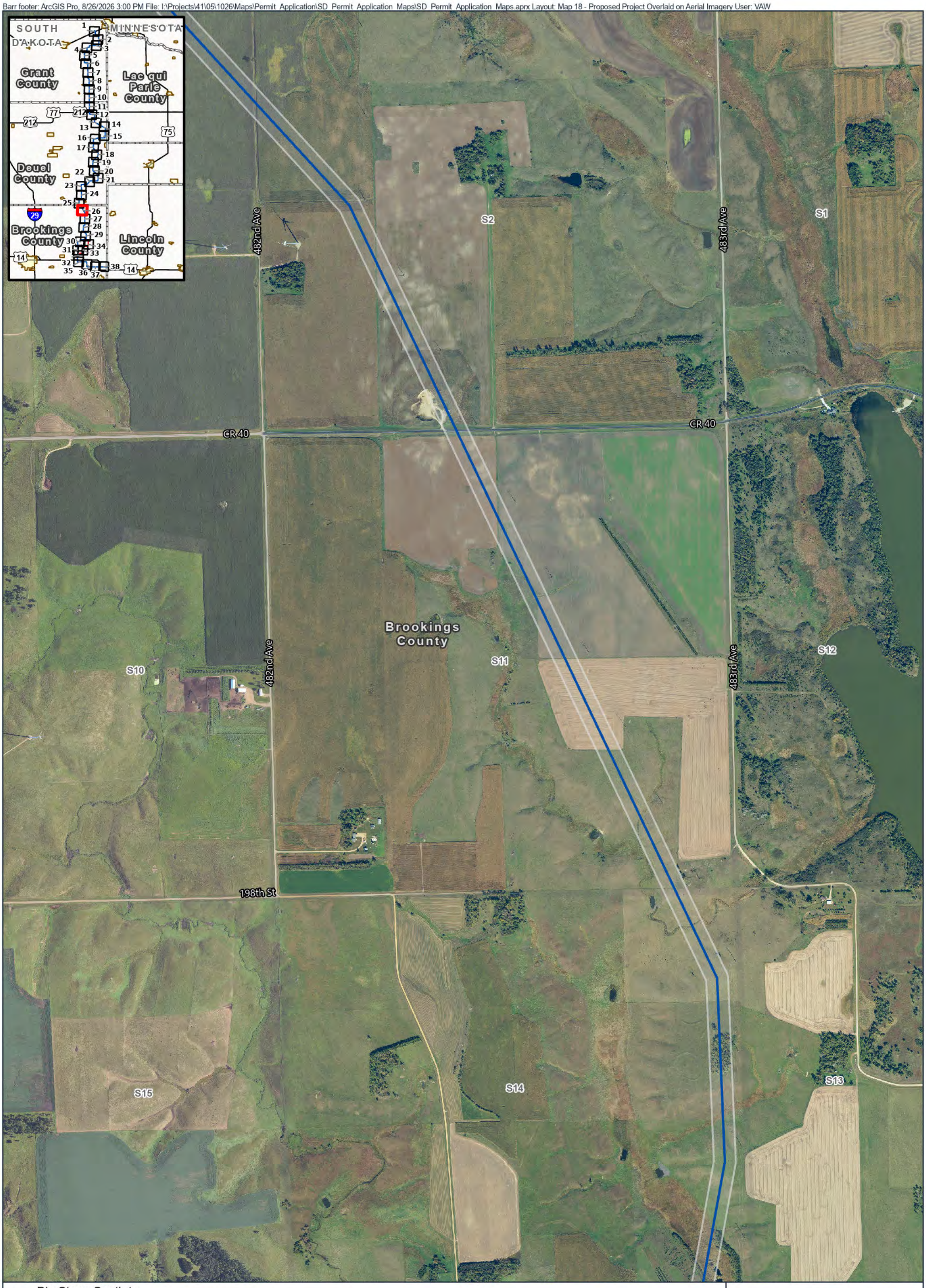
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-25

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

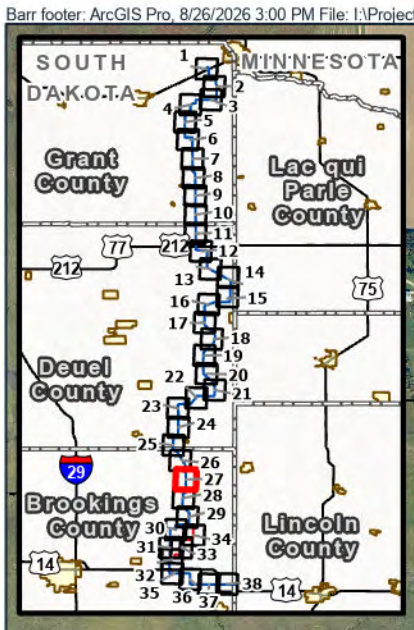
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-26

PowerOn Midwest
Big Stone South to Brookings



S14
S13
199th St
CR 44
S24
S23
CR 44
S22
CR 44
Brookings County
482nd Ave
483rd Ave
S26
S25
S27
201st St
482nd Ave
483rd Ave
S34
S35
S36

Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-27

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

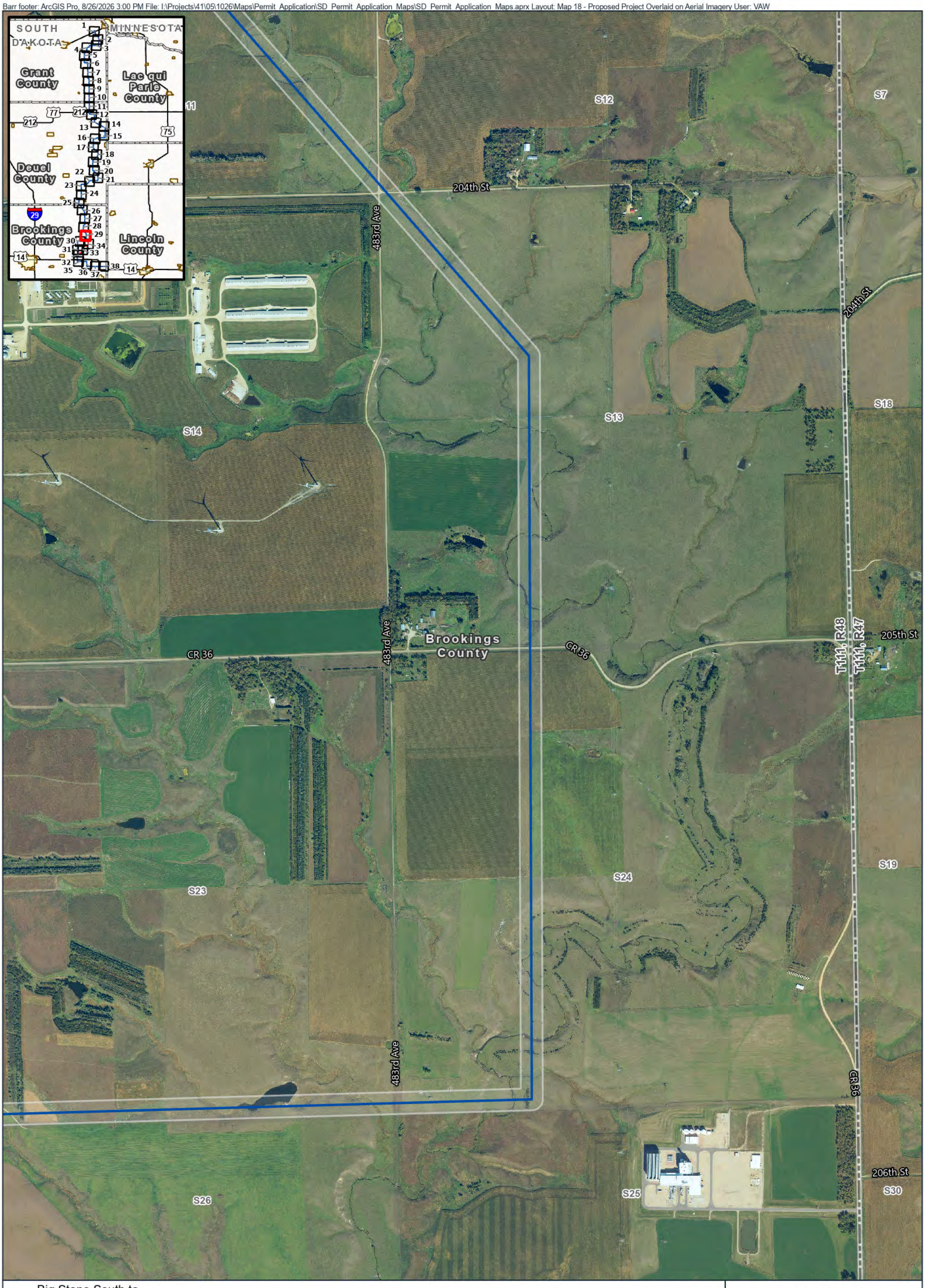
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Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-28

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

N

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-29

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

345 kV Connector Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

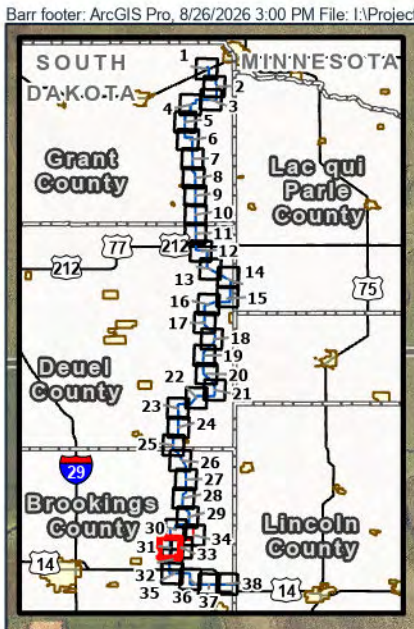
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-30

PowerOn Midwest

Big Stone South to Brookings



S34
S35
T111, R48
T110, R48
CR 27
S3
S4
S2
481st Ave
209th St
Brookings County
S10
S9
S11
210th St
S16
S15
S14

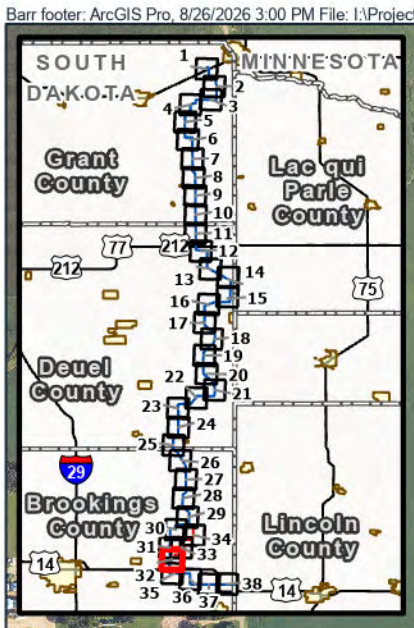
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Railroads
Public Land Survey Township
County Boundary

N
0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-31

PowerOn Midwest
Big Stone South to Brookings



S10
S11
CR 27
210th St
S14
S15
S16
Brookings County 765 kV Substation Expansion Area
Brookings County
481st Ave
CR 34
S21
S22
S23
S26
S27
14

Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
Right-of-Way
Substation Expansion Area
Railroads
Public Land Survey Township
County Boundary

N
0 500 1,000
Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-32

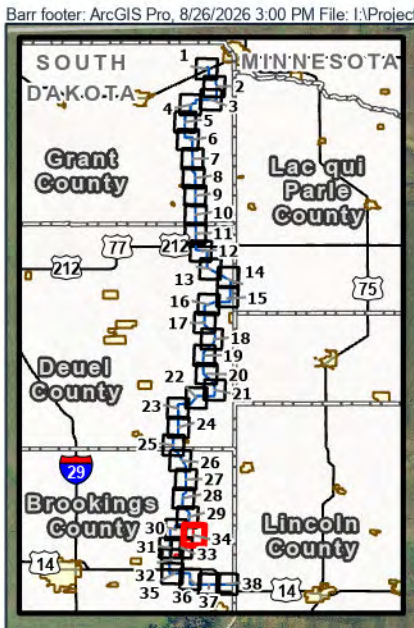
PowerOn Midwest
Big Stone South to Brookings



PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-33

PowerOn Midwest
Big Stone South to Brookings



Brookings County 345 kV Substation Expansion Area

BROOKINGS COUNTY SUBSTATION

206th St

CR 36

S25

S30

CR 8

T111, R48

T111, R47

T110, R48

T110, R47

483rd Ave

484th Ave

Brookings County

S35

S36

S31

S1

S2

S6

0 500 1,000

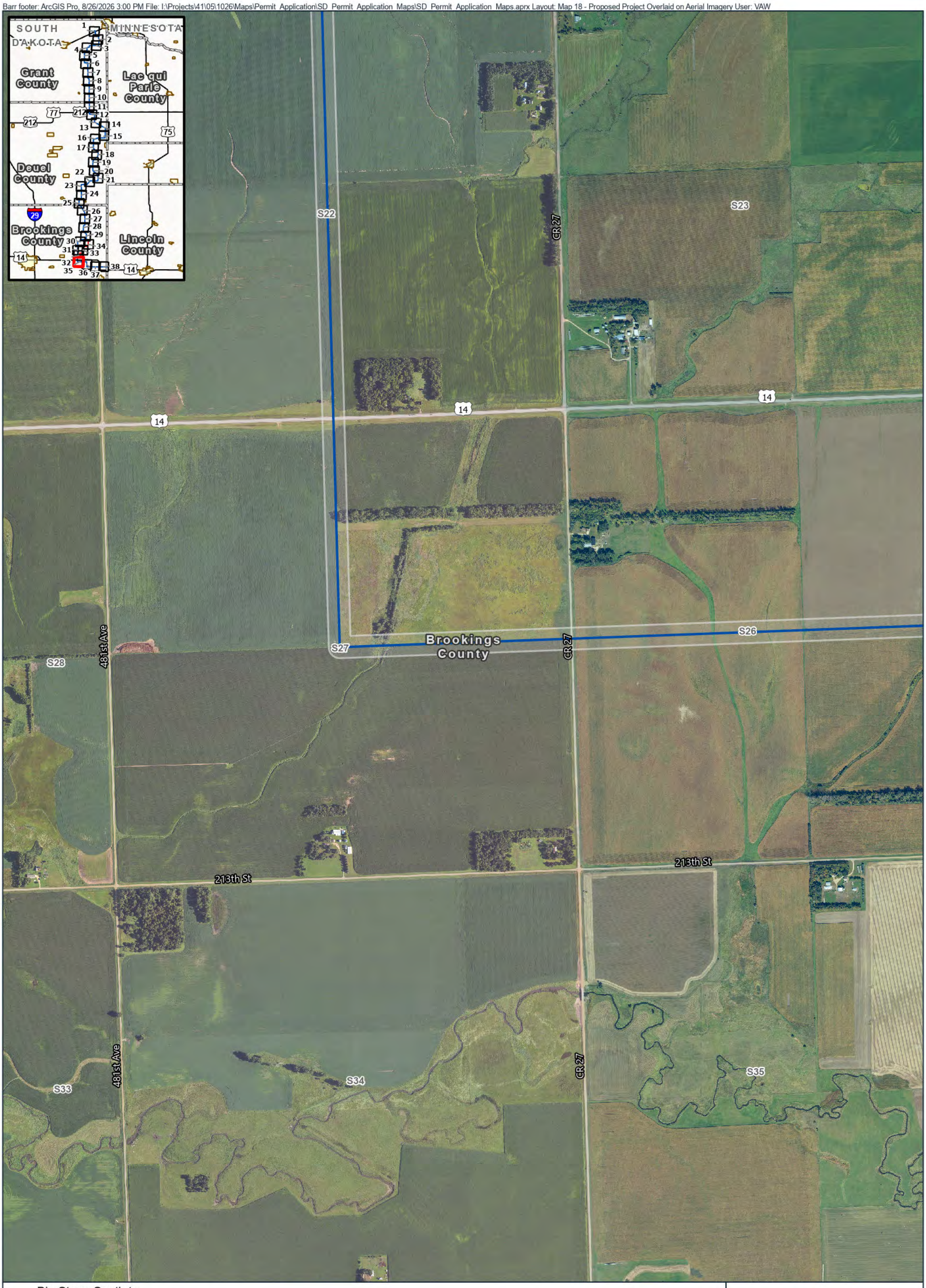
Feet

- Existing Substation
- 345 kV Connector Route
- Right-of-Way
- Substation Expansion Area
- Railroads
- Public Land Survey Township
- County Boundary

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-34

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

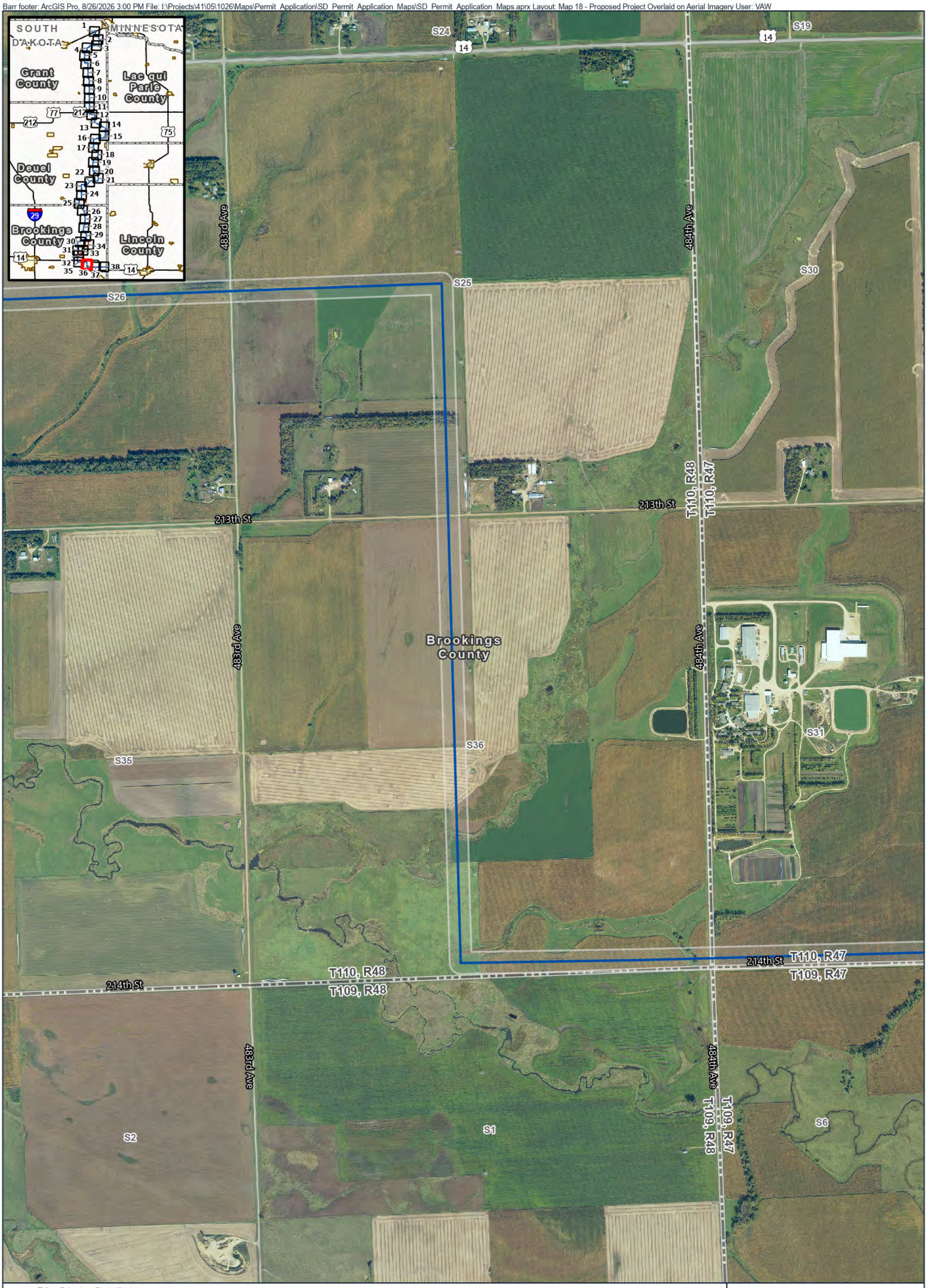
PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY

South Dakota

MAP 18-35

PowerOn Midwest

Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-36

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-37

PowerOn Midwest
Big Stone South to Brookings



Big Stone South to Brookings County to Minnesota Border 765 kV Route

Right-of-Way

Railroads

Public Land Survey Township

County Boundary

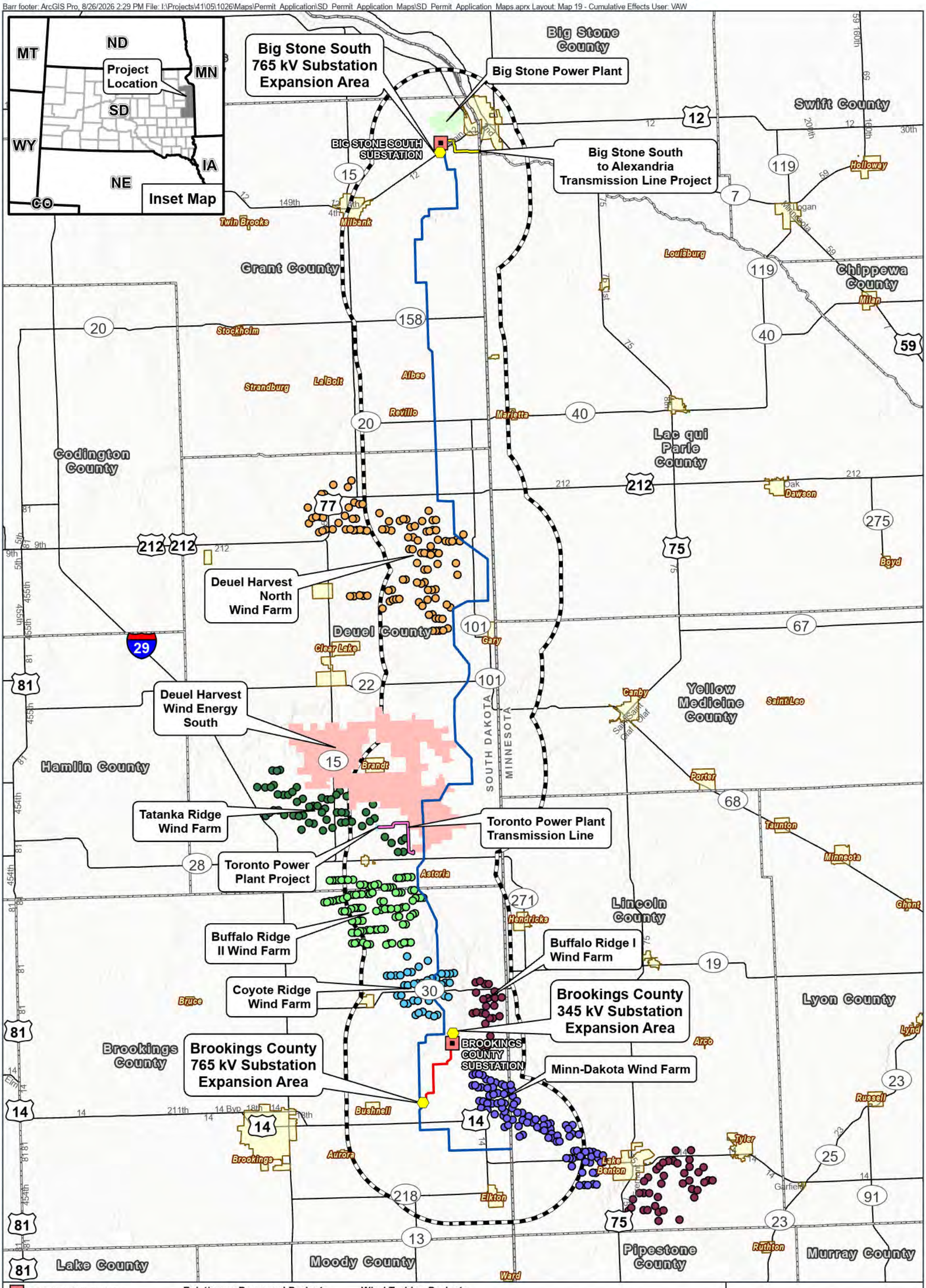
0 500 1,000

Feet

PROPOSED PROJECT OVERLAID ON AERIAL IMAGERY
South Dakota

MAP 18-38

PowerOn Midwest
Big Stone South to Brookings


Inset Map
MT
ND
MN
SD
WY
IA
NE
CO
Project Location
Big Stone South 765 kV Substation Expansion Area
Big Stone Power Plant
BIG STONE SOUTH SUBSTATION
Big Stone South to Alexandria Transmission Line Project
Big Stone County
Swift County
Grant County
Twin Brooks
Milbank
Stockholm
Strandburg
LaBolt
Albee
Revillo
Marietta
Louisburg
Holloway
Logan
Chippewa County
Milan
Codington County
Lac qui Parle County
Oak Dawson
Deuel Harvest North Wind Farm
Deuel County
Clear Lake
Gary
Deuel Harvest Wind Energy South
Hamlin County
Brandt
SOUTH DAKOTA
MINNESOTA
Canby
Saint Leo
Yellow Medicine County
Porter
Taunton
Minneota
Ghent
Tatanka Ridge Wind Farm
Toronto Power Plant Transmission Line
Toronto Power Plant Project
Astoria
Hendricks
Lincoln County
Buffalo Ridge II Wind Farm
Buffalo Ridge I Wind Farm
Coyote Ridge Wind Farm
Bruce
Brookings County 345 kV Substation Expansion Area
Lyon County
Lynd
Arco
BROOKINGS COUNTY SUBSTATION
Brookings County 765 kV Substation Expansion Area
Minn-Dakota Wind Farm
Brookings County
Bushnell
Aurora
Brookings
Lake Benton
Tyler
Russell
Garfield
Elkton
Ruthton
Pipestone County
Murray County
Lake County
Moody County
Ward
Existing Substation
Big Stone South to Brookings County to Minnesota Border 765 kV Route
345 kV Connector Route
5-Mile Buffer
Municipal Boundary
County Boundary
Existing or Proposed Projects
Toronto Power Plant Project
Big Stone Power Plant
Deuel Harvest Wind Energy South
Big Stone South to Alexandria Transmission Line Project
Toronto Power Plant Project
Wind Turbine Projects
Buffalo Ridge I
Buffalo Ridge II
Coyote Ridge
Deuel Harvest North
Minn-Dakota
Tatanka Ridge
0
6
12
Miles
CUMULATIVE EFFECTS
South Dakota
MAP 19
PowerOn Midwest
Big Stone South to Brookings