



DAKOTA ACCESS, LLC

**DAKOTA ACCESS PIPELINE PROJECT
SOUTH DAKOTA ENERGY FACILITY PERMIT
APPLICATION**

DOCKET NO. HP14-002

EXHIBIT A

DAPL 2

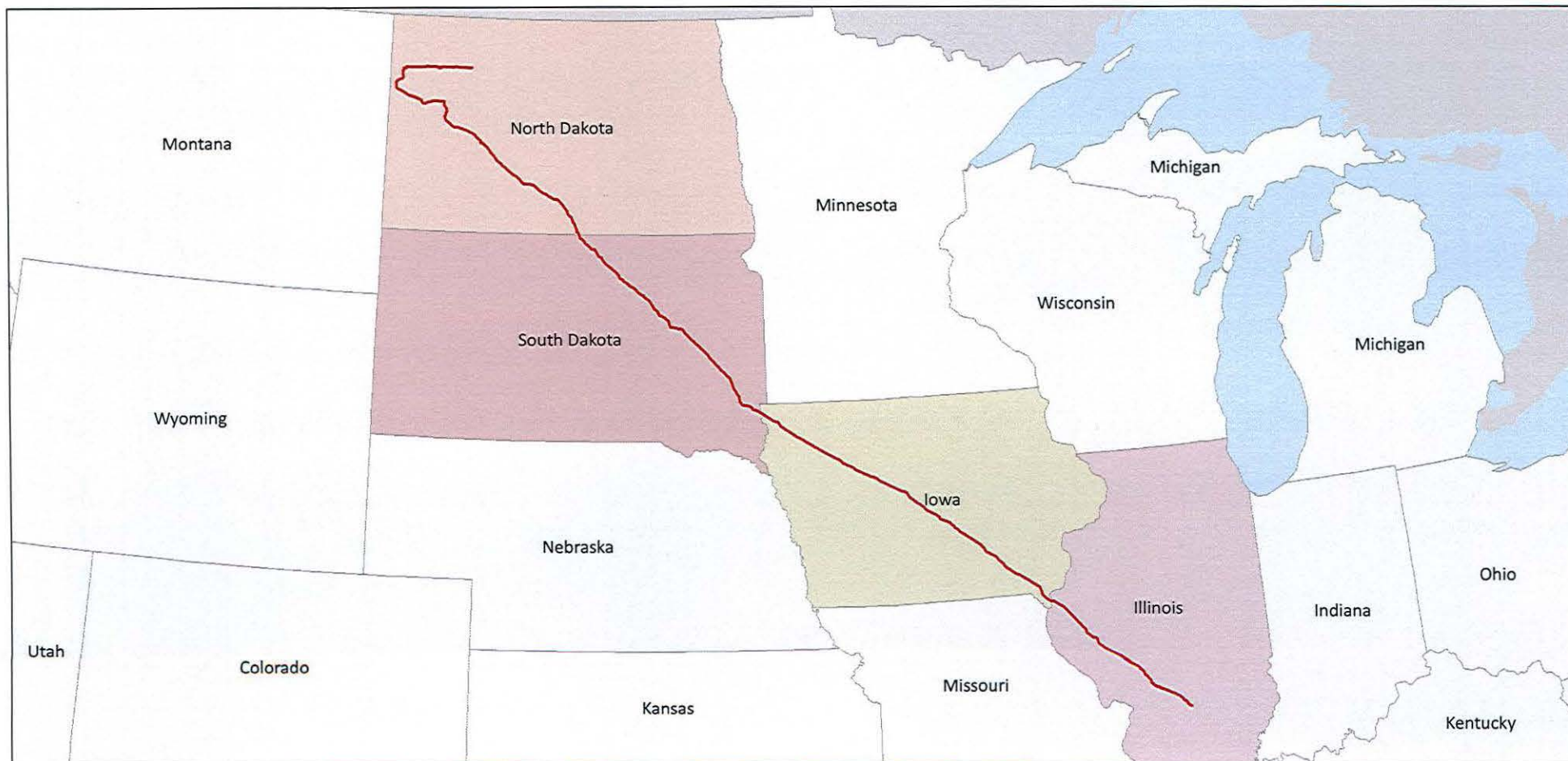
Exhibit A1



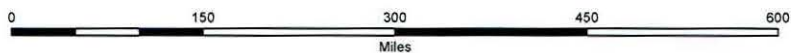
DAKOTA ACCESS, LLC

Exhibit A
Project Mapping

Exhibit A1
Project Vicinity Maps



— Proposed Route



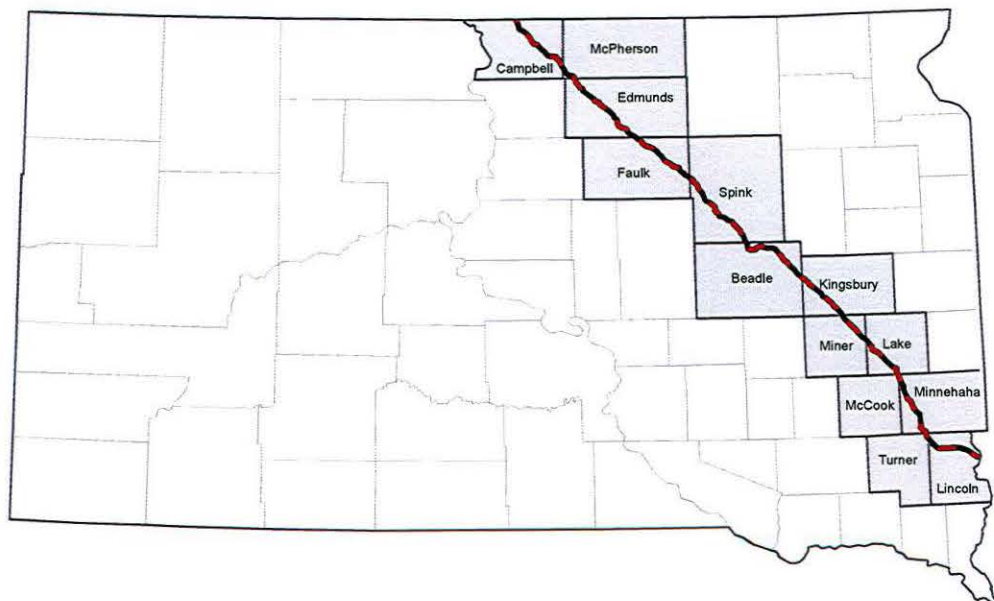
Dakota Access, LLC
Dakota Access Pipeline Project
Project Vicinity Map
South Dakota



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NAD 83 South Dakota South Fl. Date: Dec 05, 2014



**Dakota Access, LLC
Dakota Access Pipeline Project
South Dakota Vicinity Map**

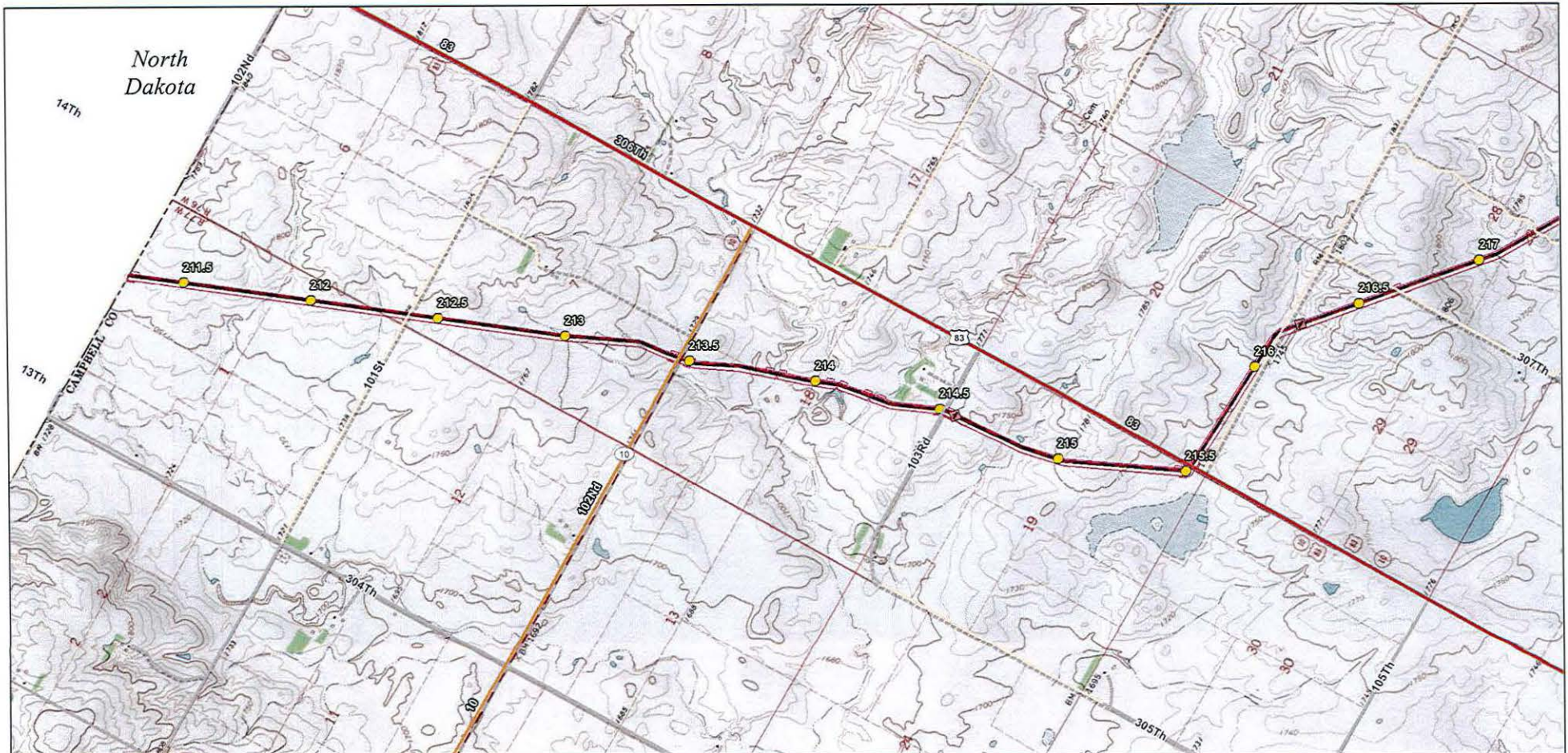


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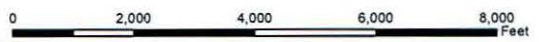
Exhibit A

Project Mapping

Exhibit A2
Topographic Maps



- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- ⊕ Cemetery
- ✈ Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road



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Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota



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- Milepost
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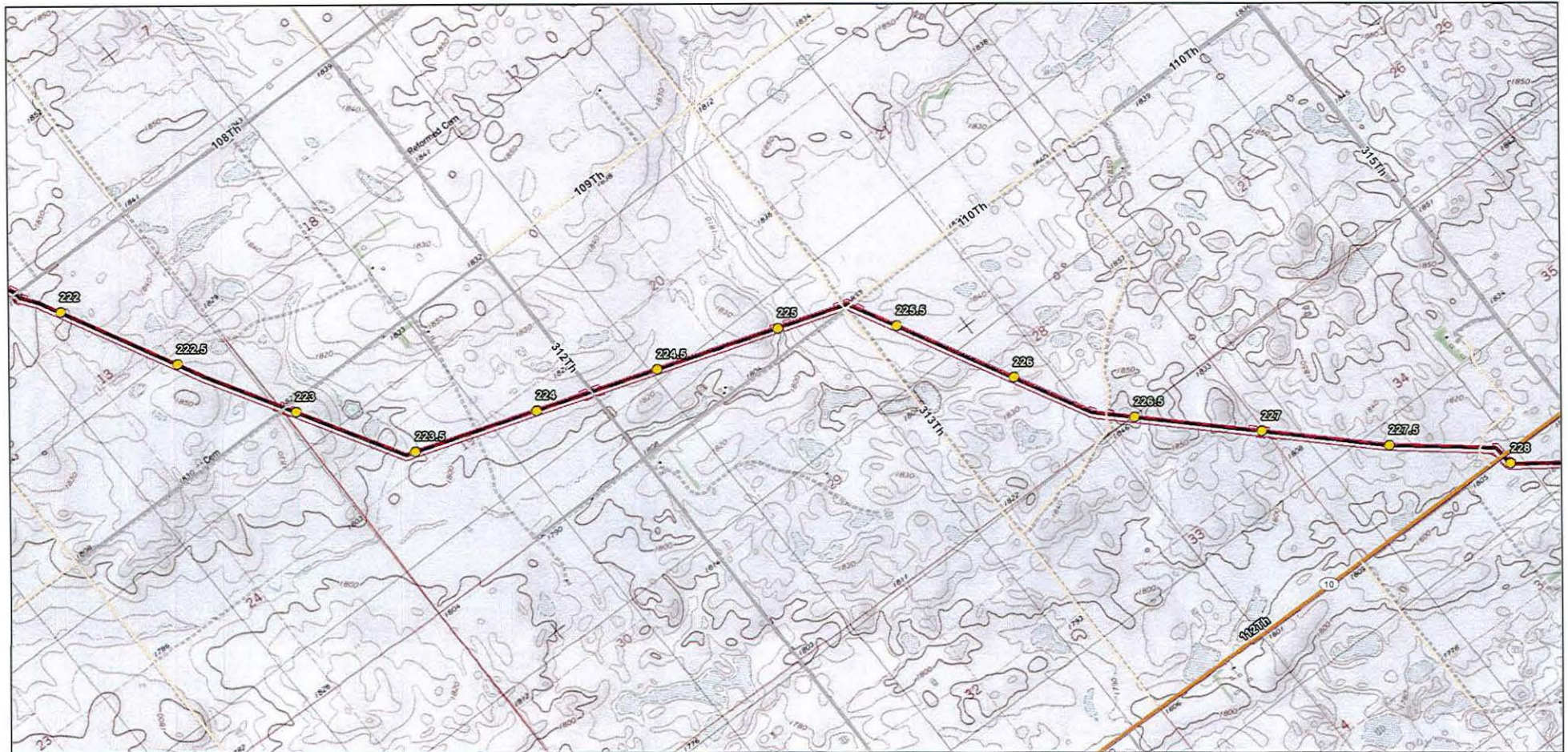
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- Milepost
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General Site/Topographic Map
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General Site/Topographic Map
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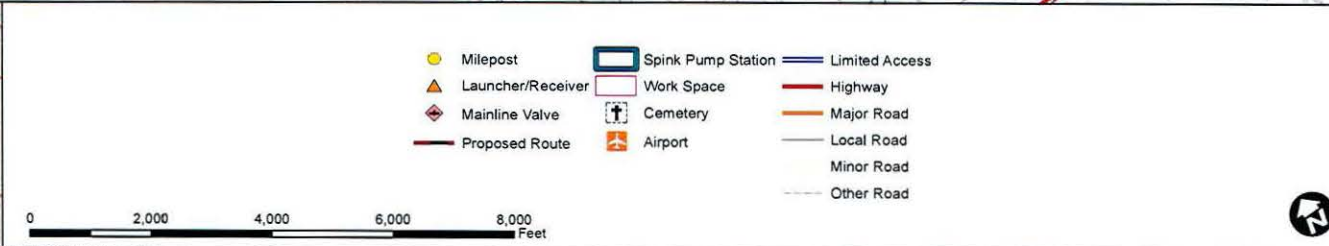
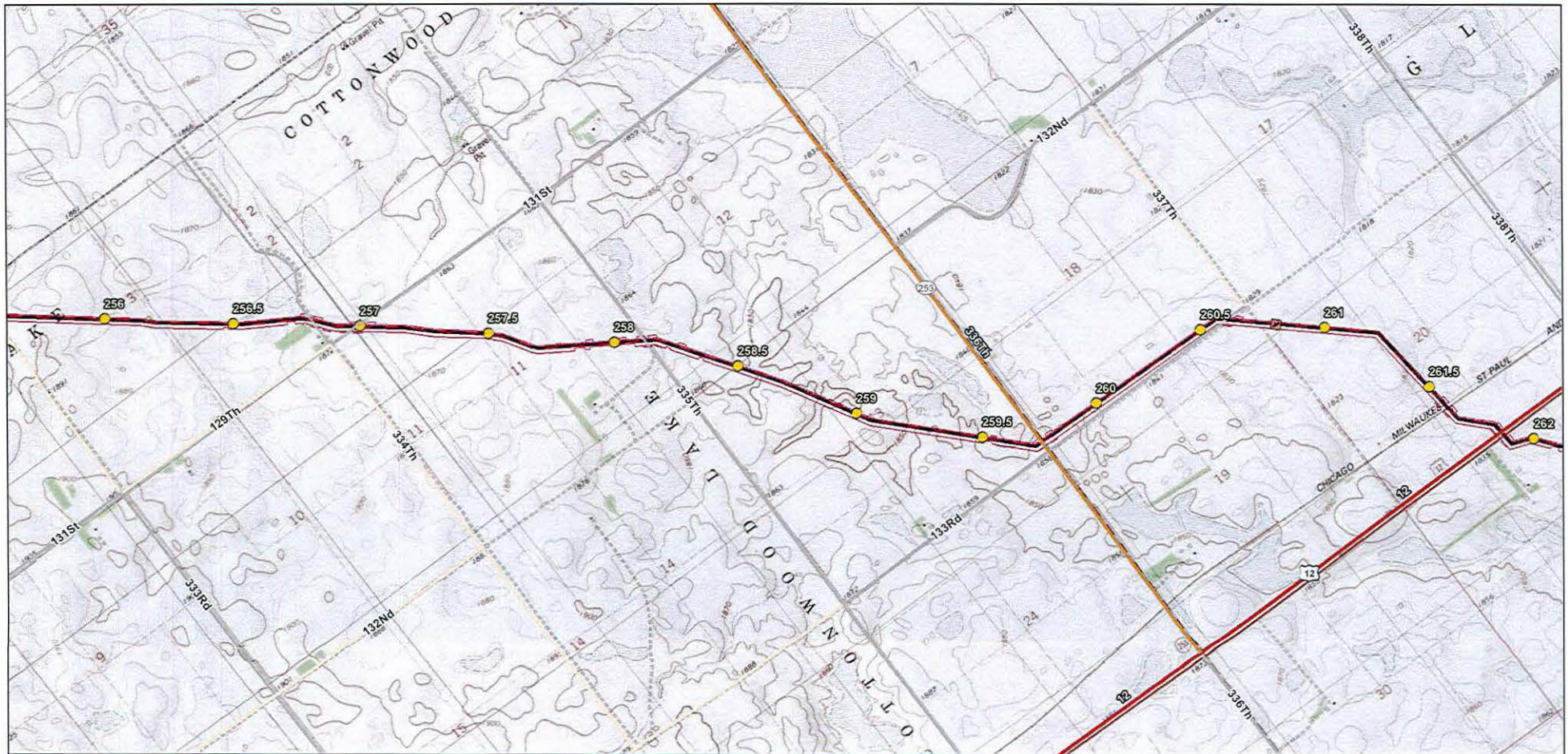
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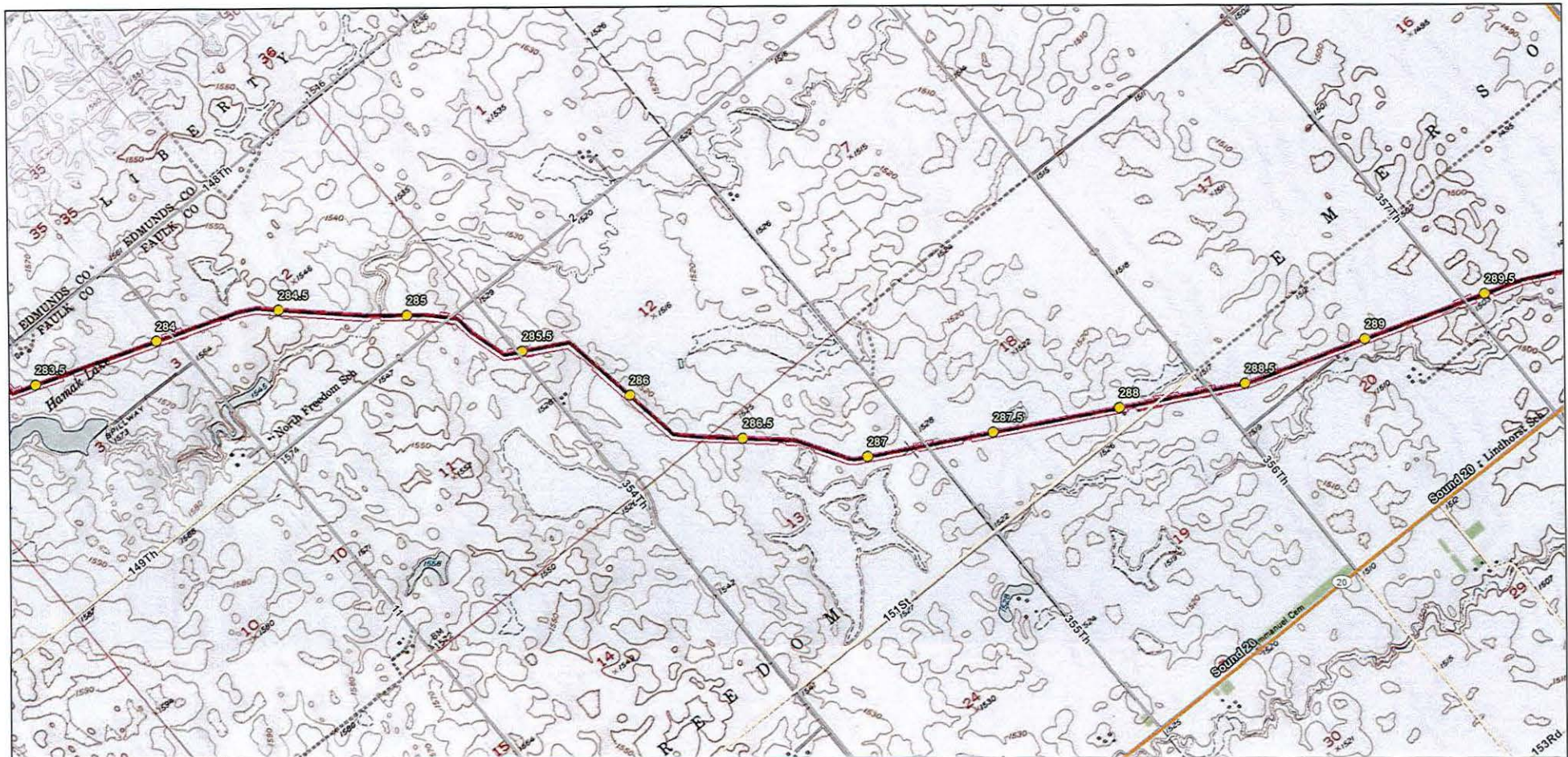
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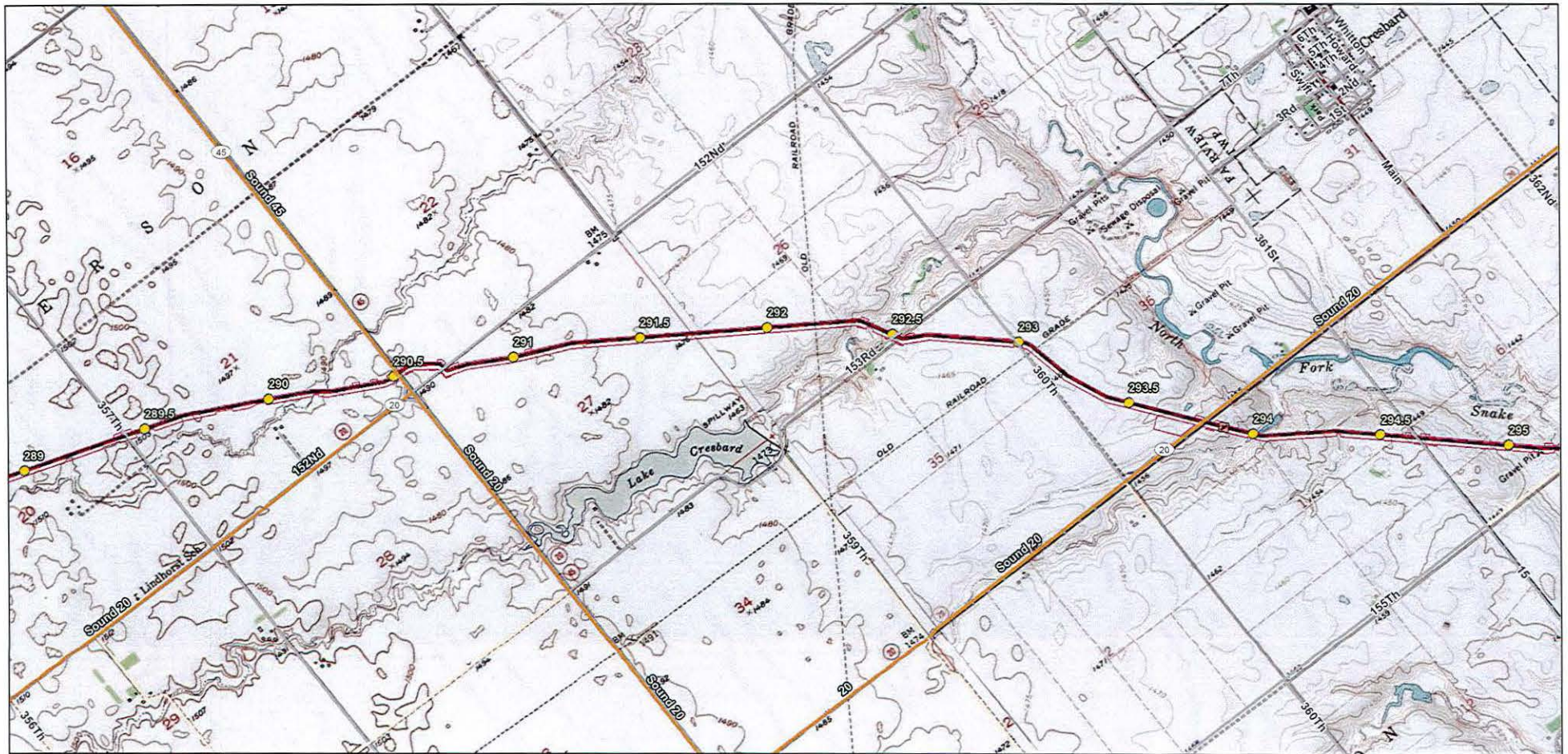


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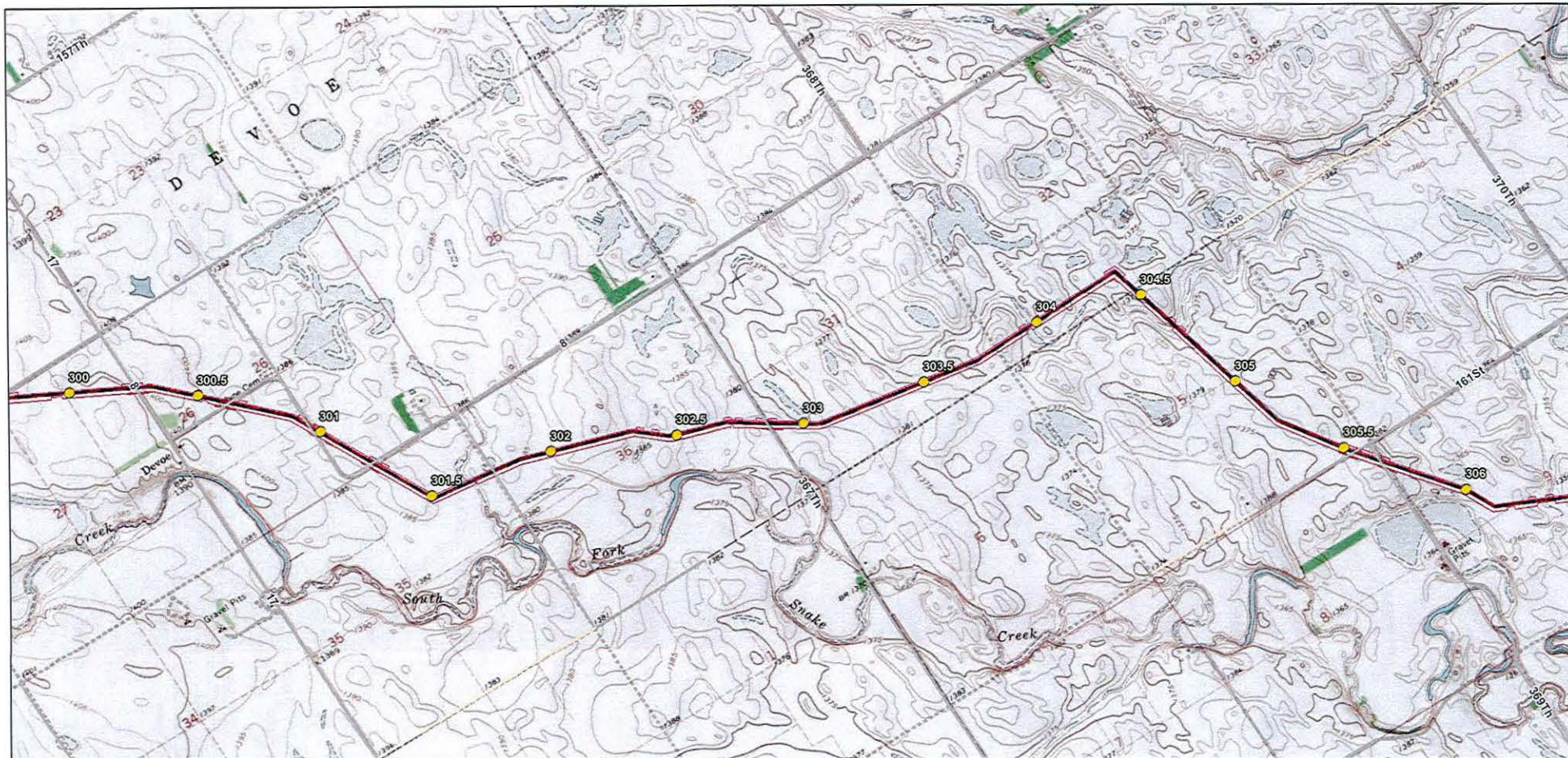
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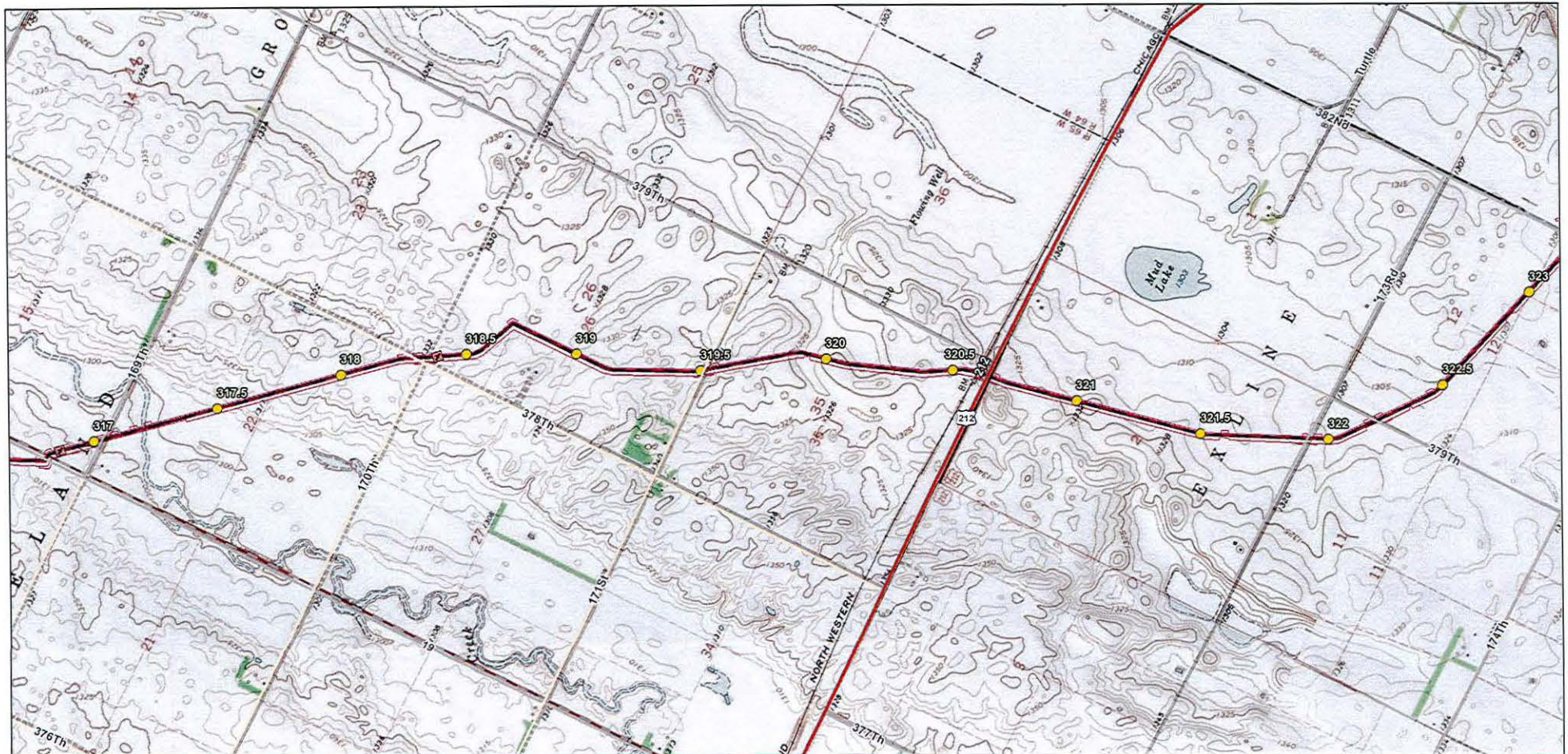
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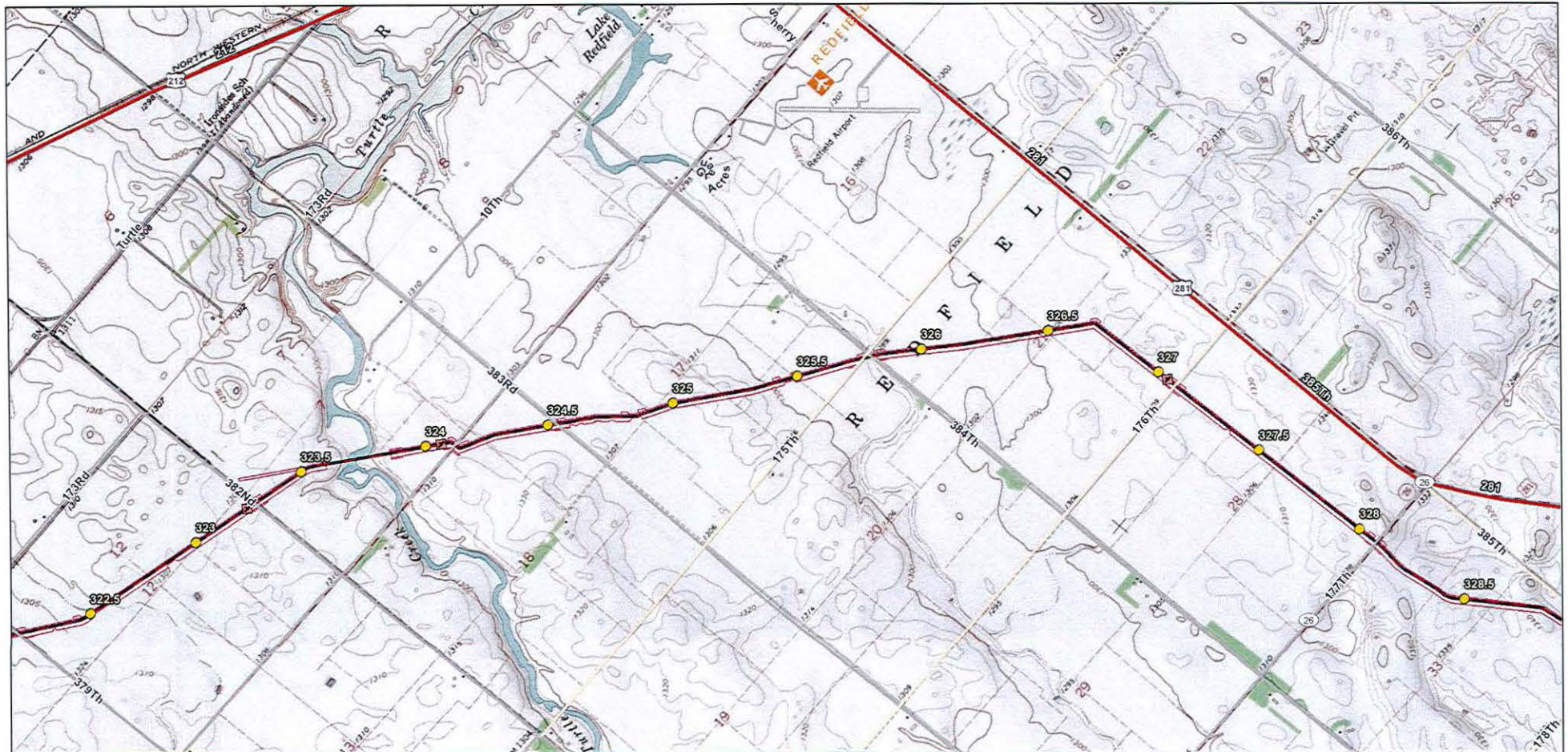


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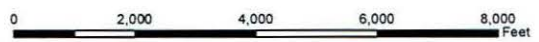
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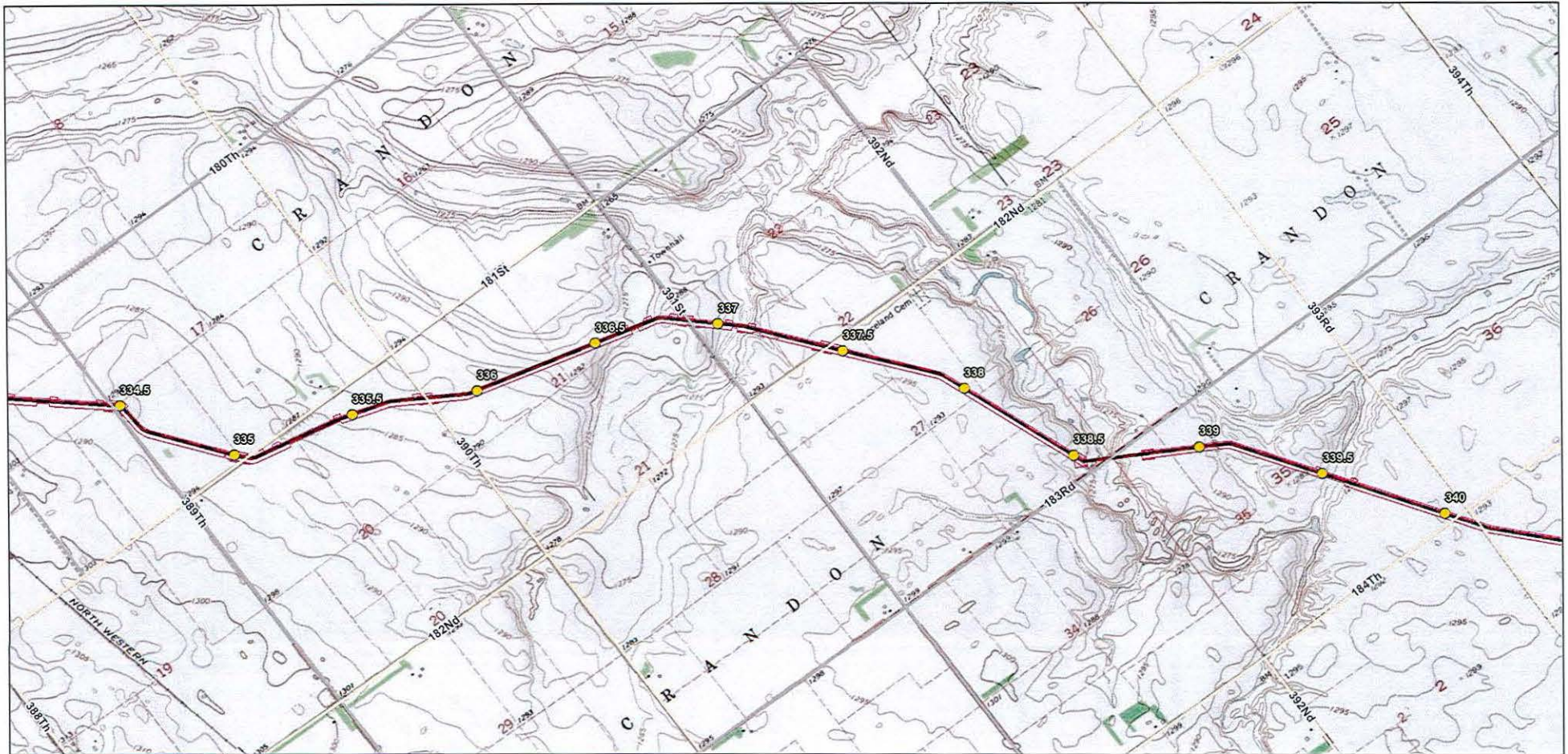
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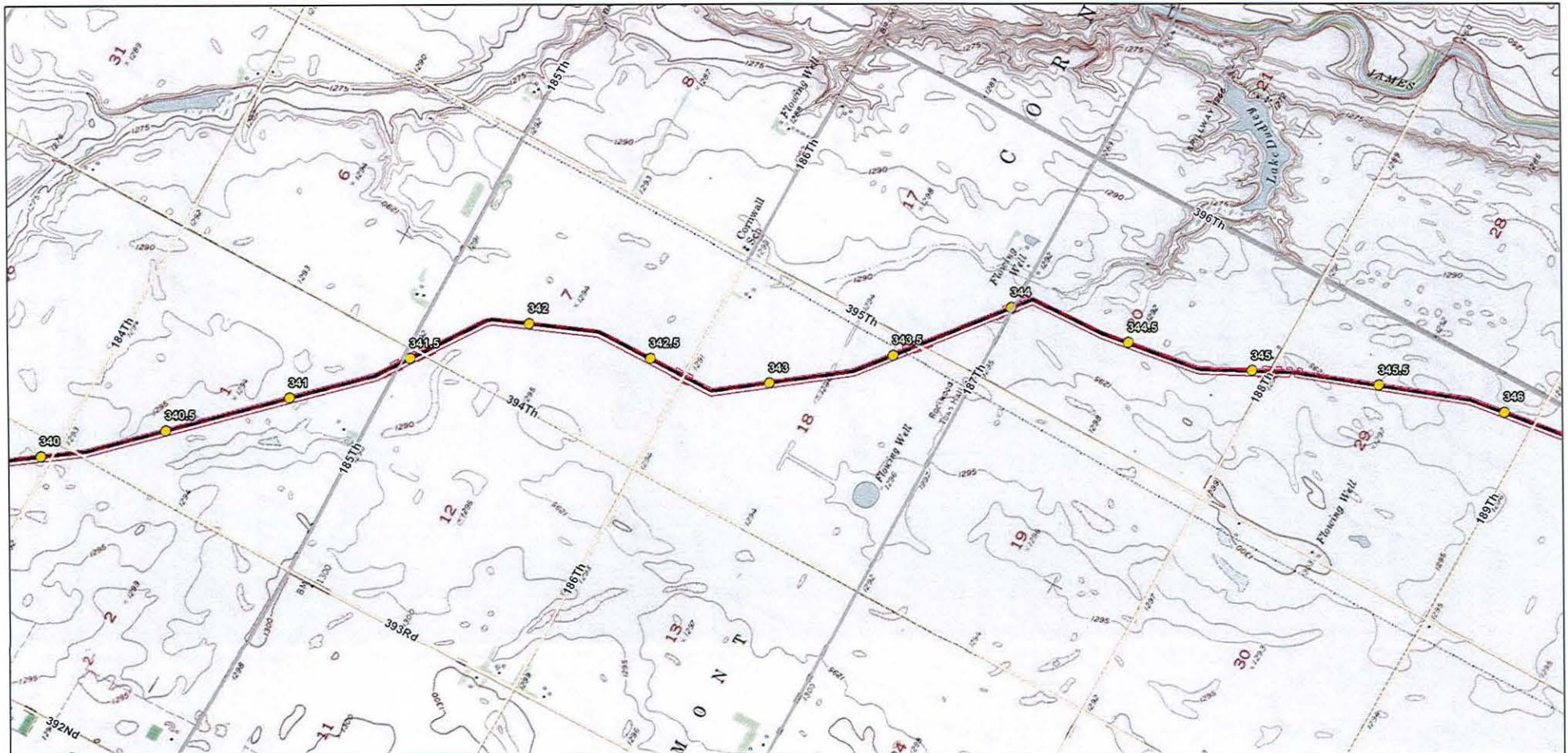
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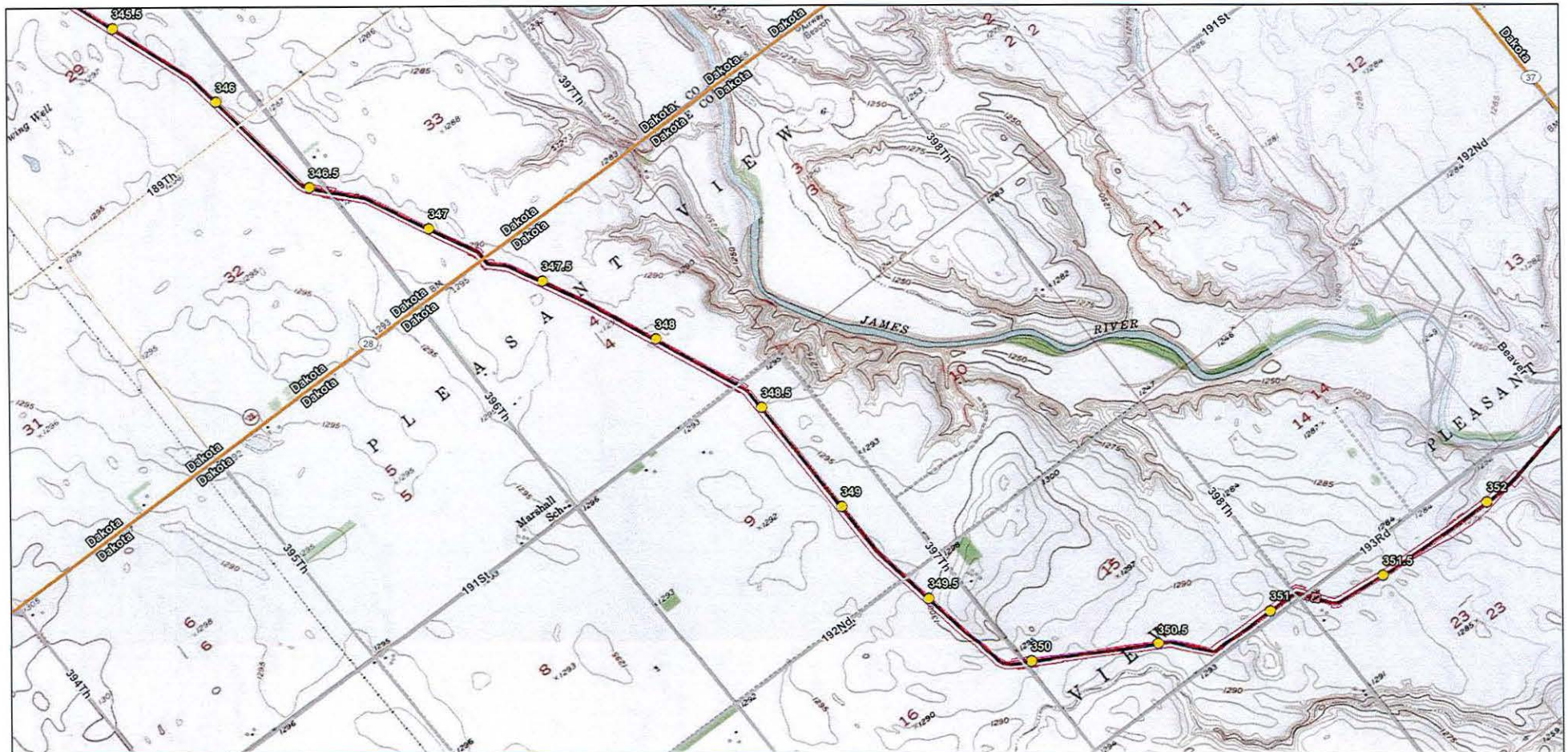


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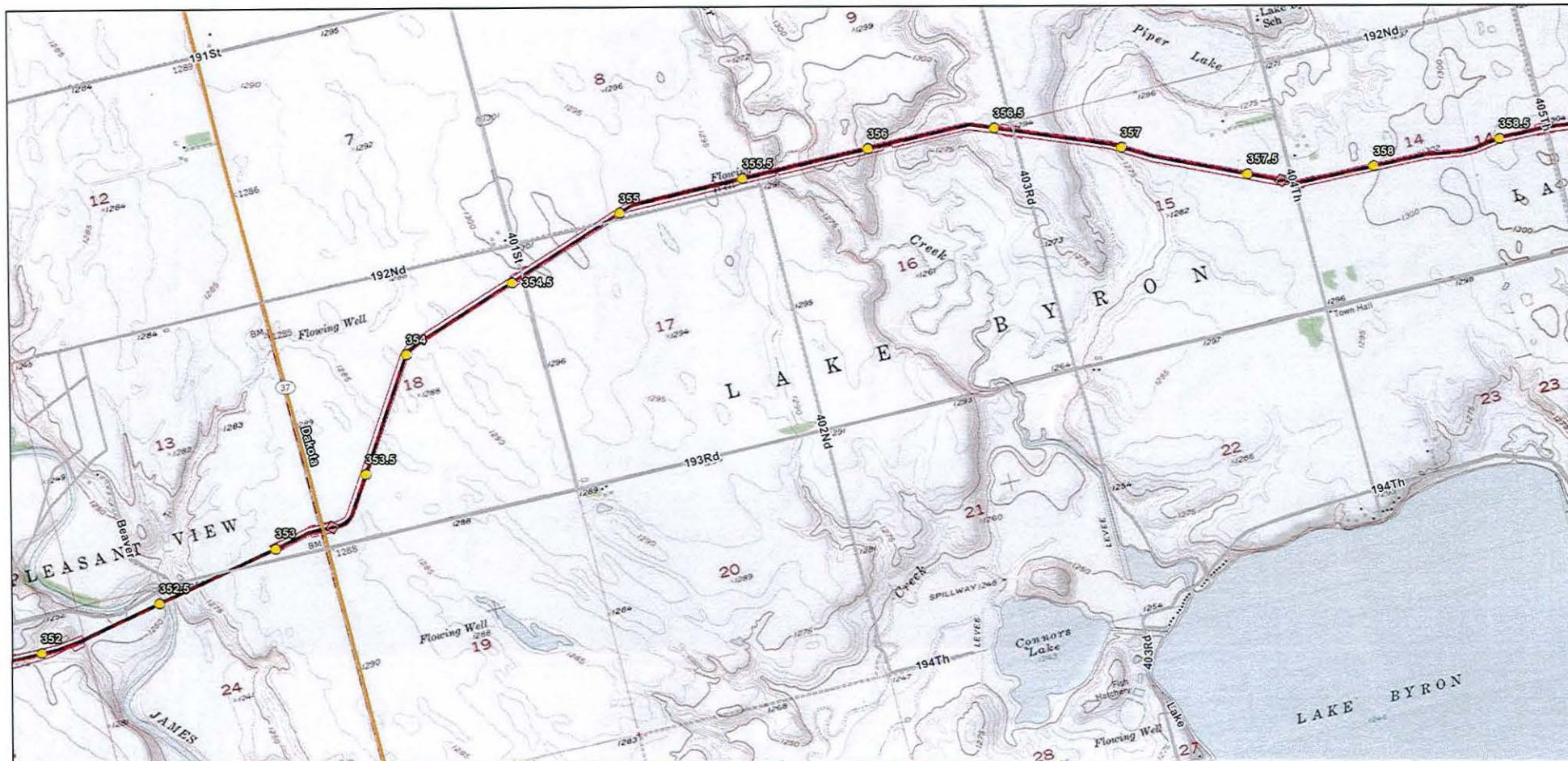


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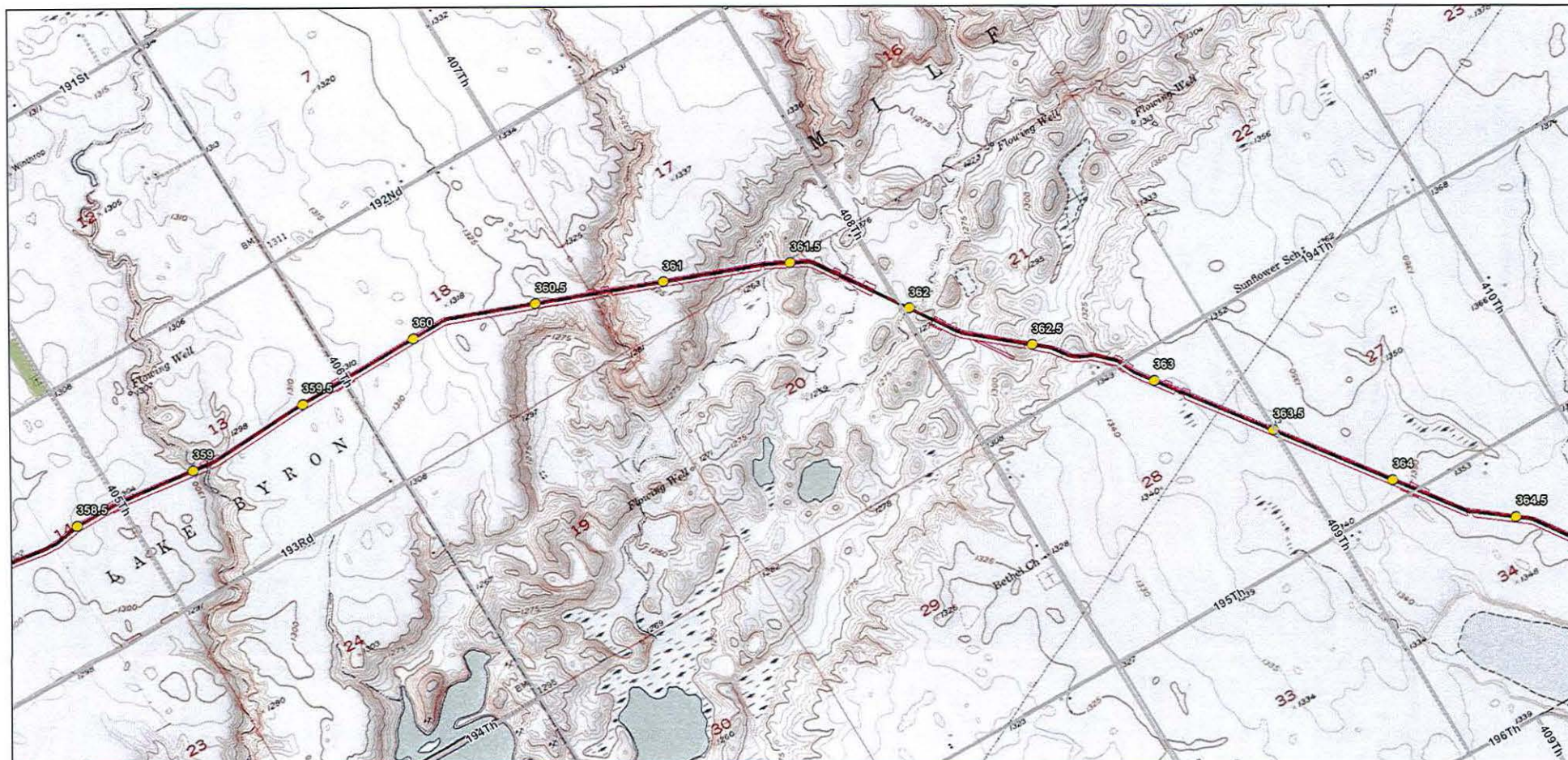
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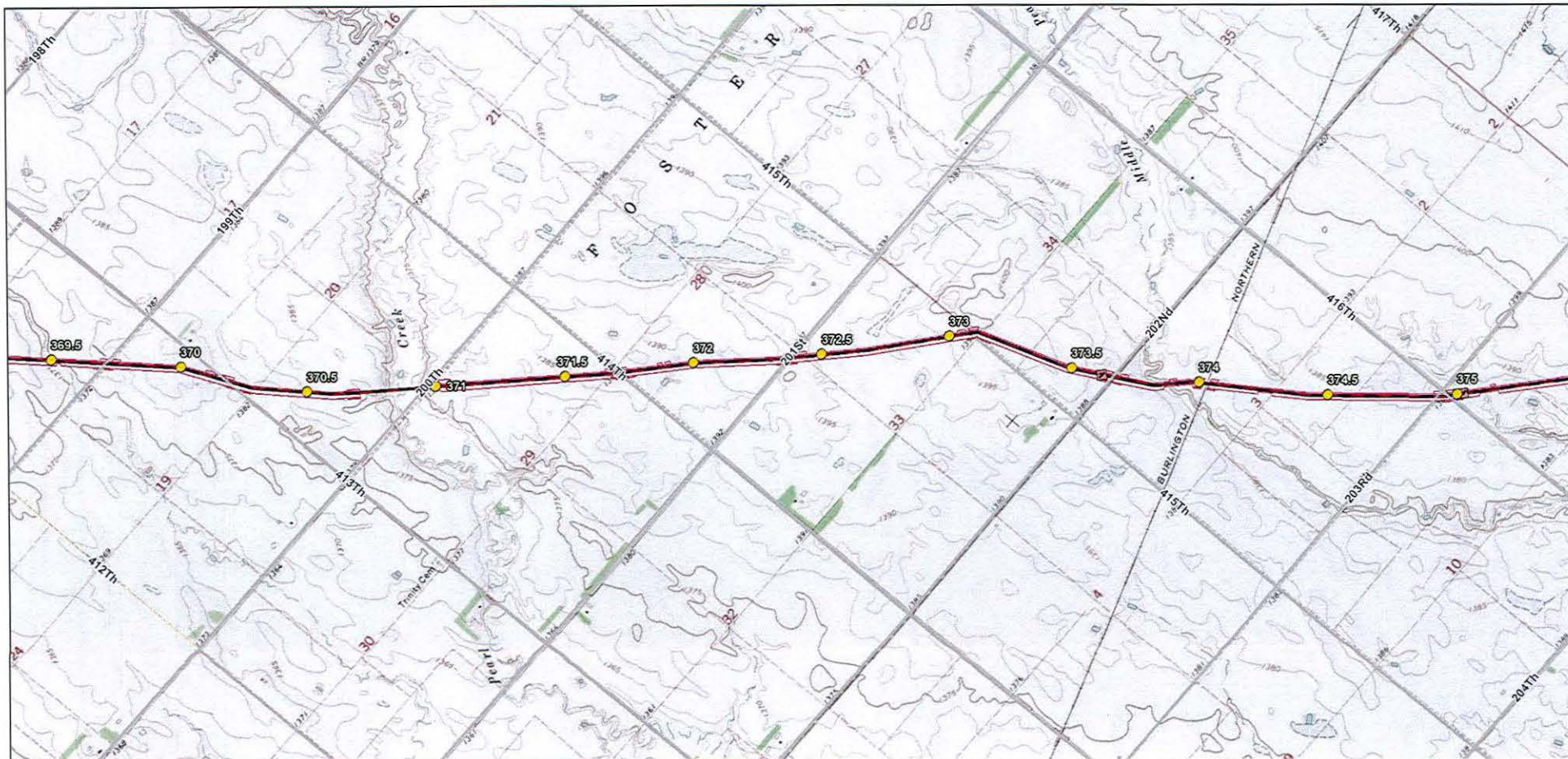
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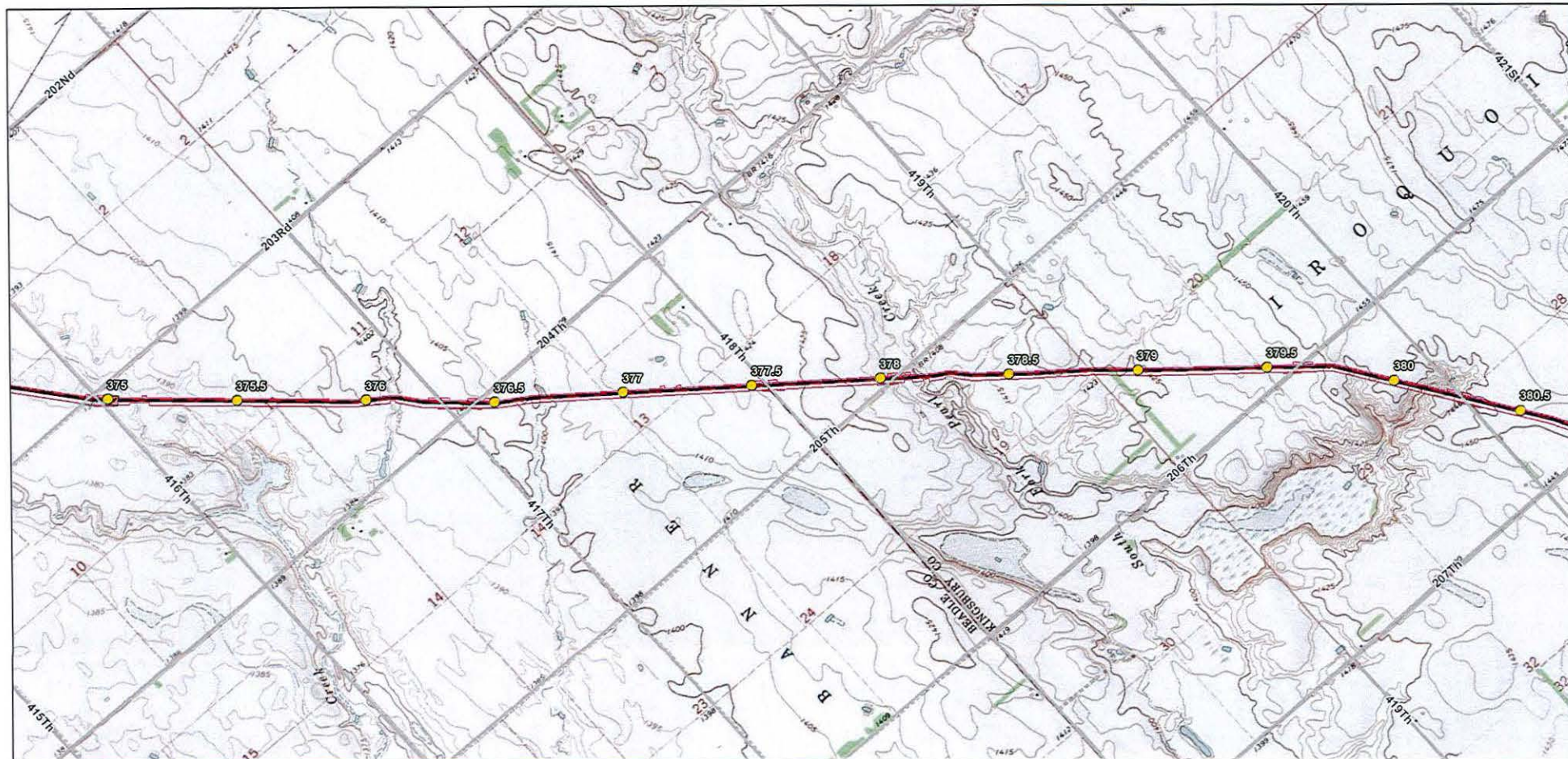


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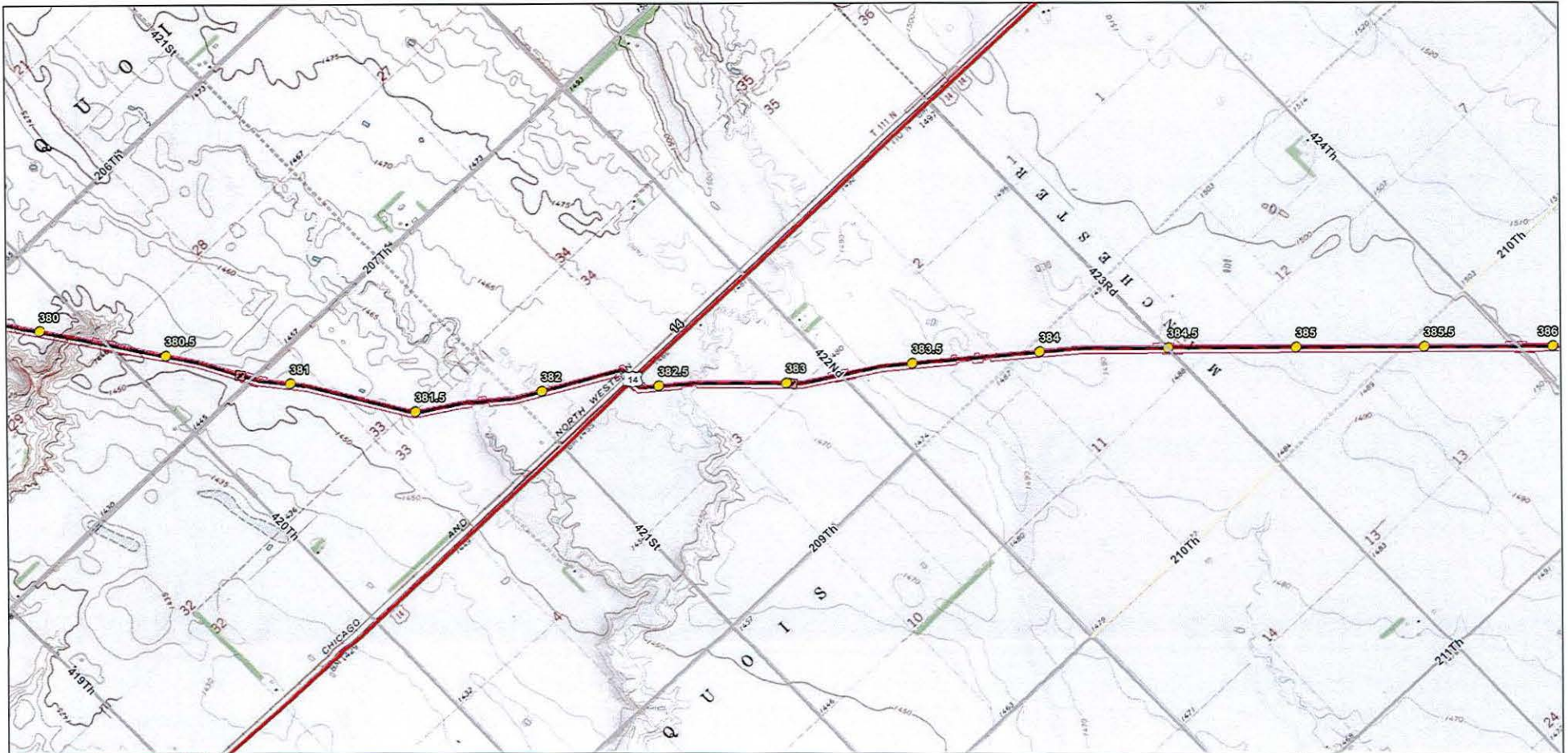
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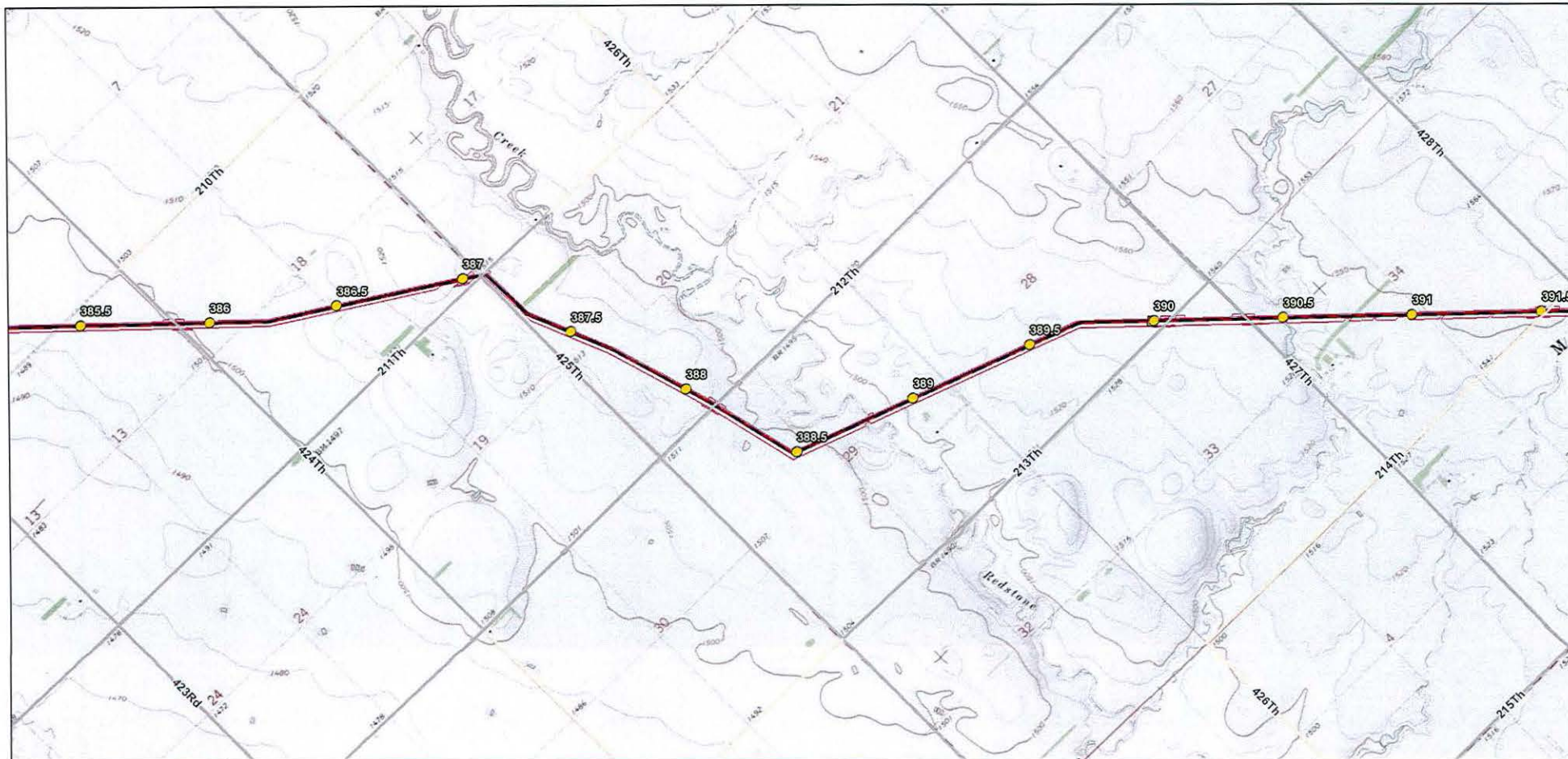


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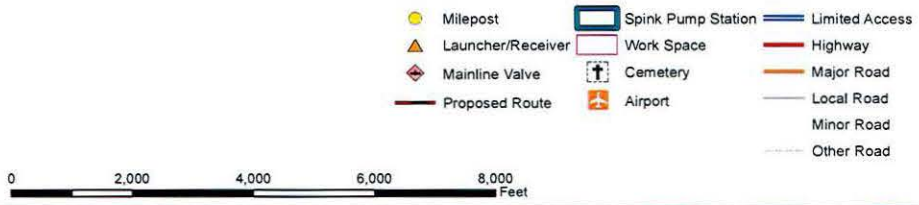
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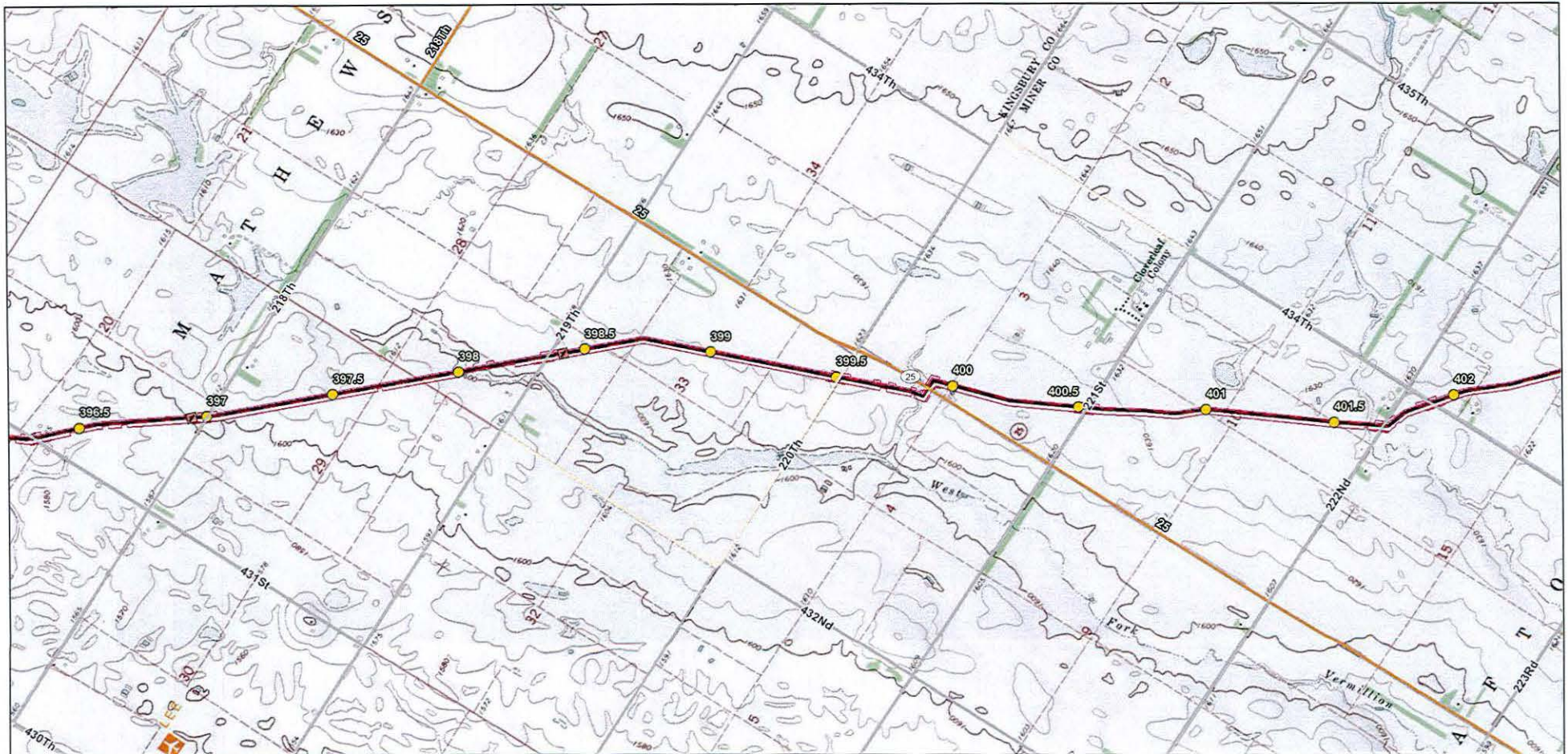
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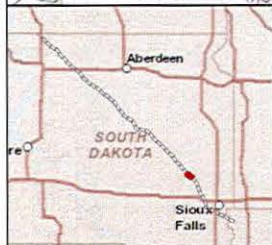
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- Spink Pump Station
- Work Space
- ⛔ Cemetery
- ✈ Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

0 2,000 4,000 6,000 8,000 Feet



Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota





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|---------------------|----------------------|------------------|
| ● Milepost | ▭ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | ▭ Work Space | — Highway |
| ◆ Mainline Valve | ⛶ Cemetery | — Major Road |
| — Proposed Route | ✈ Airport | — Local Road |
| | | — Minor Road |
| | | — Other Road |

0 2,000 4,000 6,000 8,000 Feet



Dakota Access, LLC
Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota



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|---------------------|----------------------|------------------|
| ● Milepost | □ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | □ Work Space | — Highway |
| ◆ Mainline Valve | ⊕ Cemetery | — Major Road |
| — Proposed Route | ✈ Airport | — Local Road |
| | | — Minor Road |
| | | — Other Road |

0 2,000 4,000 6,000 8,000 Feet



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Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota



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| ● Milepost | □ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | □ Work Space | — Highway |
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| — Proposed Route | ✈ Airport | — Local Road |
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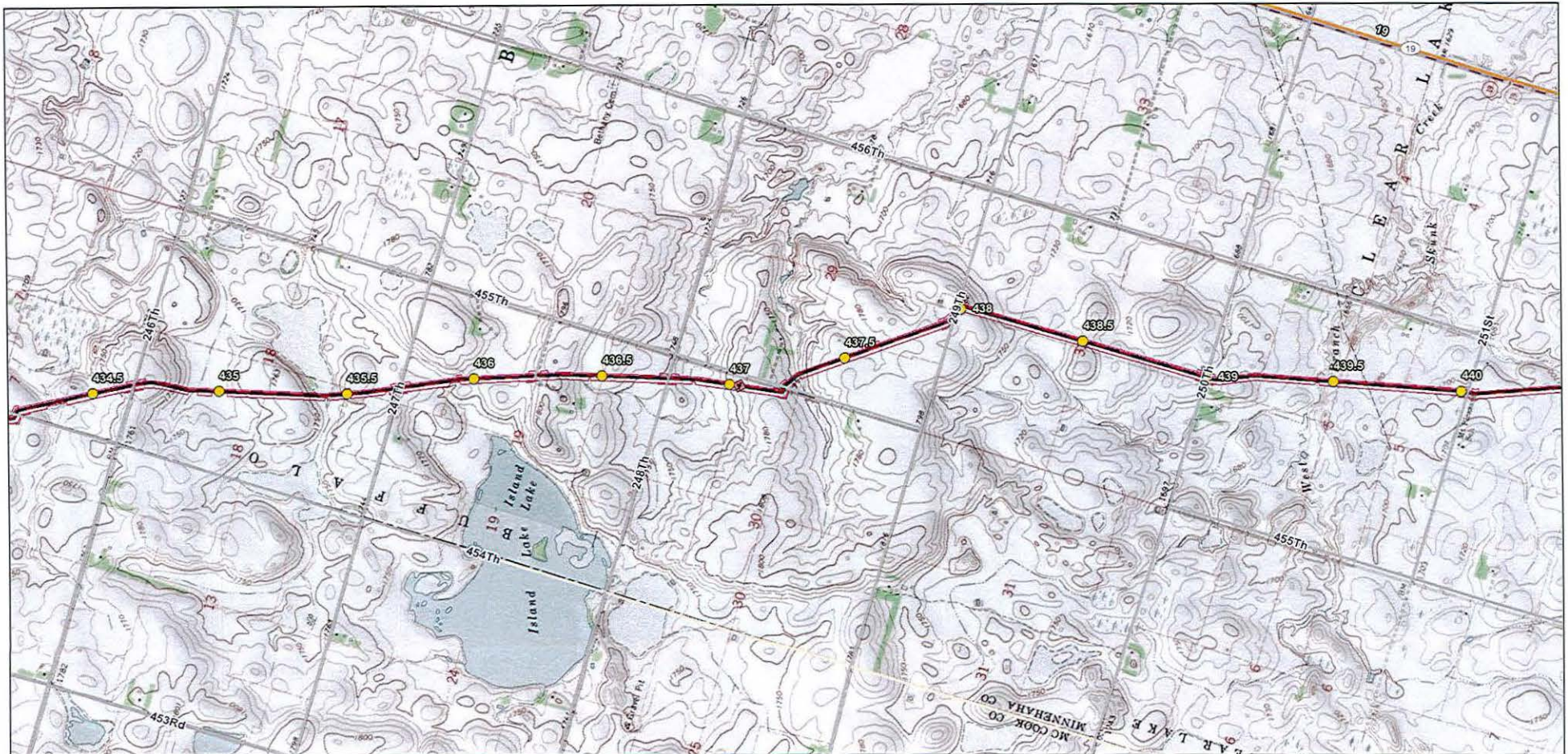
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Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota



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| ● Milepost | □ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | □ Work Space | — Highway |
| ◆ Mainline Valve | ⊕ Cemetery | — Major Road |
| — Proposed Route | ✈ Airport | — Local Road |
| | | — Minor Road |
| | | — Other Road |

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General Site/Topographic Map
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|---------------------|----------------------|------------------|
| ● Milepost | ◻ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | ◻ Work Space | — Highway |
| ◆ Mainline Valve | ⊕ Cemetery | — Major Road |
| — Proposed Route | ✈ Airport | — Local Road |
| | | — Minor Road |
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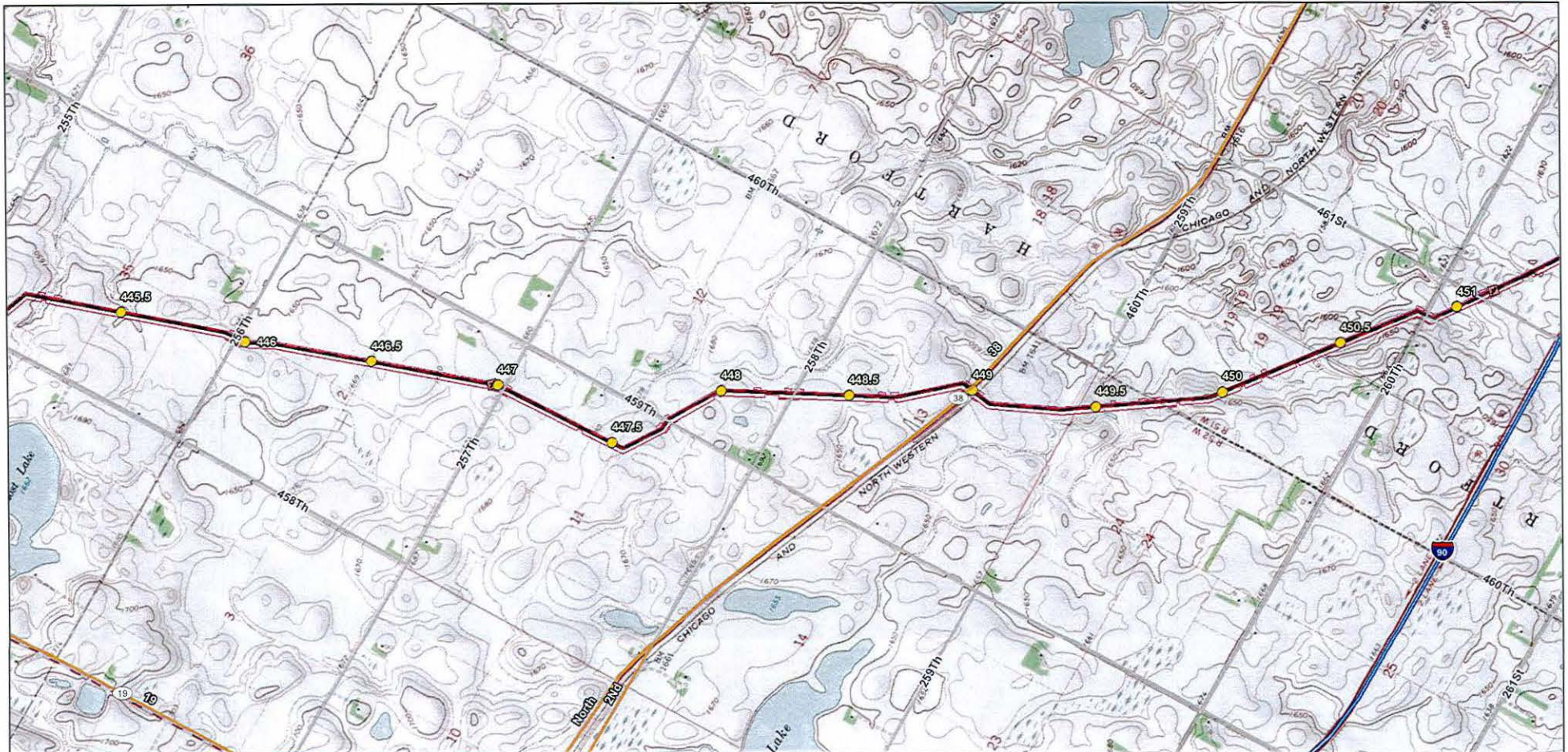
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South Dakota



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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- Cemetery
- Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

0 2,000 4,000 6,000 8,000 Feet



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| ● Milepost | ▭ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | ▭ Work Space | — Highway |
| ◆ Mainline Valve | ⛶ Cemetery | — Major Road |
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| | | — Other Road |

0 2,000 4,000 6,000 8,000 Feet



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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- ⛑ Cemetery
- ✈ Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

0 2,000 4,000 6,000 8,000 Feet



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Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota





- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- ⊕ Cemetery
- ✈ Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

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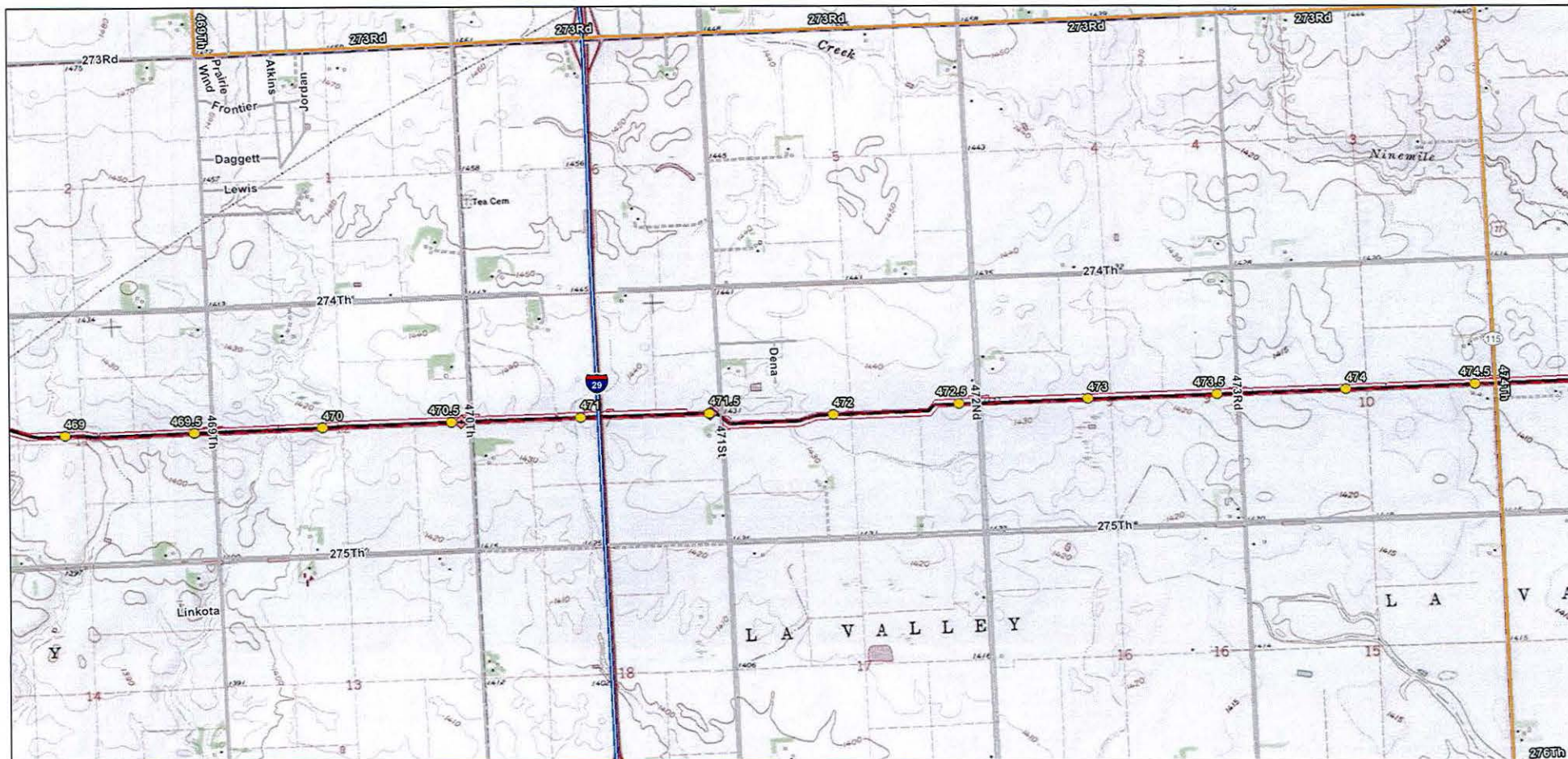


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Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota



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| ● Milepost | □ Spink Pump Station | — Limited Access |
| ▲ Launcher/Receiver | □ Work Space | — Highway |
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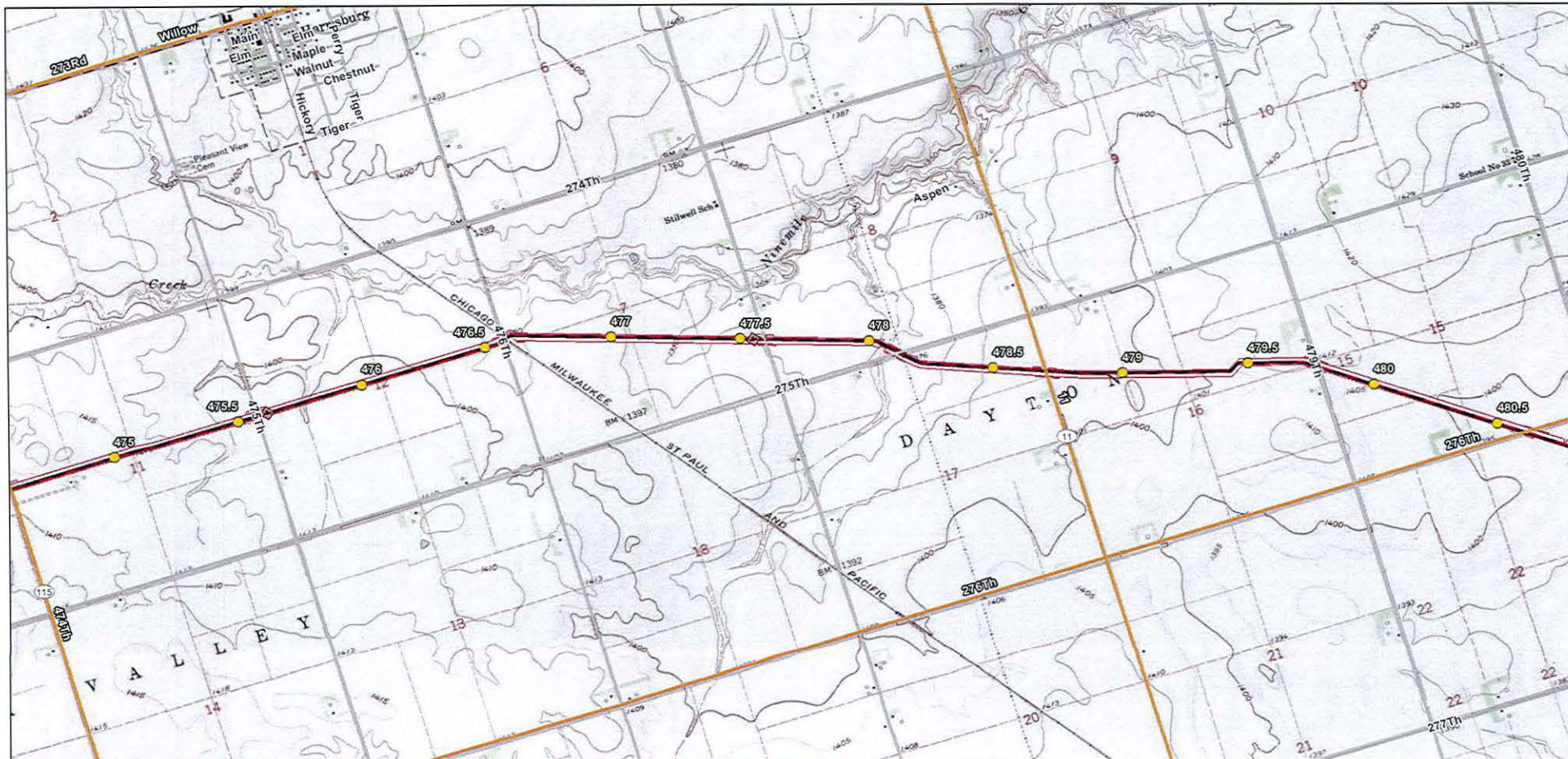
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Dakota Access Pipeline Project
General Site/Topographic Map
South Dakota



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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- ⛔ Cemetery
- ✈ Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

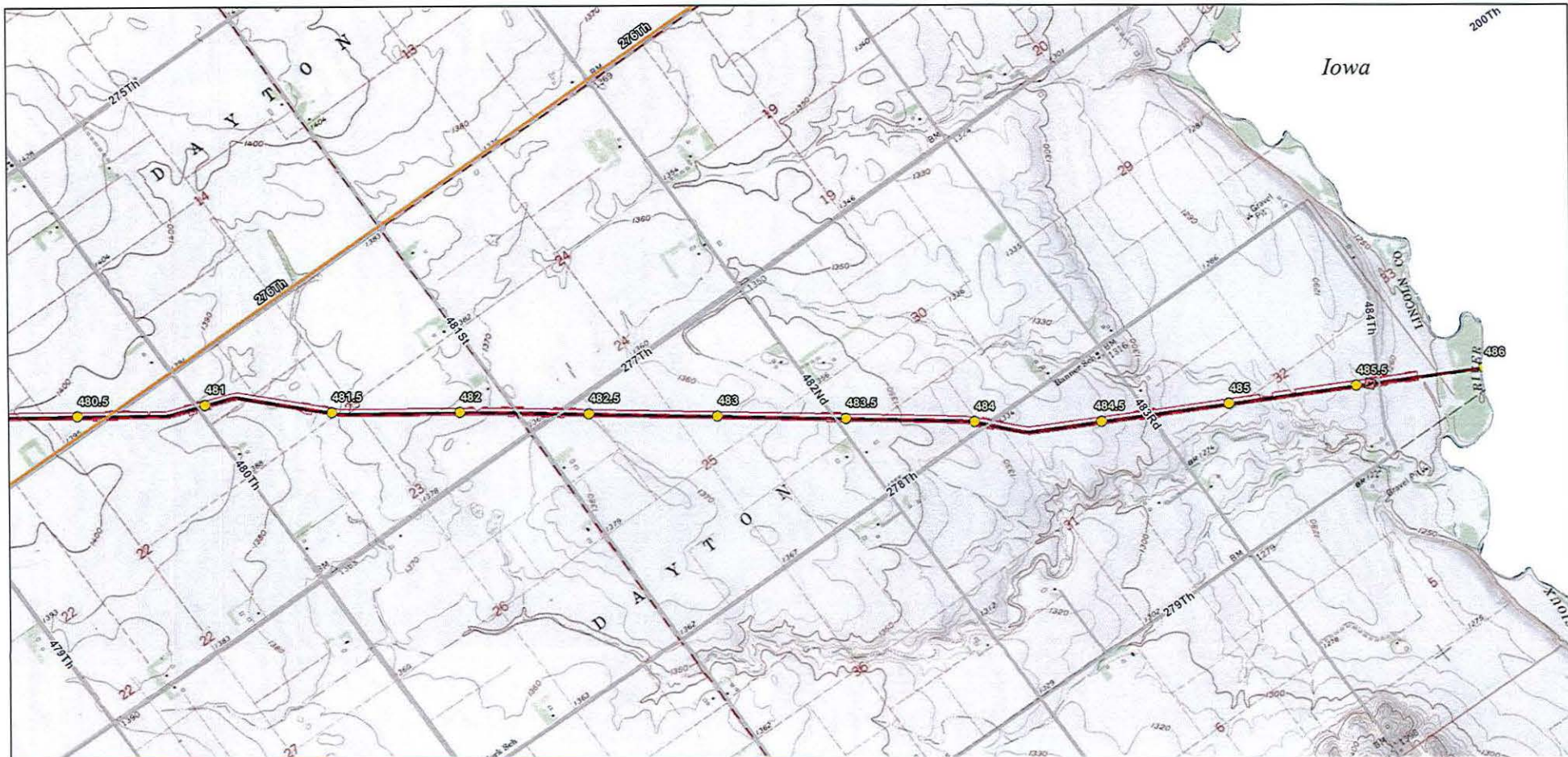
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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- Work Space
- ⛑ Cemetery
- ✈ Airport
- Limited Access
- Highway
- Major Road
- Local Road
- Minor Road
- Other Road

0 2,000 4,000 6,000 8,000 Feet



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Exhibit A3



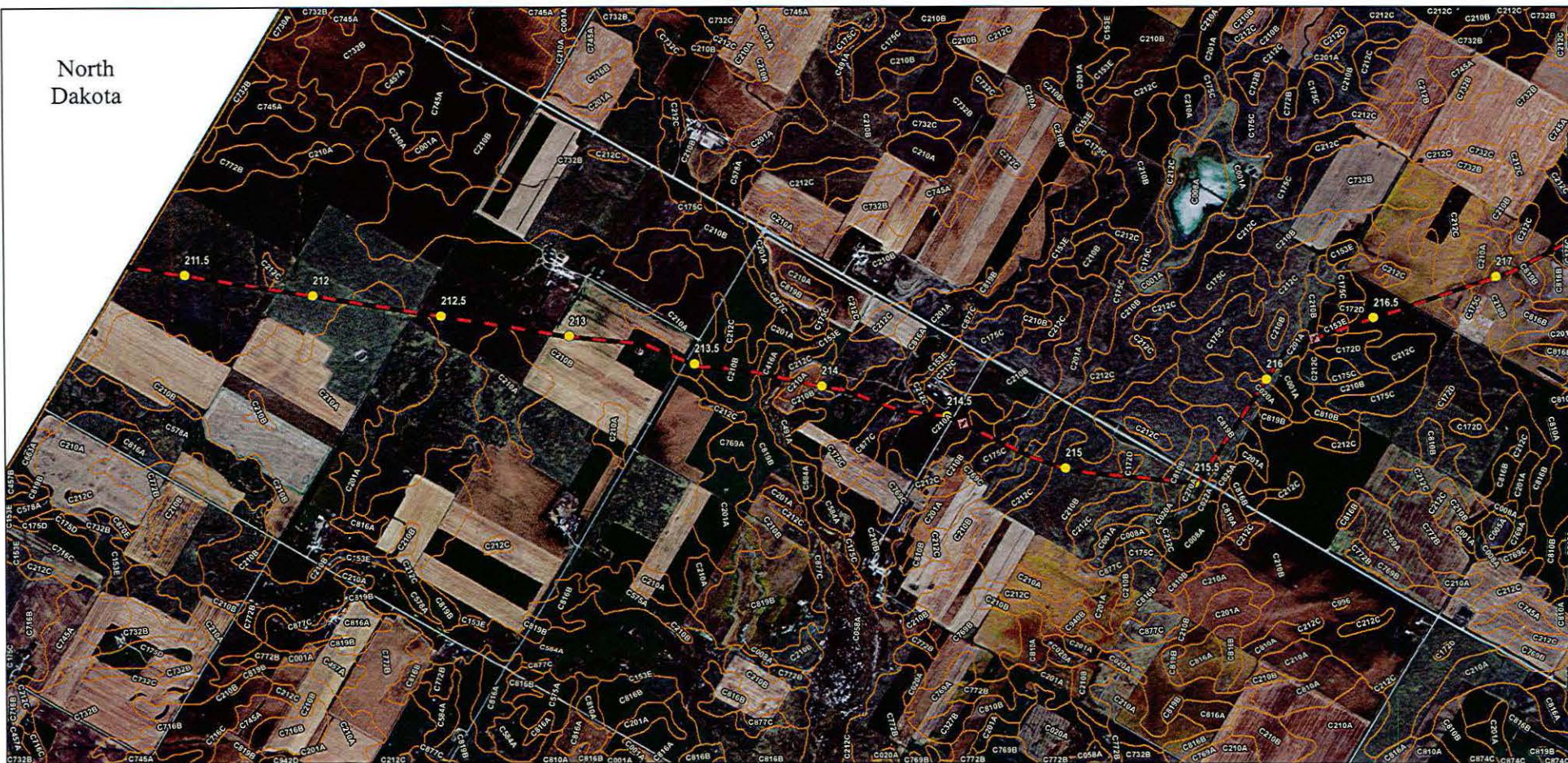
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Exhibit A
Project Mapping

Exhibit A3

Soil Maps

North
Dakota



- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- ▭ Spink Pump Station
- ▭ SSURGO Soils

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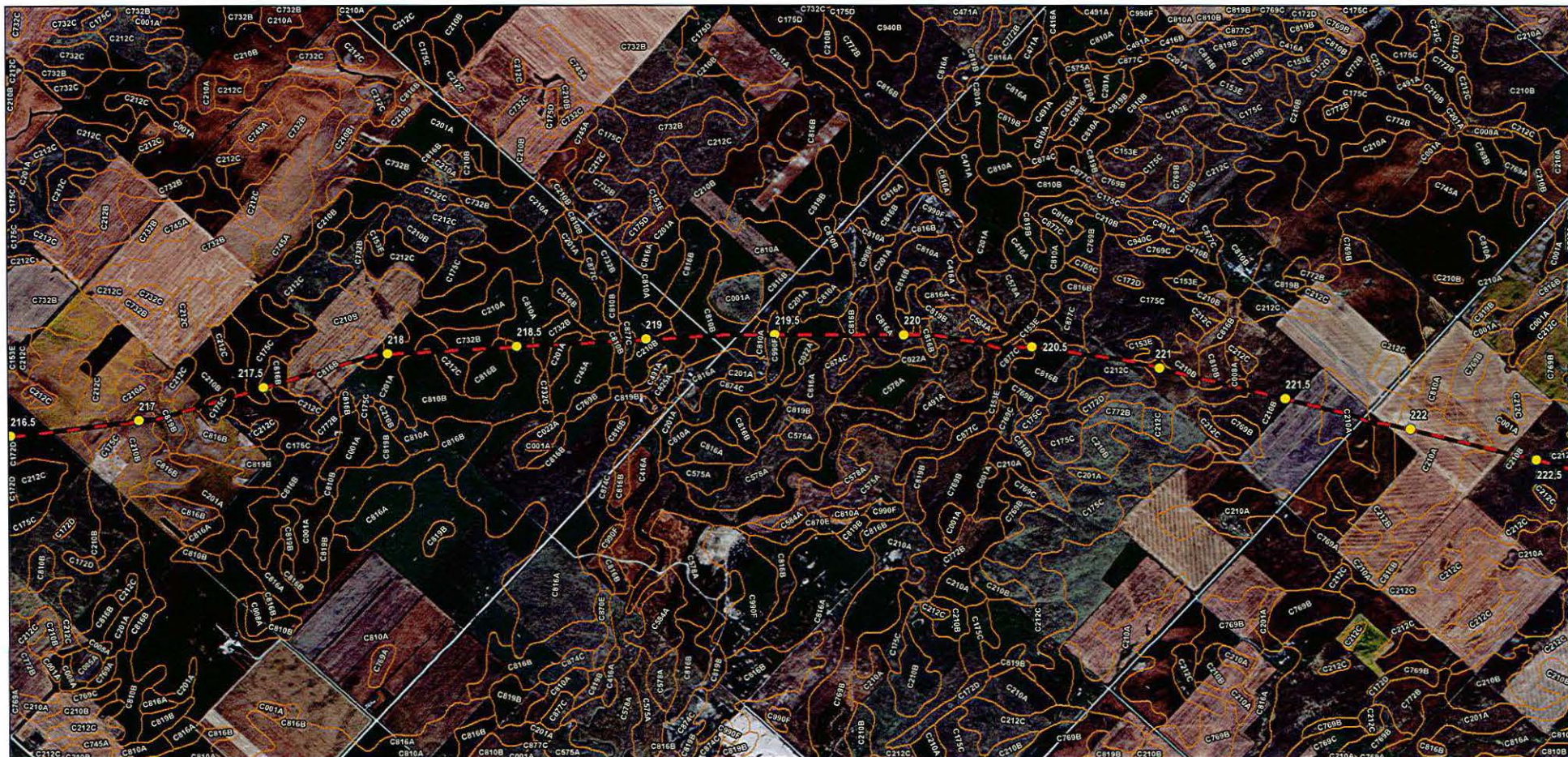


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SSURGO Soils
South Dakota



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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- ▭ Spink Pump Station
- ▭ SSURGO Soils

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Feet



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SSURGO Soils
South Dakota

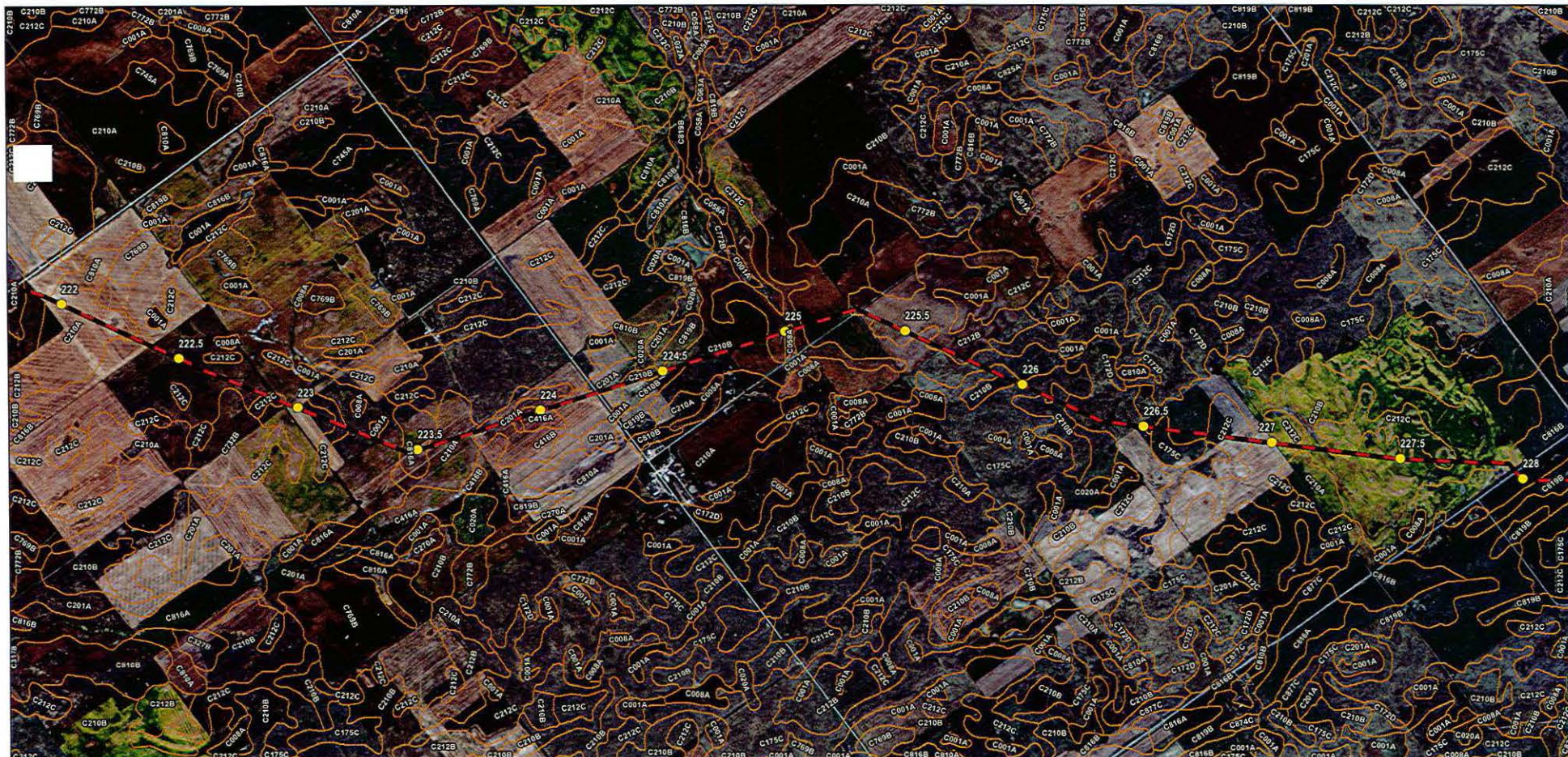


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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- ▭ Spink Pump Station
- ◆ Mainline Valve
- ▭ SSURGO Soils

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South Dakota



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- Milepost
- Proposed Route
- Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

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South Dakota



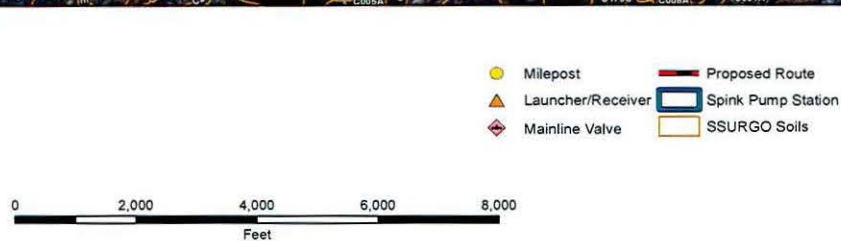
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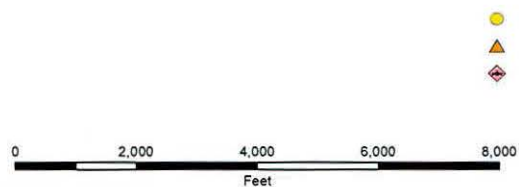
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SSURGO Soils
South Dakota

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 Milepost
  Proposed Route

 Launcher/Receiver
  Spink Pump Station

 Mainline Valve
  SSURGO Soils



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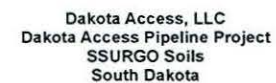
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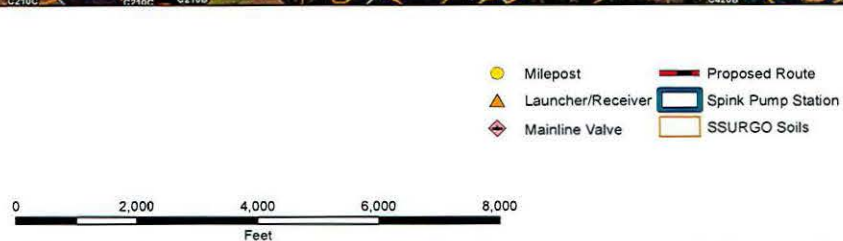
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- A horizontal number line representing distance in feet. The line has major tick marks at 0, 2,000, 4,000, 6,000, and 8,000. Two white rectangular bars are placed above the line. The first bar starts at 0 and ends at 2,000. The second bar starts at 4,000 and ends at 6,000.





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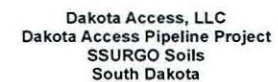
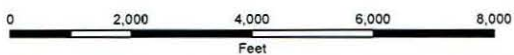
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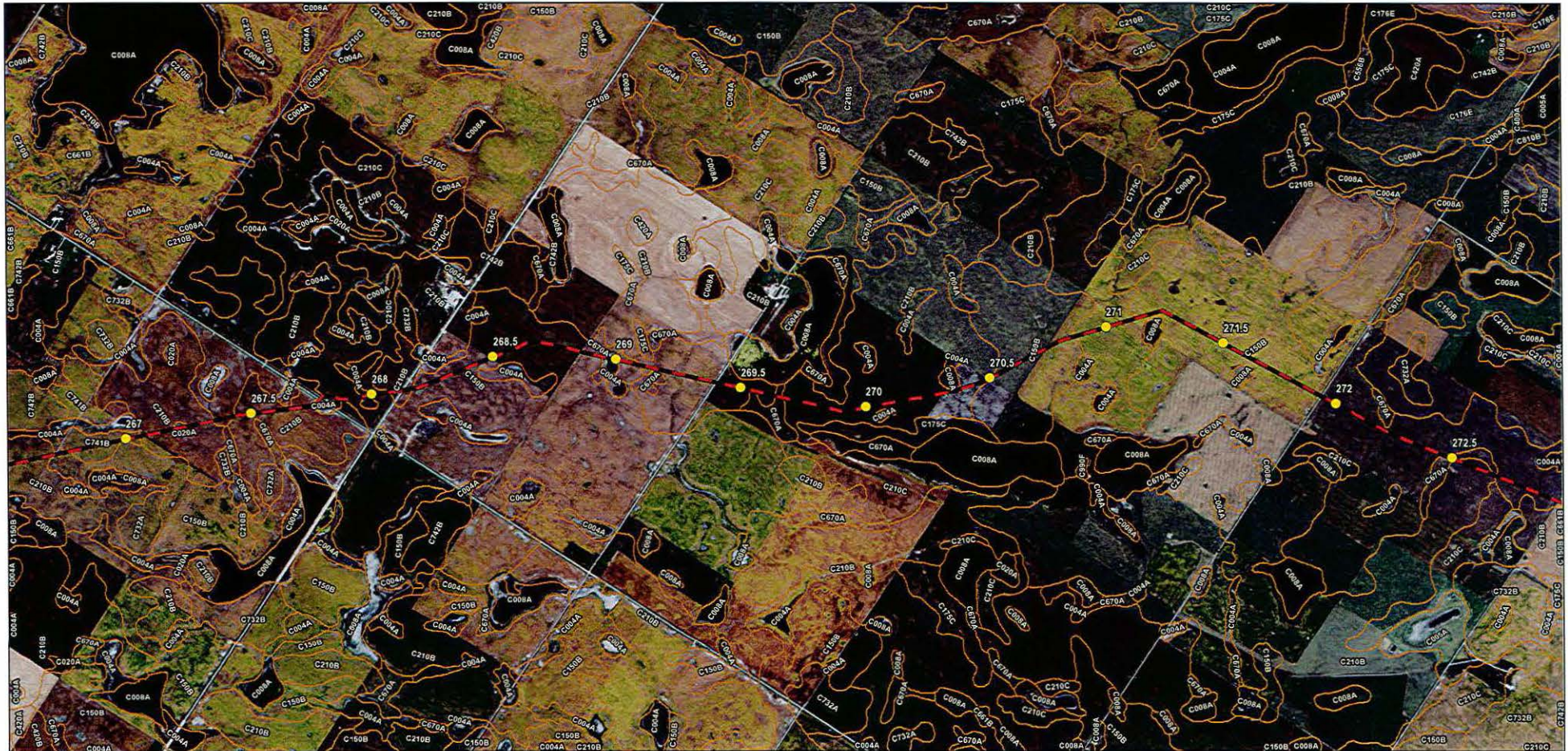
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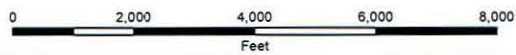


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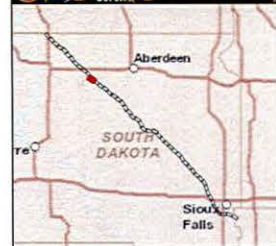
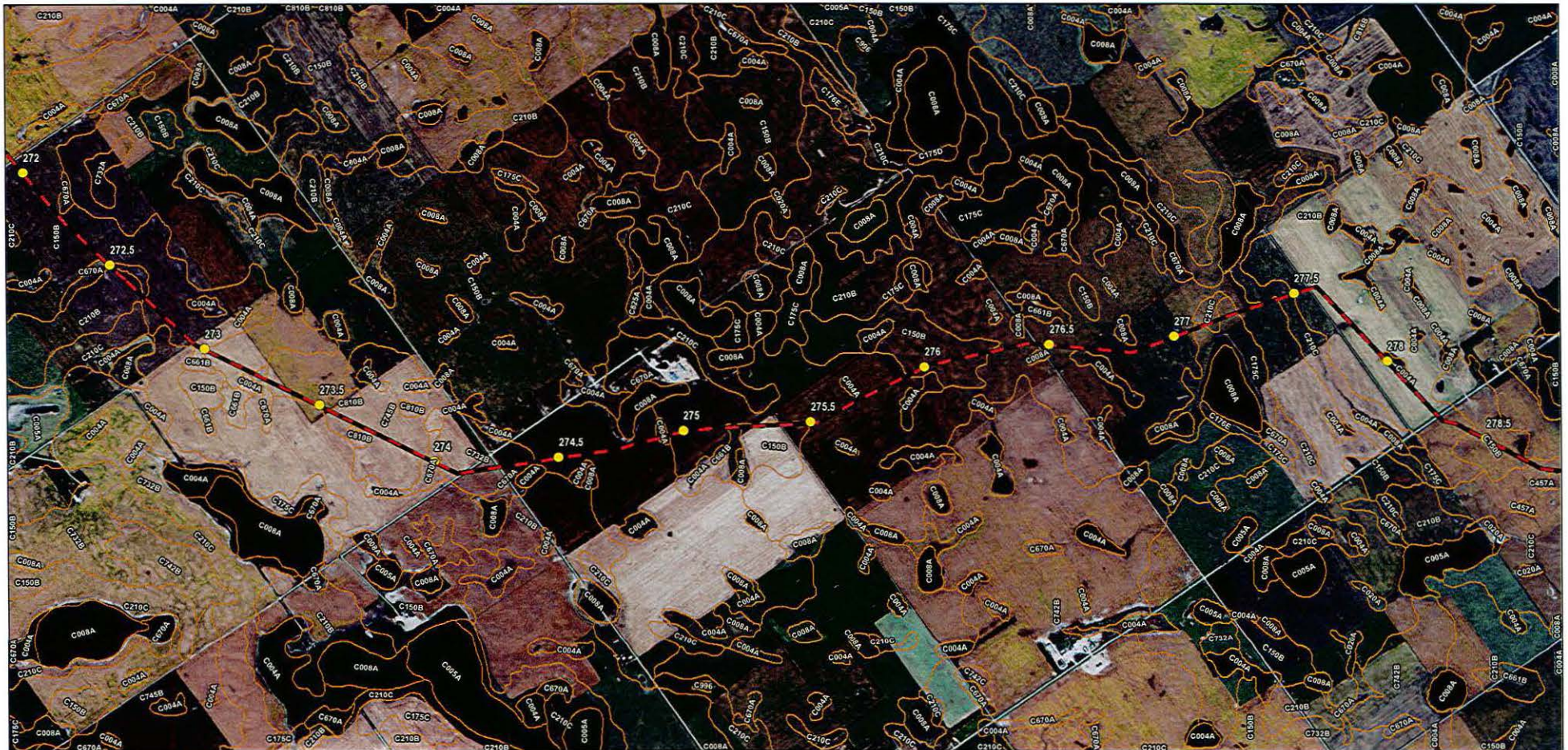
- Milepost
- Proposed Route
- ▢ Launcher/Receiver
- ▢ Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils



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South Dakota

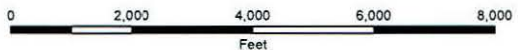


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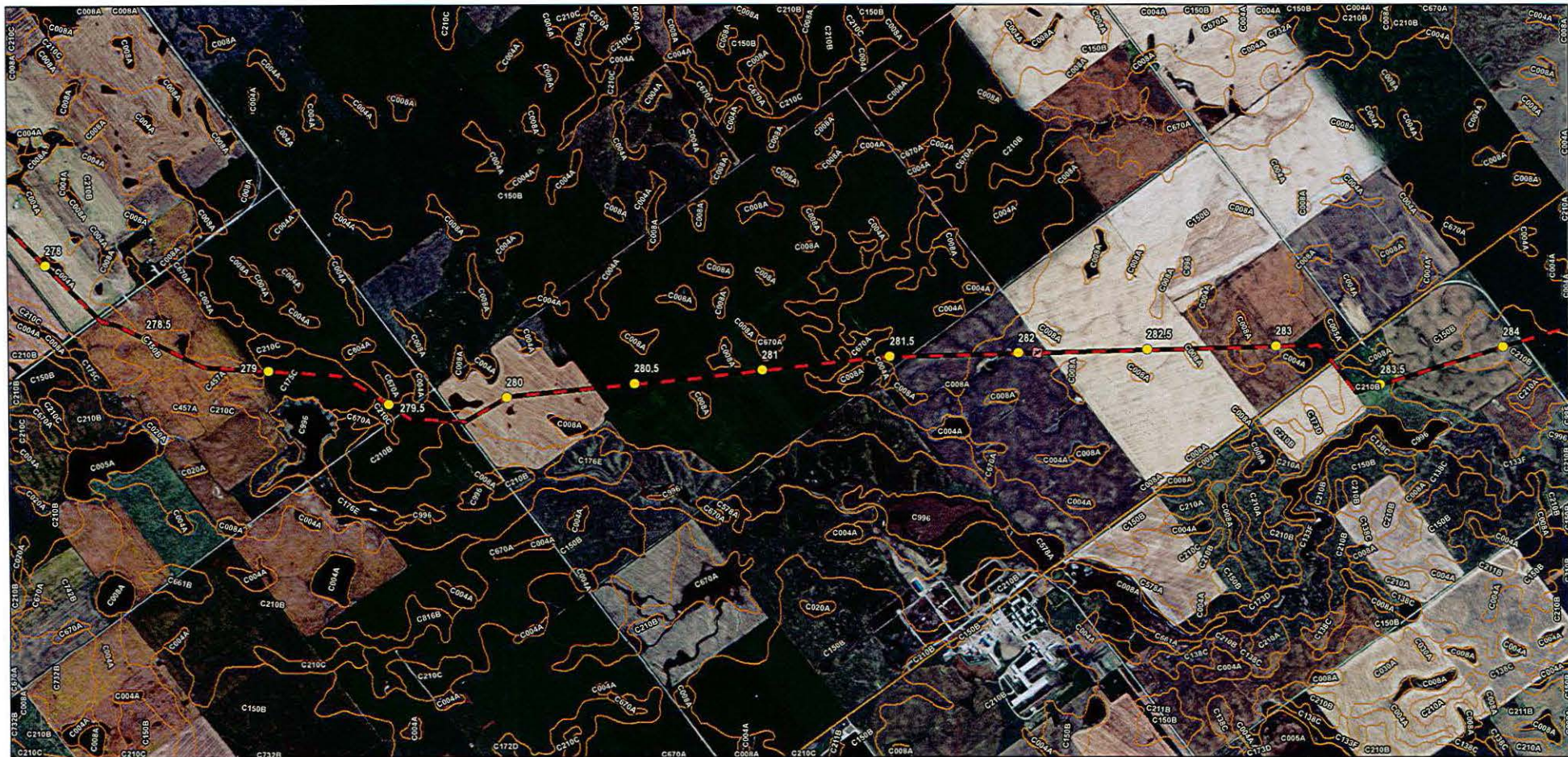
- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- ▭ Spink Pump Station
- ▭ SSURGO Soils



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SSURGO Soils
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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

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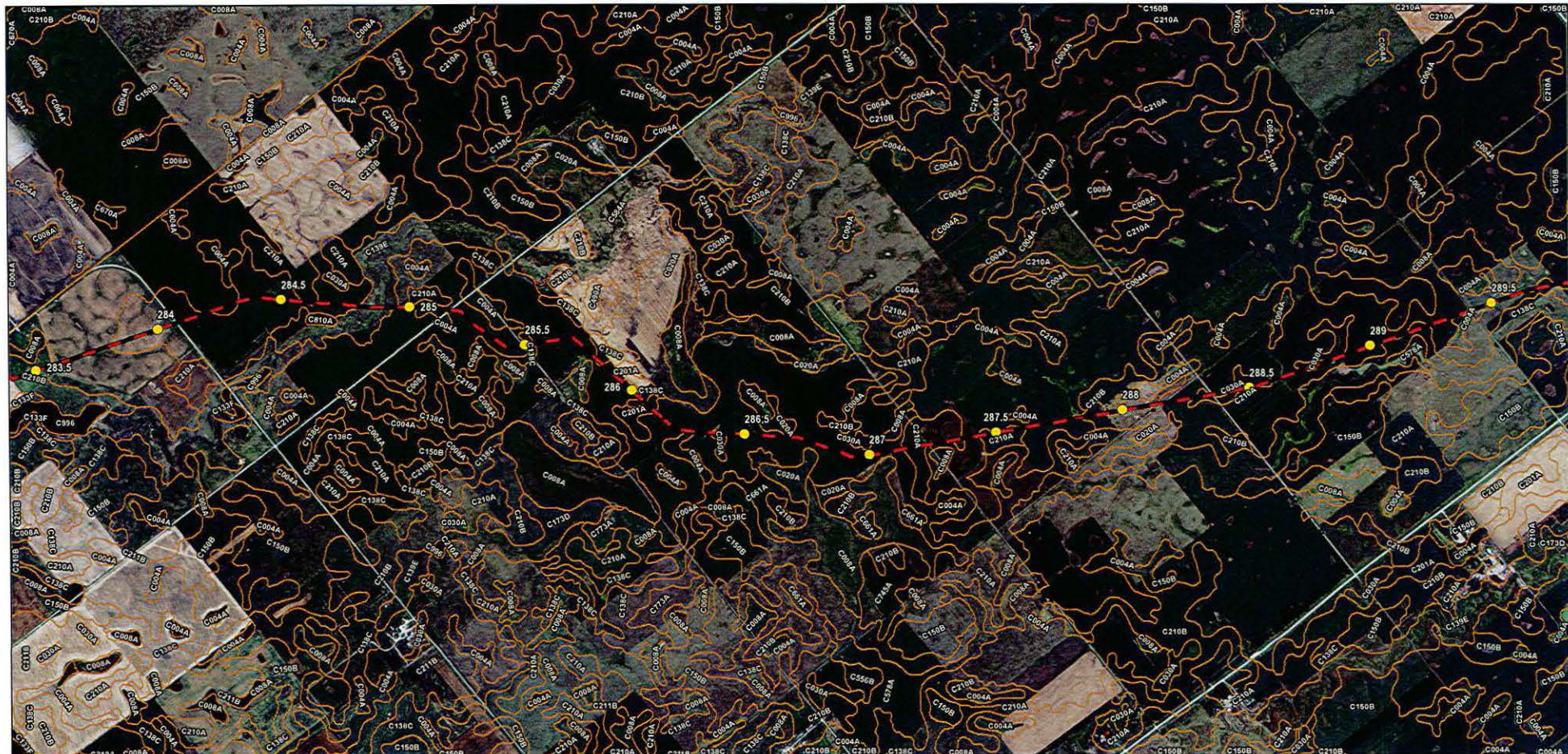


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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

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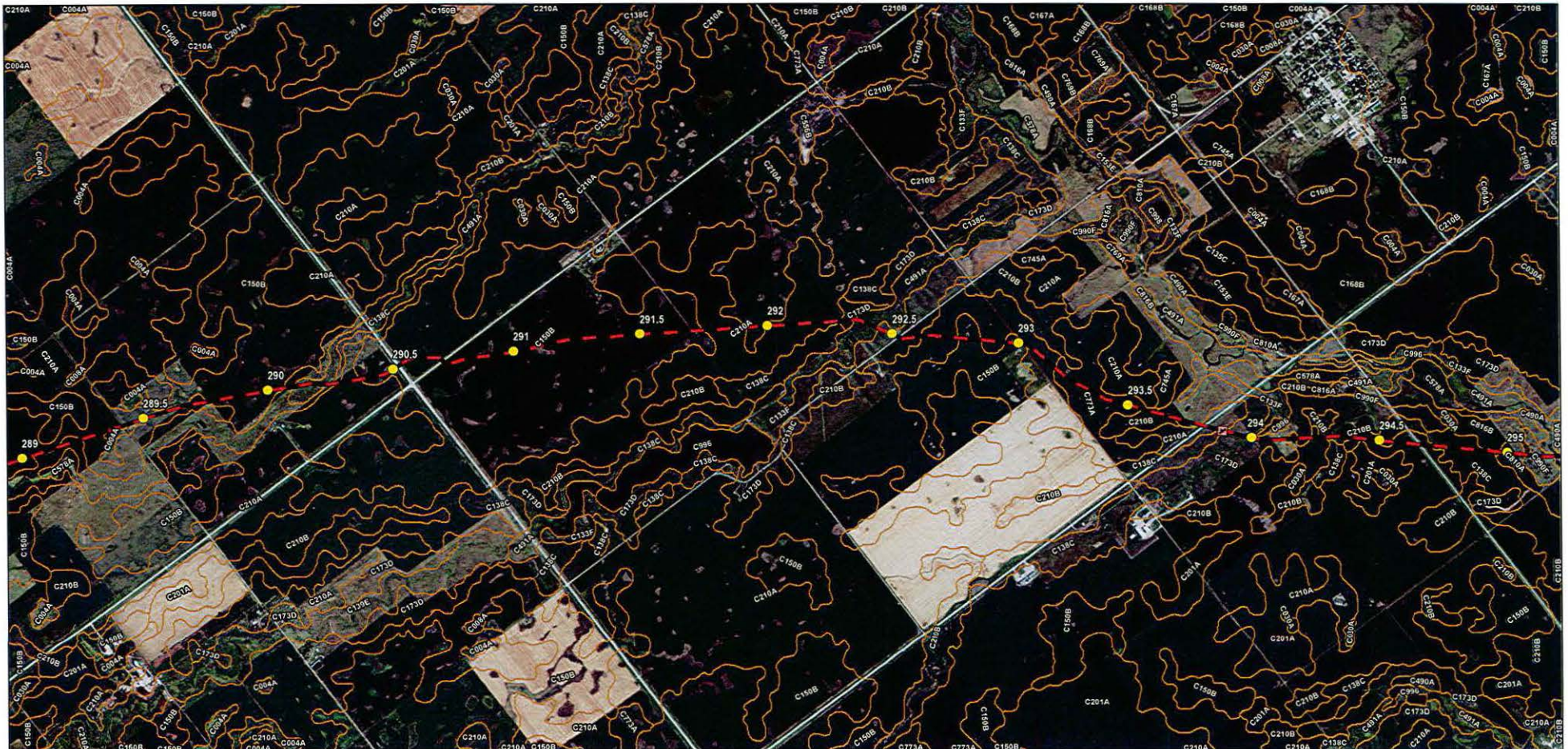
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South Dakota



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South Dakota

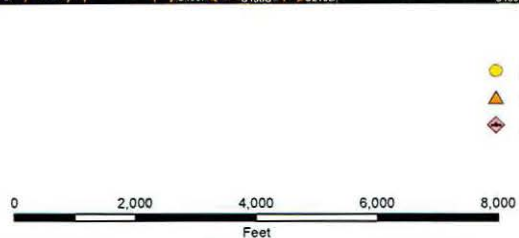
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 Milepost
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 Launcher/Receiver
  Spink Pump Station

 Mainline Valve
  SSURGO Soils

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South Dakota

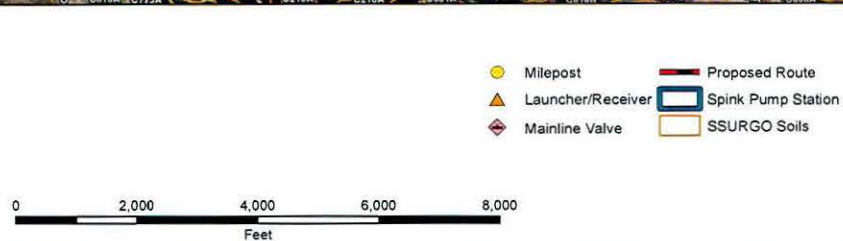
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South Dakota

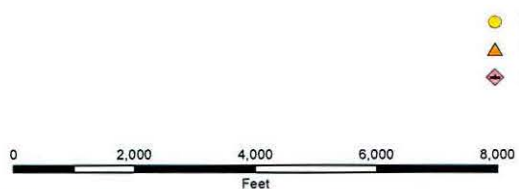
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	Milepost		Proposed Route
	Launcher/Receiver		Spink Pump Station
	Mainline Valve		SSURGO Soils



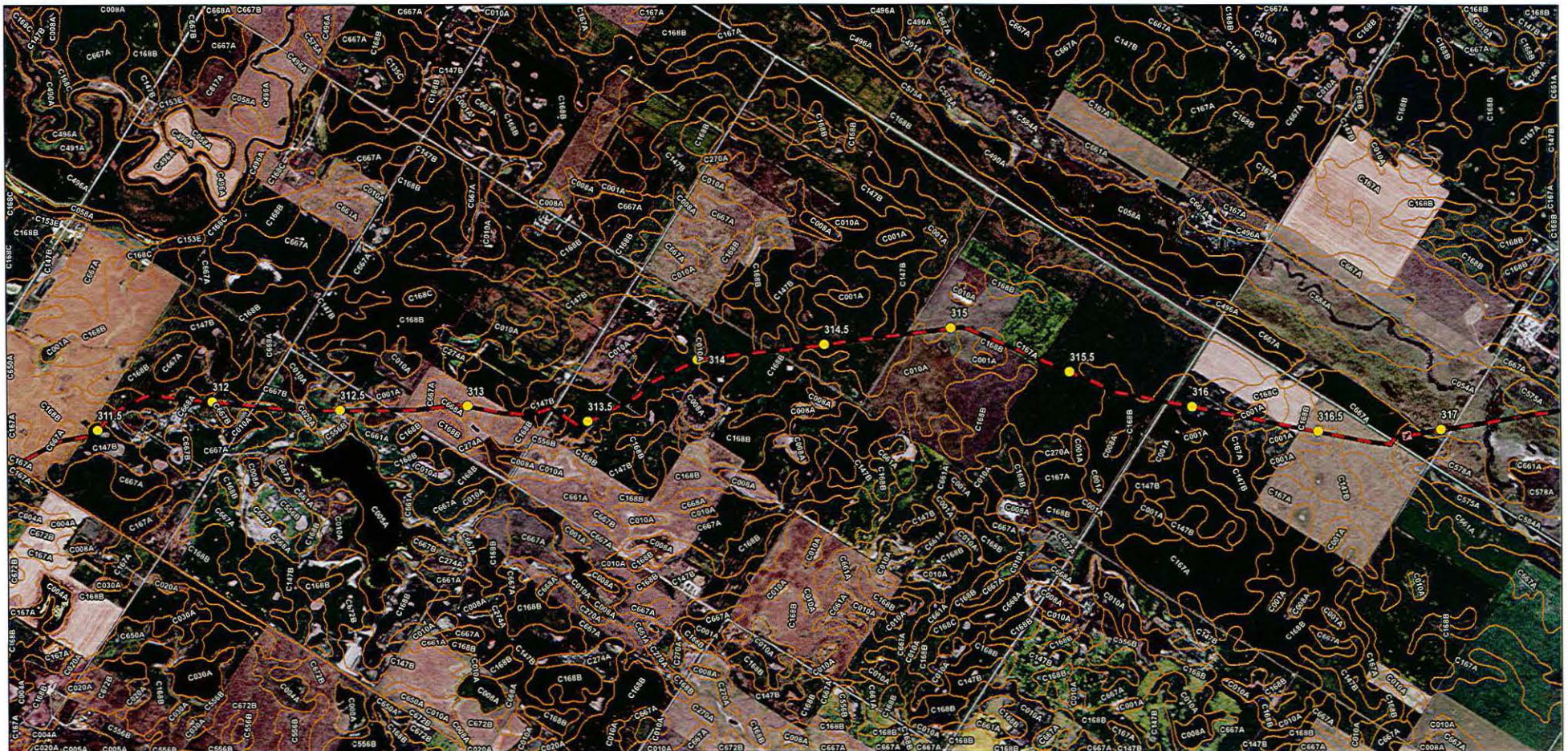
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SSURGO Soils
South Dakota

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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

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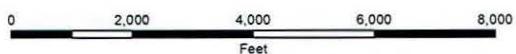
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SSURGO Soils
South Dakota

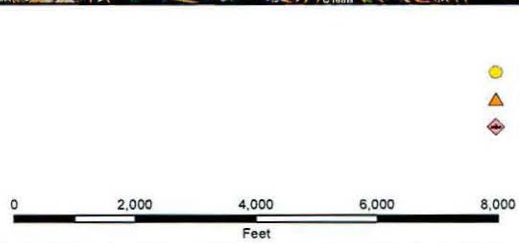
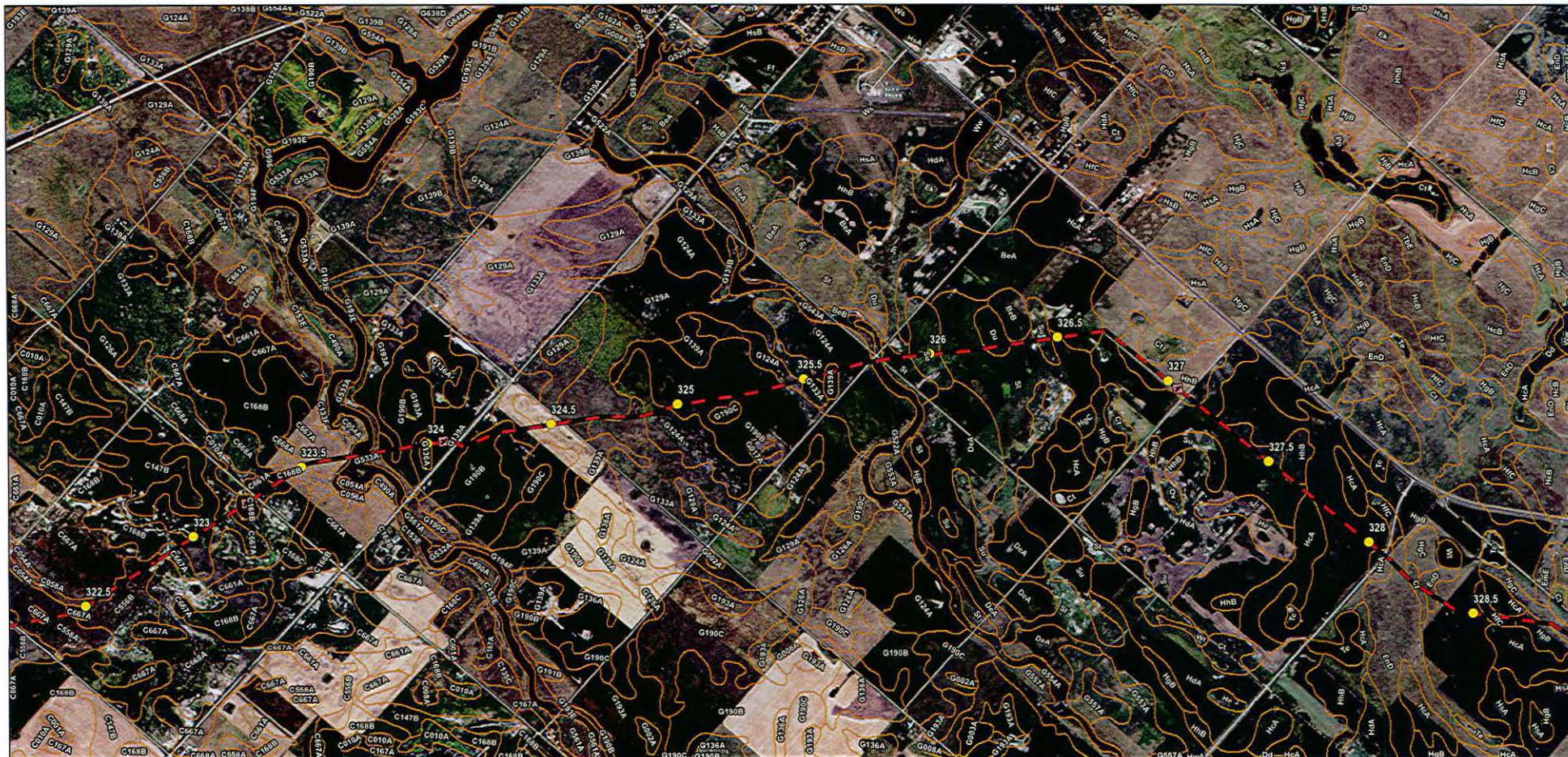


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- Milepost
- Proposed Route
- ▭ Spink Pump Station
- ▭ SSURGO Soils
- ▲ Launcher/Receiver
- ◆ Mainline Valve



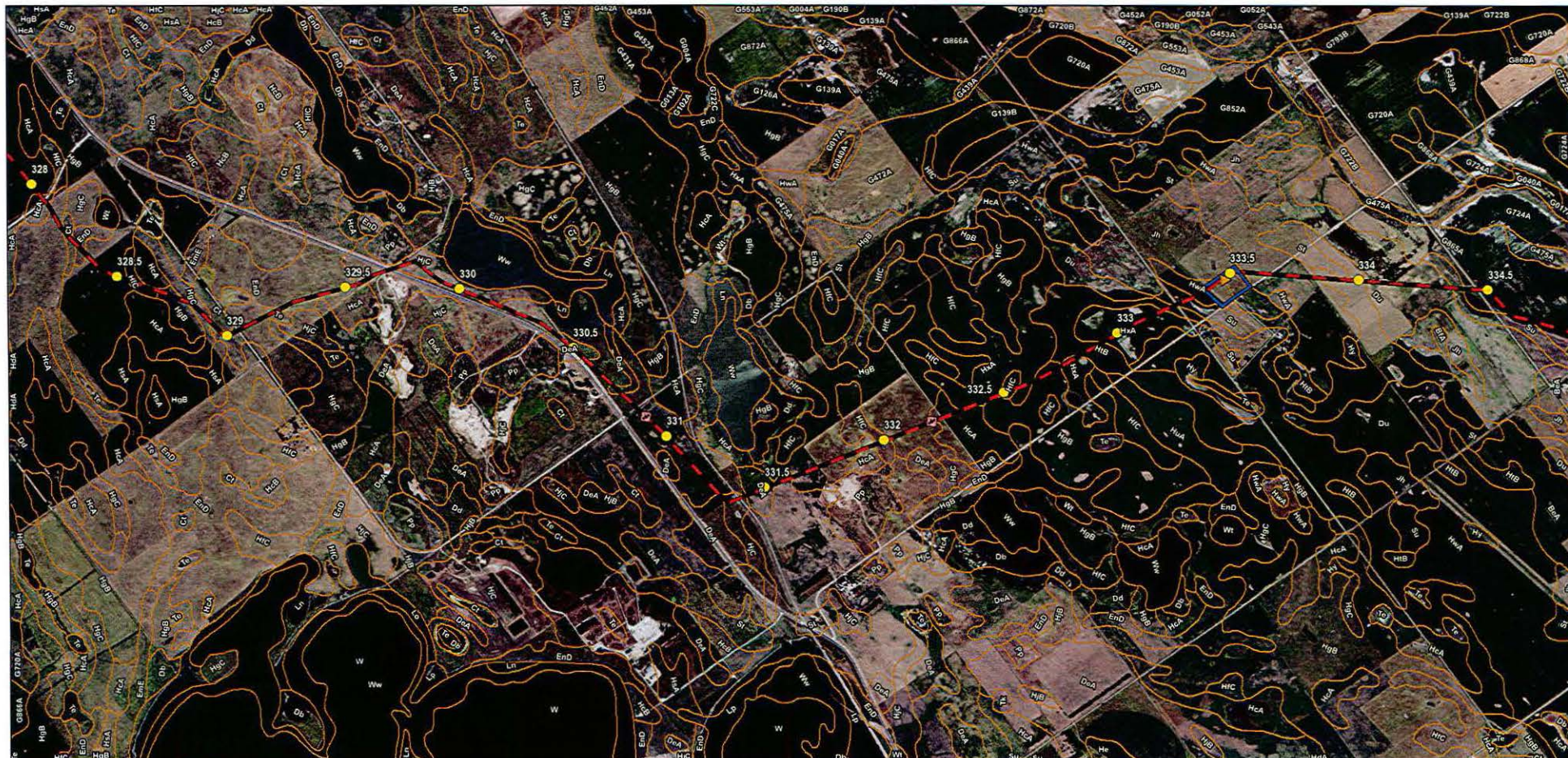
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- Milepost
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- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

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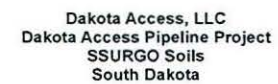
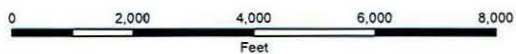


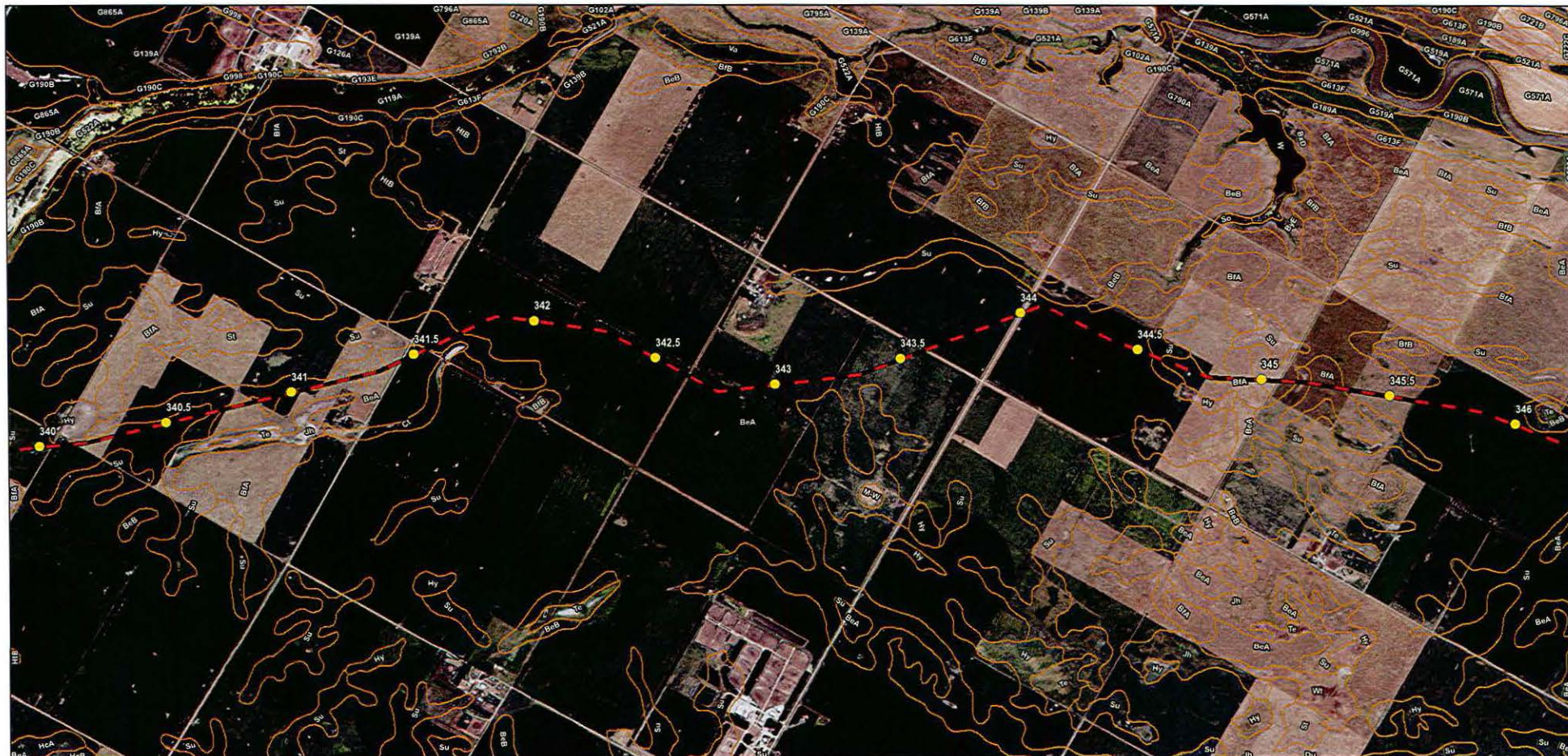
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SSURGO Soils
South Dakota



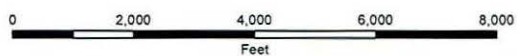
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NAD 83 South Dakota South Ft. Date: September 2015





- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils



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Dakota Access Pipeline Project
SSURGO Soils
South Dakota



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Date: September 2015



- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

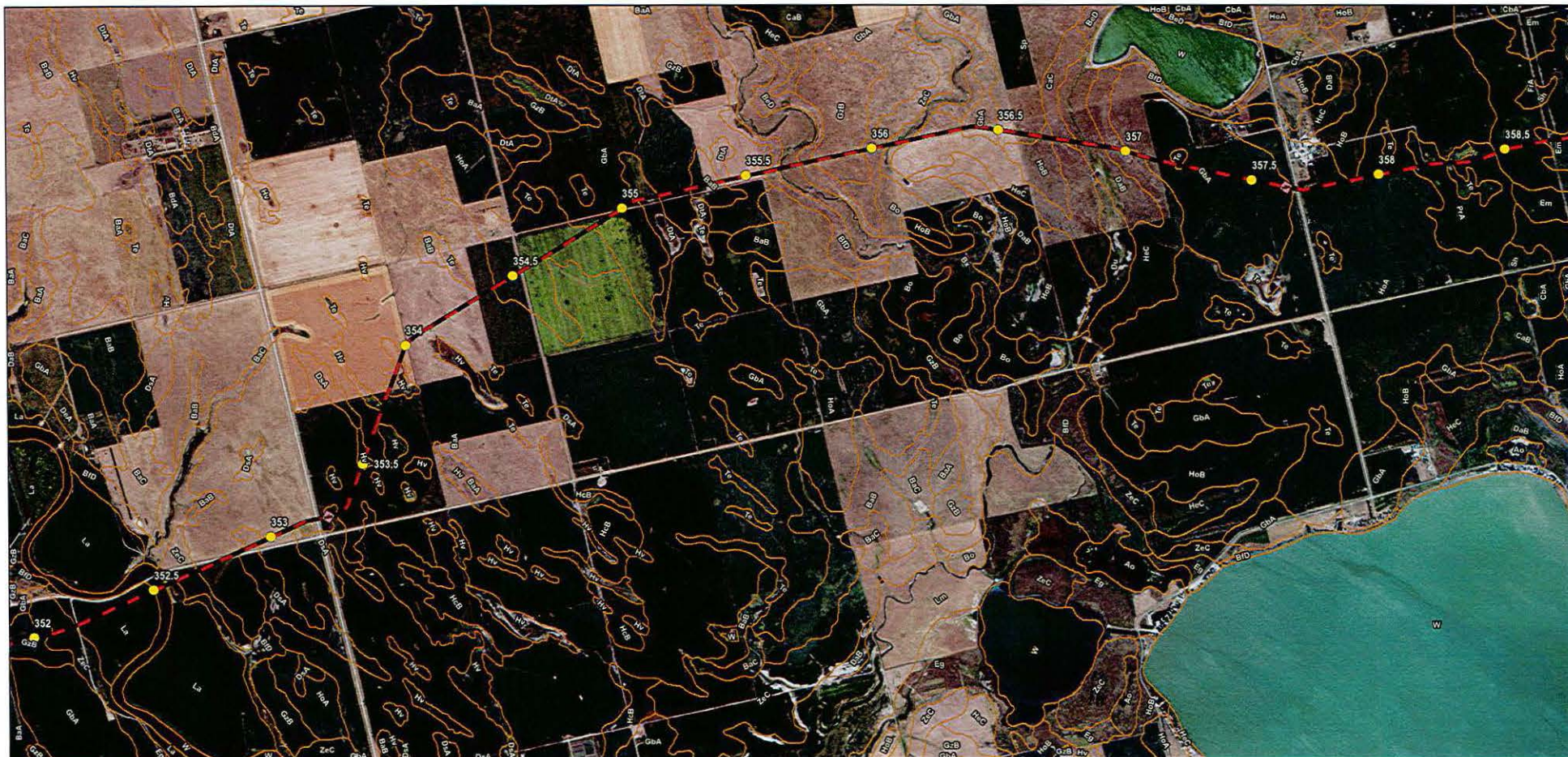
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Dakota Access Pipeline Project
SSURGO Soils
South Dakota



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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

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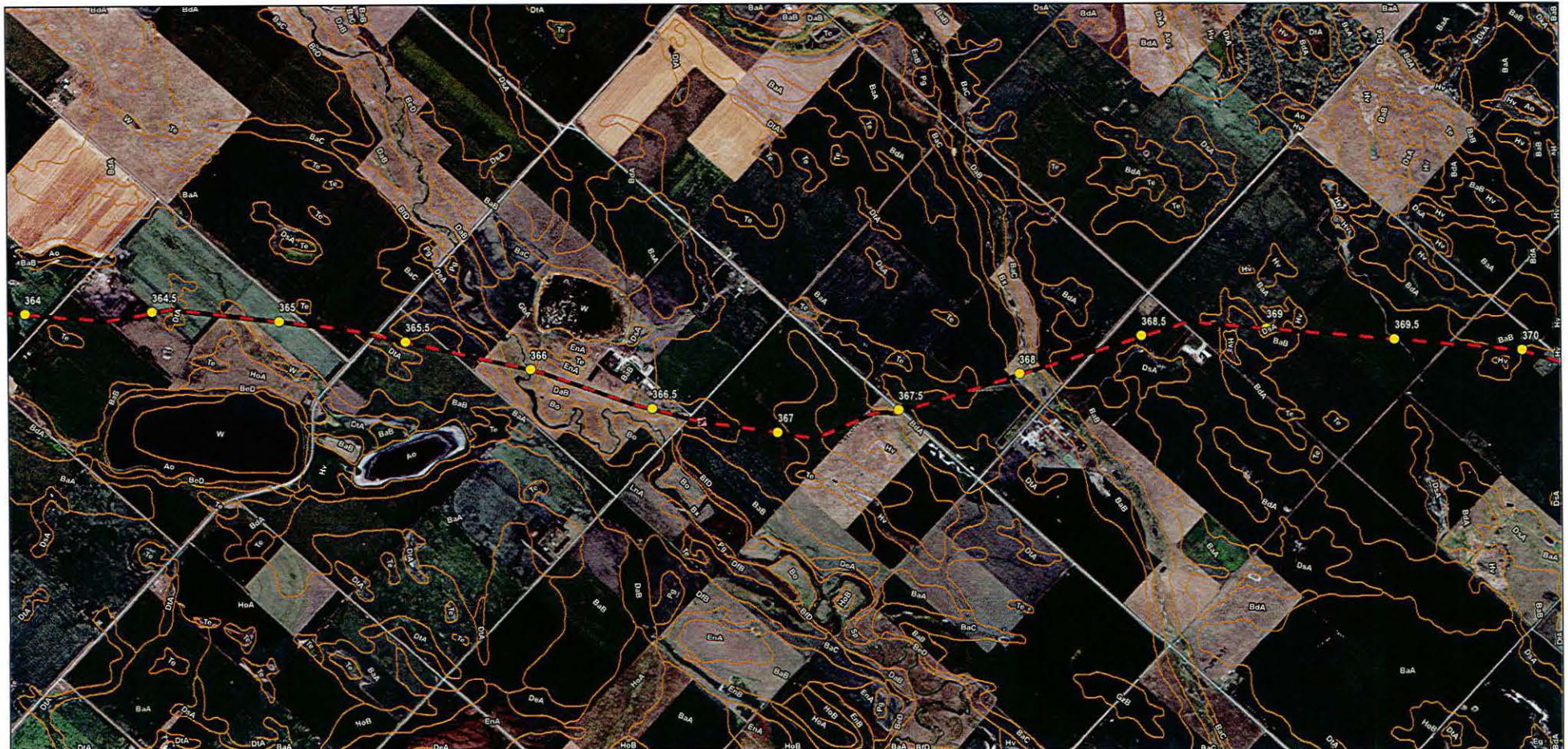


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SSURGO Soils
South Dakota

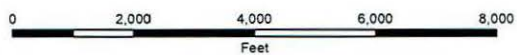


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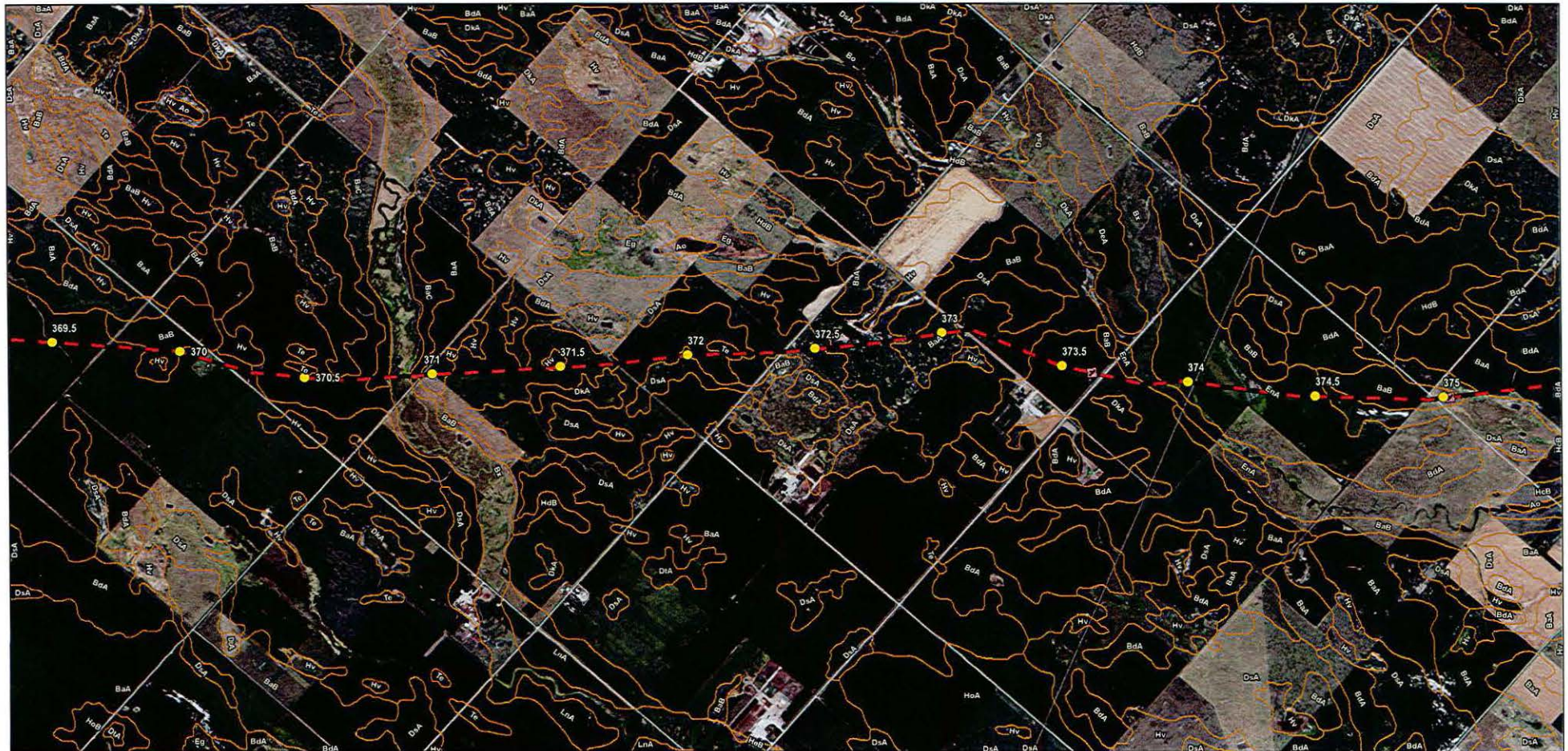


- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils



Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota





- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

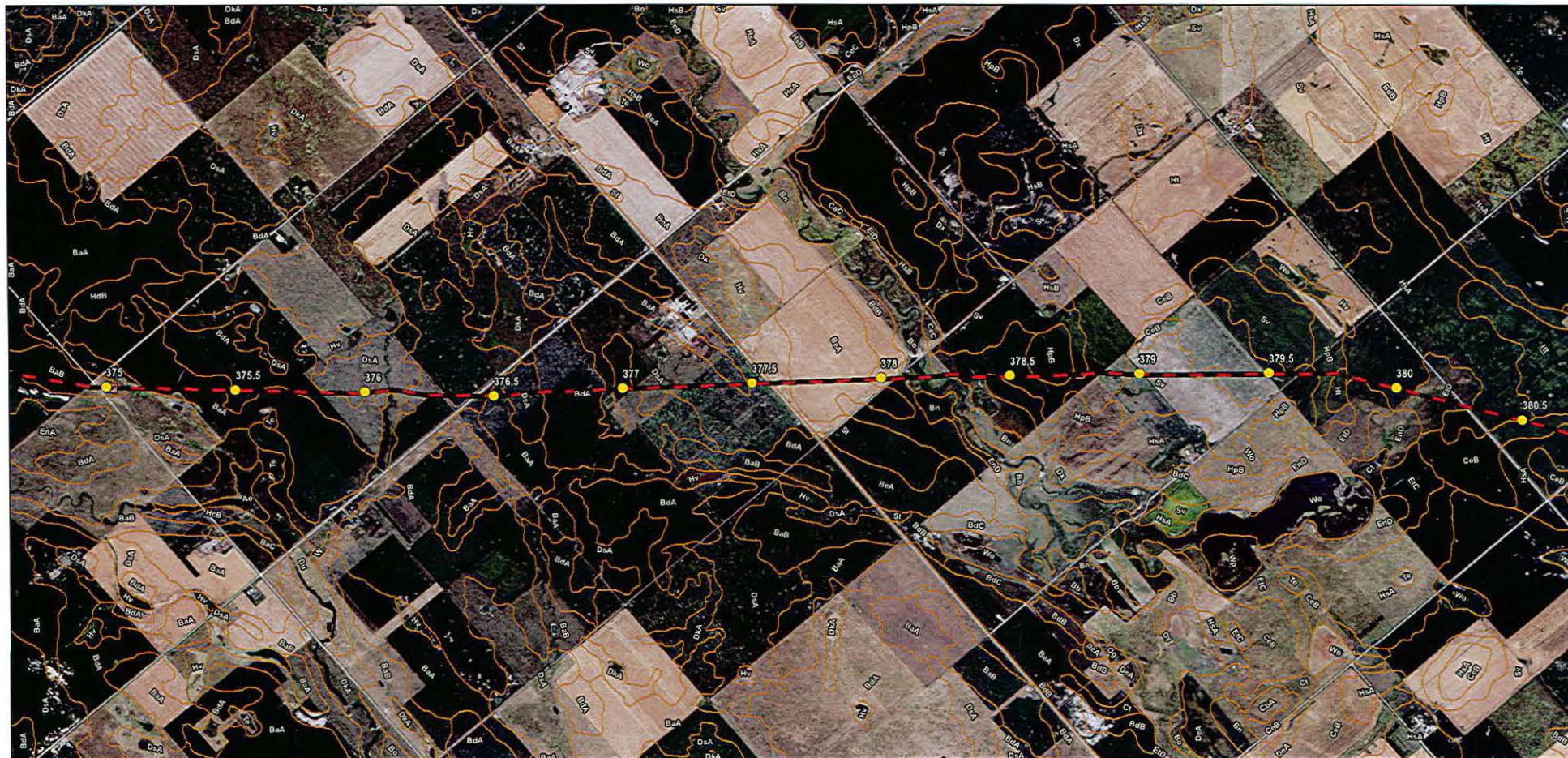
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Feet



Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota



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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

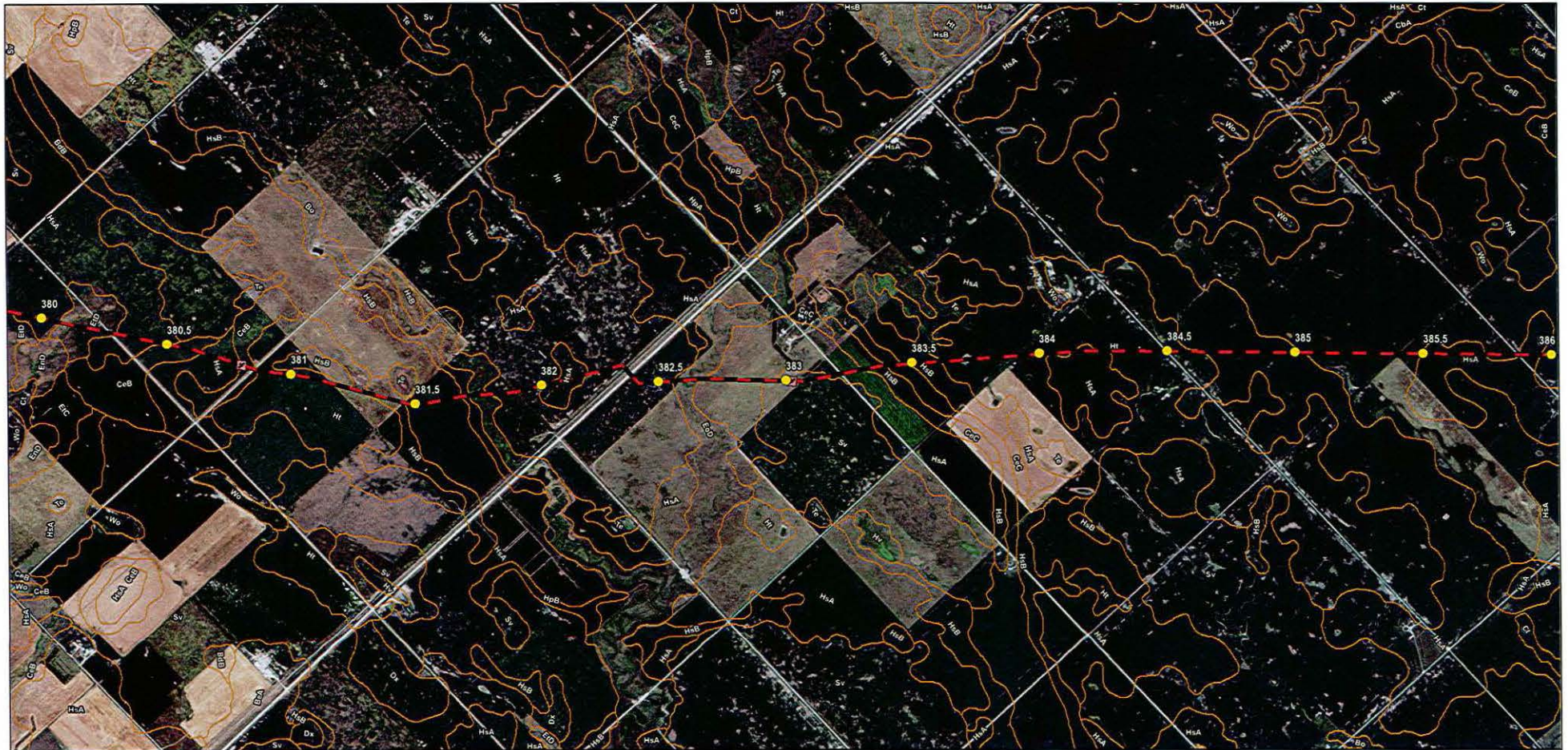
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Feet



Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

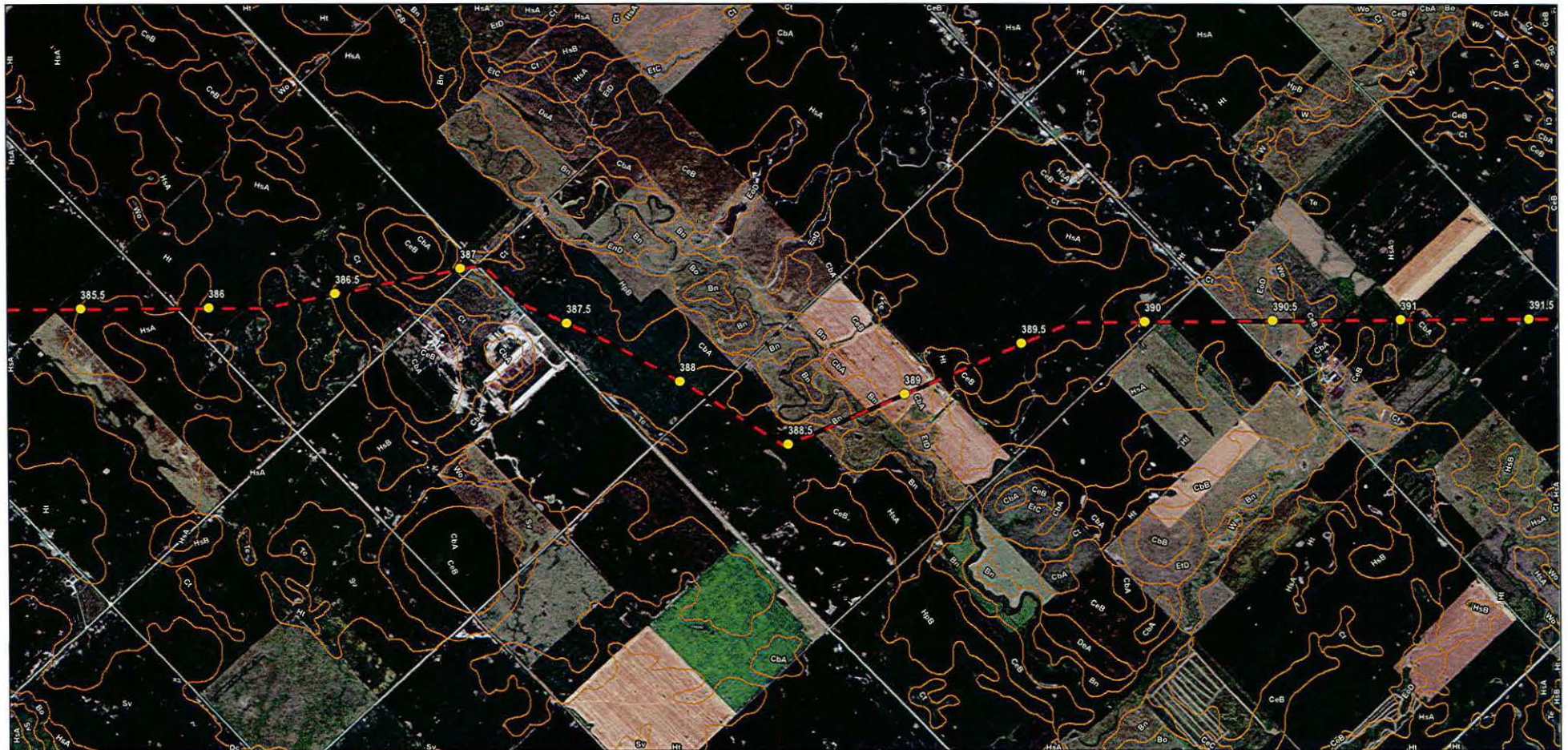
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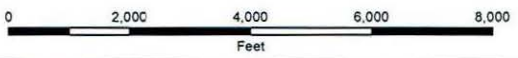
Dakota Access, LLC
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SSURGO Soils
South Dakota



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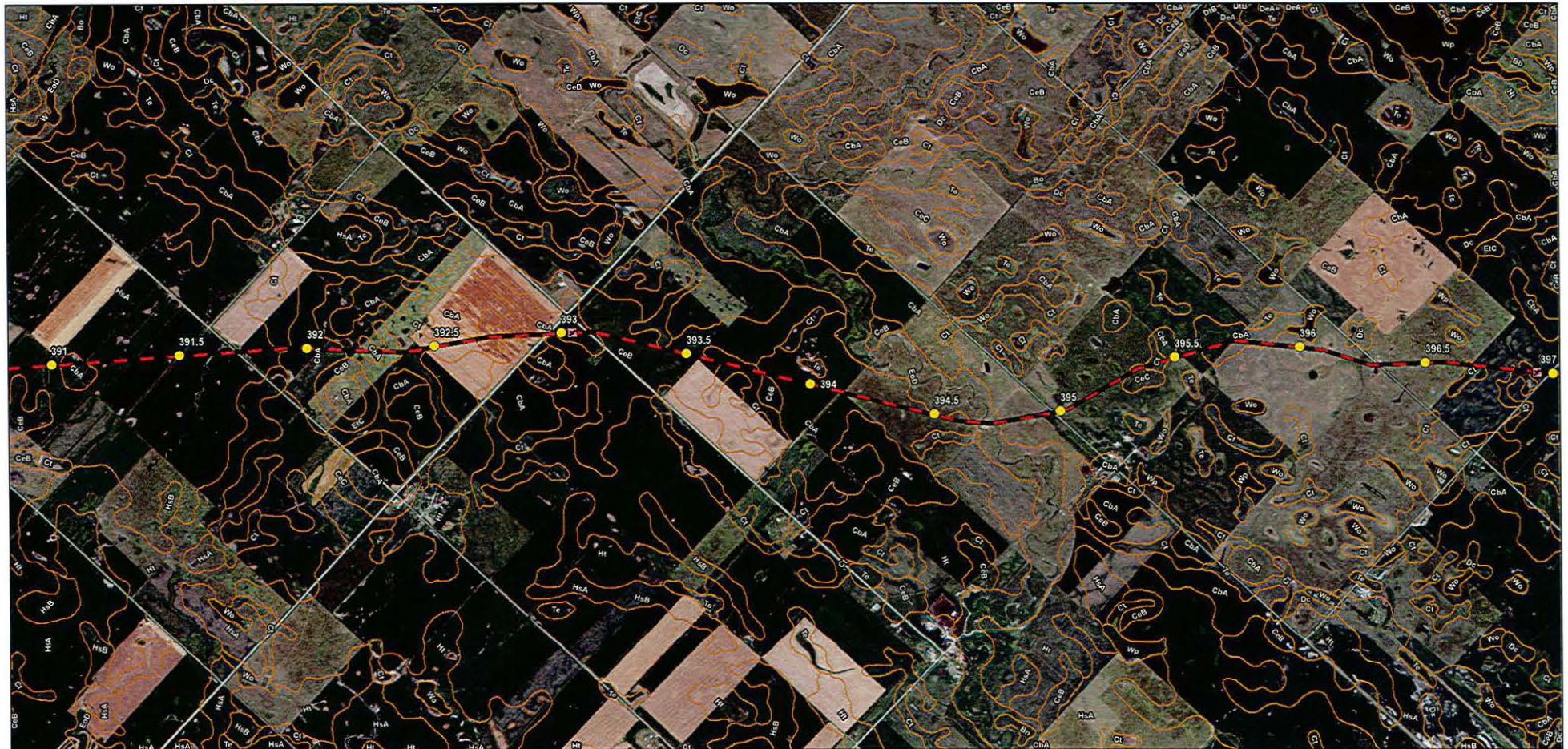
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- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils



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Dakota Access Pipeline Project
SSURGO Soils
South Dakota



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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

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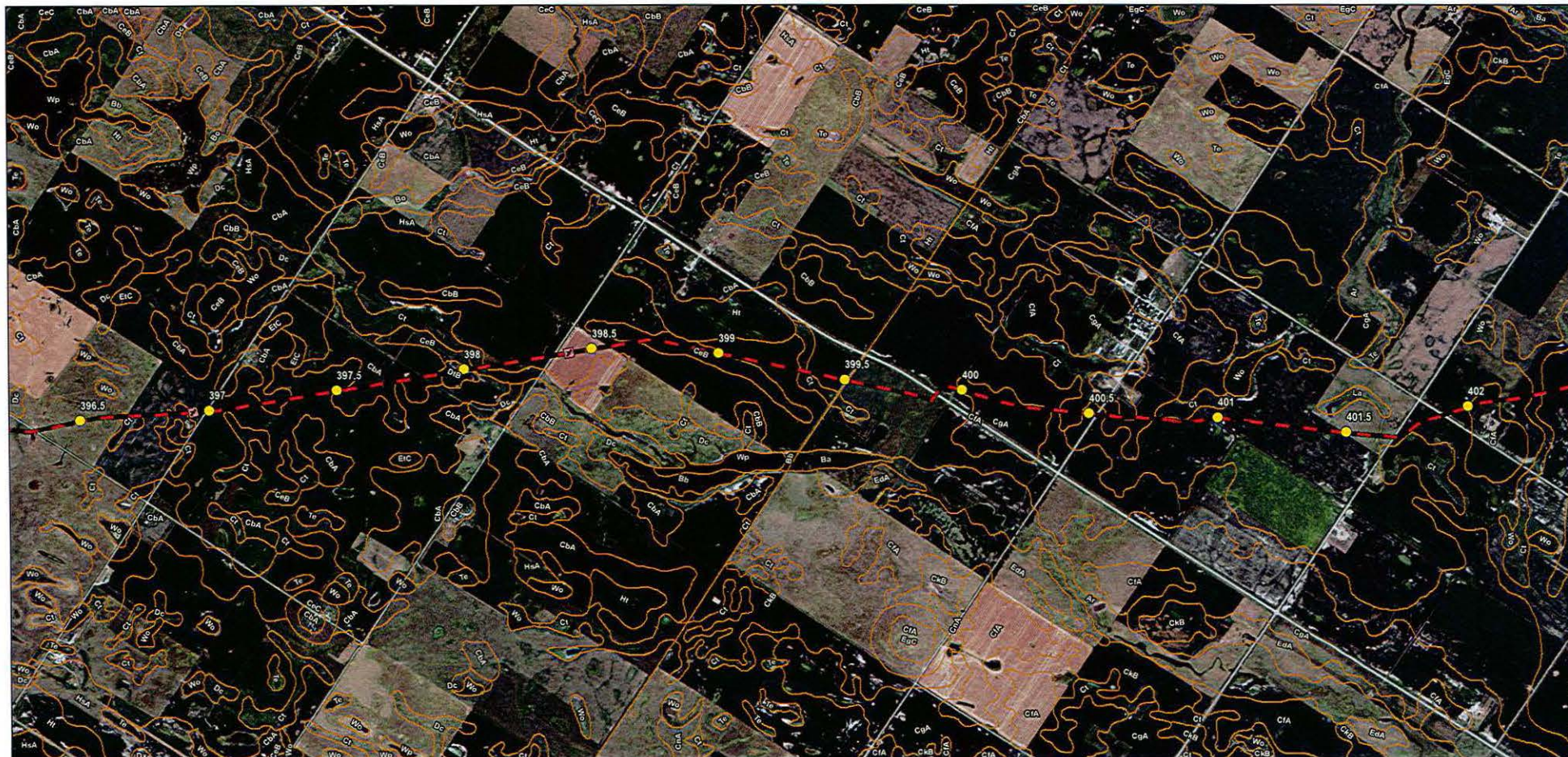


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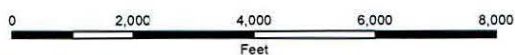


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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils



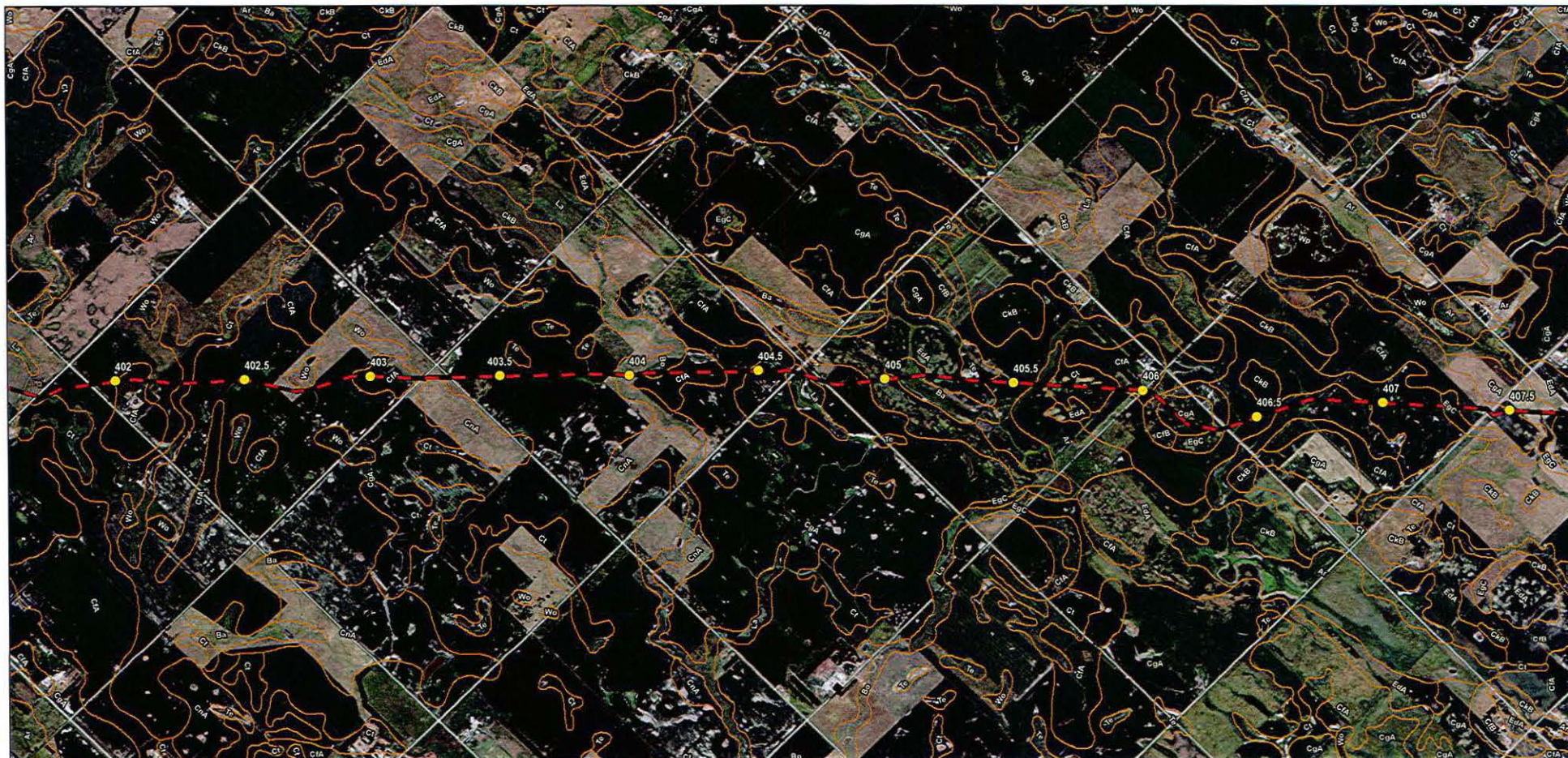
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SSURGO Soils
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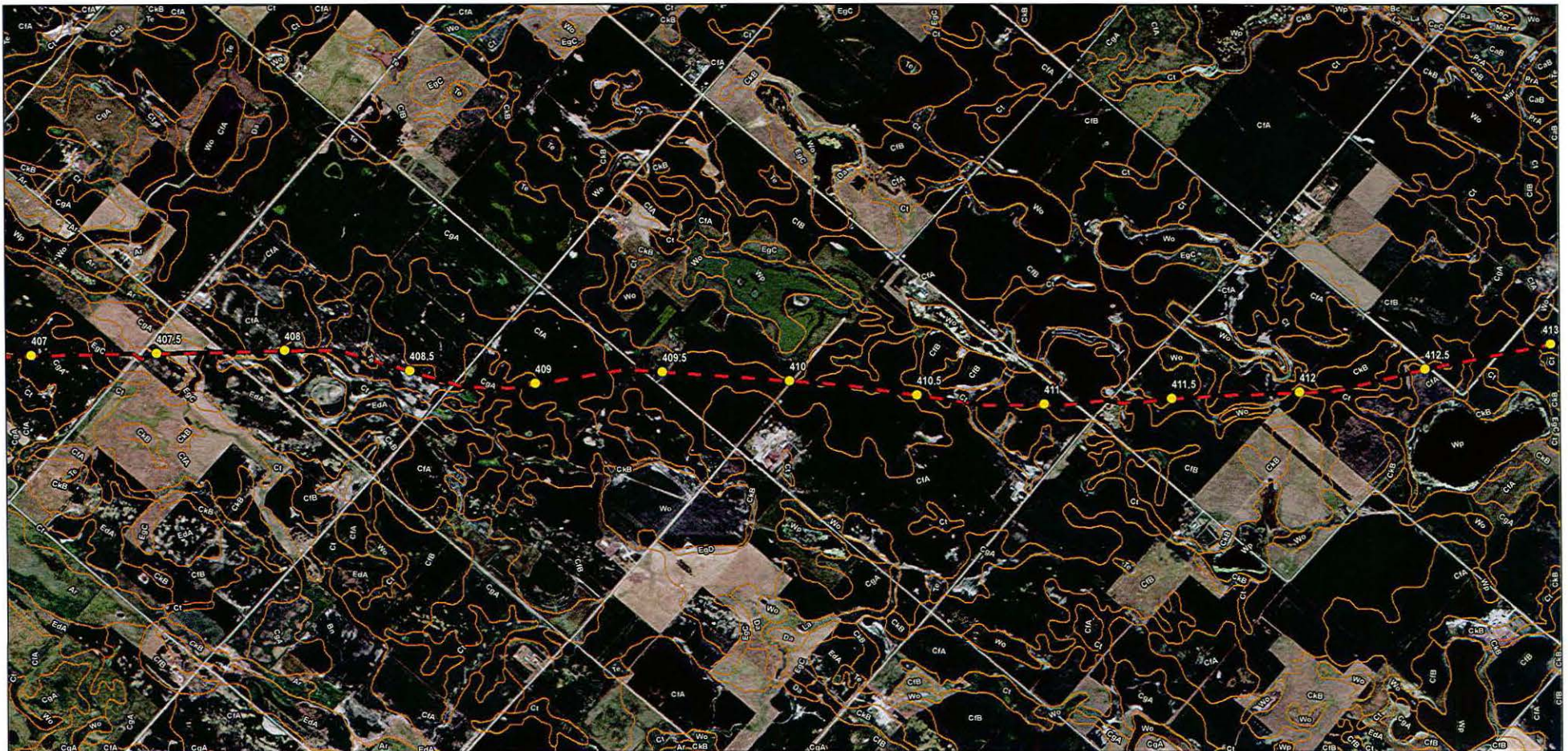


- Milepost
- Proposed Route
- ▲ Launcher/Receiver
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- ◆ Mainline Valve
- SSURGO Soils

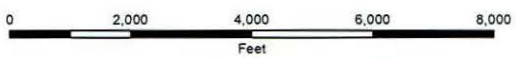


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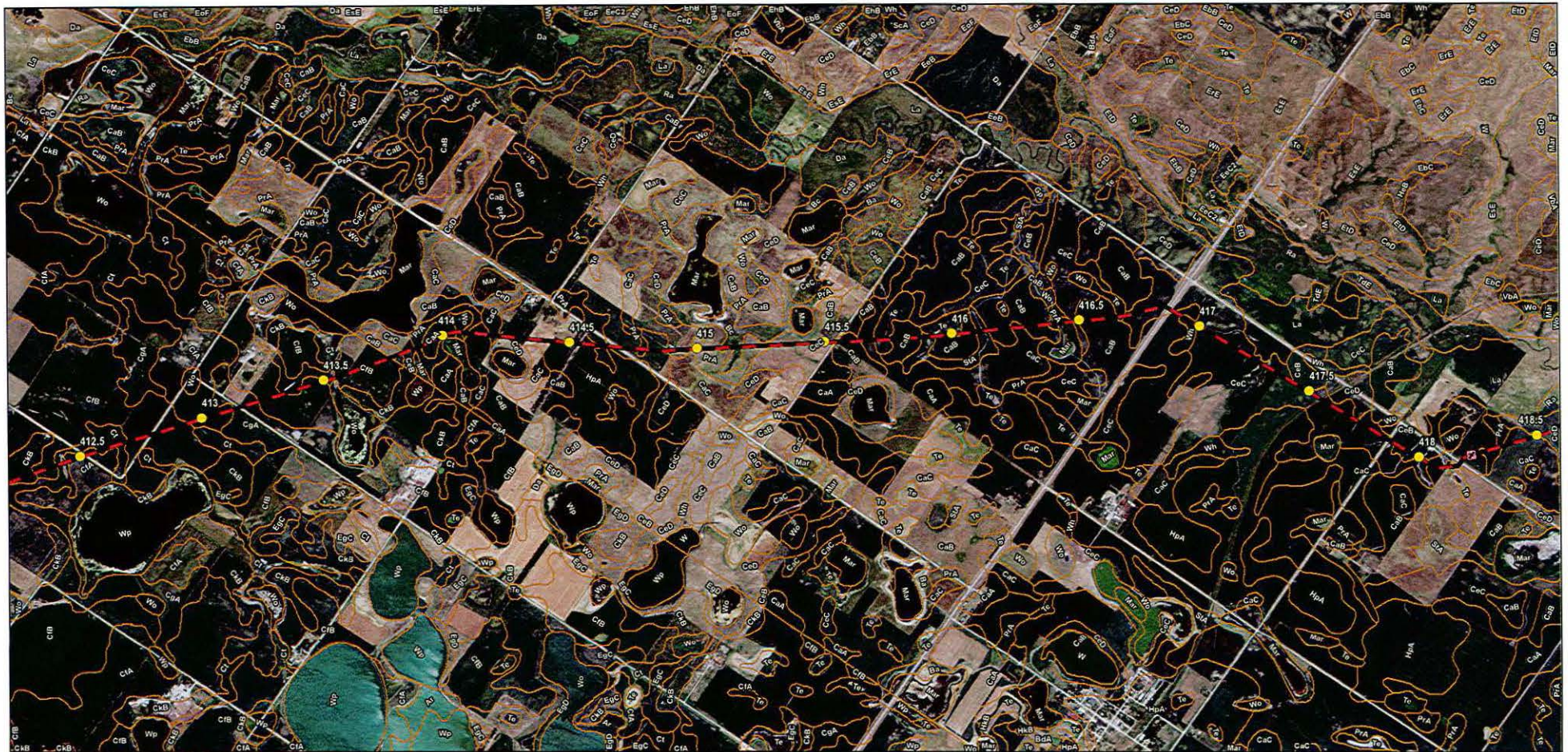


- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils



Dakota Access, LLC
Dakota Access Pipeline Project
SSURGO Soils
South Dakota





- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet



Dakota Access, LLC
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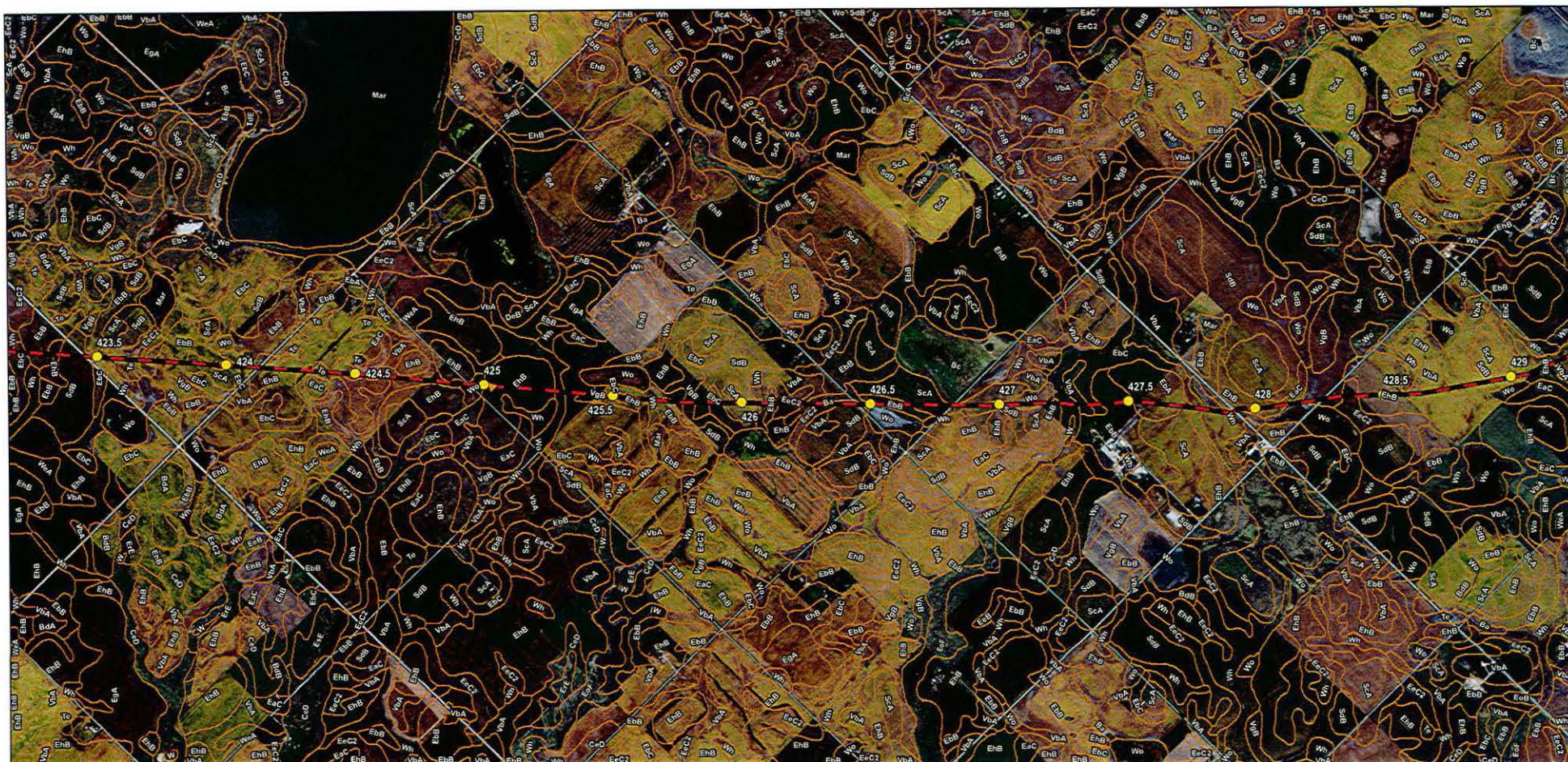
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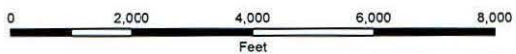
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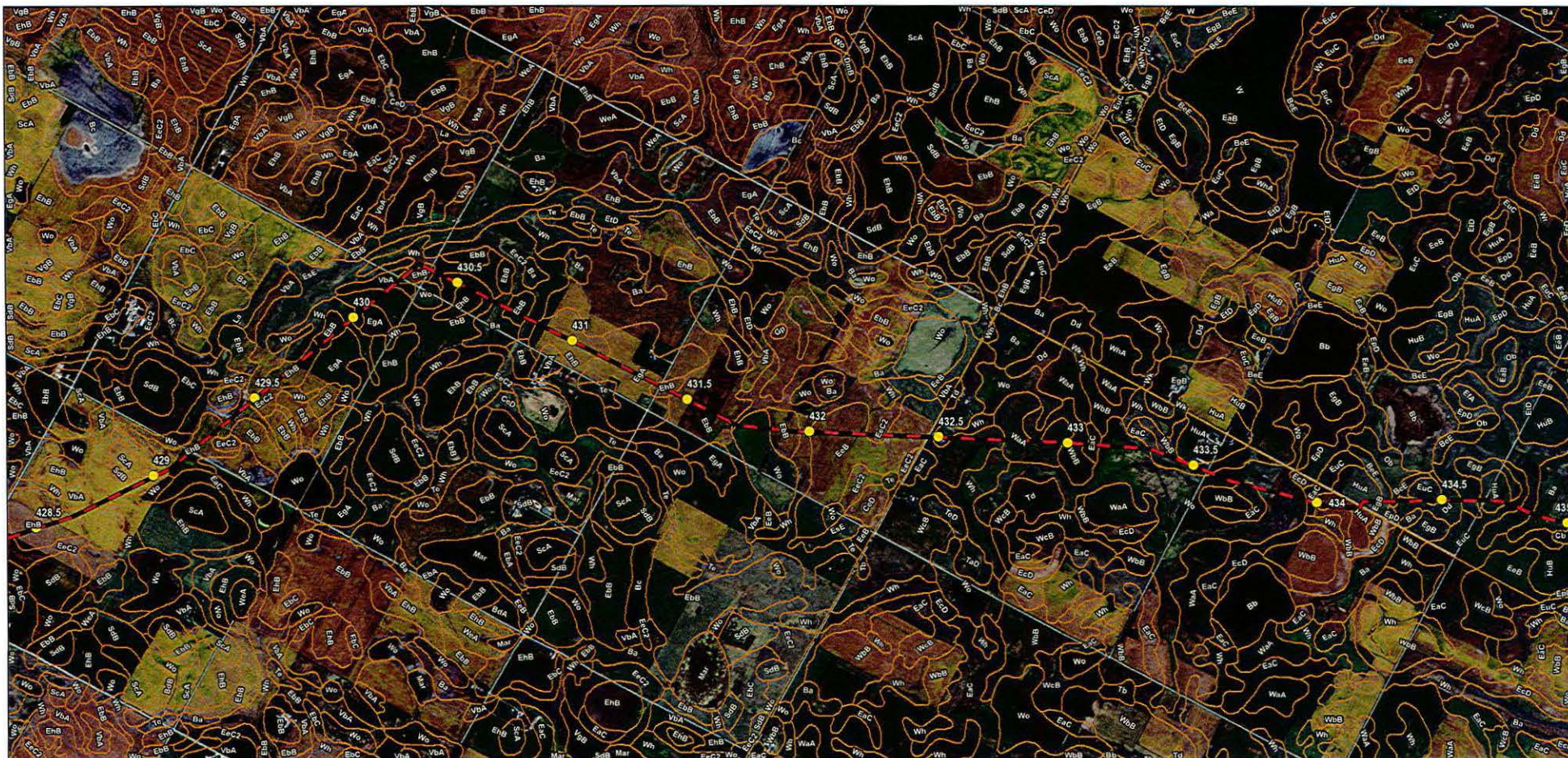


- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils



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Dakota Access Pipeline Project
SSURGO Soils
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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- ▭ Spink Pump Station
- ▭ SSURGO Soils

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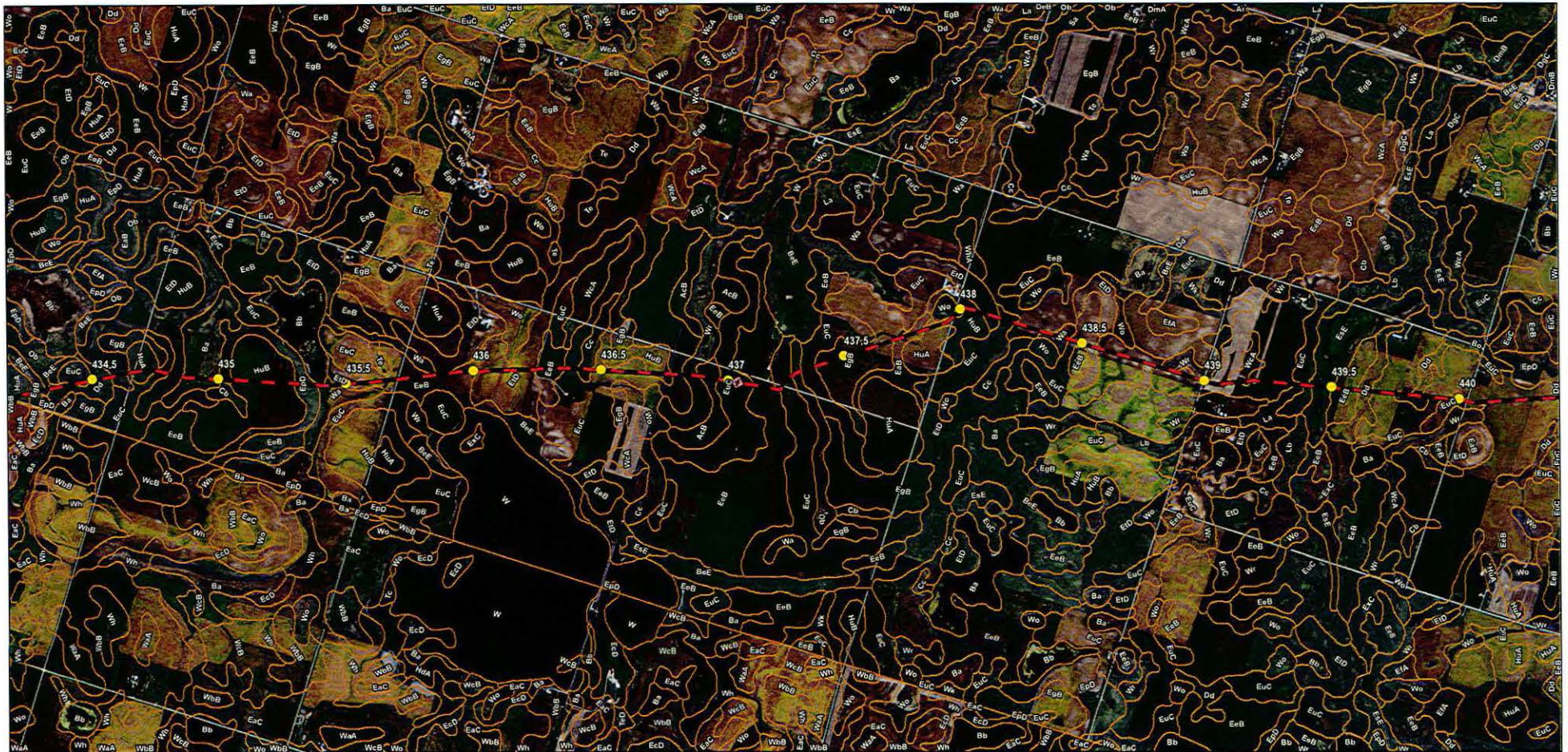
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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

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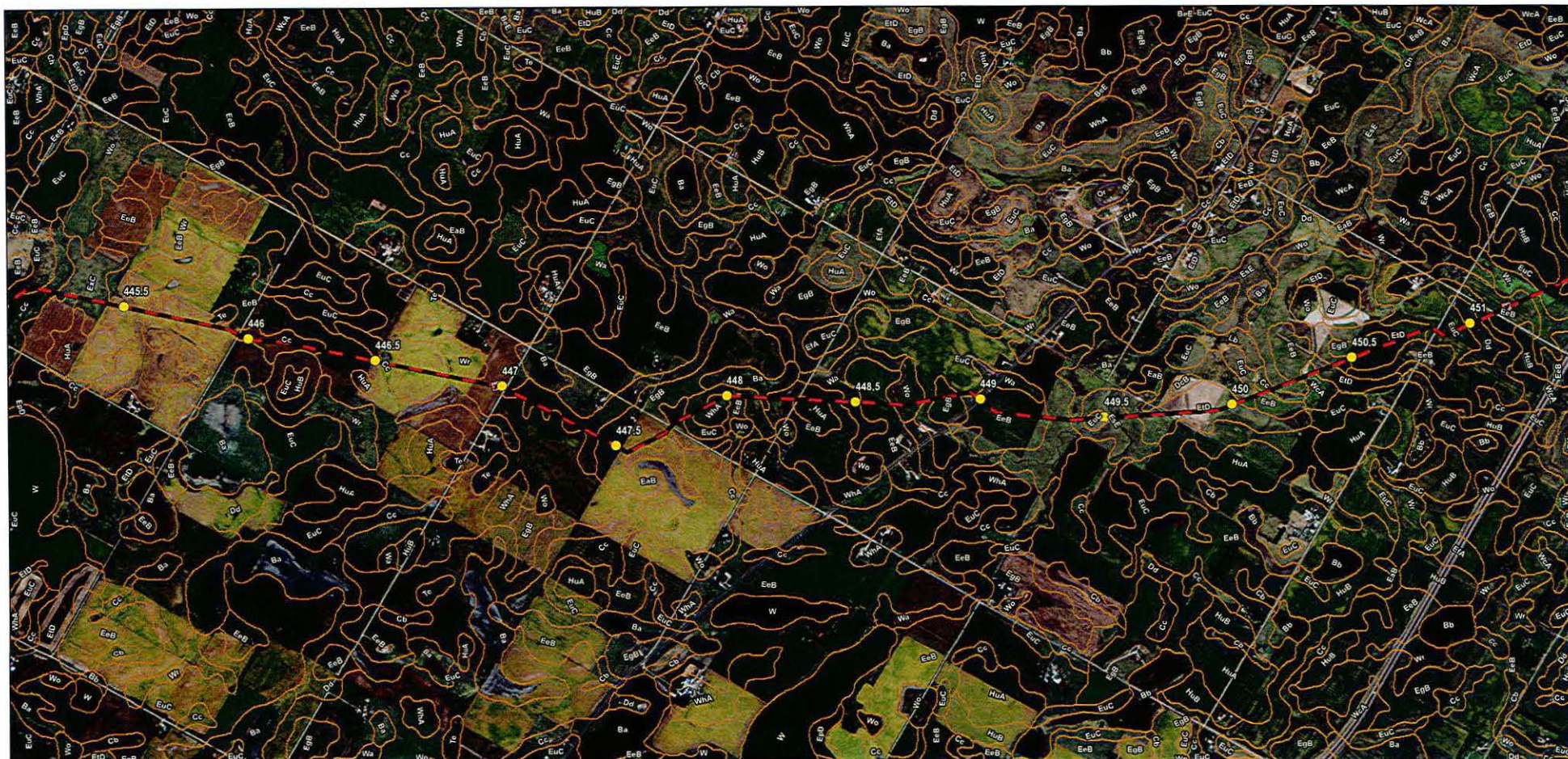
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- Milepost
- Proposed Route
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- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

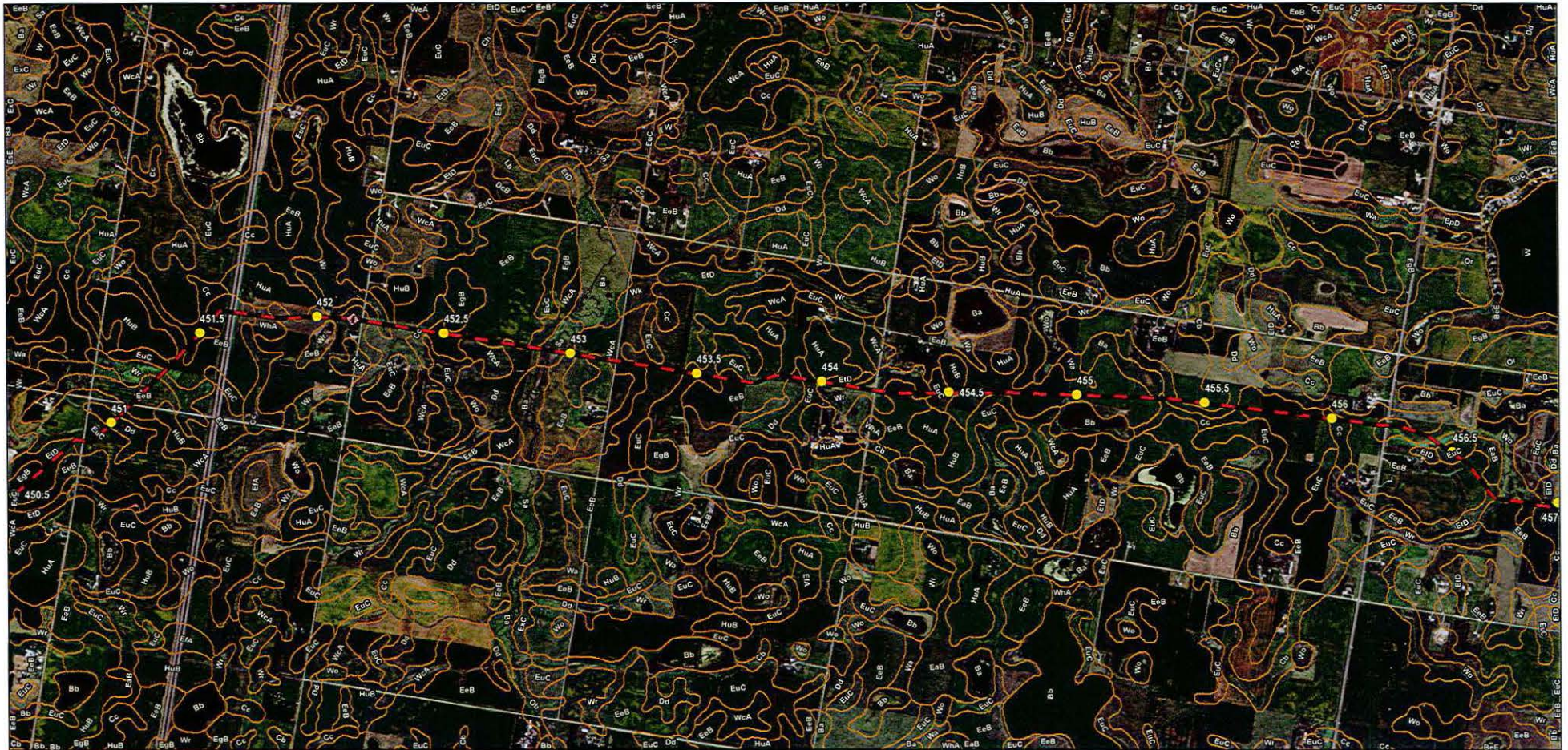


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- Milepost
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- ◆ Mainline Valve
- SSURGO Soils

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Feet

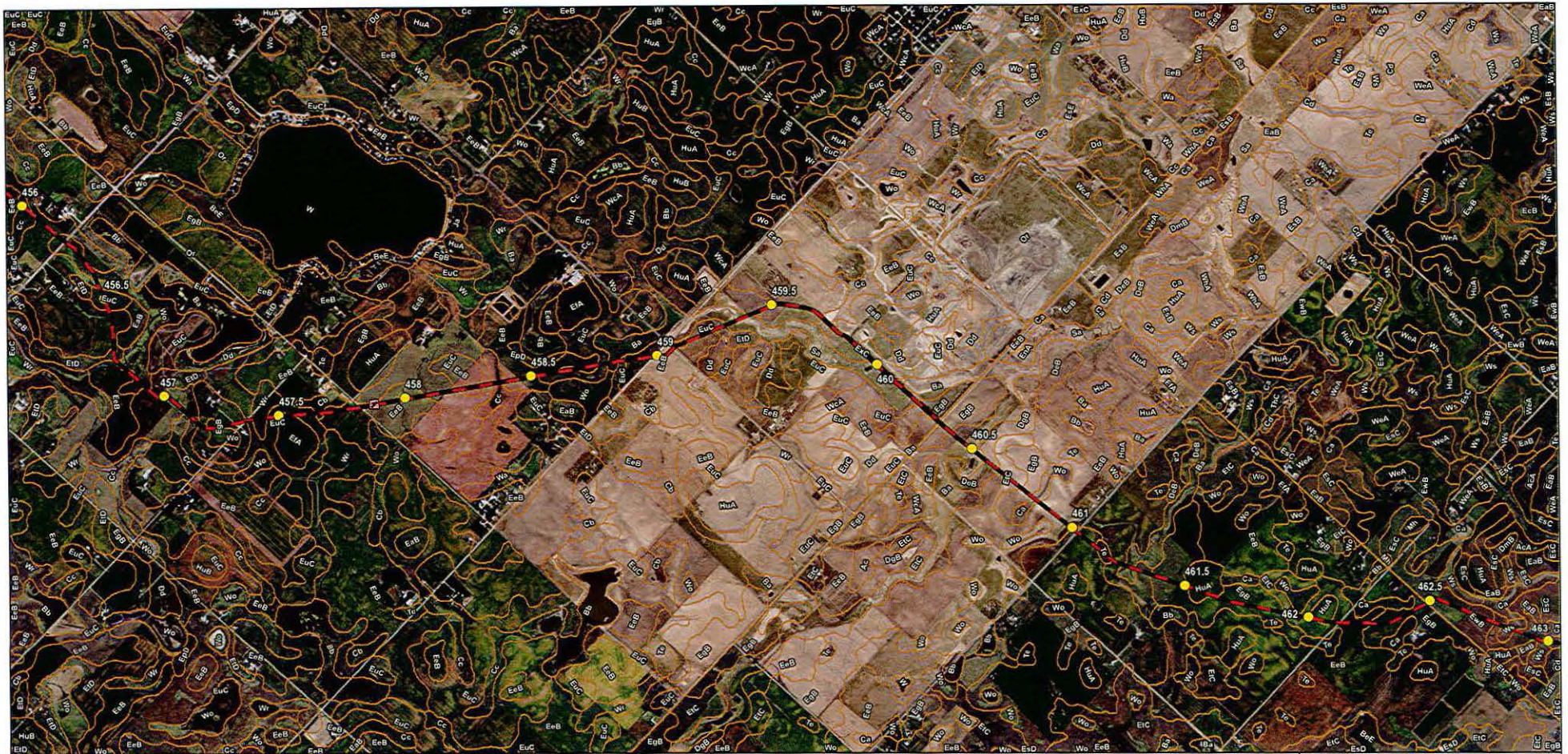


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- Milepost
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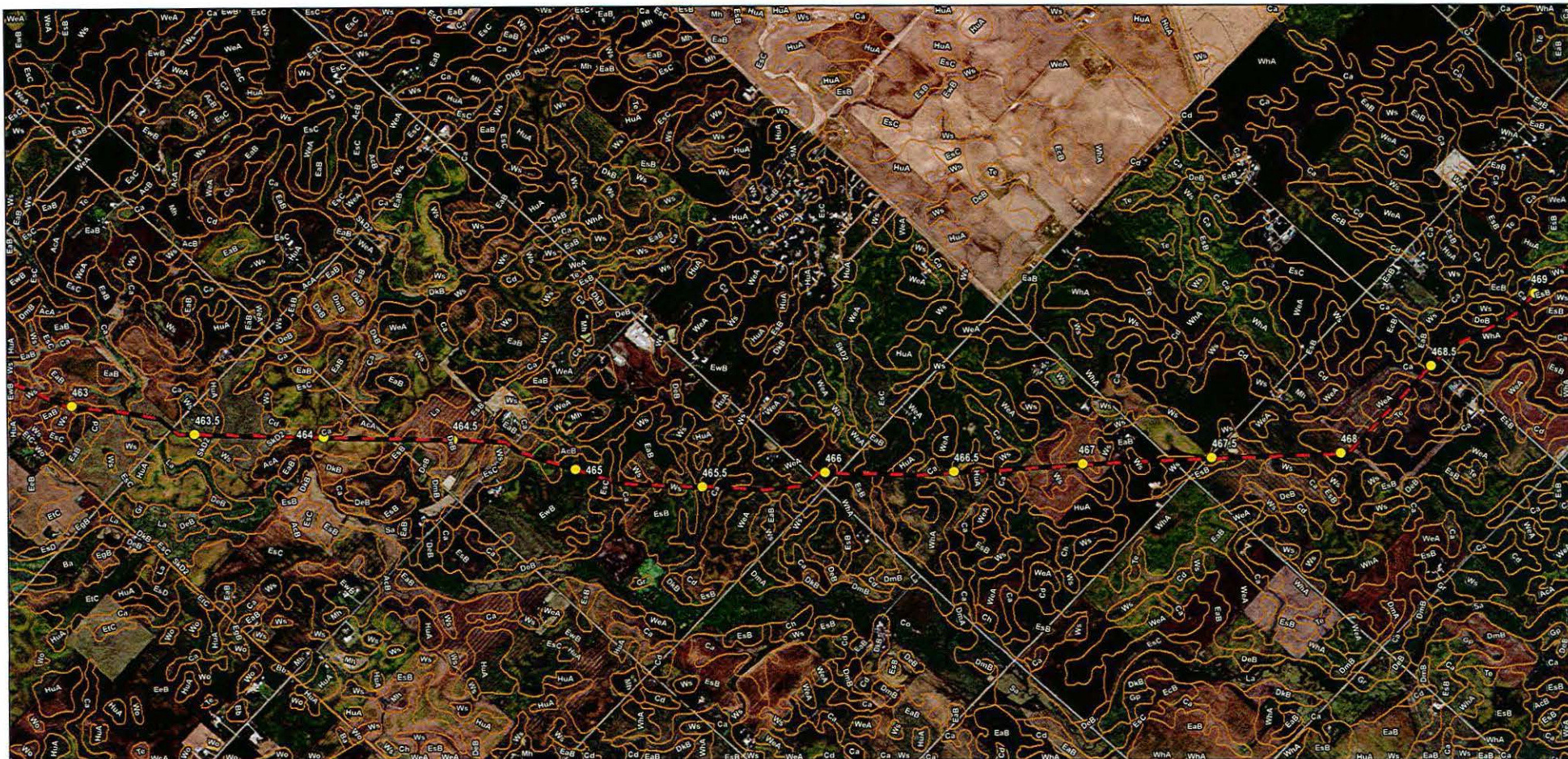
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Feet



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- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
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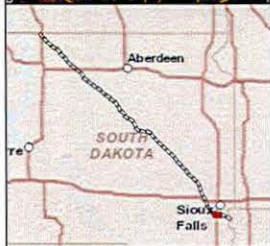
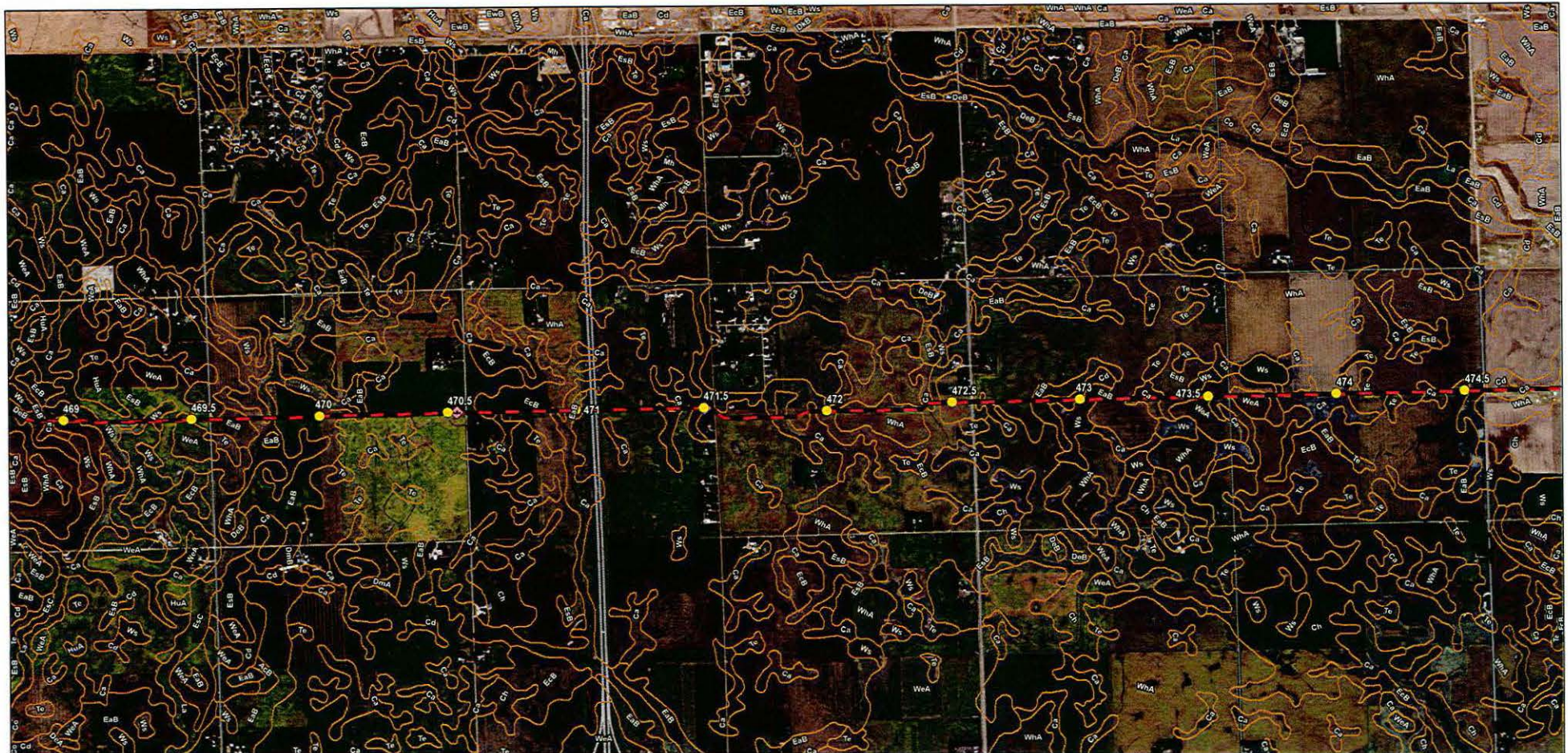
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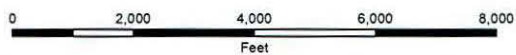
Dakota Access, LLC
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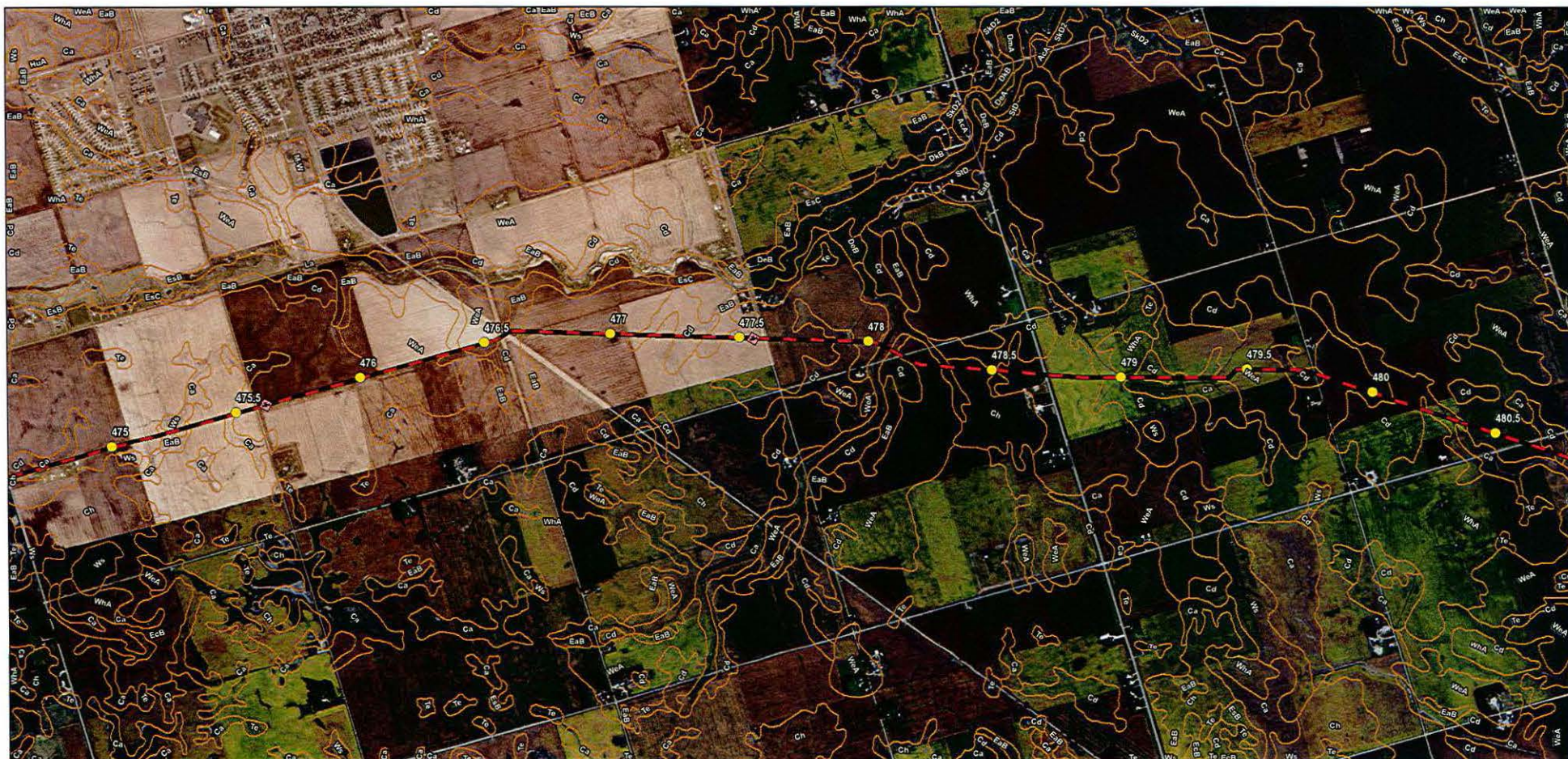


- Milepost
- Proposed Route
- ▲ Launcher/Receiver
- Spink Pump Station
- ◆ Mainline Valve
- SSURGO Soils



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- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

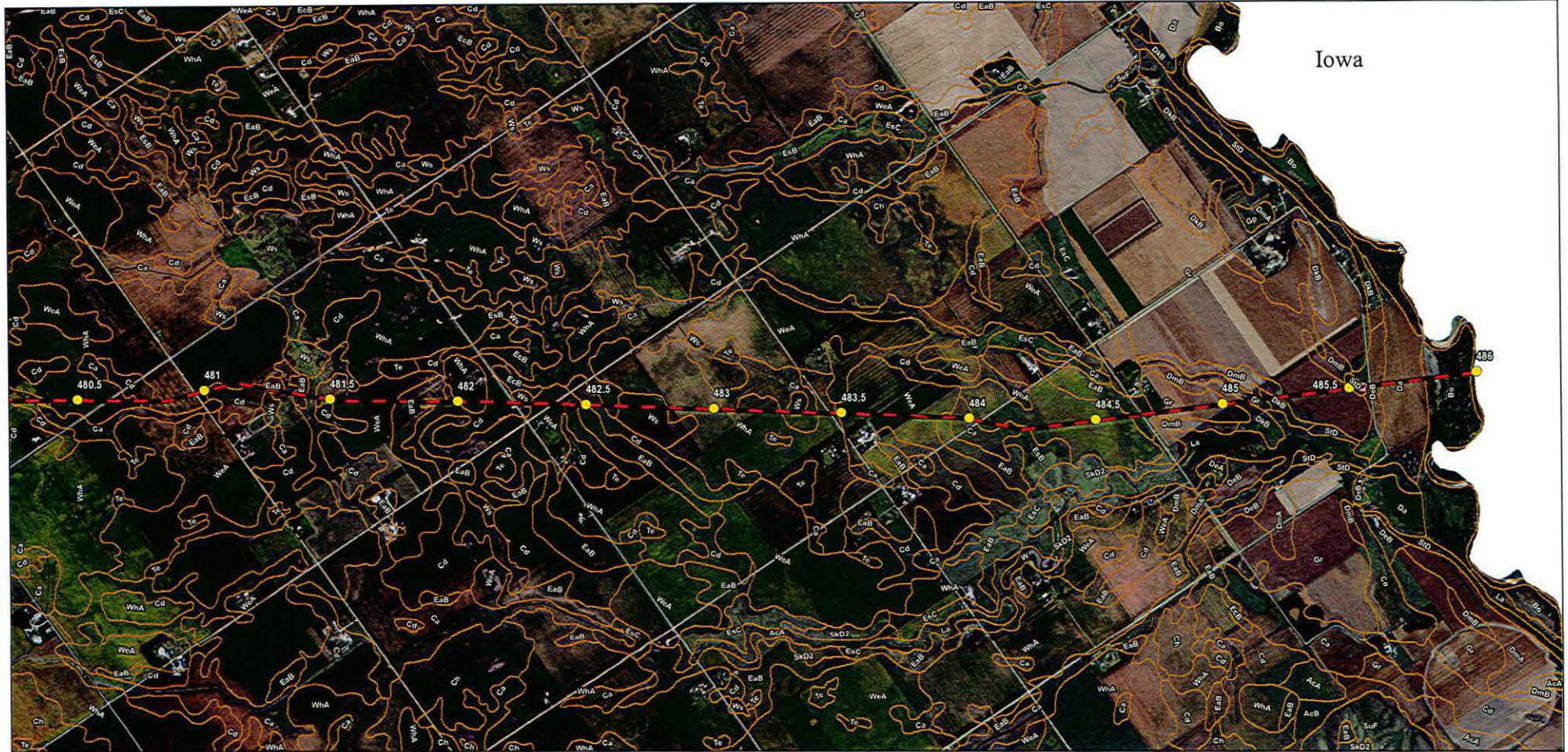


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Iowa



- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Spink Pump Station
- SSURGO Soils

0 2,000 4,000 6,000 8,000
Feet

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Dakota Access Pipeline Project
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Exhibit A4



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Exhibit A

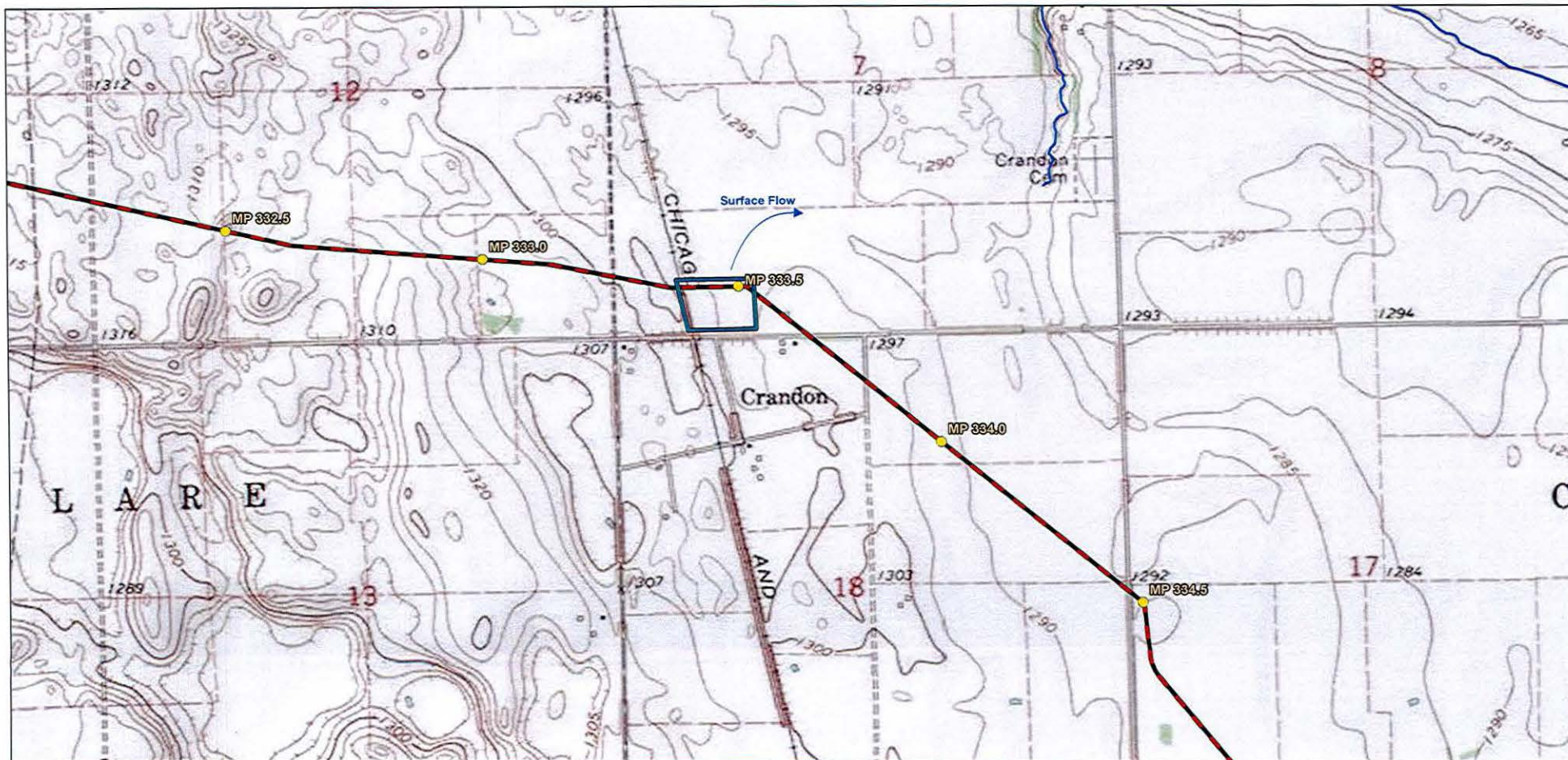
Project Mapping

Exhibit A4
Hydrology Maps

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- Milepost
- Proposed Route
- Spink County Pump Station
- NHD Stream

0 600 1,200 1,800 2,400 Feet



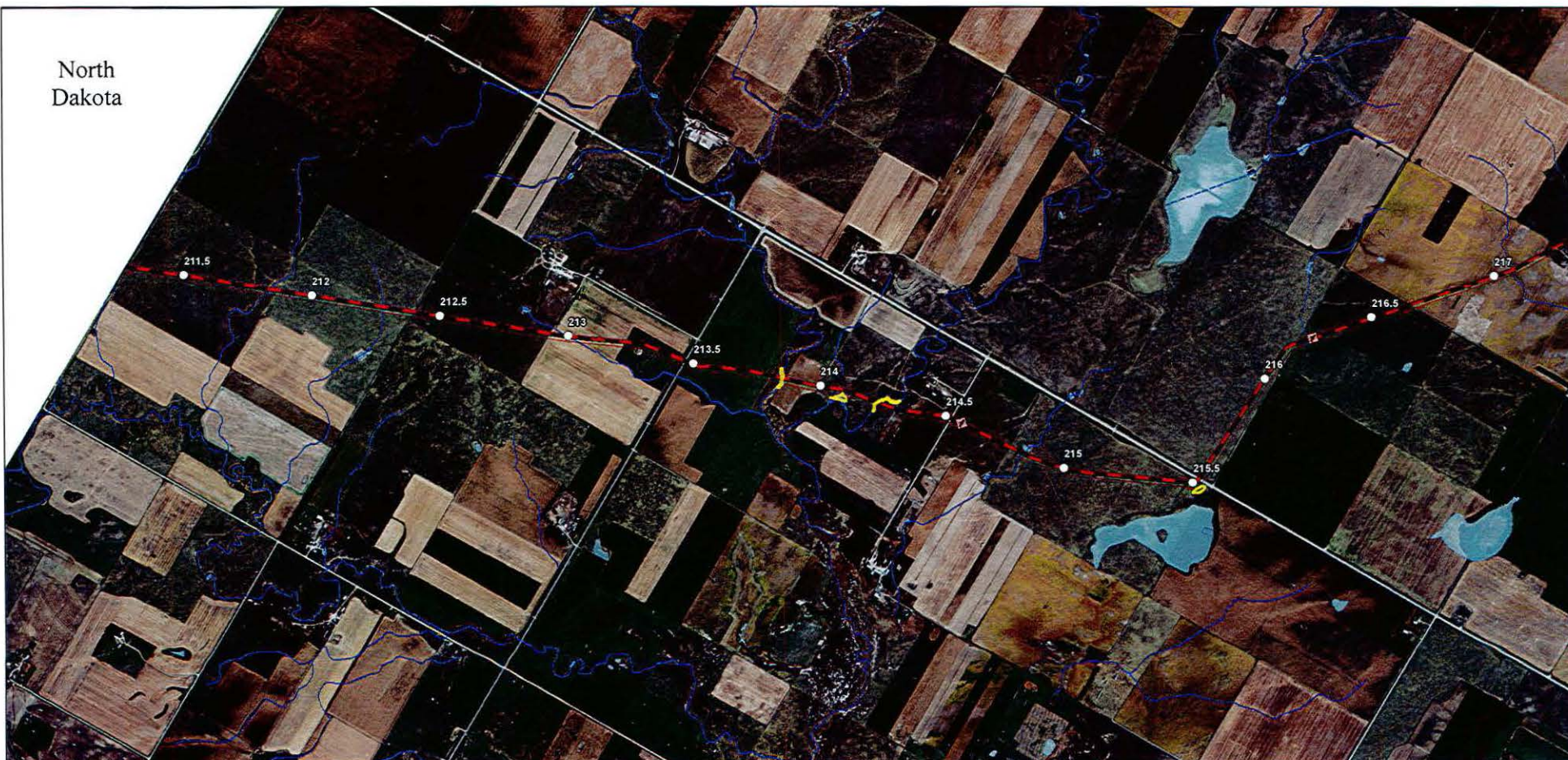
Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Spink County Pump Station Map
South Dakota



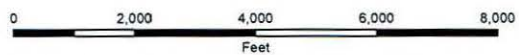
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North
Dakota



- | | | | | |
|---------------------|------------------------|---------------|------------------------|---------------------------|
| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
| ◆ Mainline Valve | — Topeka Shiner Stream | | — 460 Stream | □ 466 Swampmarsh |
| — Proposed Route | | | — 558 Artificial Path | |



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Dakota Access Pipeline Project
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Surface Water Map
South Dakota

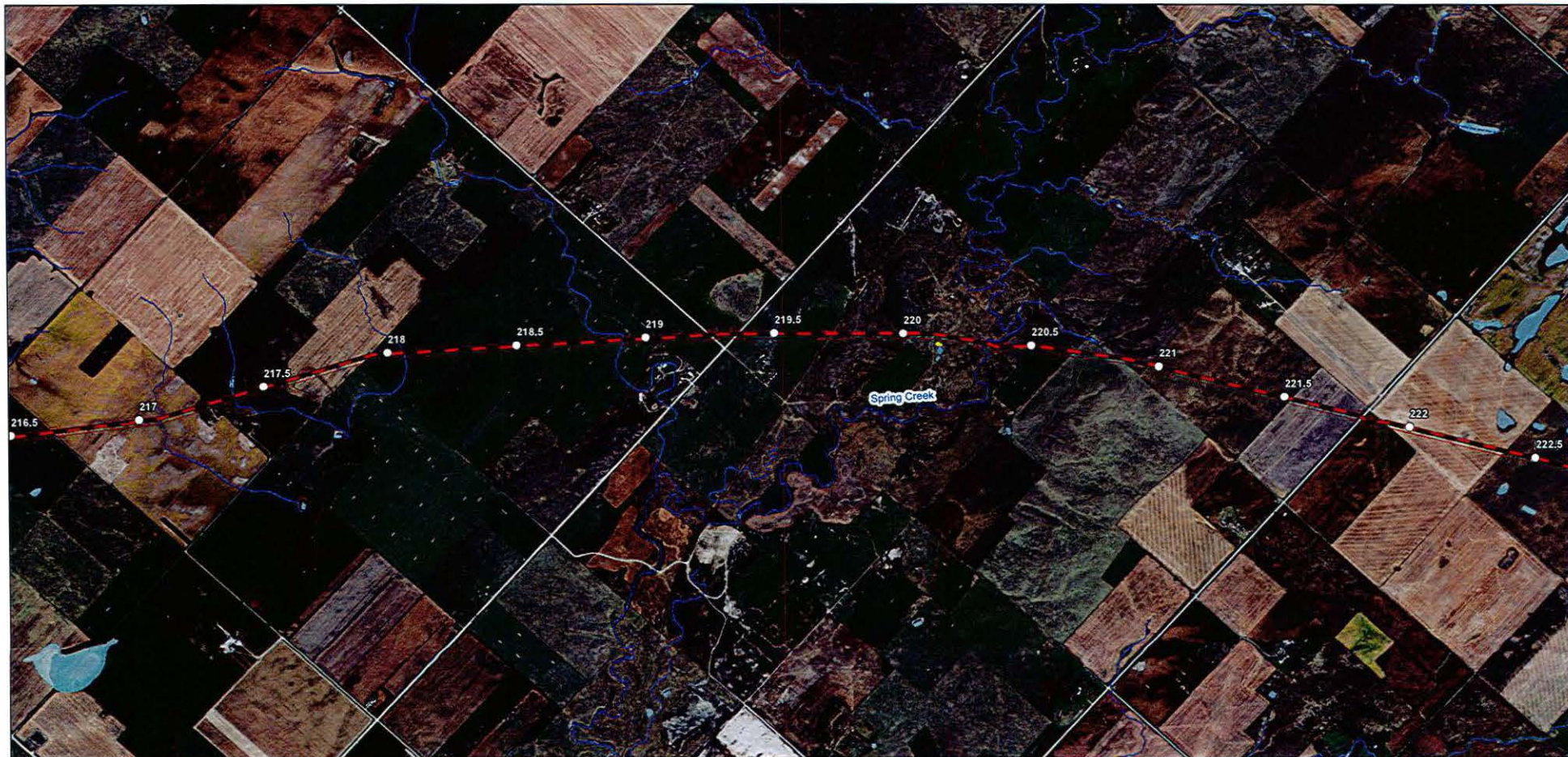


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|---------------------|------------------------|---------------|------------------------|---------------------------|
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| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
| ◆ Mainline Valve | — Topeka Shiner Stream | | — 460 Stream | □ 466 Swampmarsh |
| — Proposed Route | | | — 558 Artificial Path | |

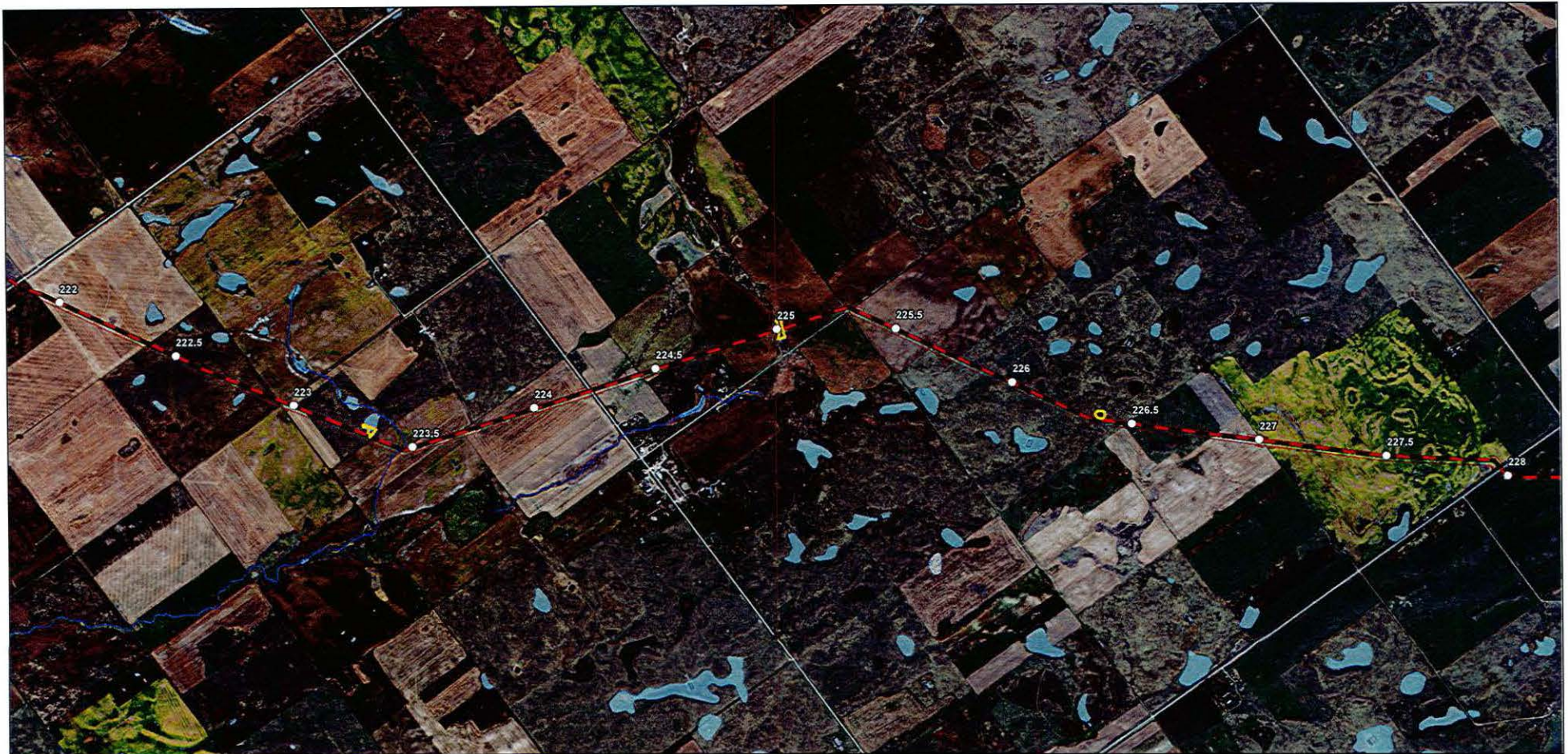
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Feet



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|---------------------|----------------------|-------------|---------------------|--------------------|
| ○ Milepost | Work Space | PEM Wetland | NHD Stream Type | NHD Waterbody Type |
| ▲ Launcher/Receiver | Spink Pump Station | PSS Wetland | 334 Connector | 390 Lake/Pond |
| ◆ Mainline Valve | Topeka Shiner Stream | | 460 Stream | 466 Swampmarsh |
| — Proposed Route | | | 558 Artificial Path | |

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Feet



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Dakota Access Pipeline Project
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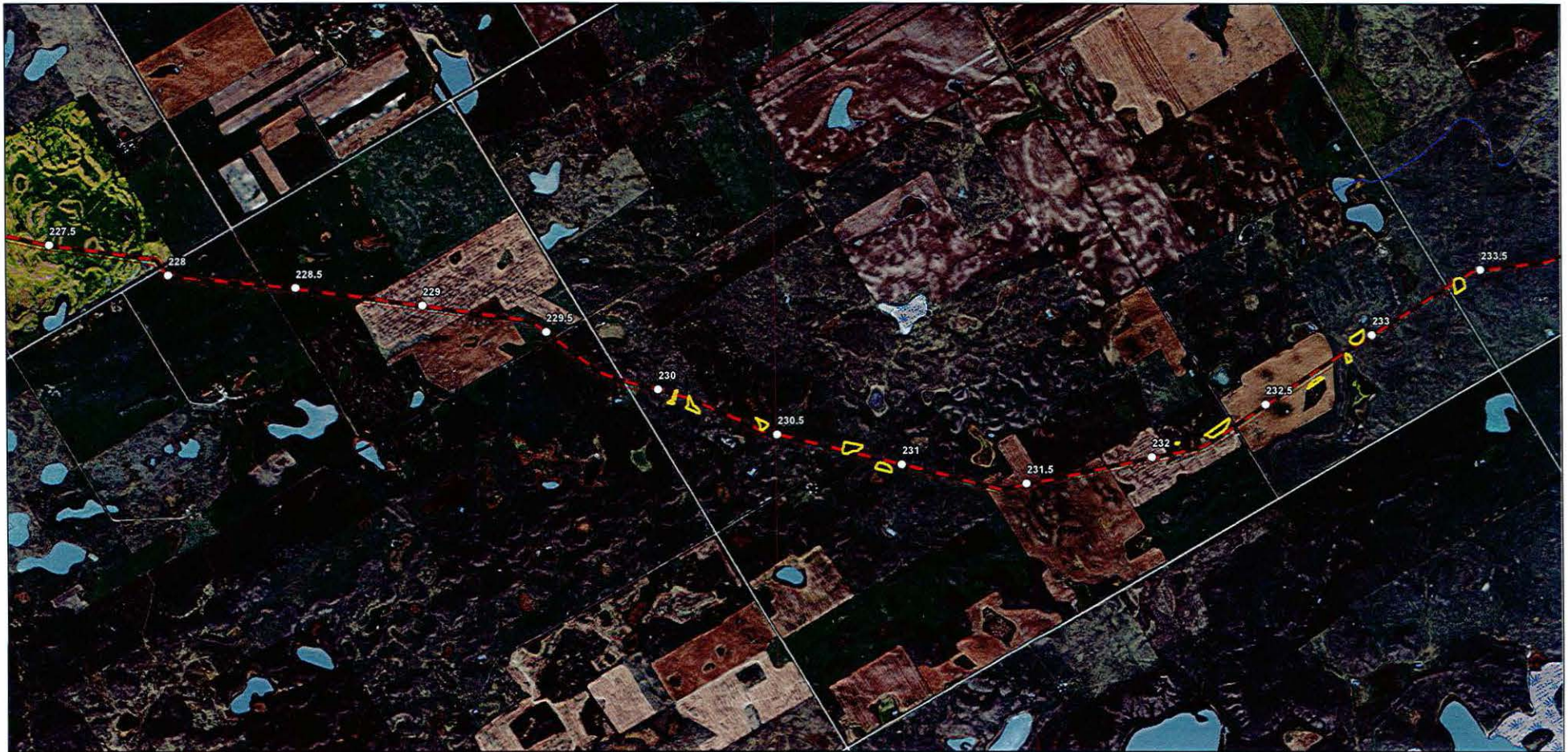
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|---------------------|------------------------|---------------|------------------------|---------------------------|
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| — Proposed Route | | | — 558 Artificial Path | |

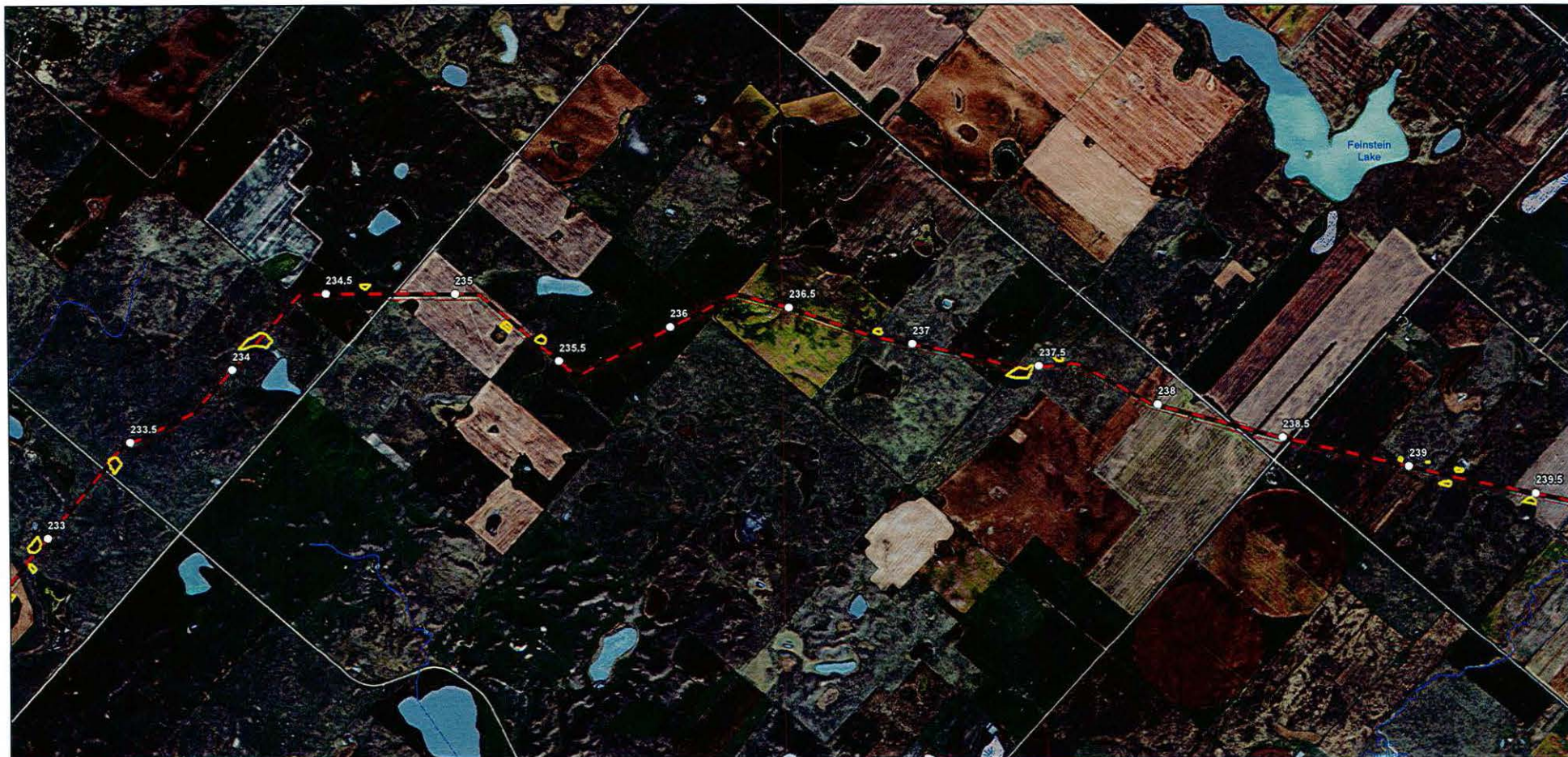
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|---------------------|------------------------|---------------|------------------------|---------------------------|
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| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
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| — Proposed Route | | | — 558 Artificial Path | |

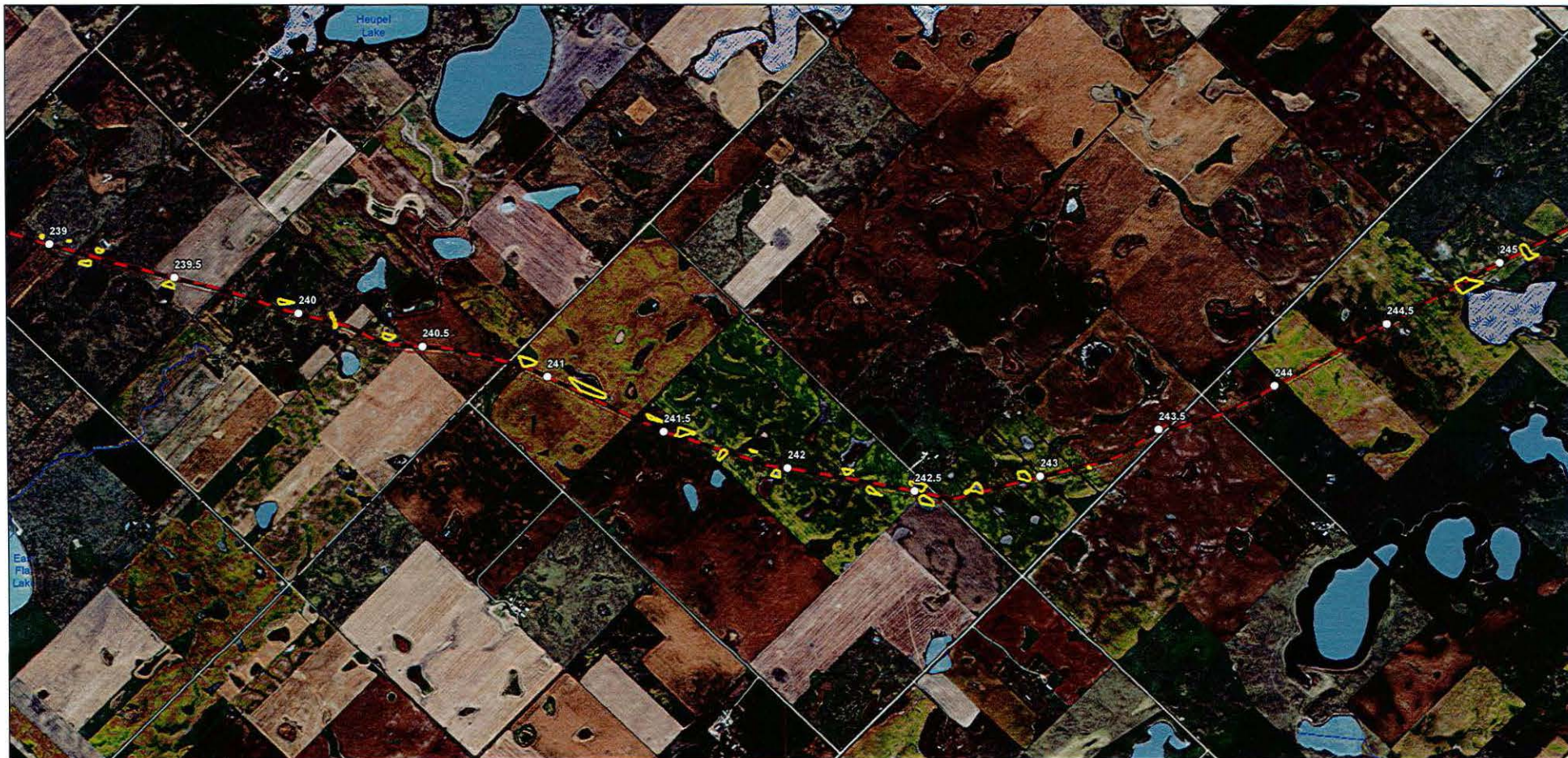
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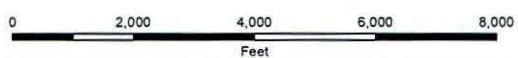
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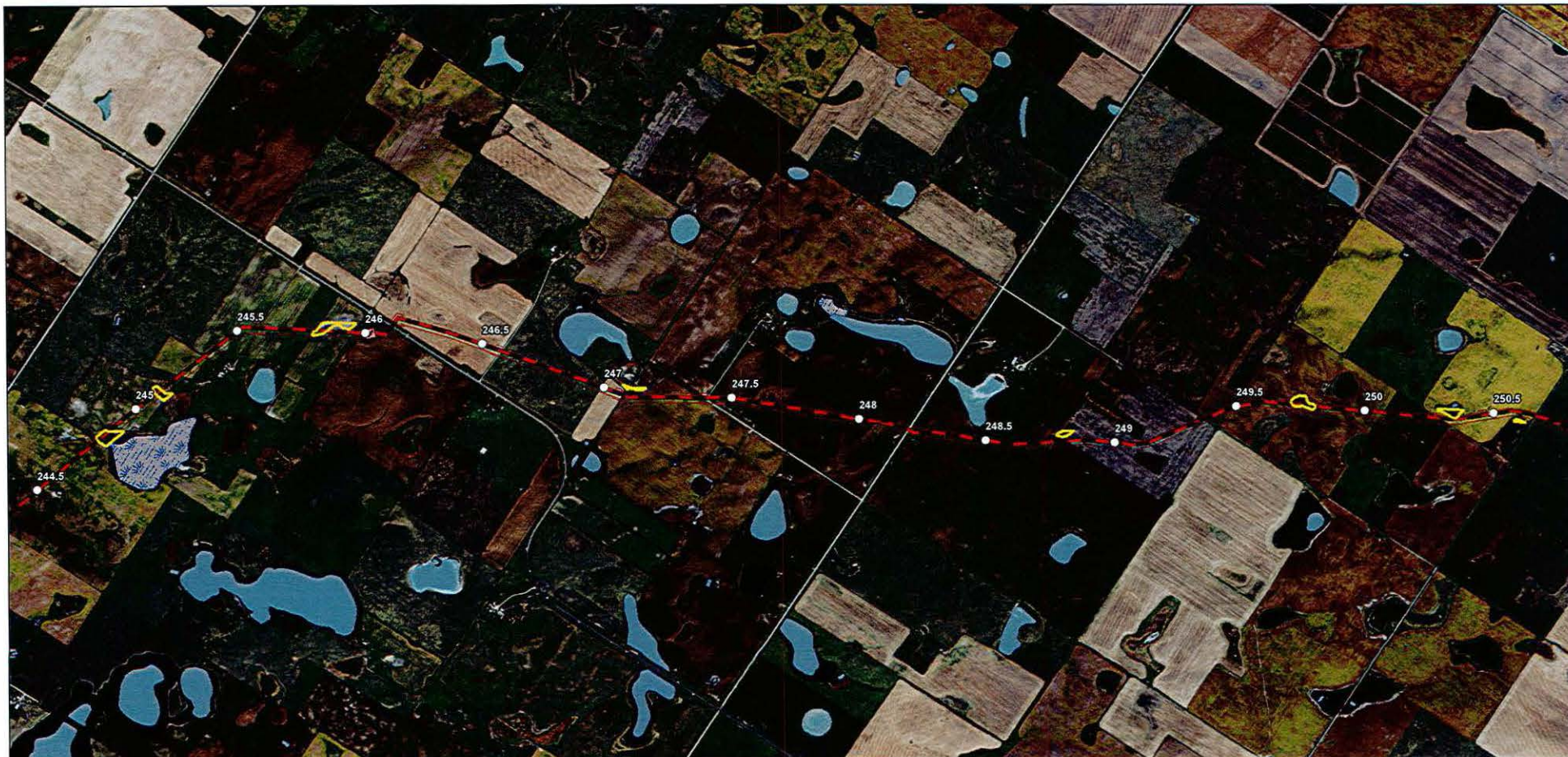


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| — Proposed Route | | | — 558 Artificial Path | |



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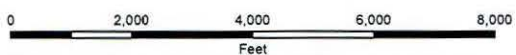


- Milepost
- ▲ Launcher/Receiver
- ◆ Mainline Valve
- Proposed Route
- Work Space
- Spink Pump Station
- Topeka Shiner Stream

- PEM Wetland
- PSS Wetland

- NHD Stream Type**
- 334 Connector
- 460 Stream
- 558 Artificial Path

- NHD Waterbody Type**
- 390 Lake/Pond
- 466 Swampmarsh

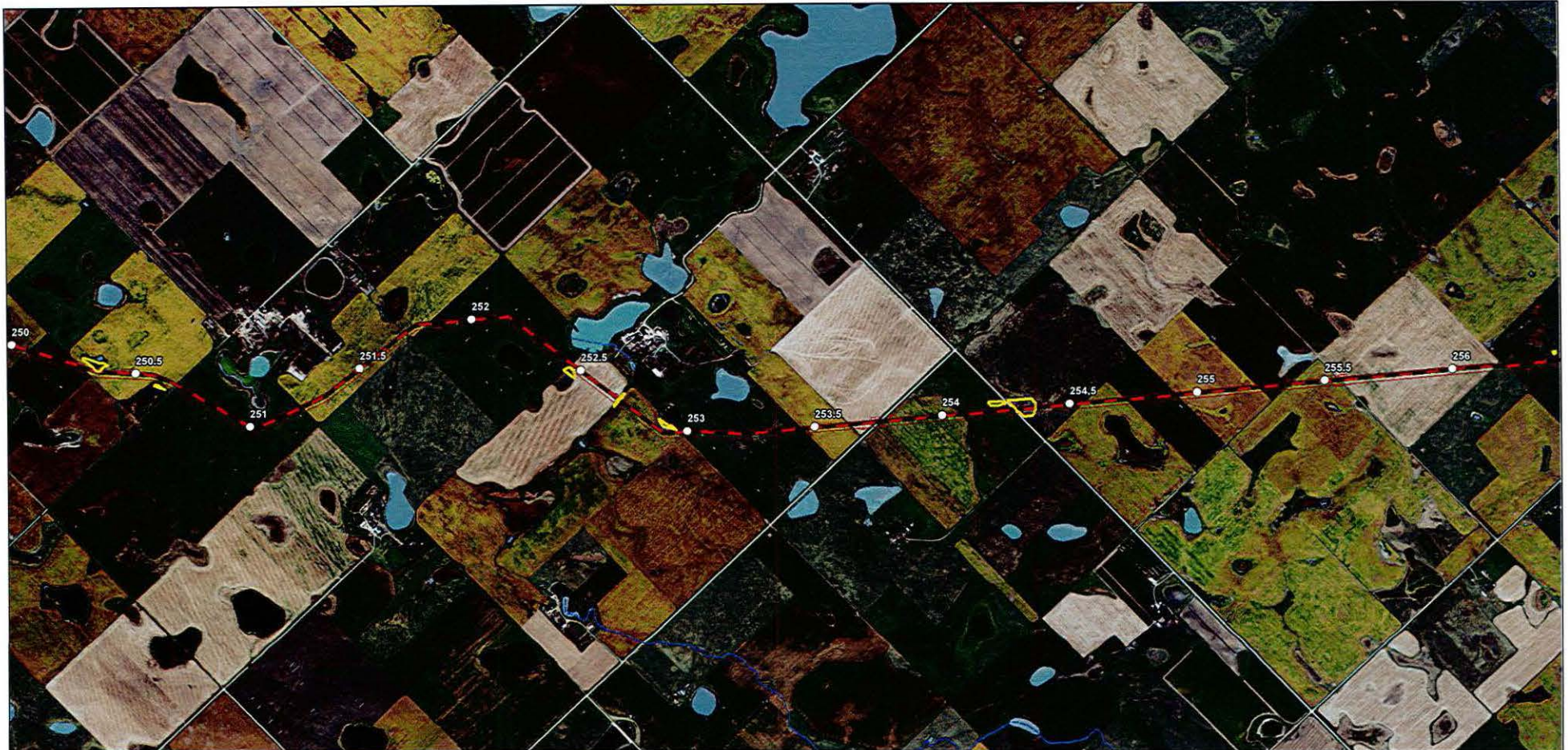


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|---------------------|------------------------|---------------|------------------------|---------------------------|
| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
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| ◆ Mainline Valve | — Topeka Shiner Stream | | — 460 Stream | □ 466 Swampmarsh |
| — Proposed Route | | | — 558 Artificial Path | |

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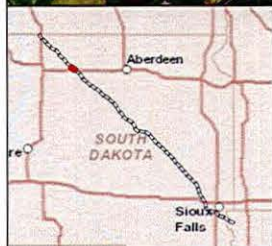
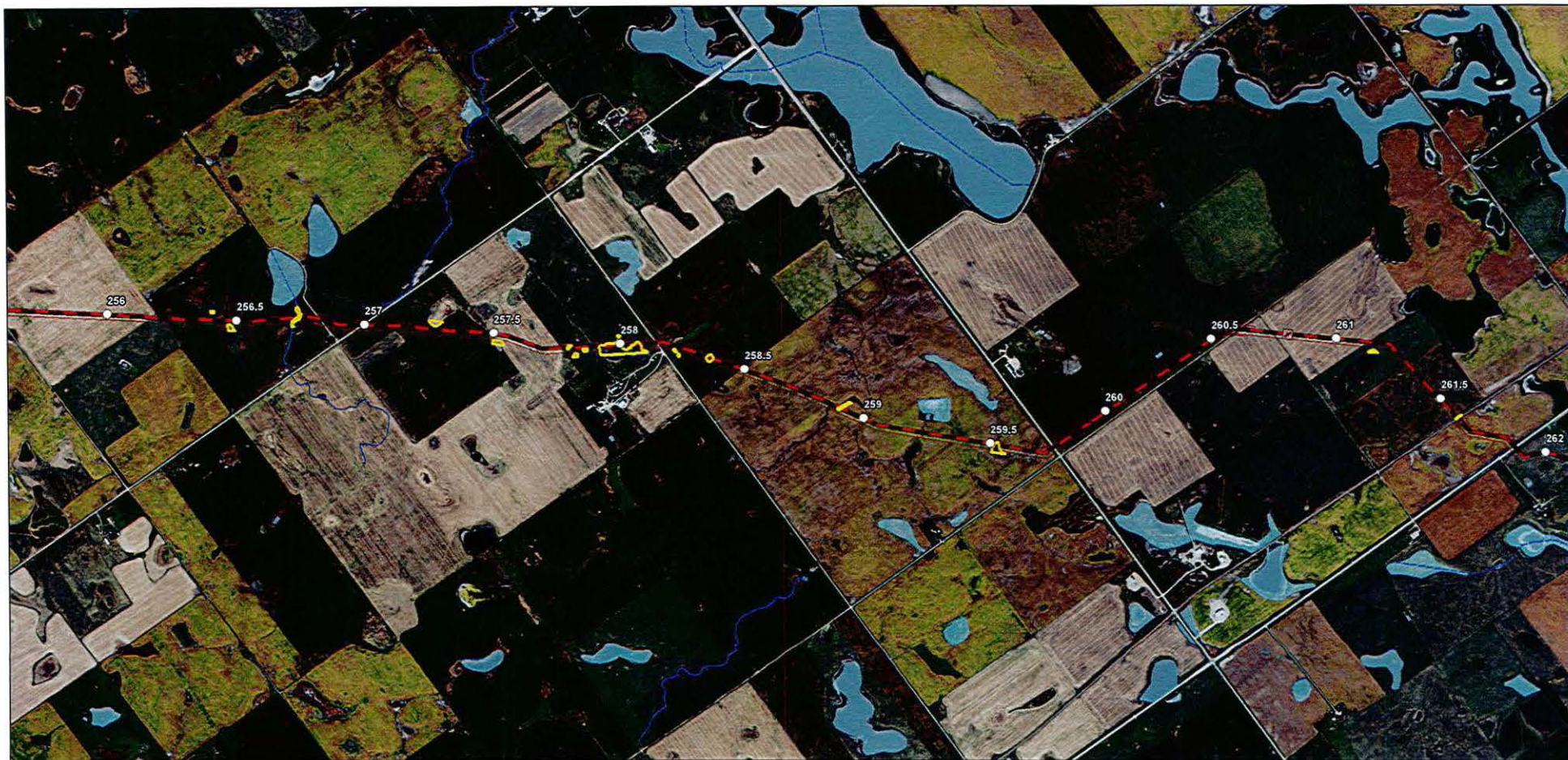


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South Dakota



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|---------------------|------------------------|---------------|------------------------|---------------------------|
| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
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| — Proposed Route | | | — 558 Artificial Path | |

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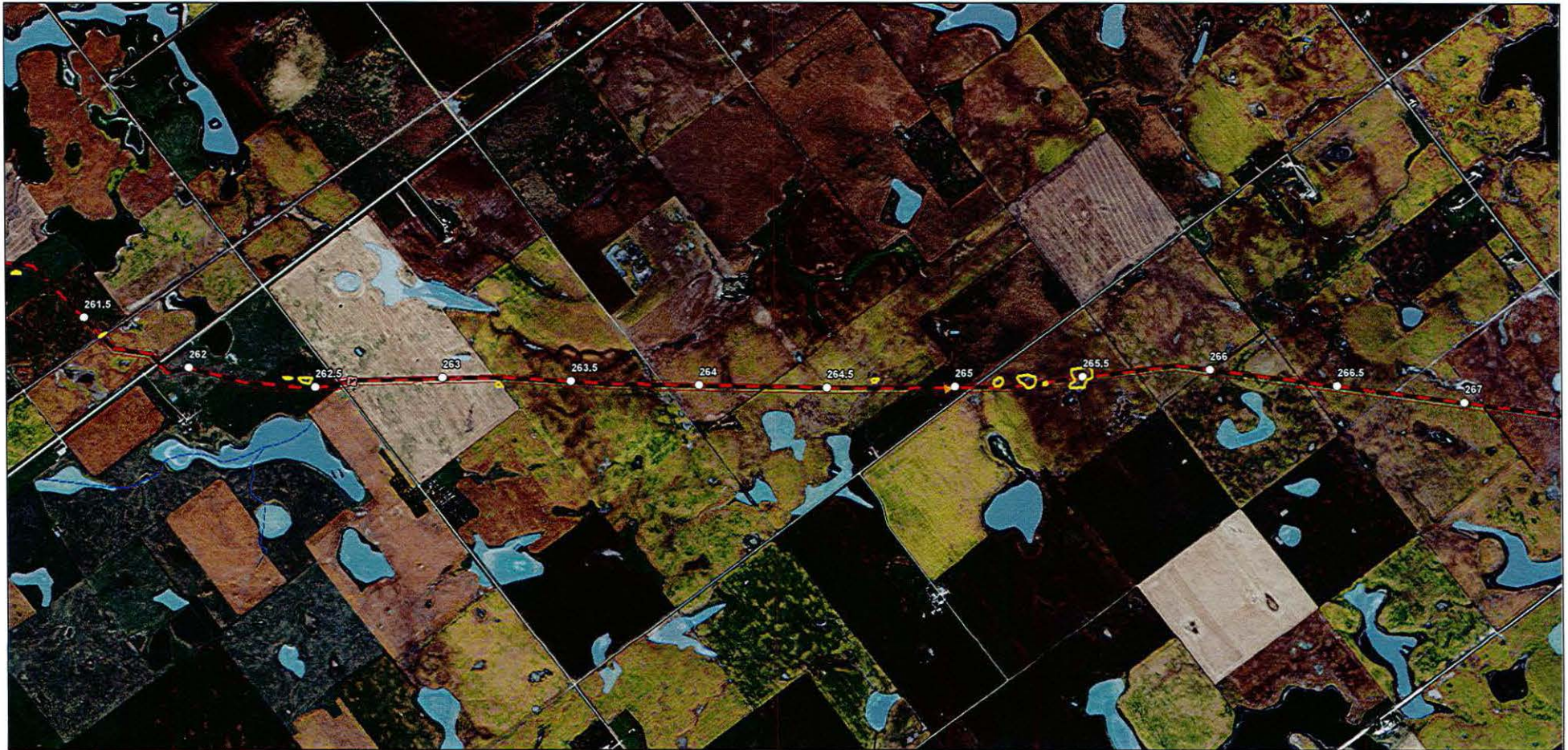
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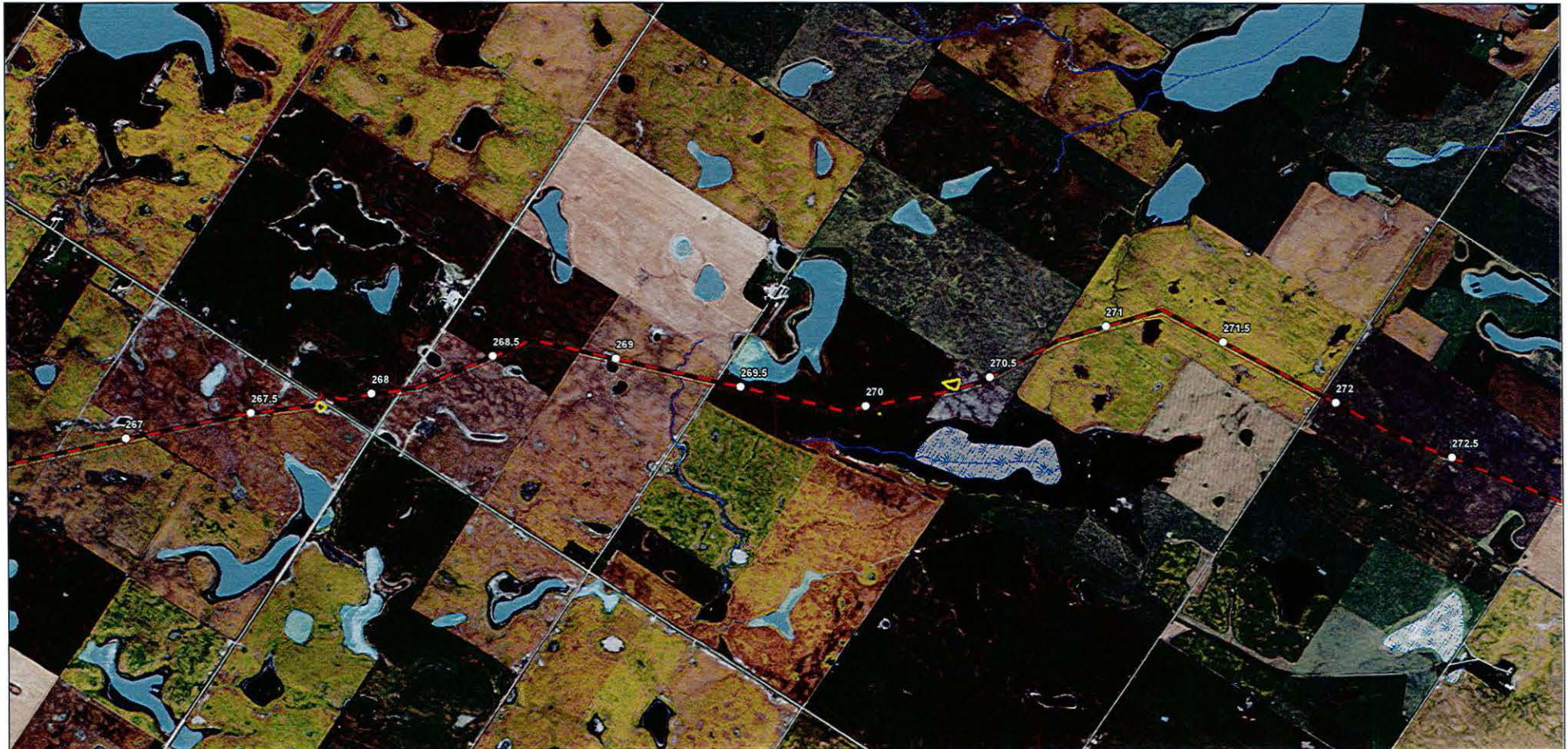


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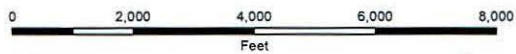


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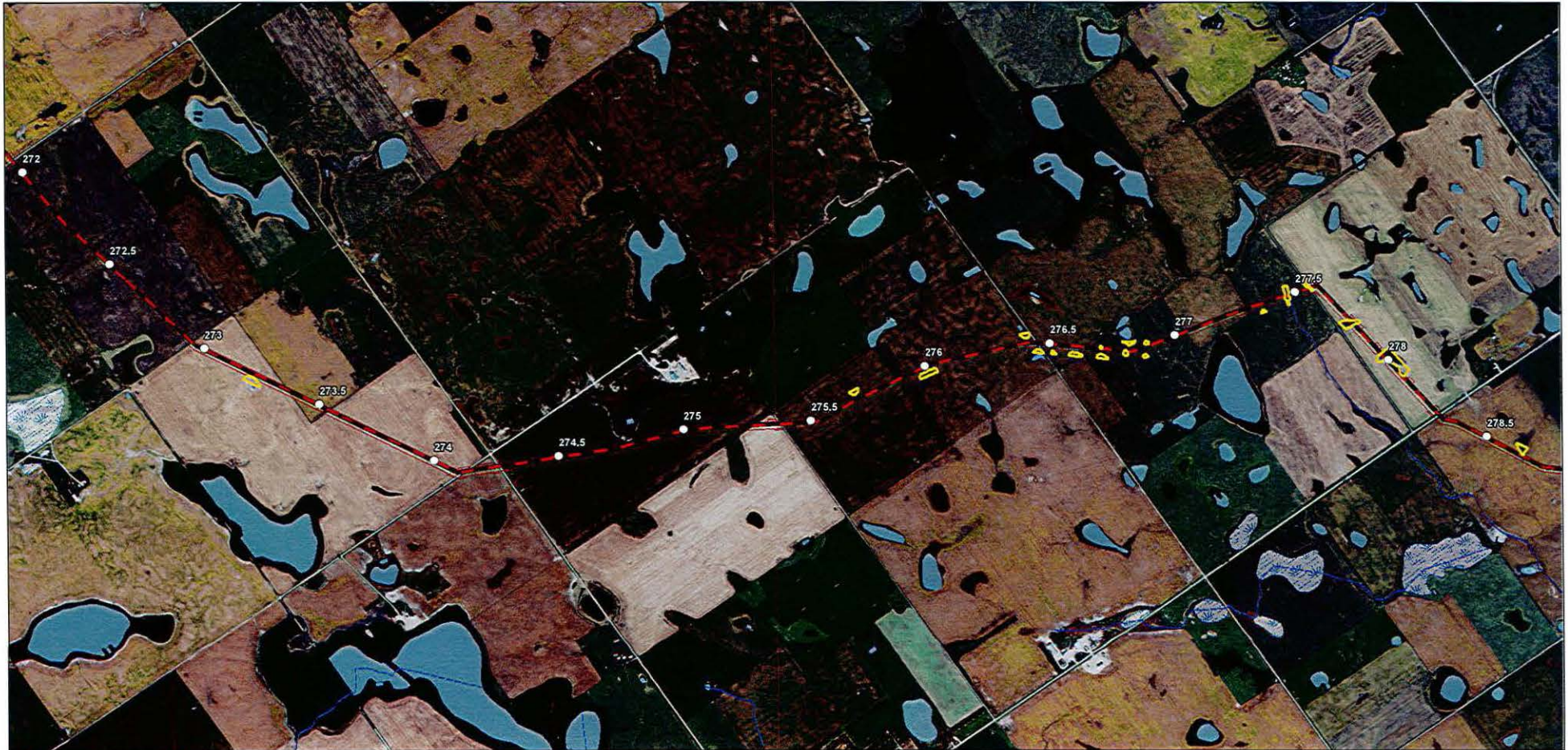
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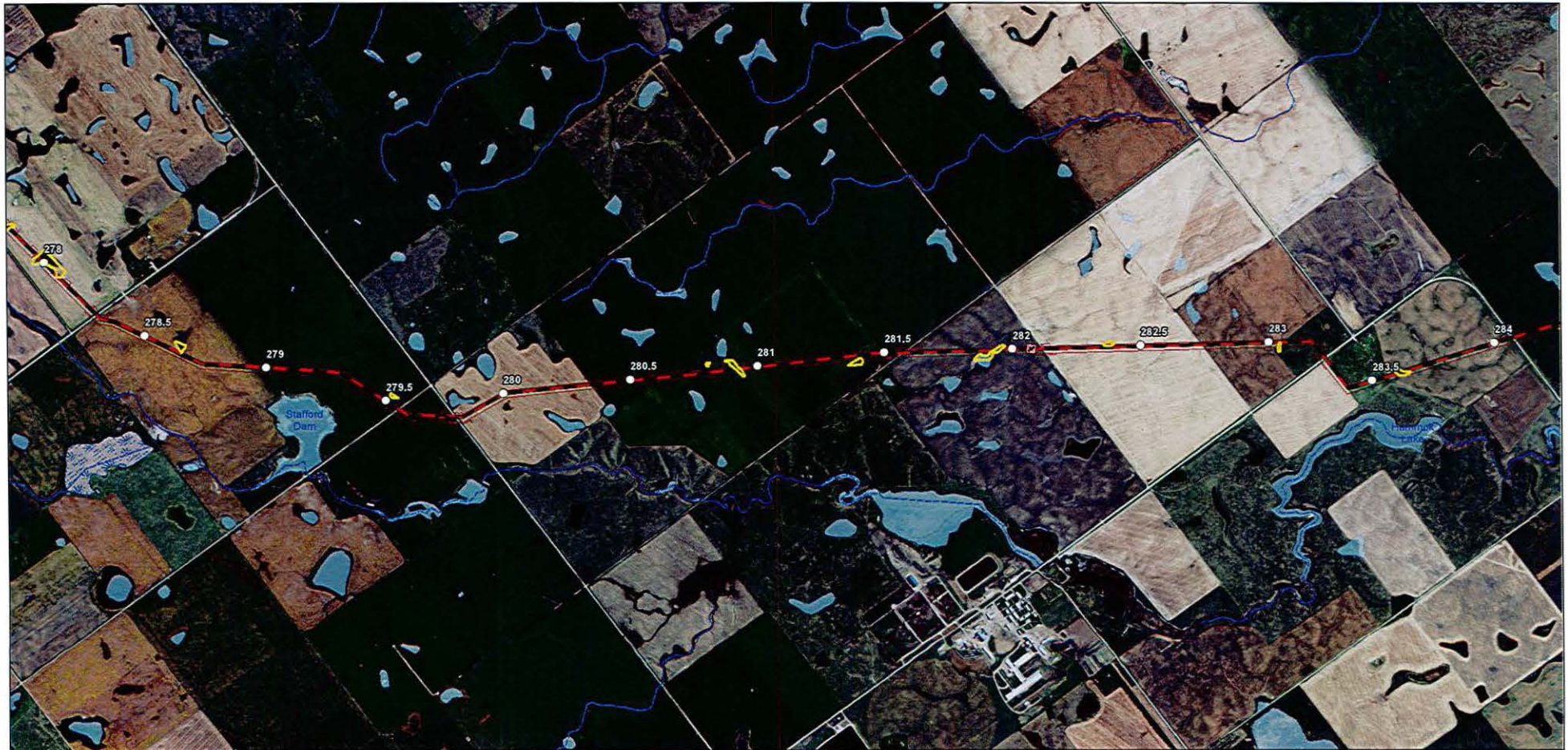
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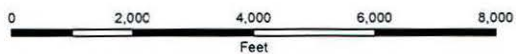
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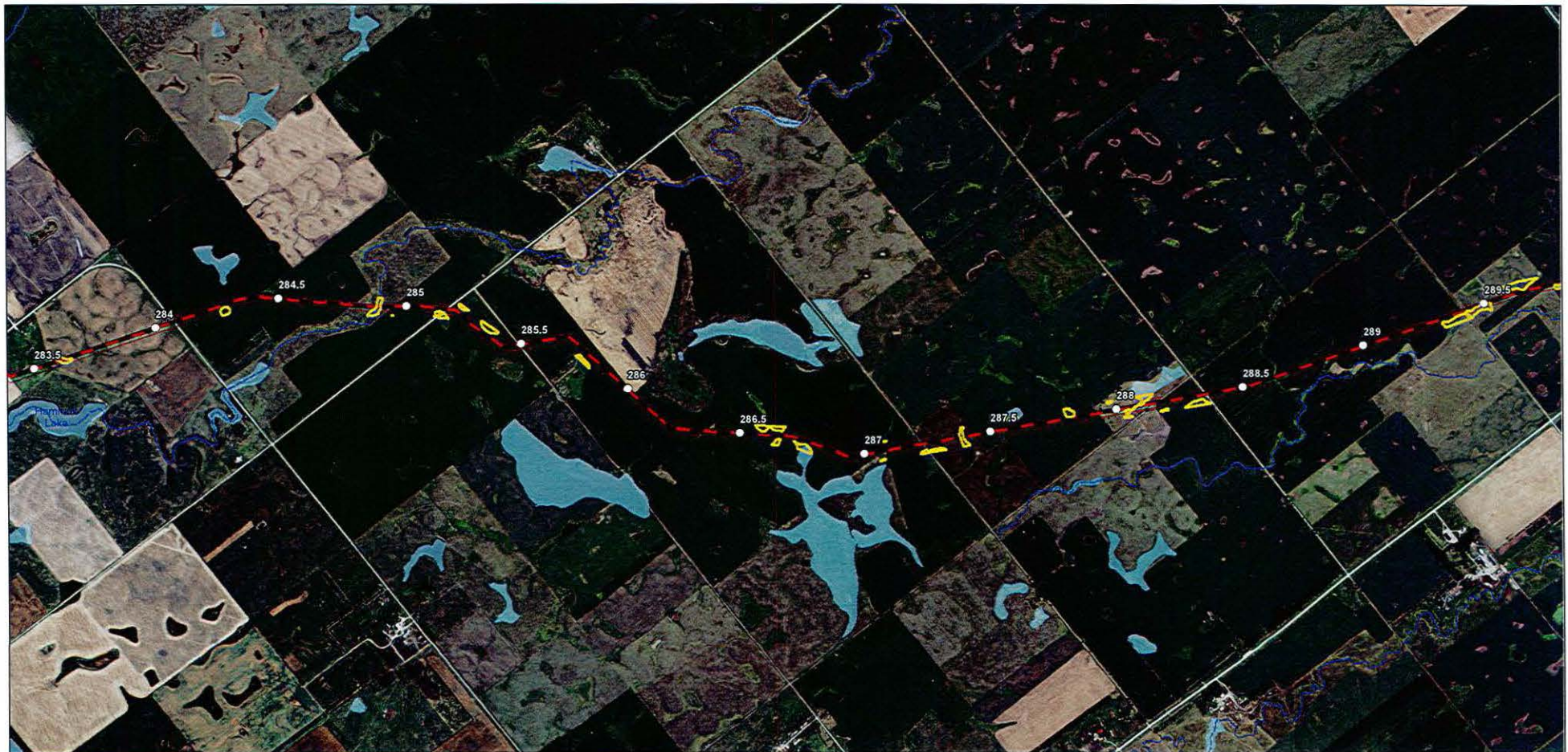
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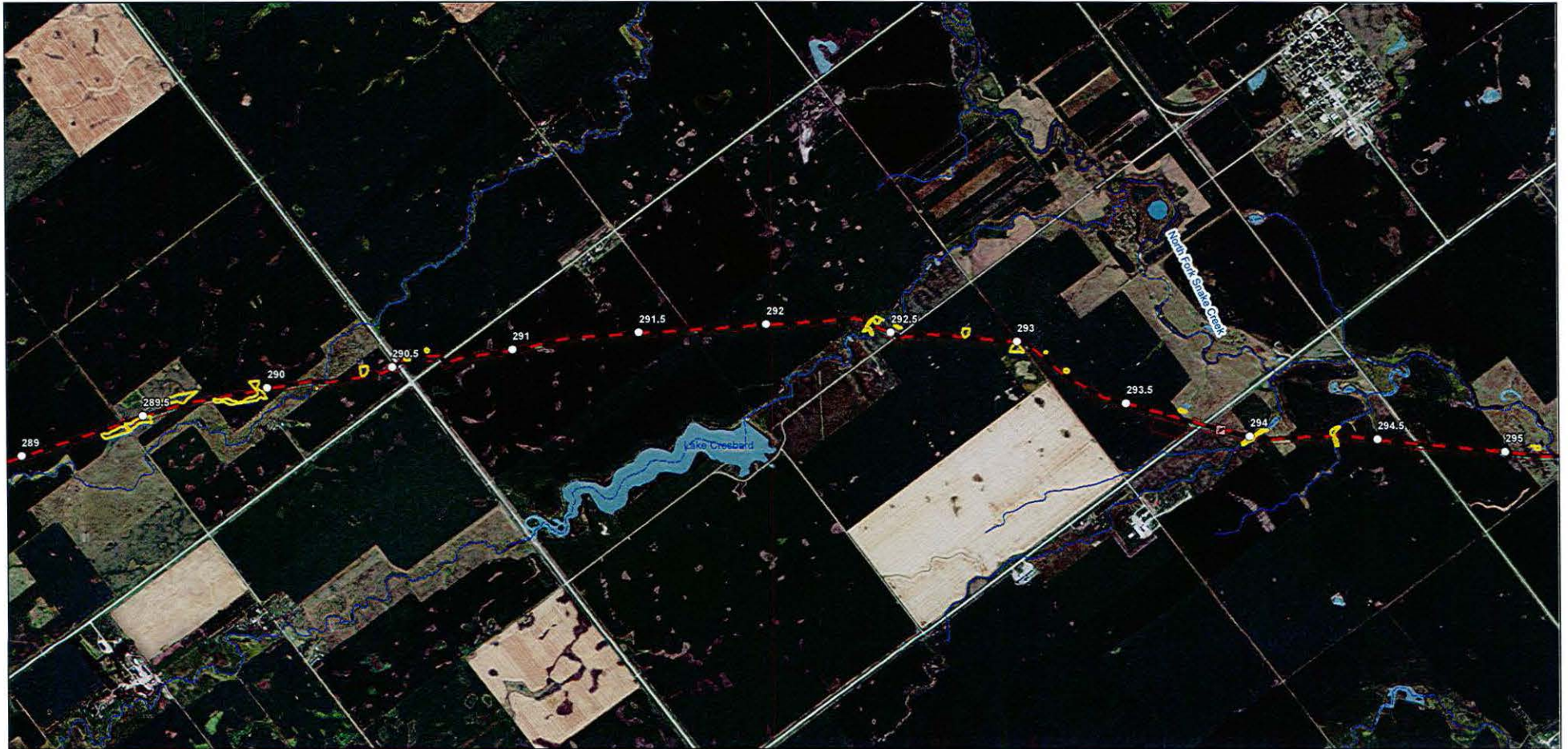
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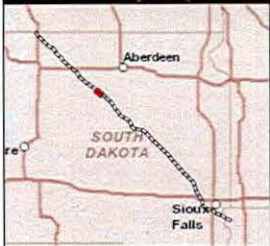
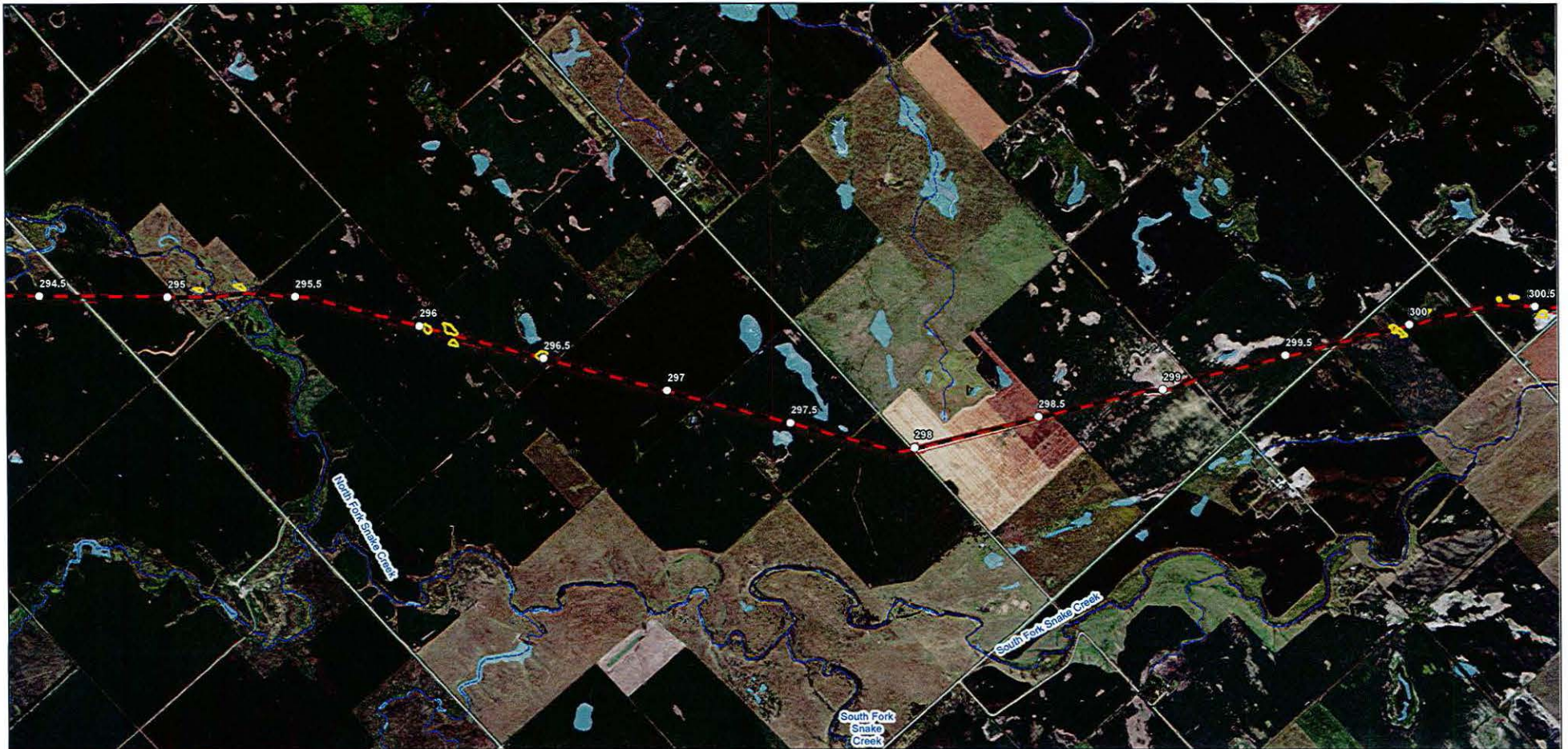
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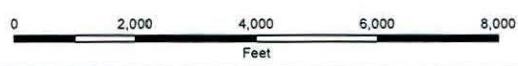
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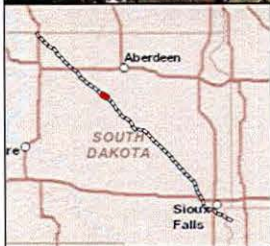
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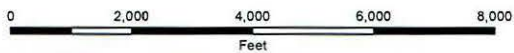
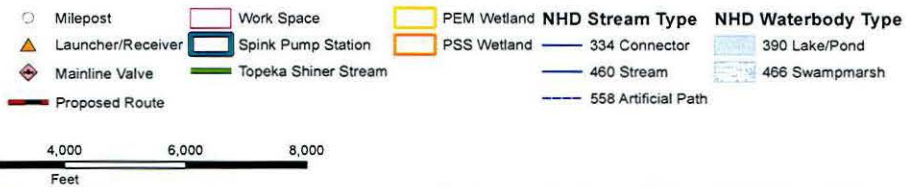
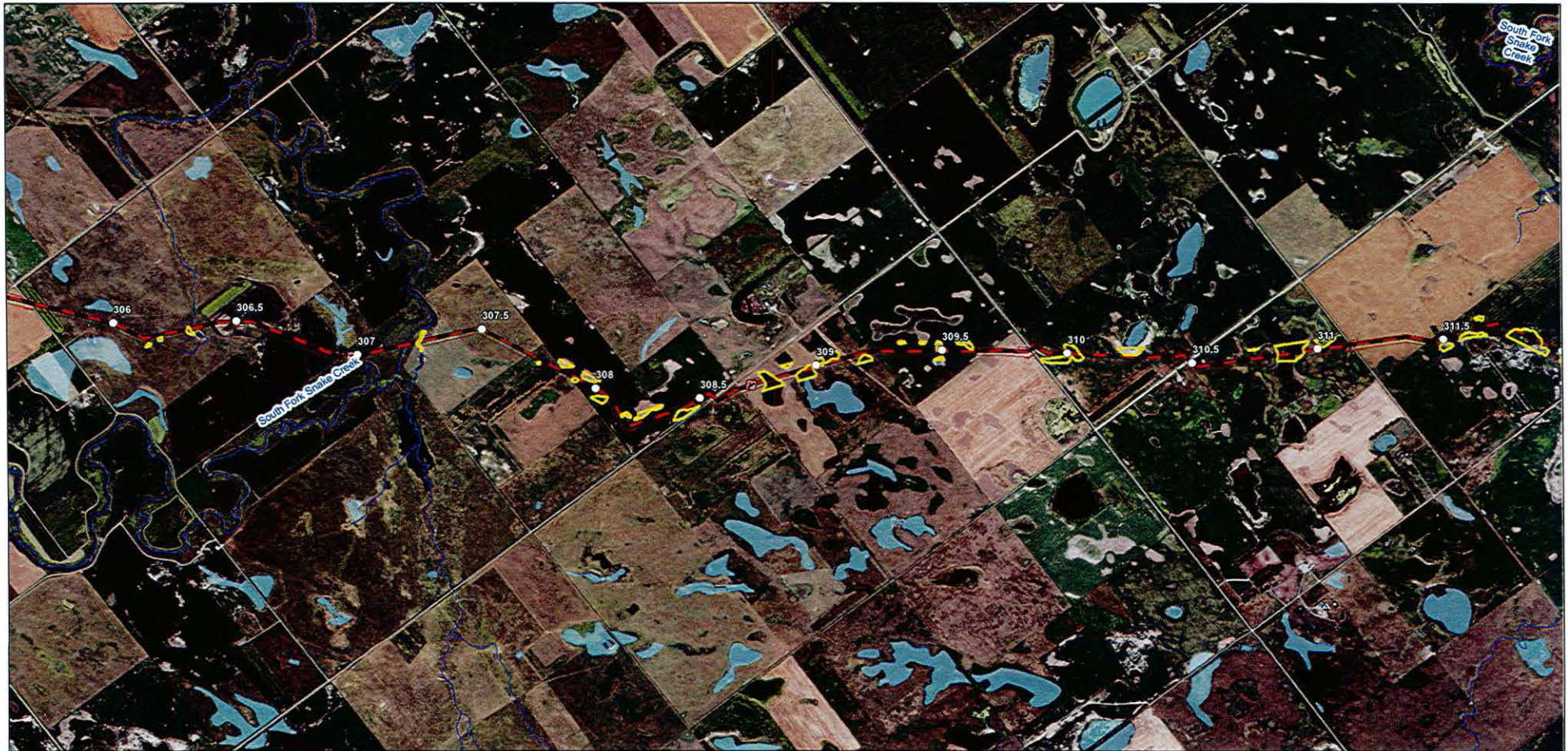
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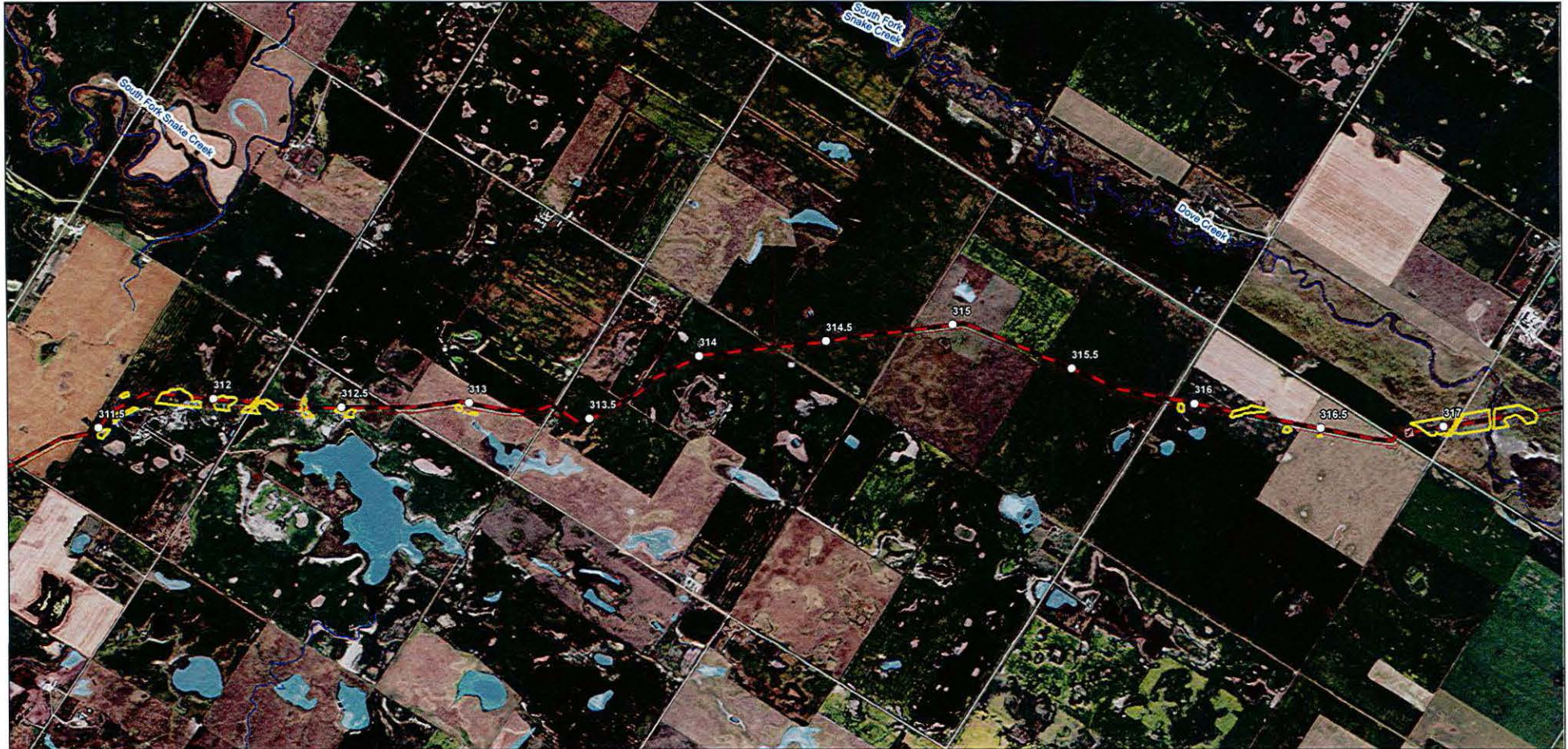
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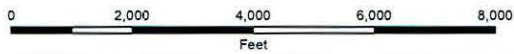
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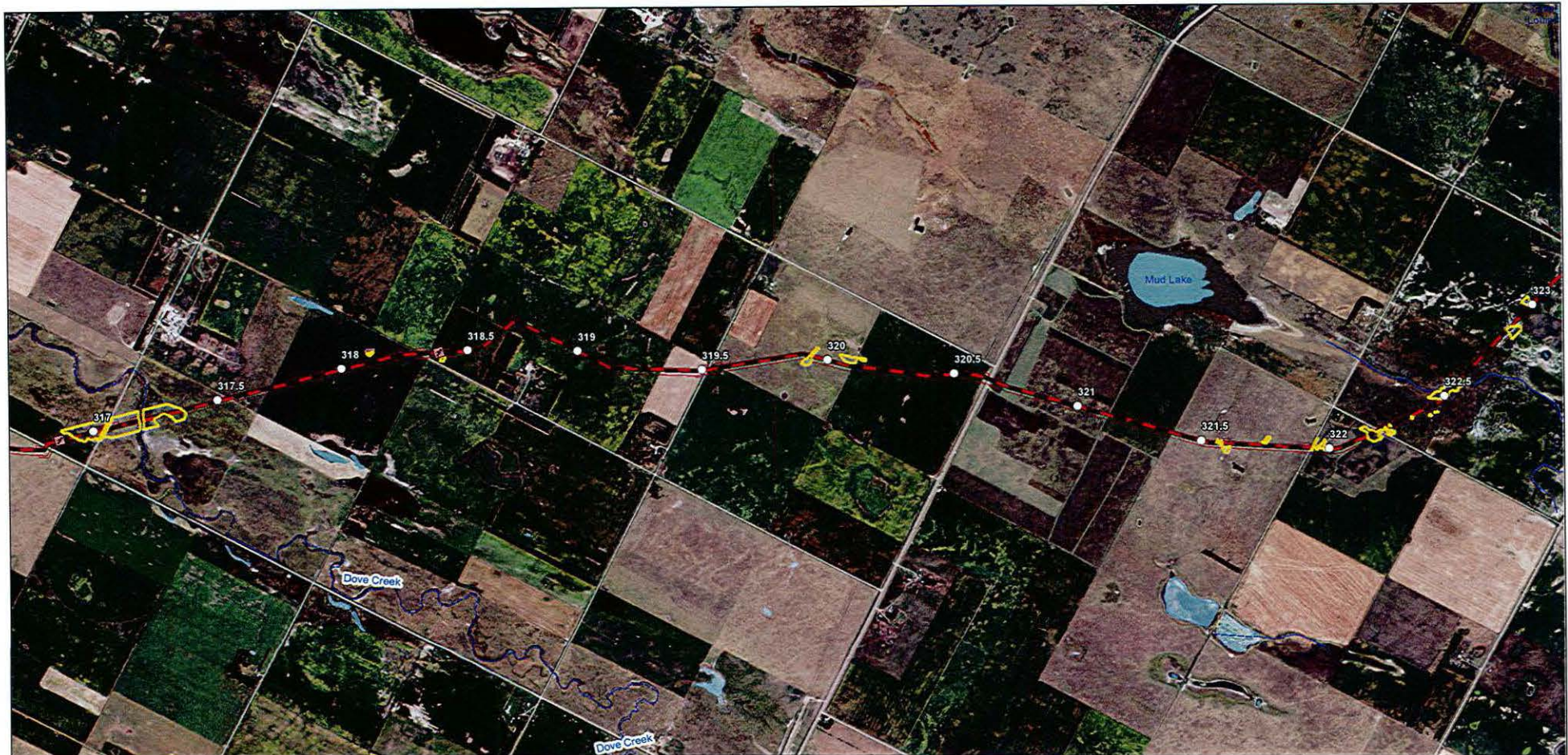
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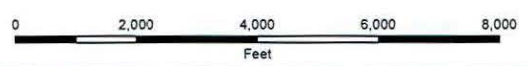
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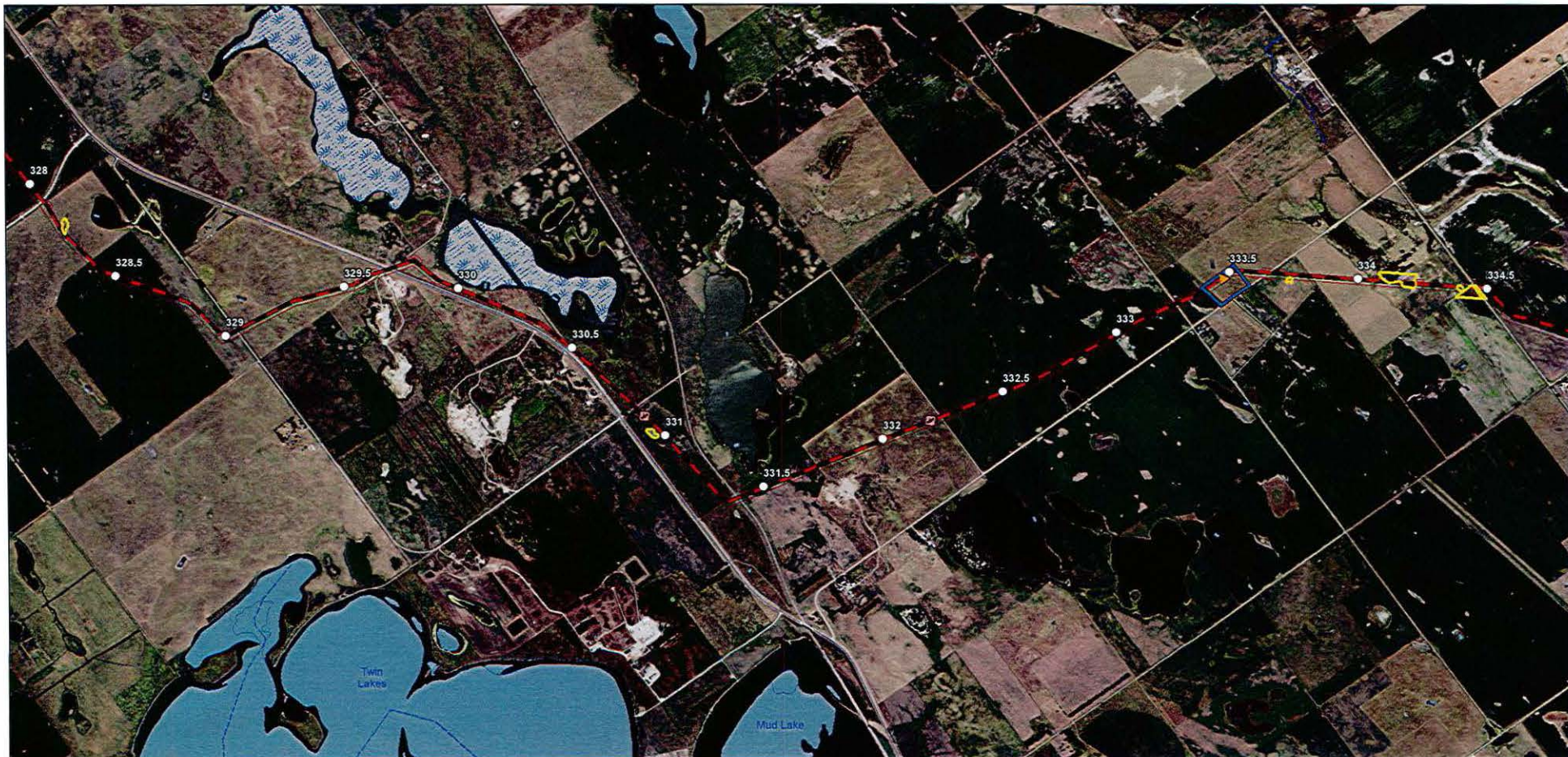
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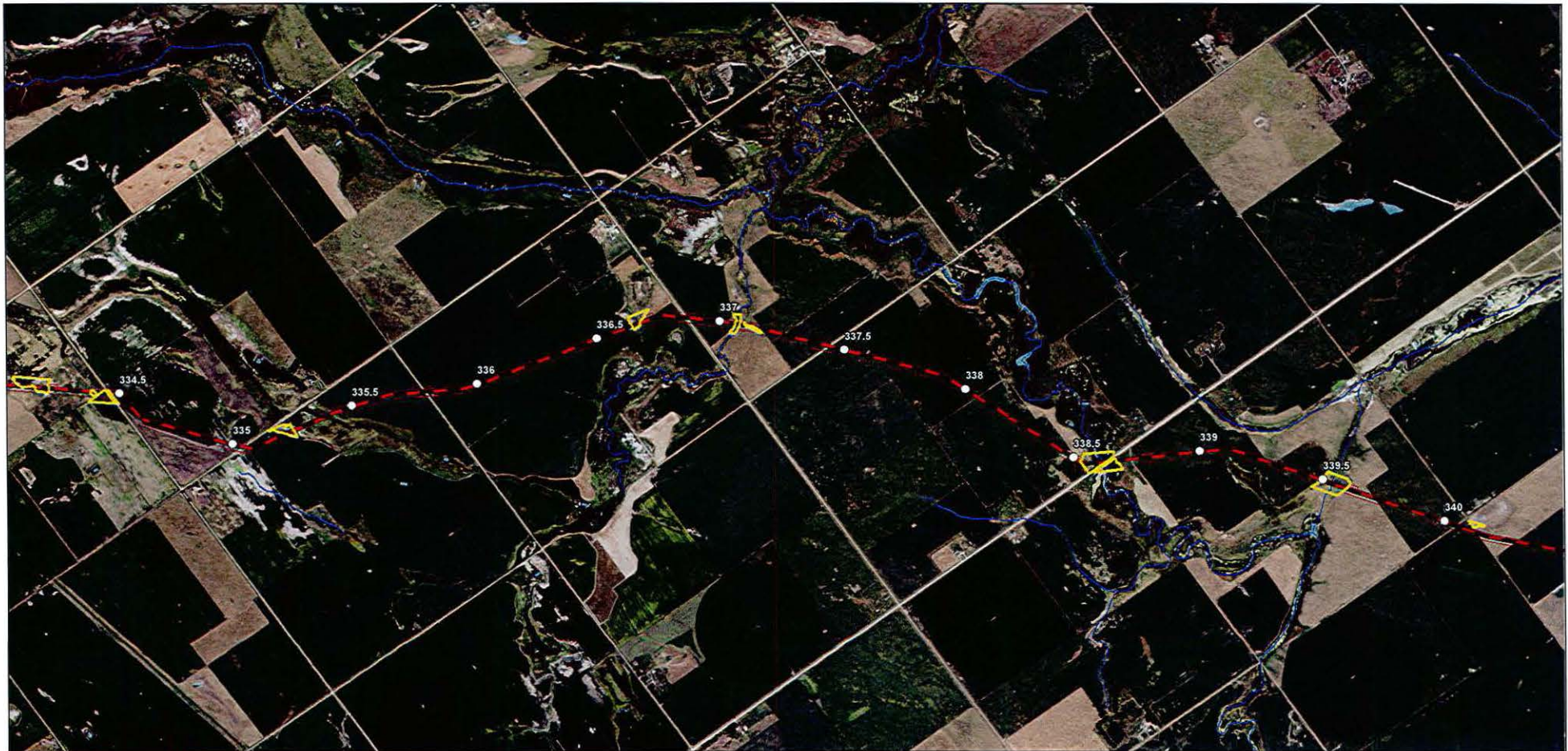


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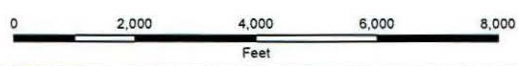
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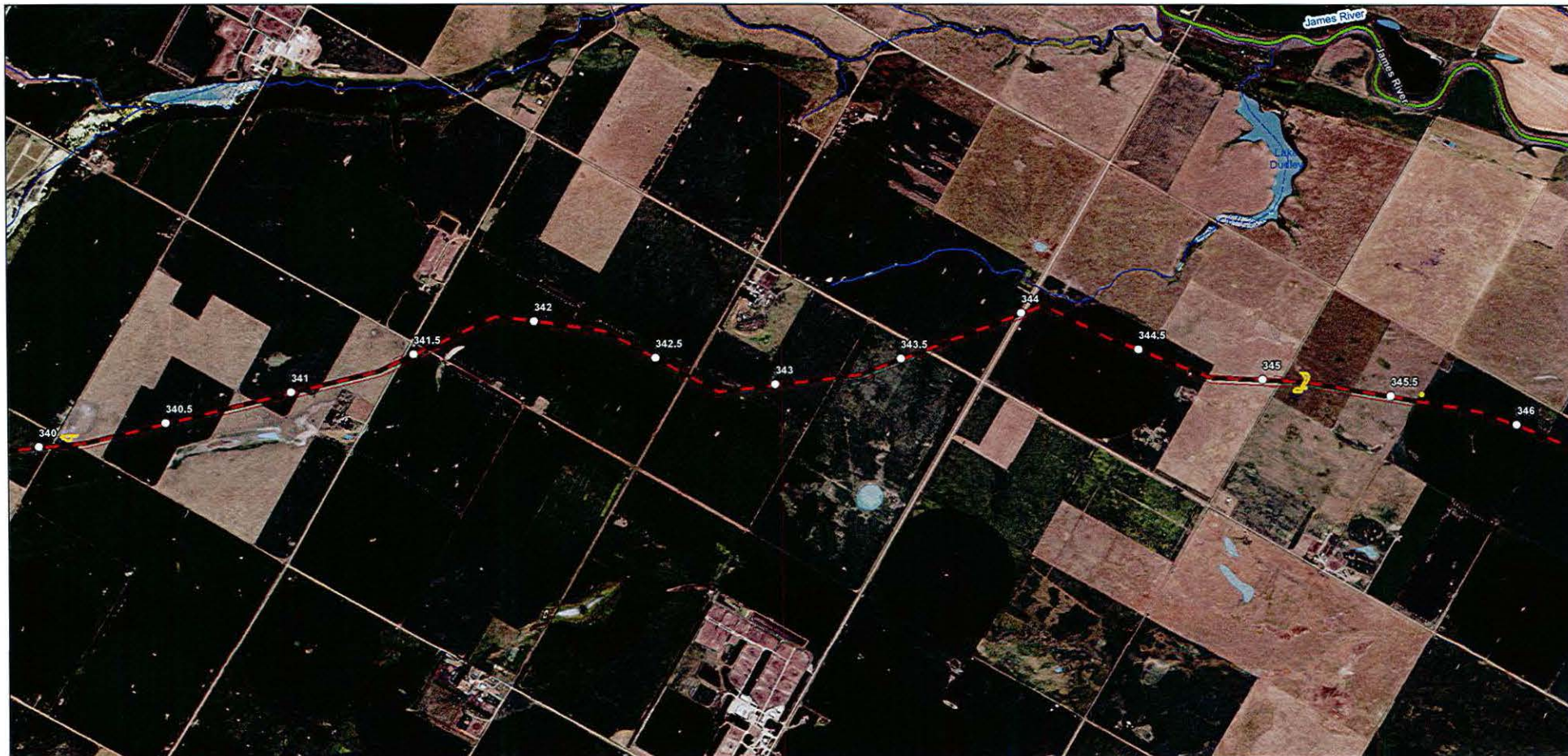


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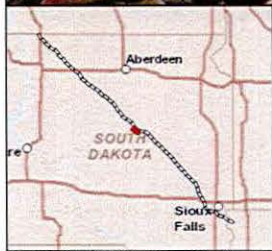
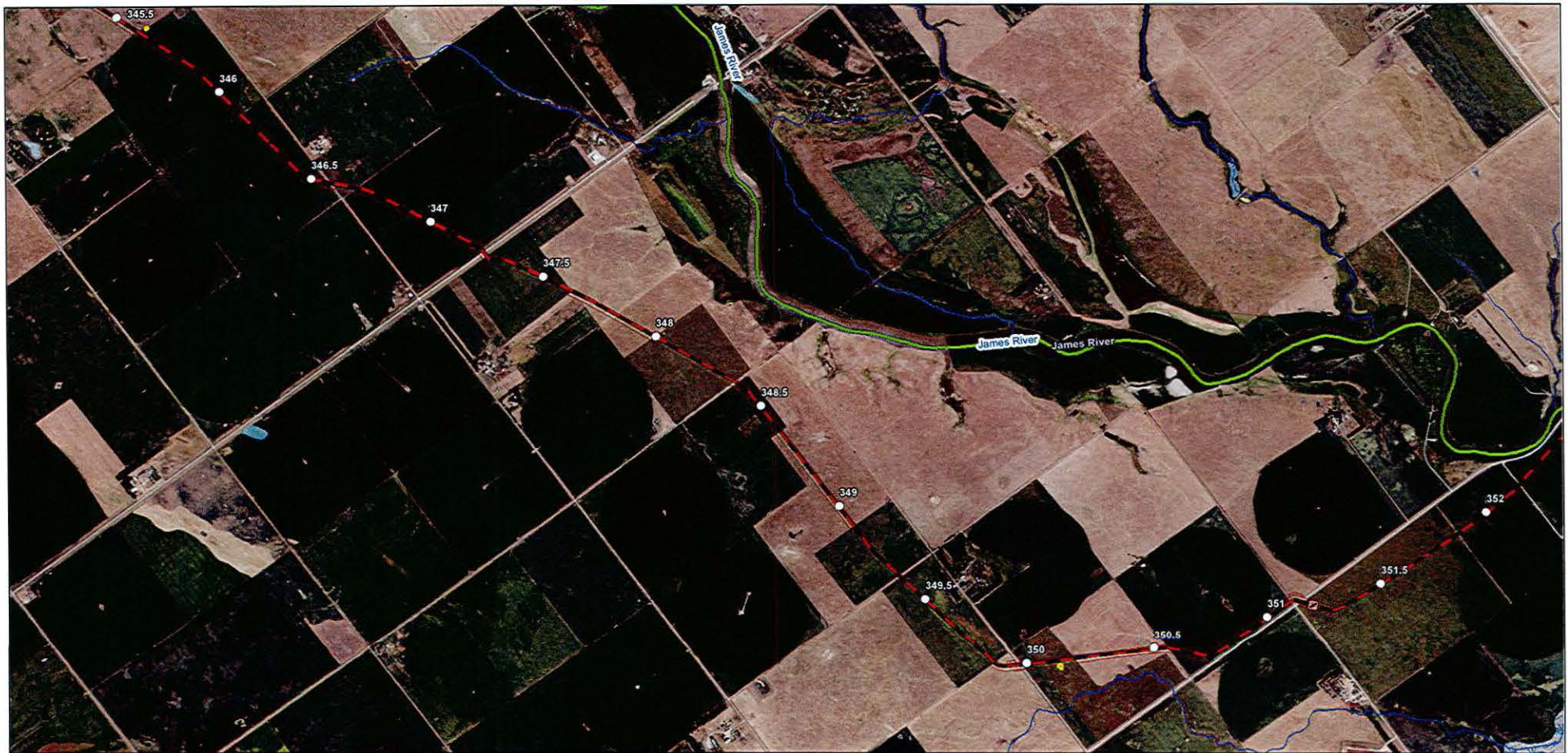


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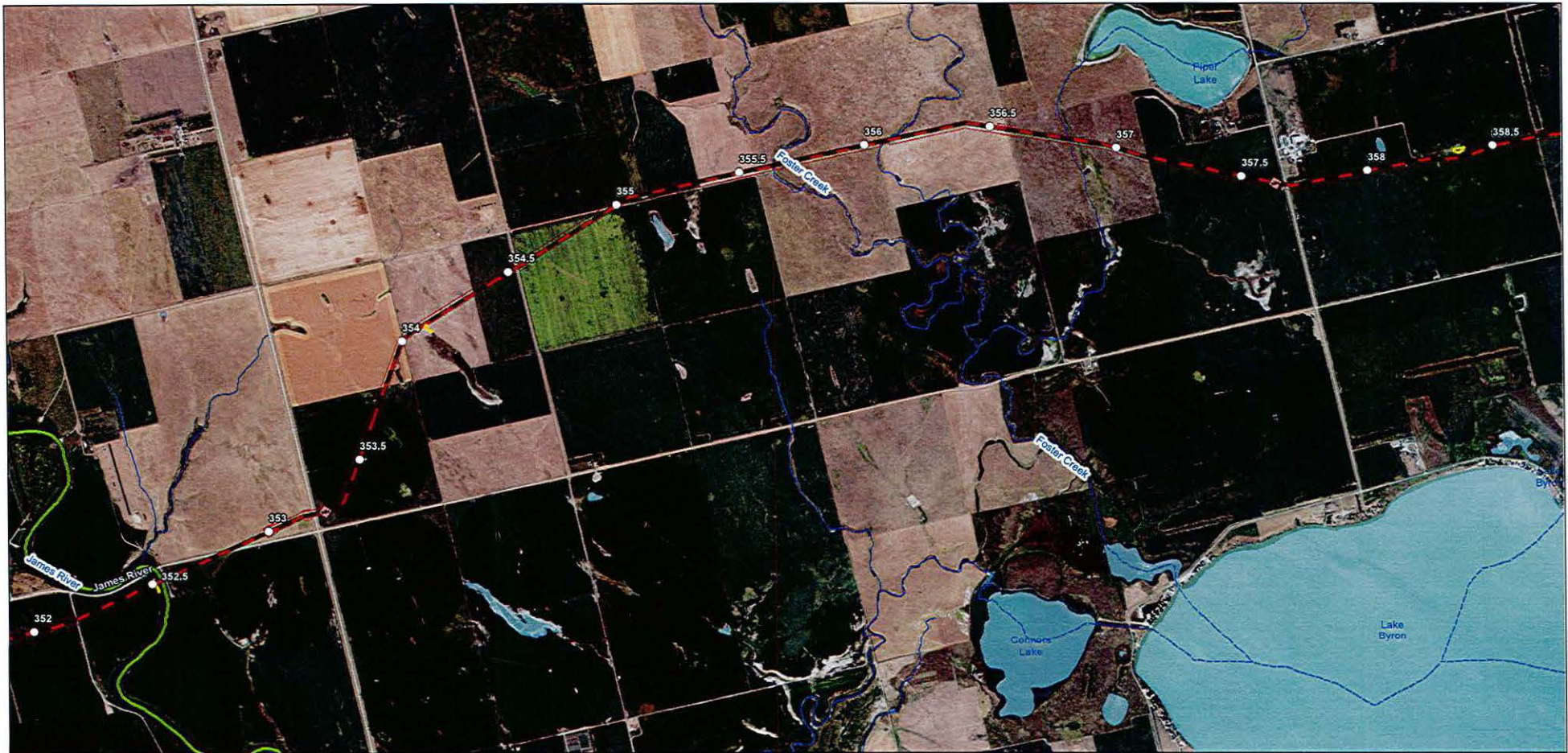
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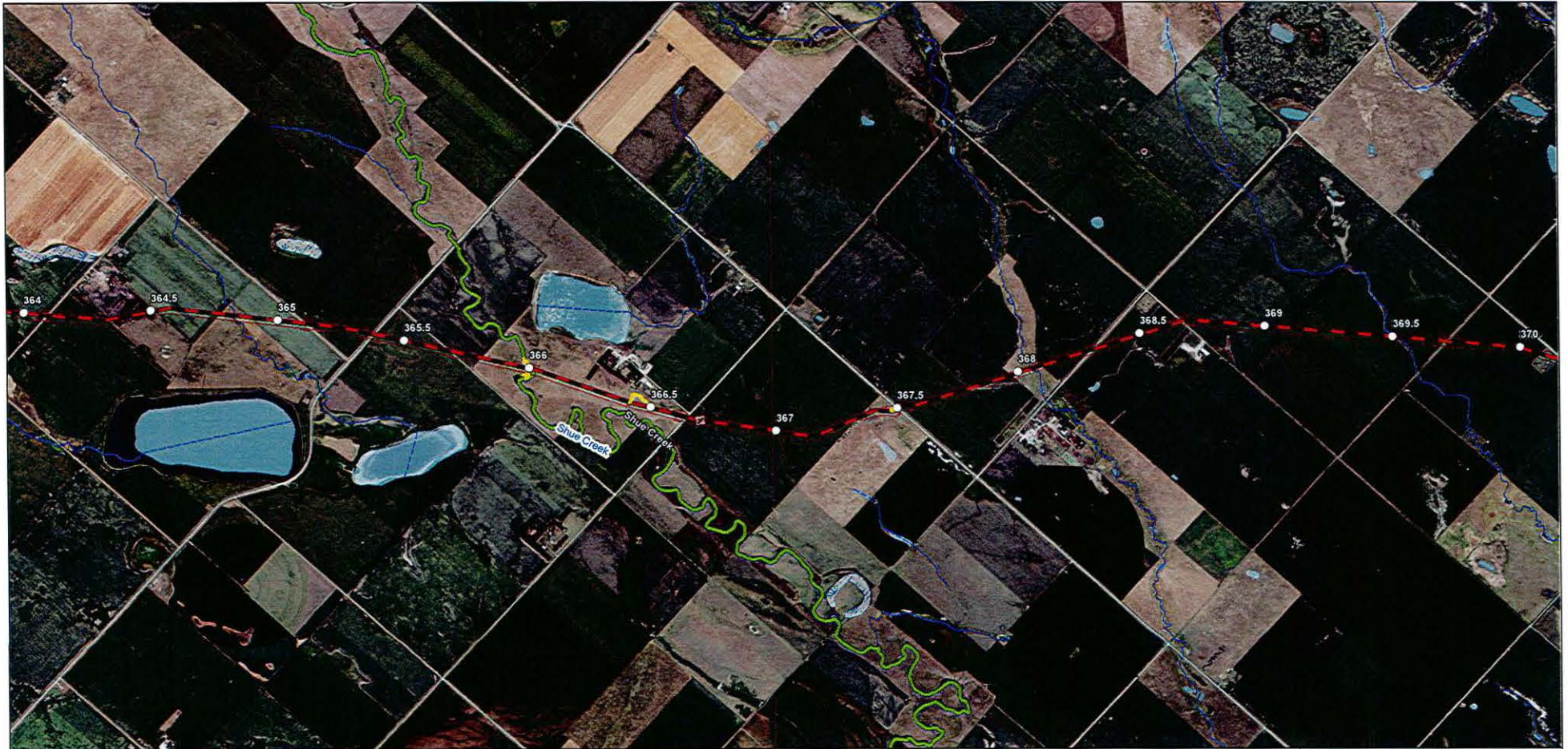


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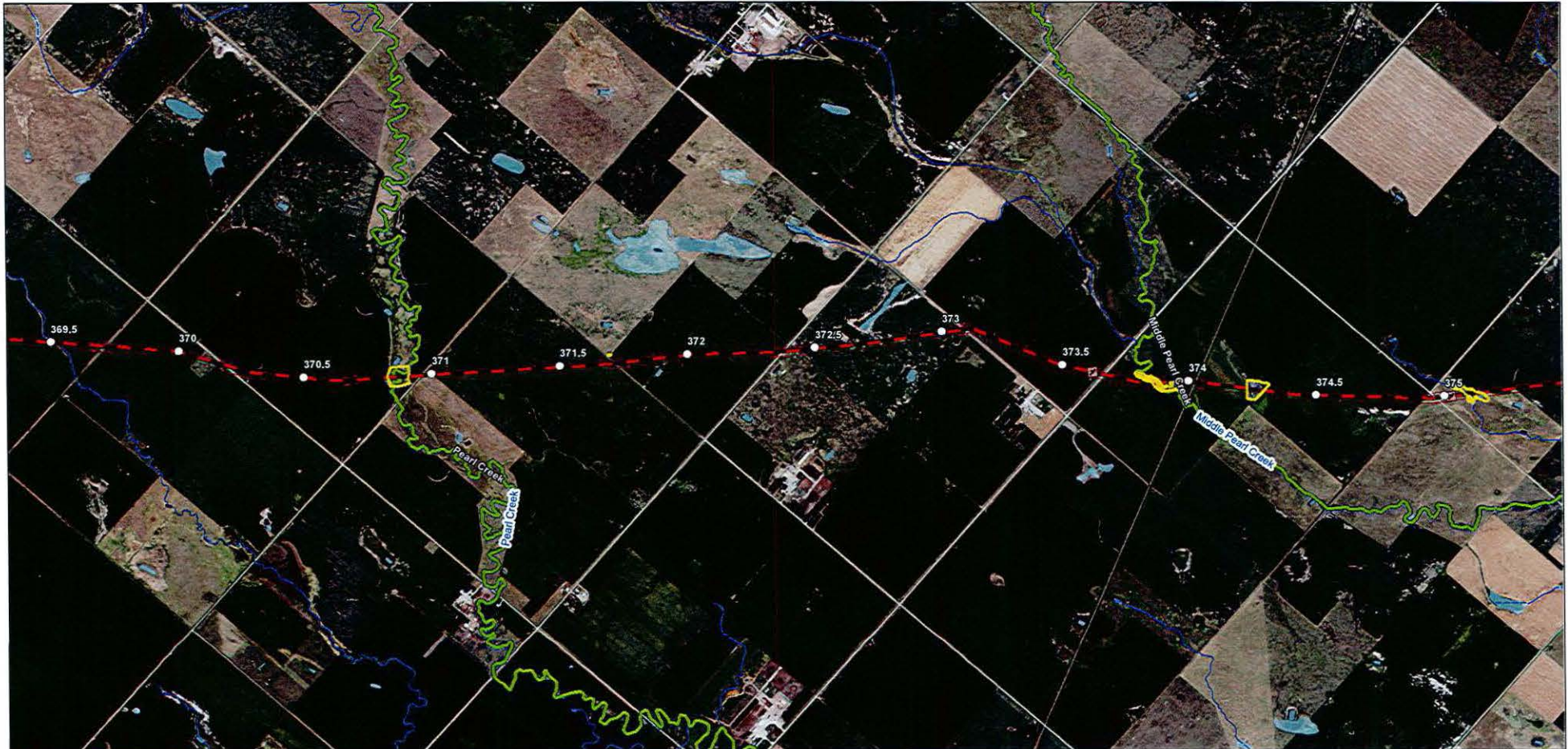
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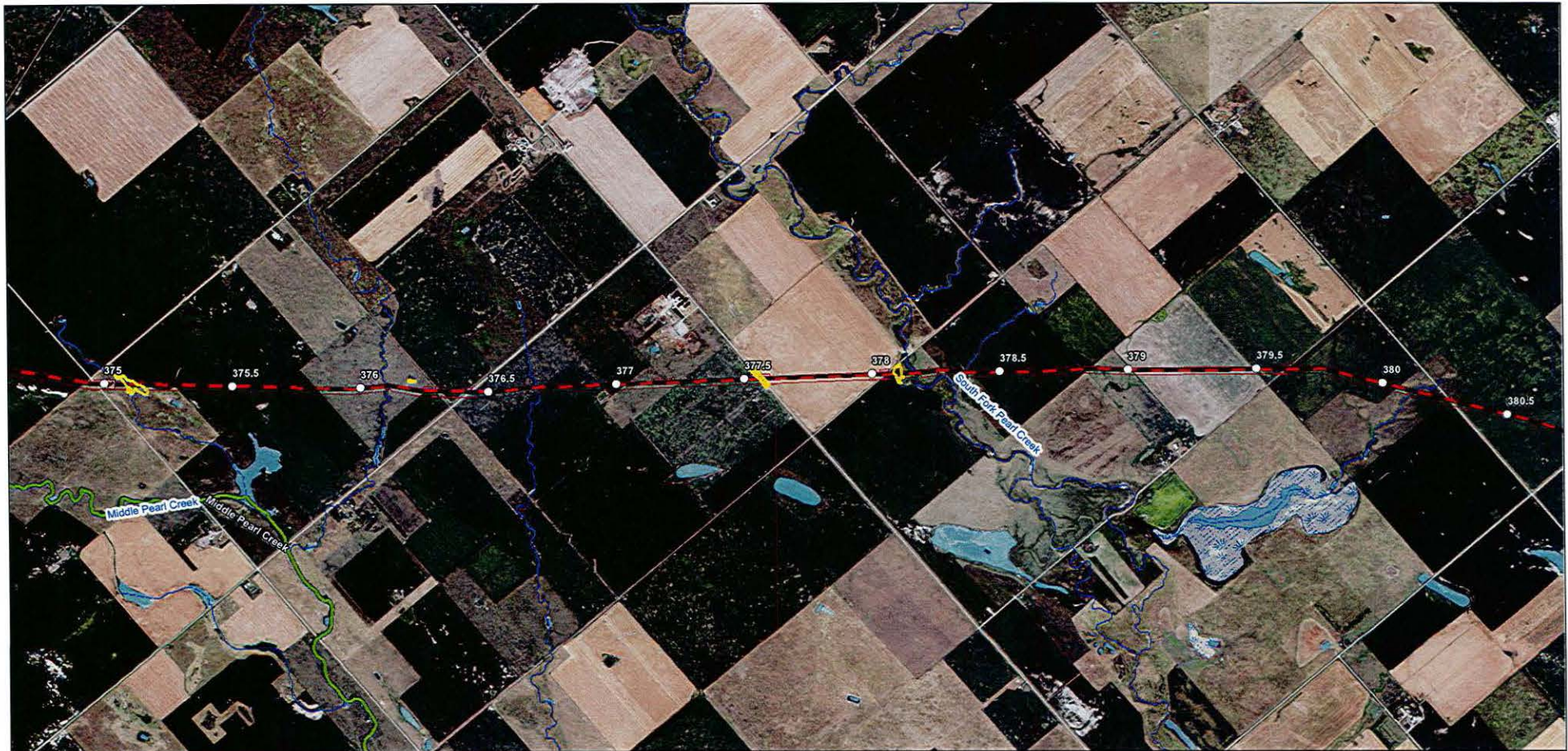
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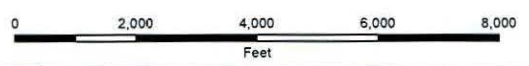
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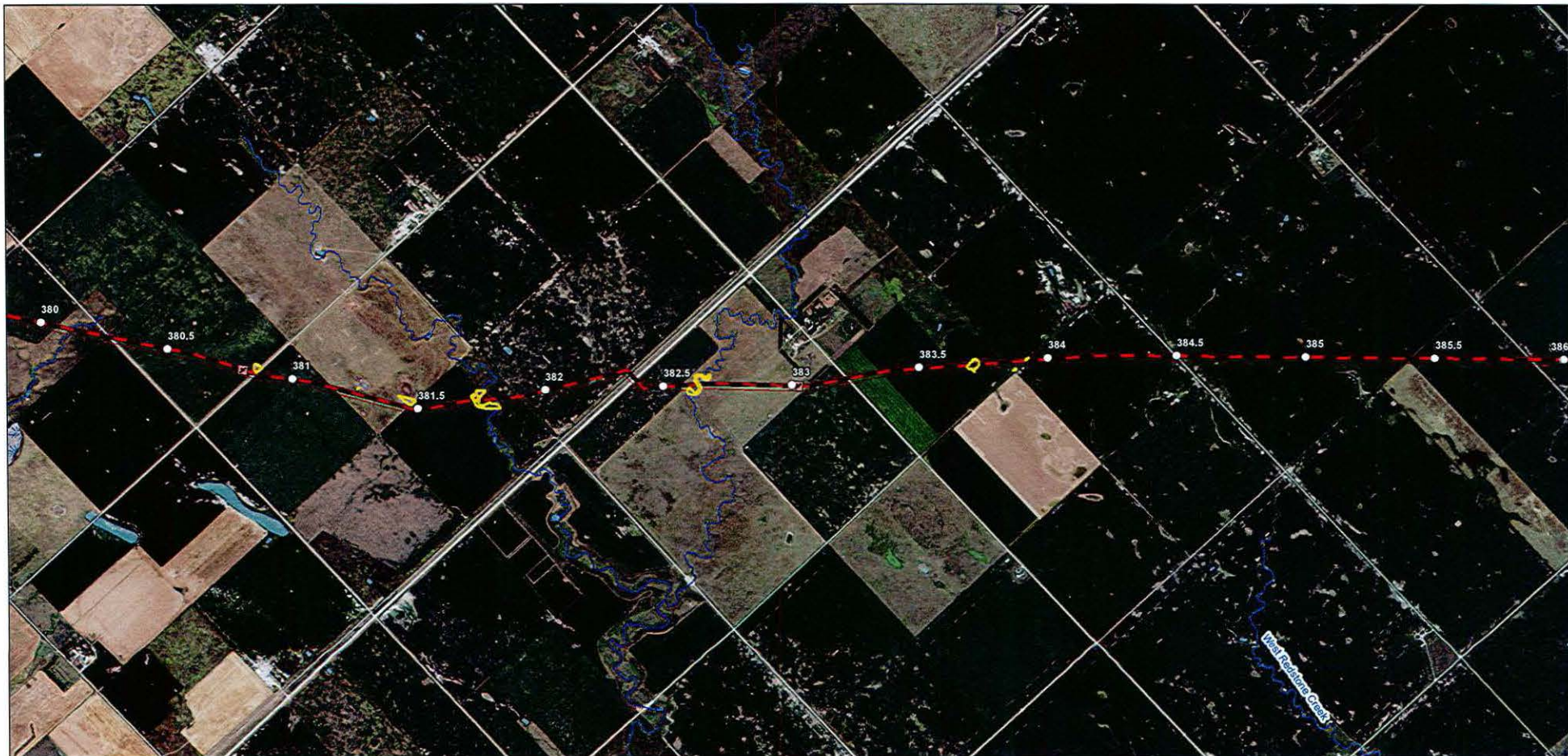
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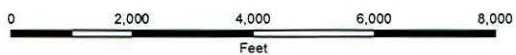
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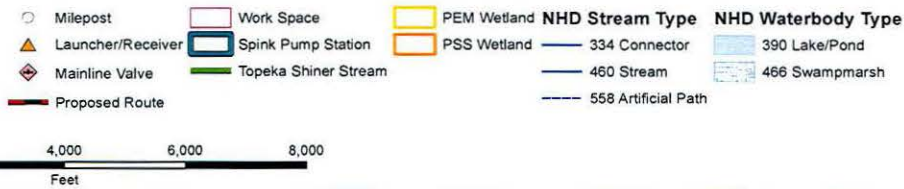
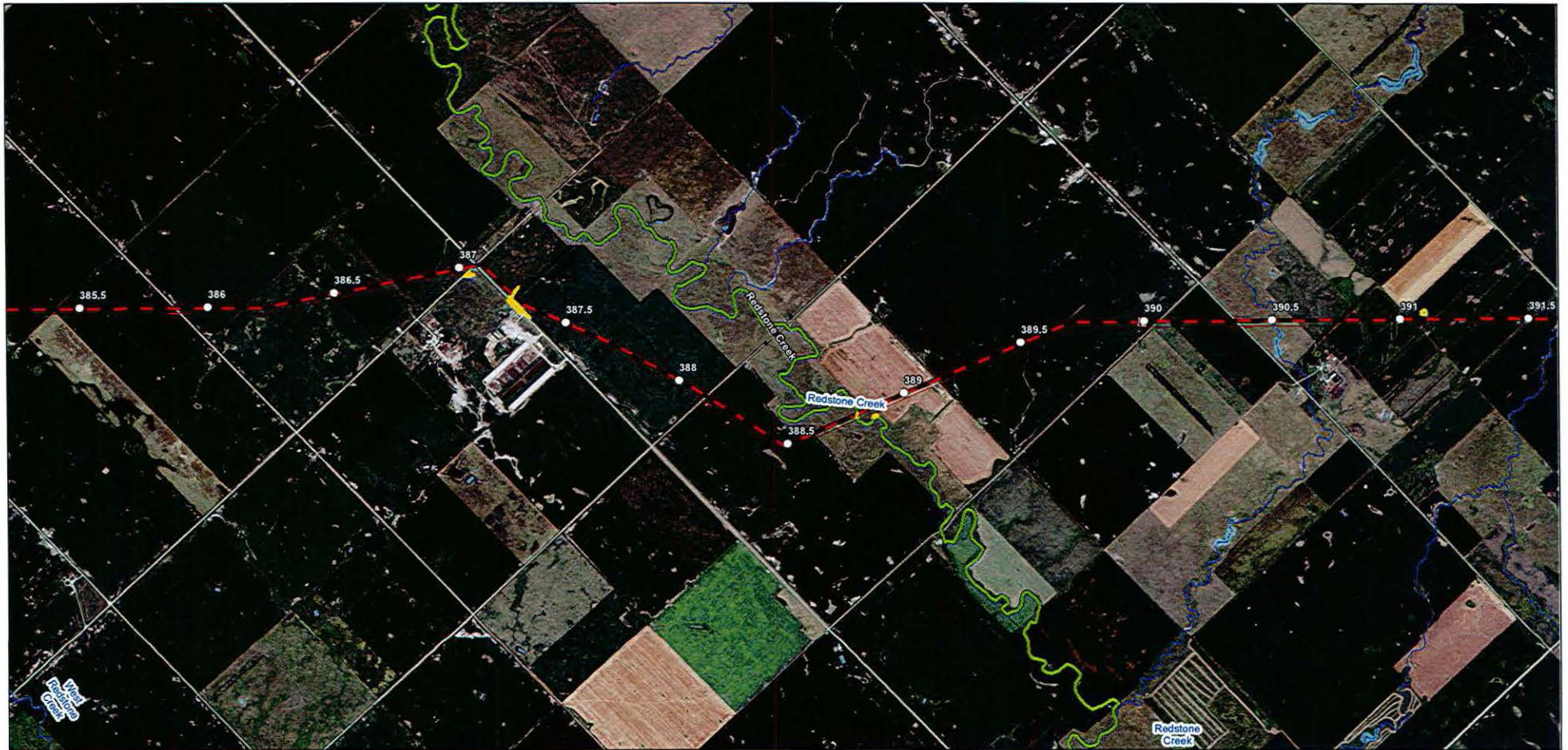
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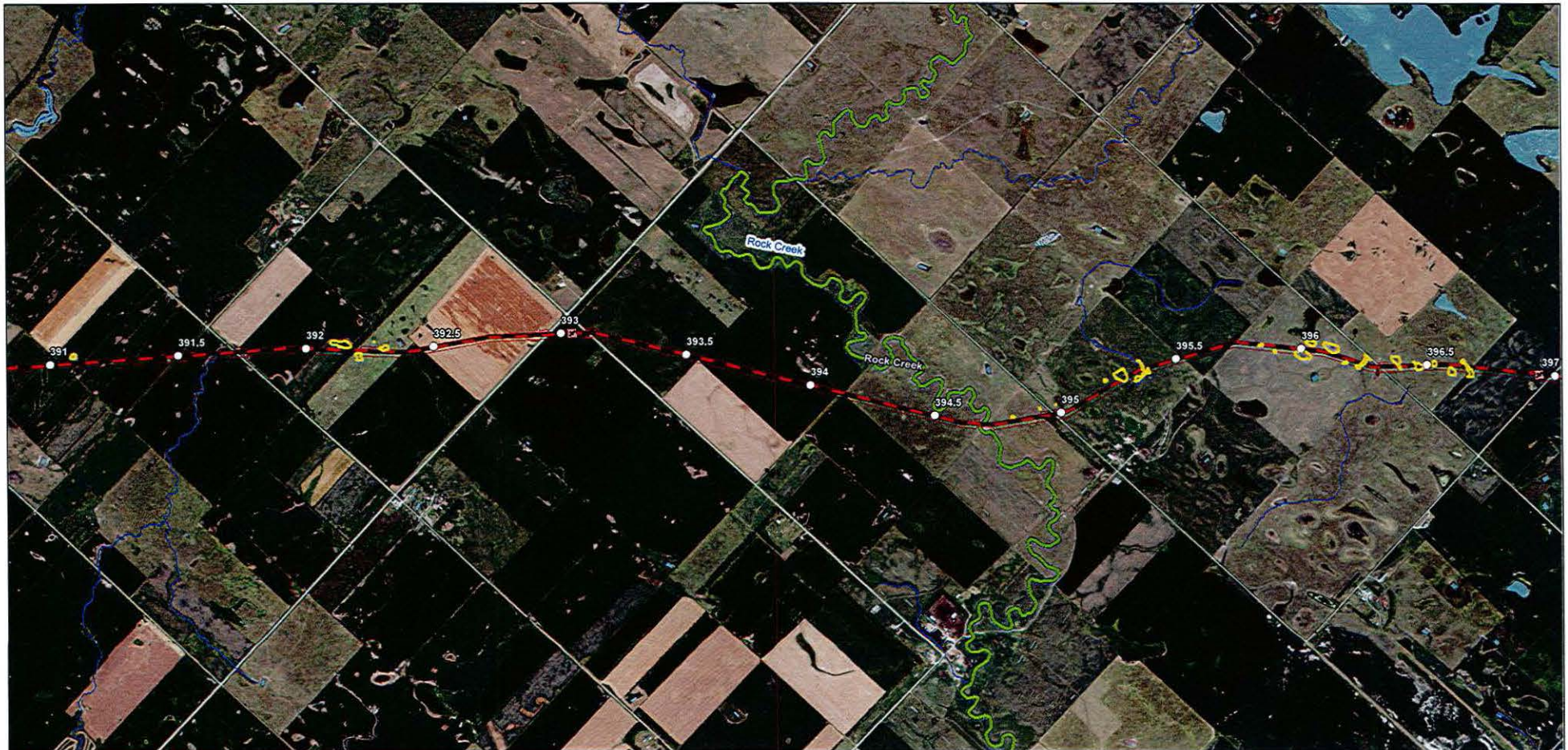
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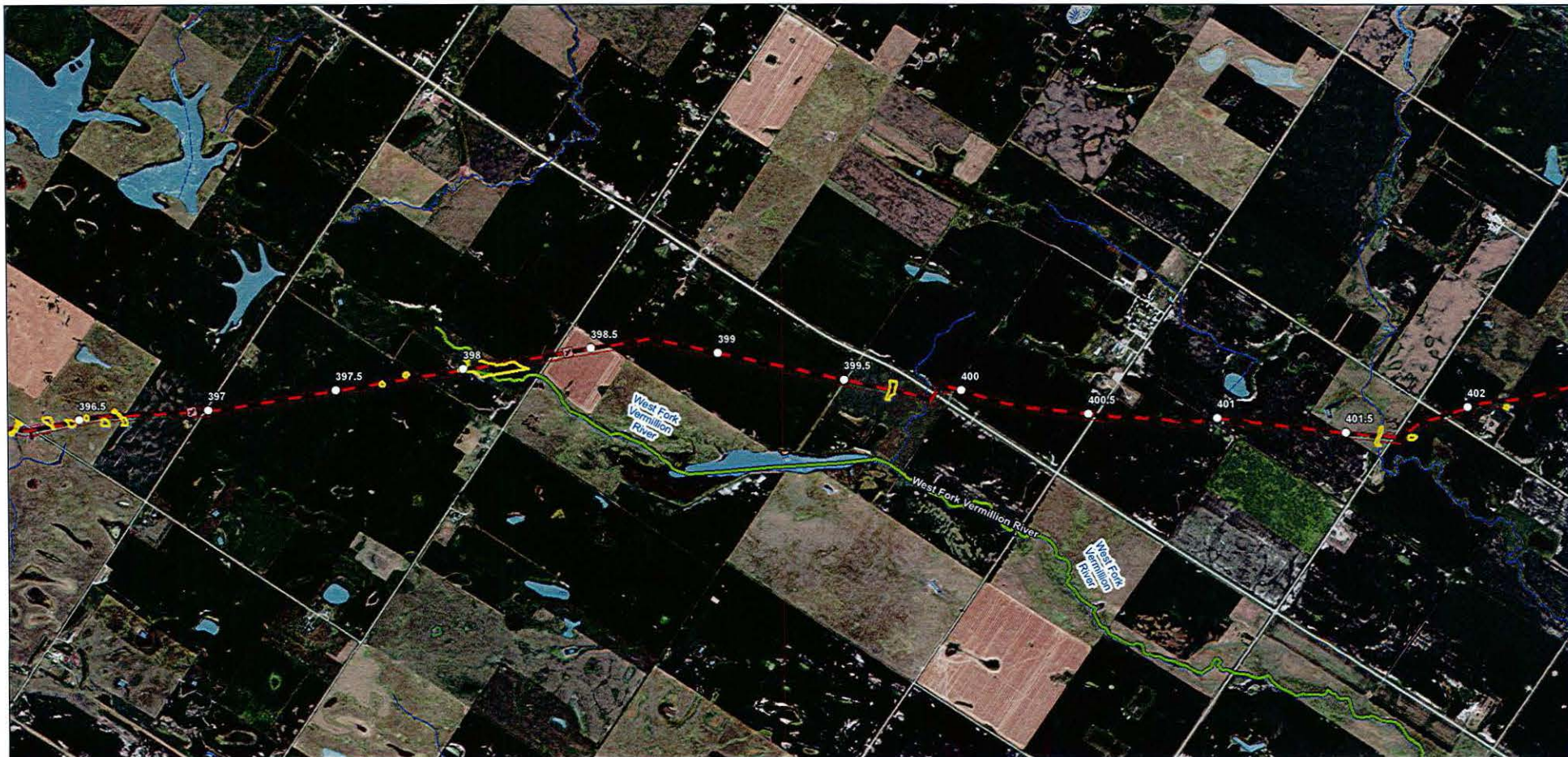
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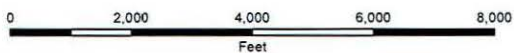
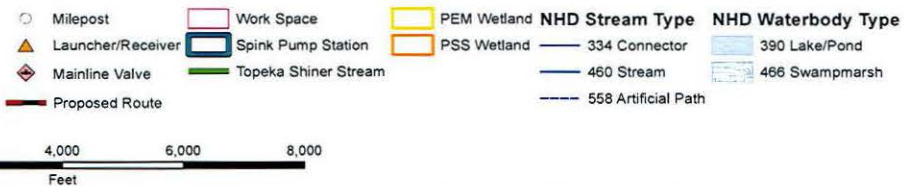
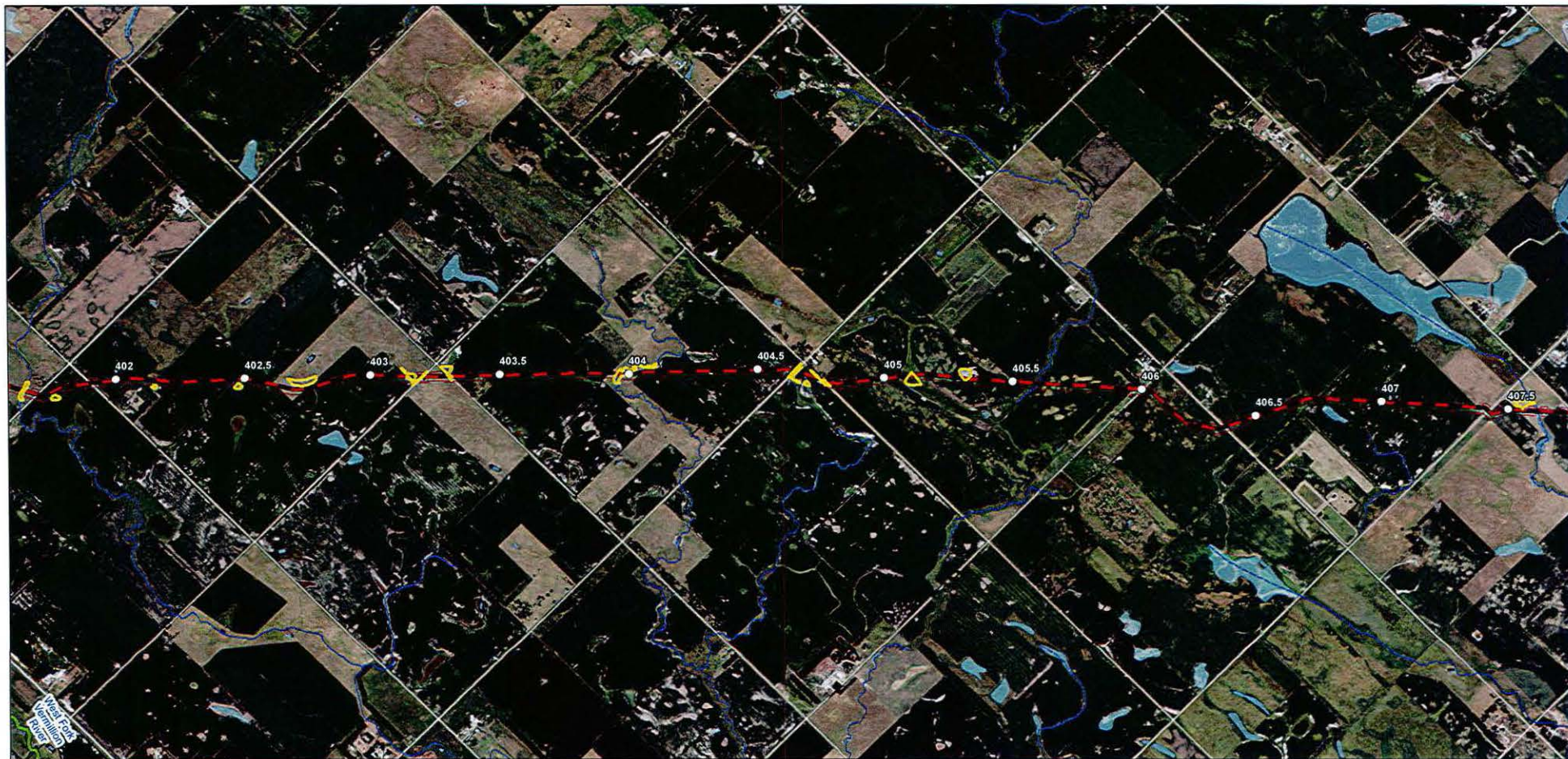


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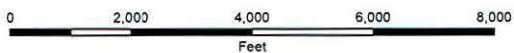
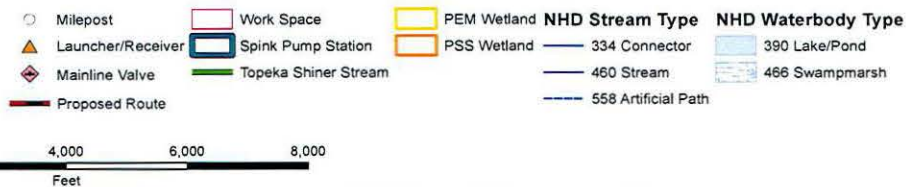
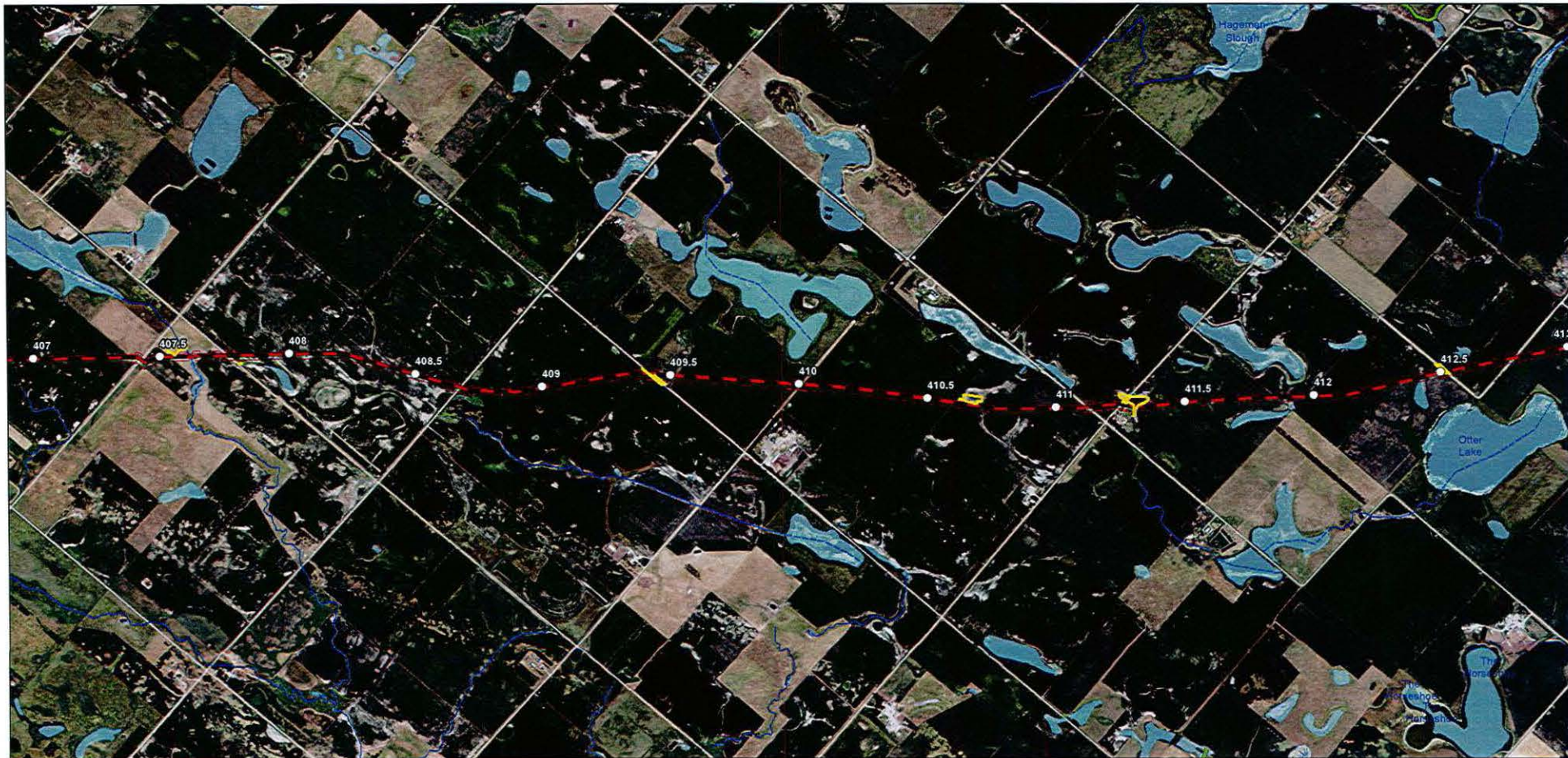
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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



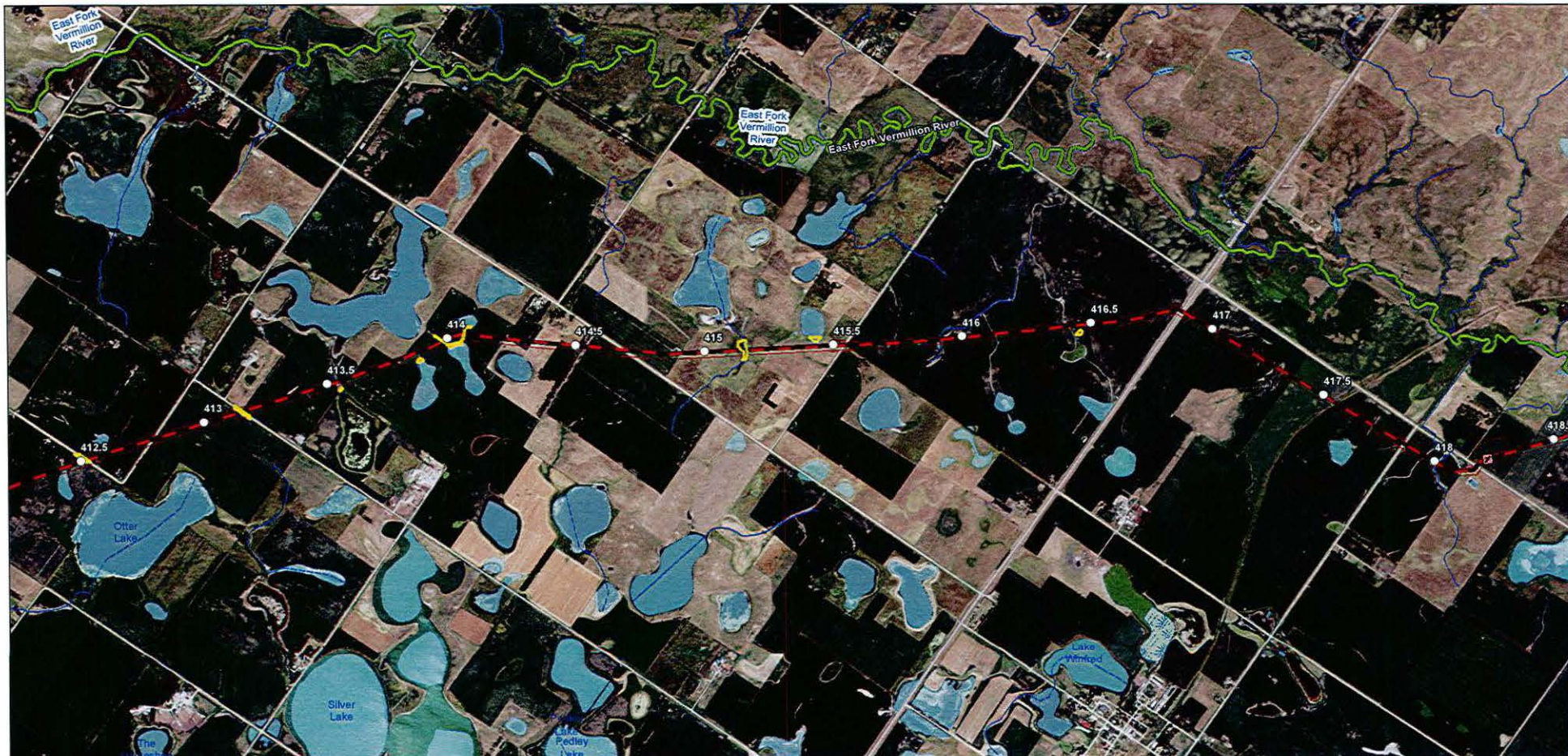
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NAD 83 South Dakota South R	Date: September 2015



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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



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NAD 83 South Dakota South Fl	Date: September 2015



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|---------------------|------------------------|---------------|------------------------|---------------------------|
| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
| ◆ Mainline Valve | — Topeka Shiner Stream | | — 460 Stream | □ 466 Swampmarsh |
| — Proposed Route | | | — 558 Artificial Path | |

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Feet



Dakota Access, LLC
Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota

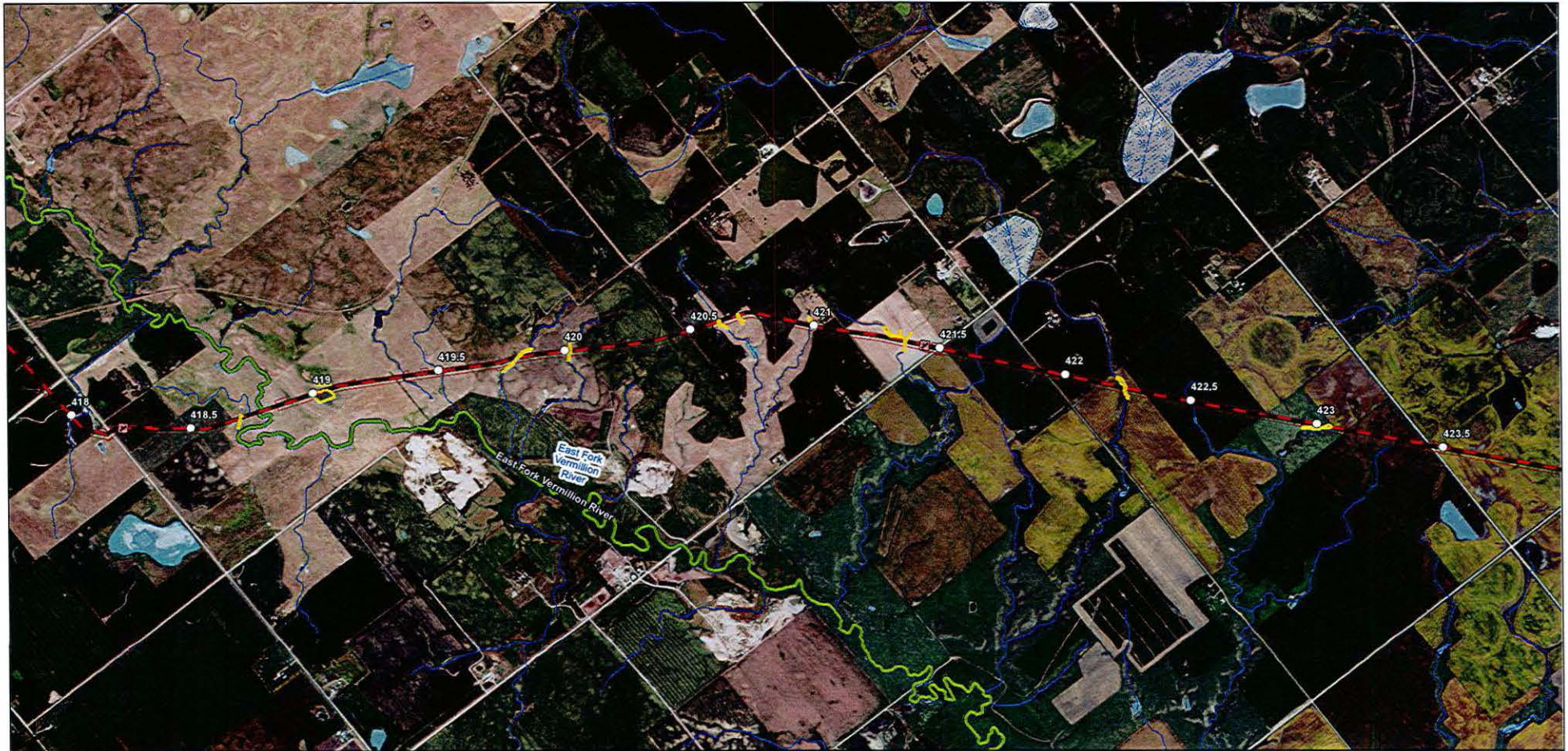


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NAD 83 South Dakota South Fl

Date: September 2015



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|---------------------|----------------------|-------------|------------------------|---------------------------|
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| ▲ Launcher/Receiver | Spink Pump Station | PSS Wetland | 334 Connector | 390 Lake/Pond |
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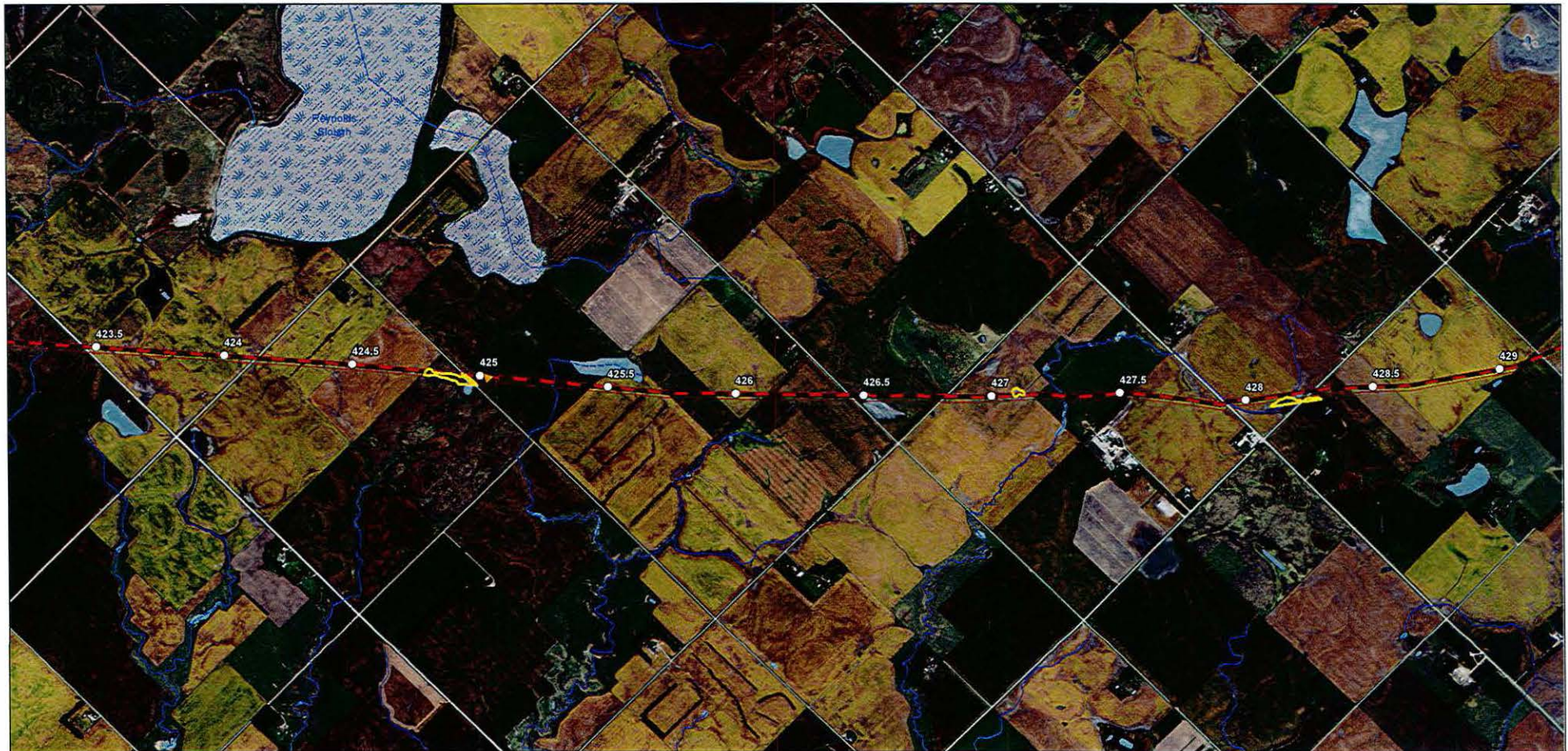
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Hydrology
Surface Water Map
South Dakota



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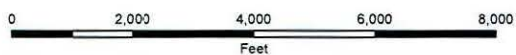
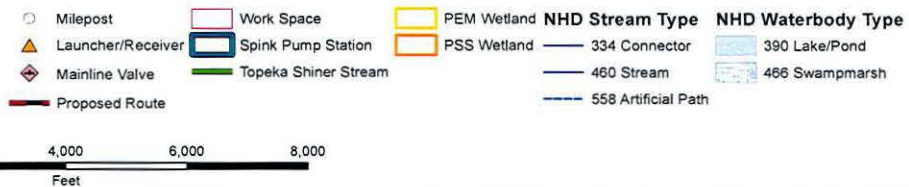
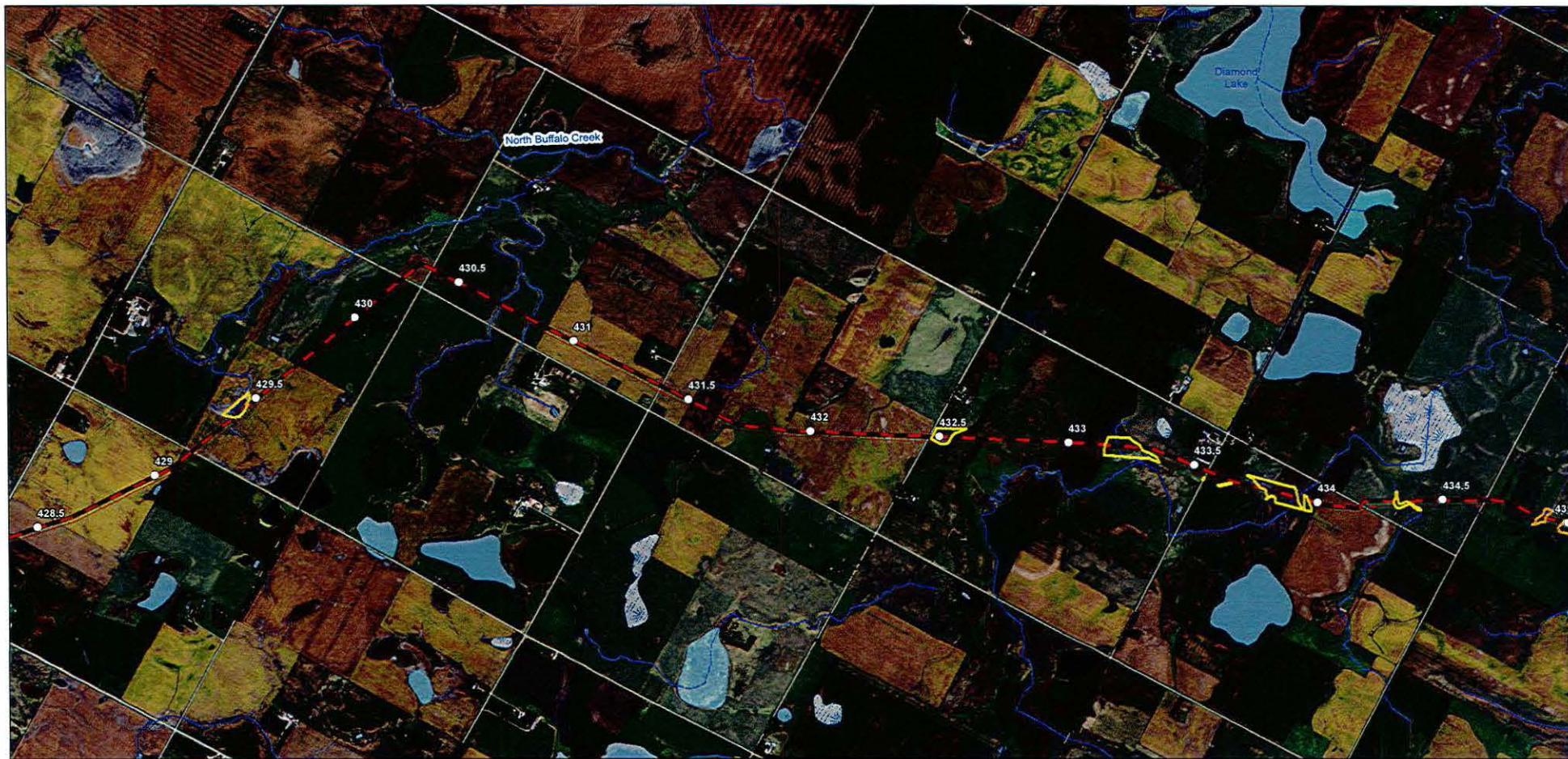
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| — Proposed Route | | | — 558 Artificial Path | |



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Hydrology
Surface Water Map
South Dakota



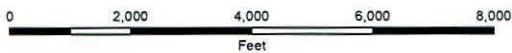
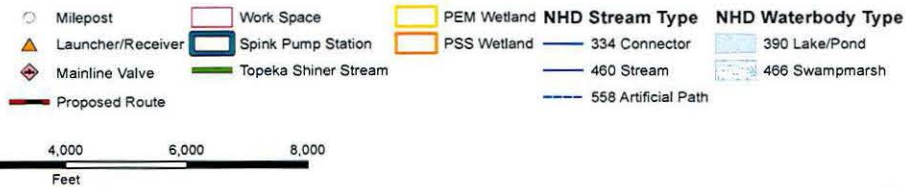
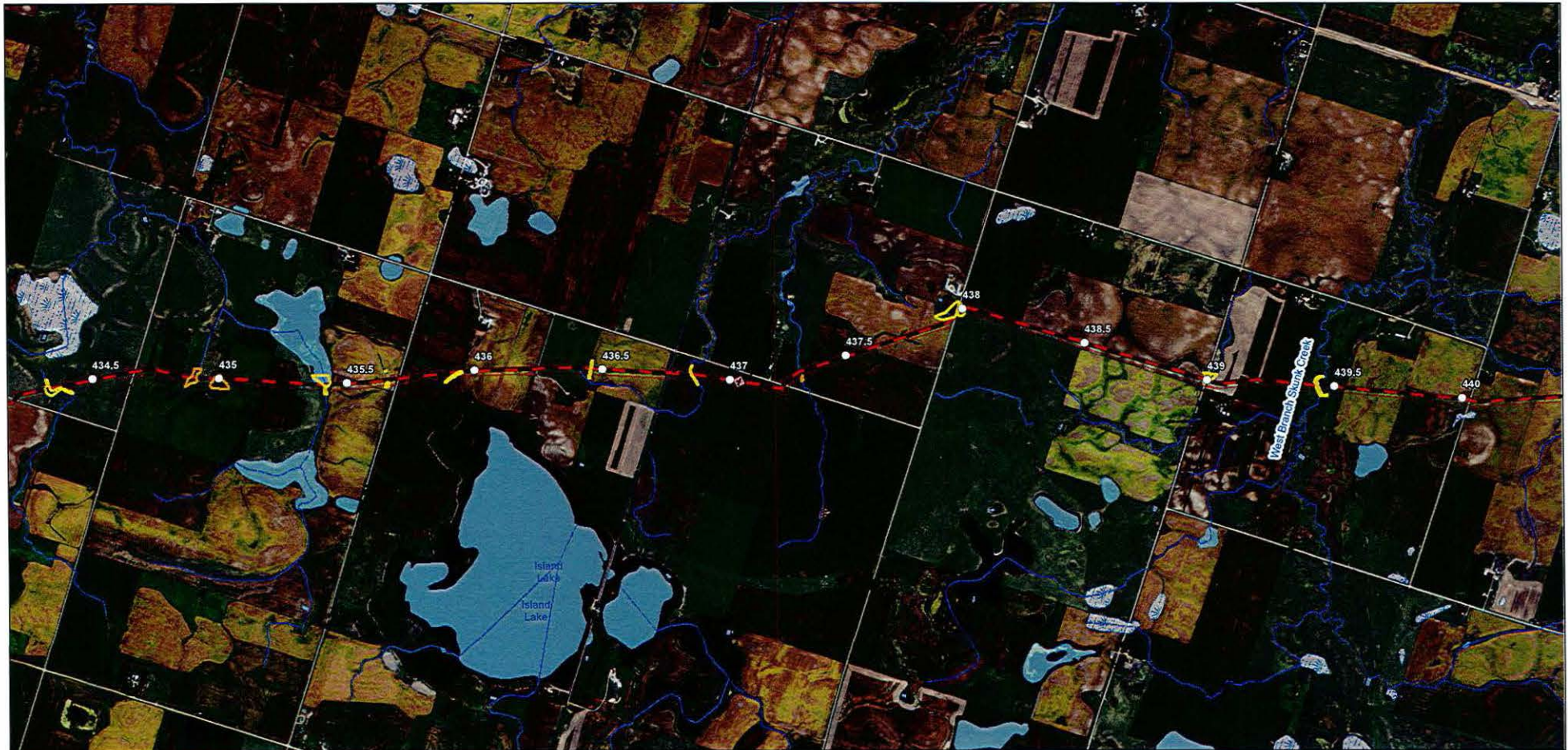
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Hydrology
Surface Water Map
South Dakota



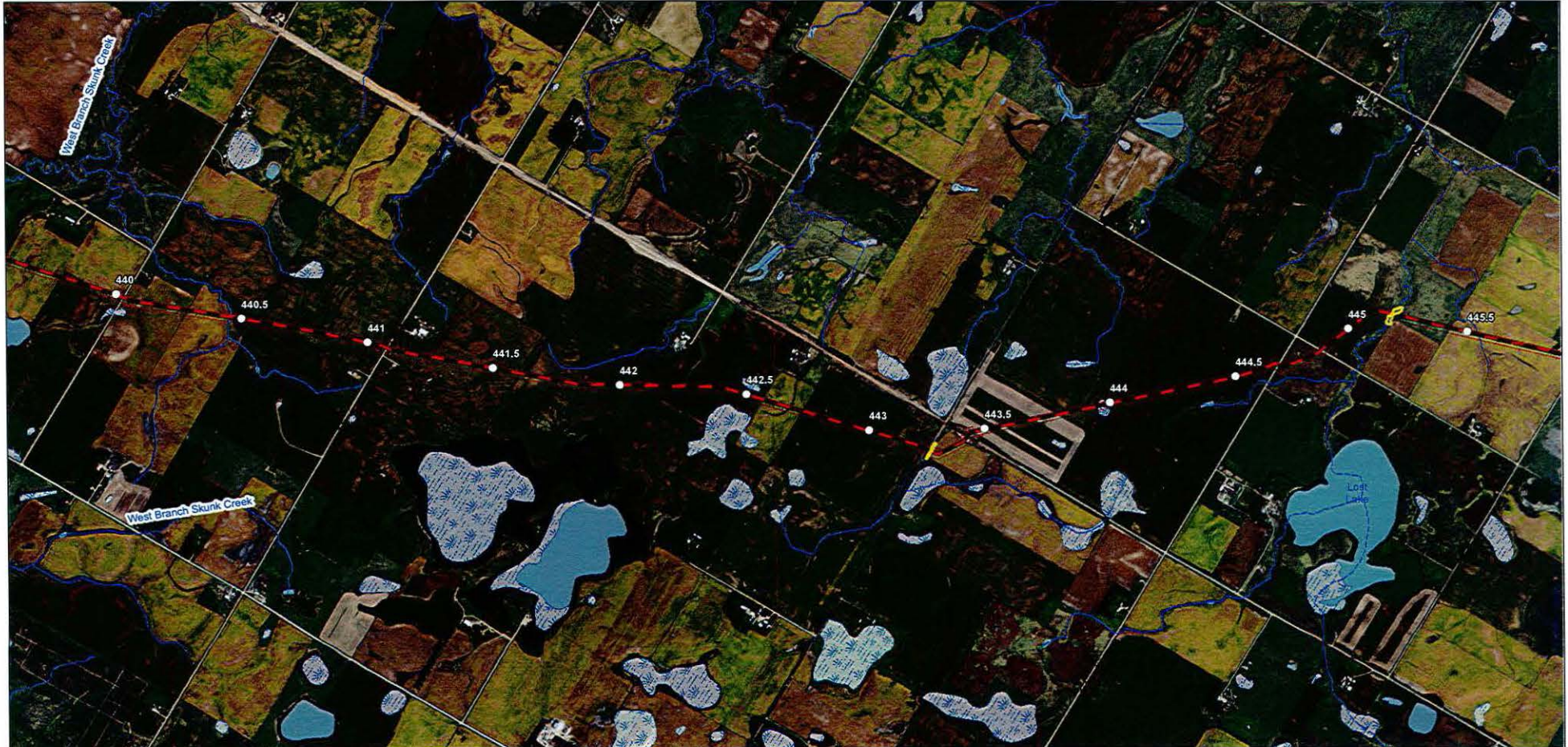
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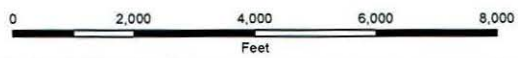
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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



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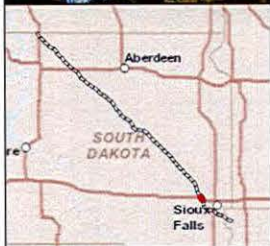
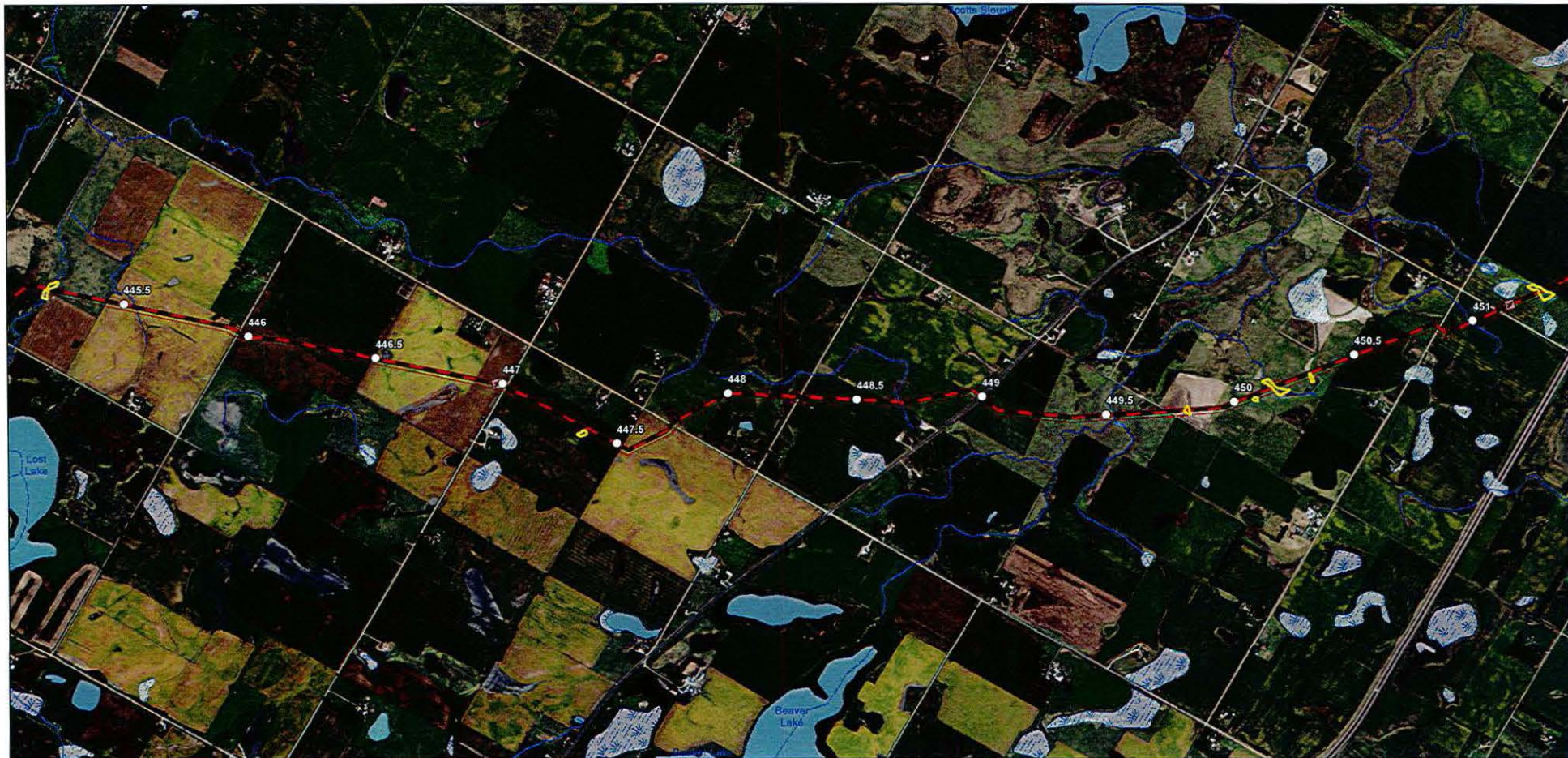
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| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
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| — Proposed Route | | | — 558 Artificial Path | |



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Hydrology
Surface Water Map
South Dakota



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| ▲ Launcher/Receiver | □ Spink Pump Station | □ PSS Wetland | — 334 Connector | □ 390 Lake/Pond |
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| — Proposed Route | | | — 558 Artificial Path | |

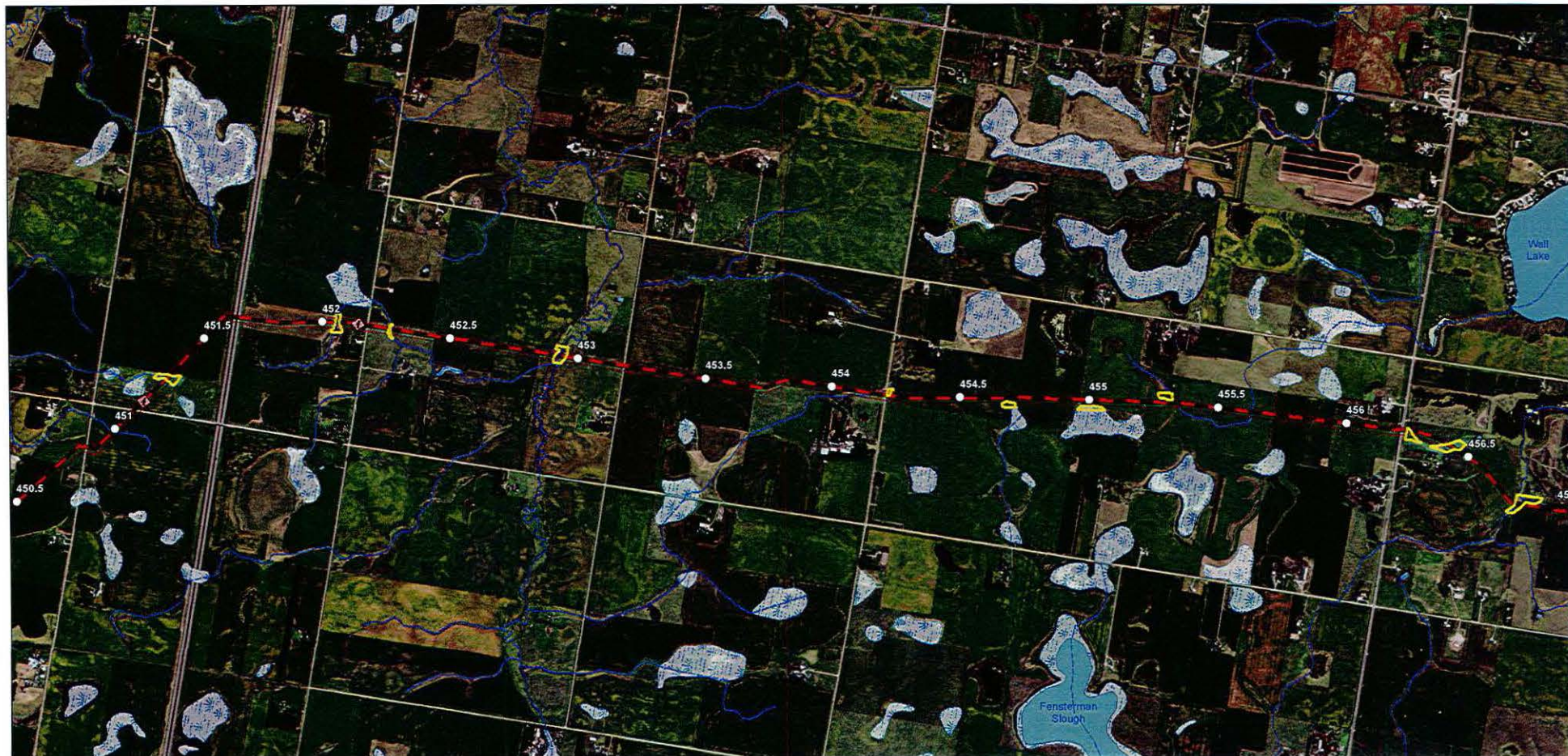
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Feet



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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



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| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
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| ◆ Mainline Valve | — Topeka Shiner Stream | | — 460 Stream | □ 466 Swampmarsh |
| — Proposed Route | | | — 558 Artificial Path | |

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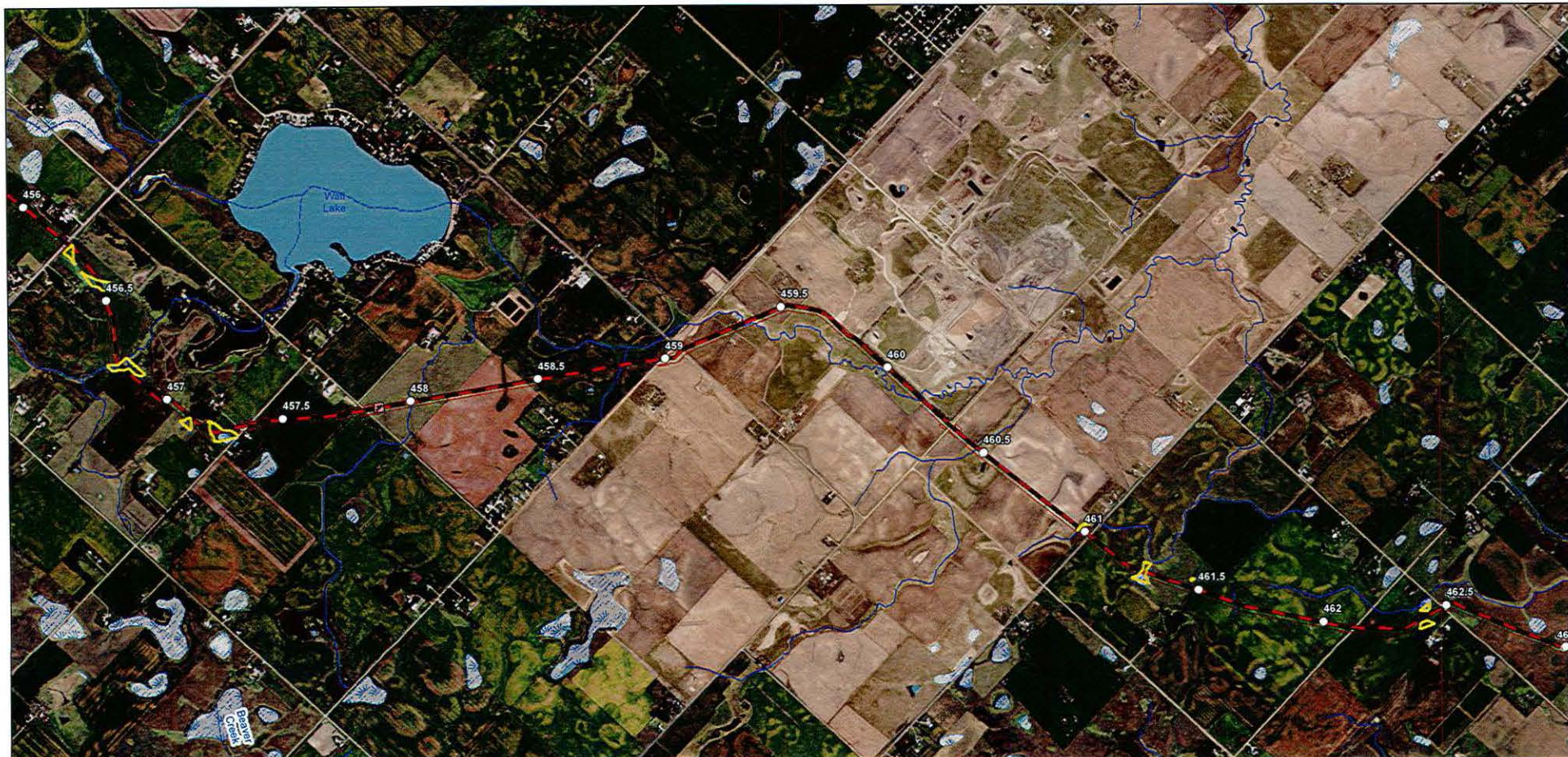


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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



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NAD 83 South Dakota South R Date: September 2015

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| — Proposed Route | | | — 558 Artificial Path | |

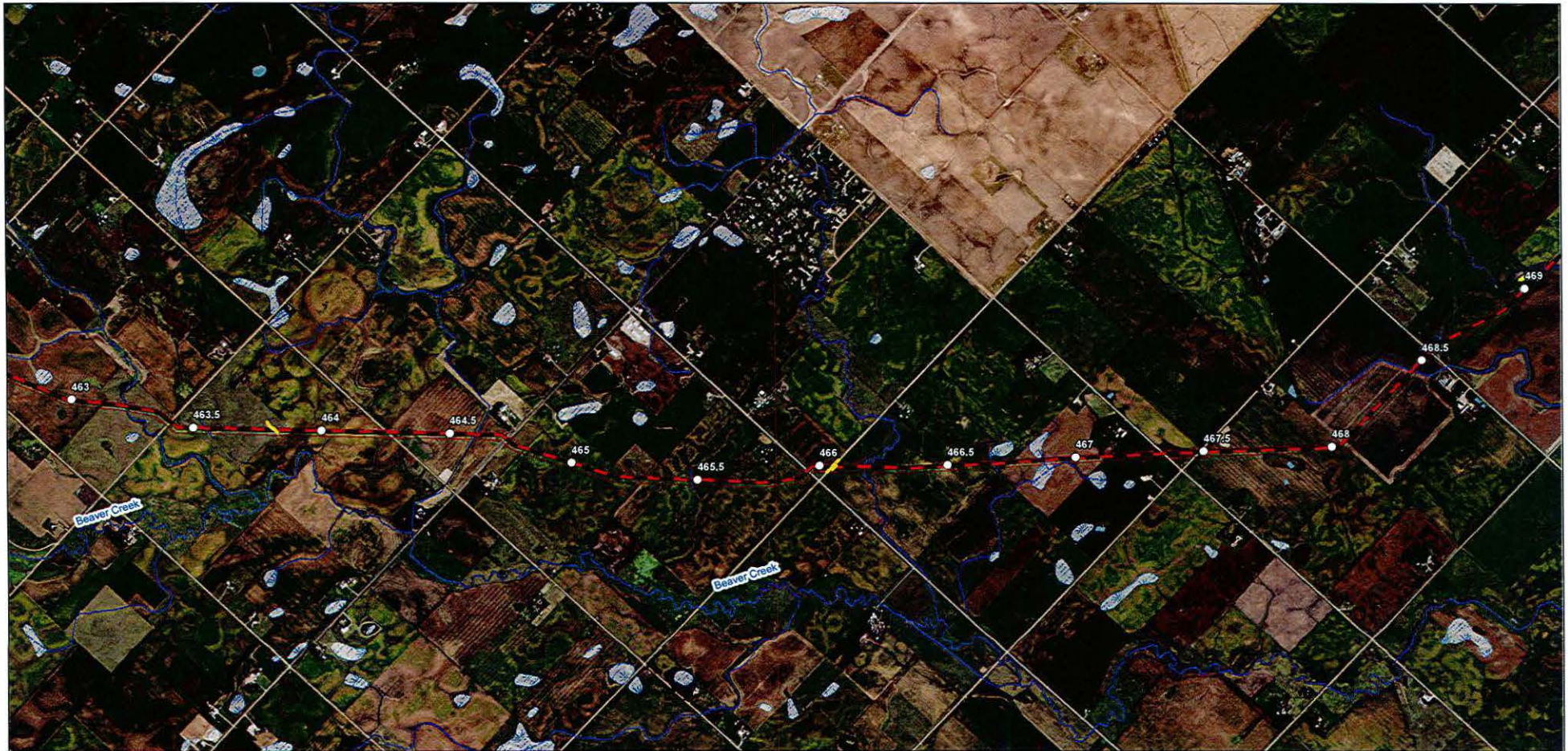
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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



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| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
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Feet



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Hydrology
Surface Water Map
South Dakota



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|---------------------|------------------------|---------------|------------------------|---------------------------|
| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
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| — Proposed Route | | | — 558 Artificial Path | |

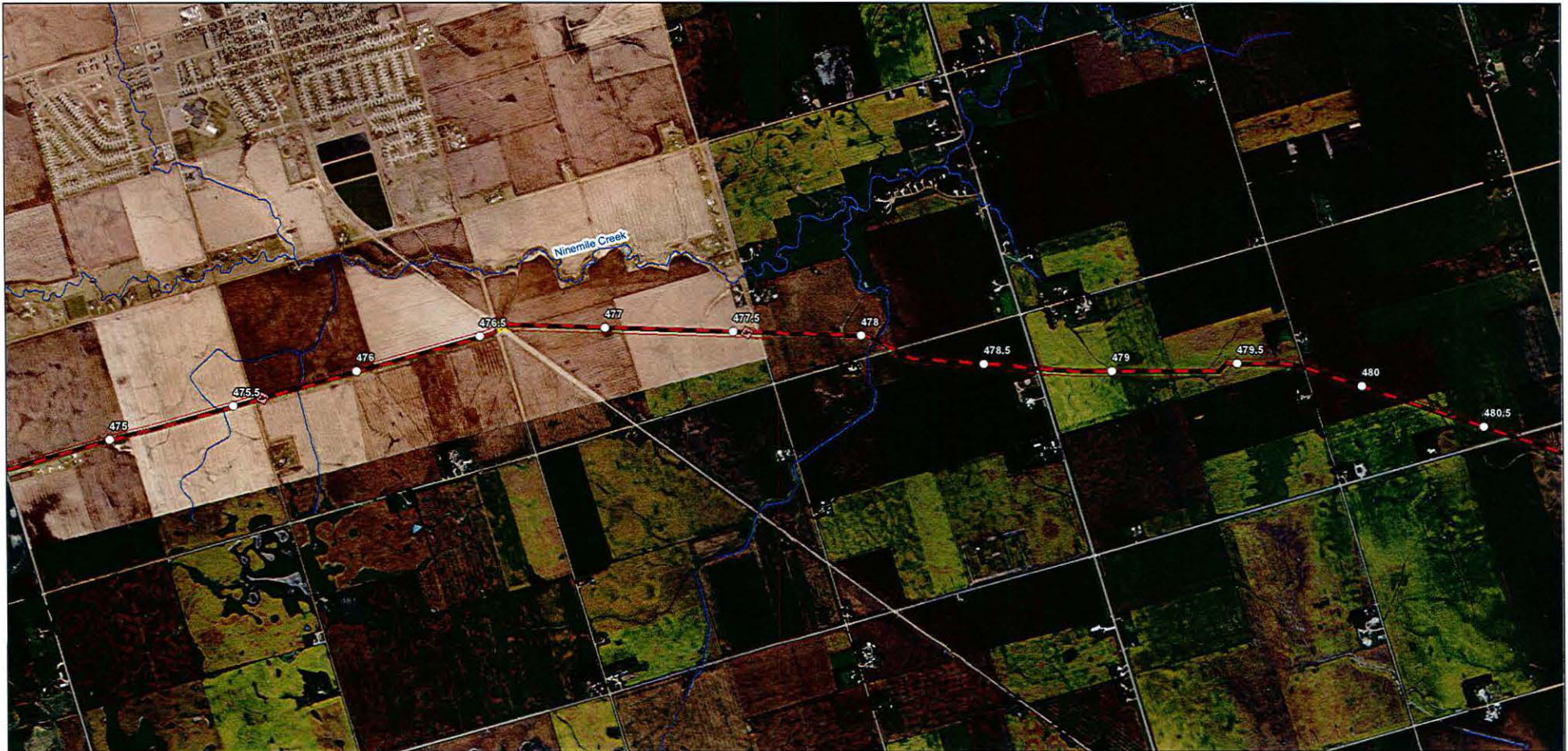
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Dakota Access Pipeline Project
Hydrology
Surface Water Map
South Dakota



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|---------------------|------------------------|---------------|------------------------|---------------------------|
| ○ Milepost | □ Work Space | □ PEM Wetland | NHD Stream Type | NHD Waterbody Type |
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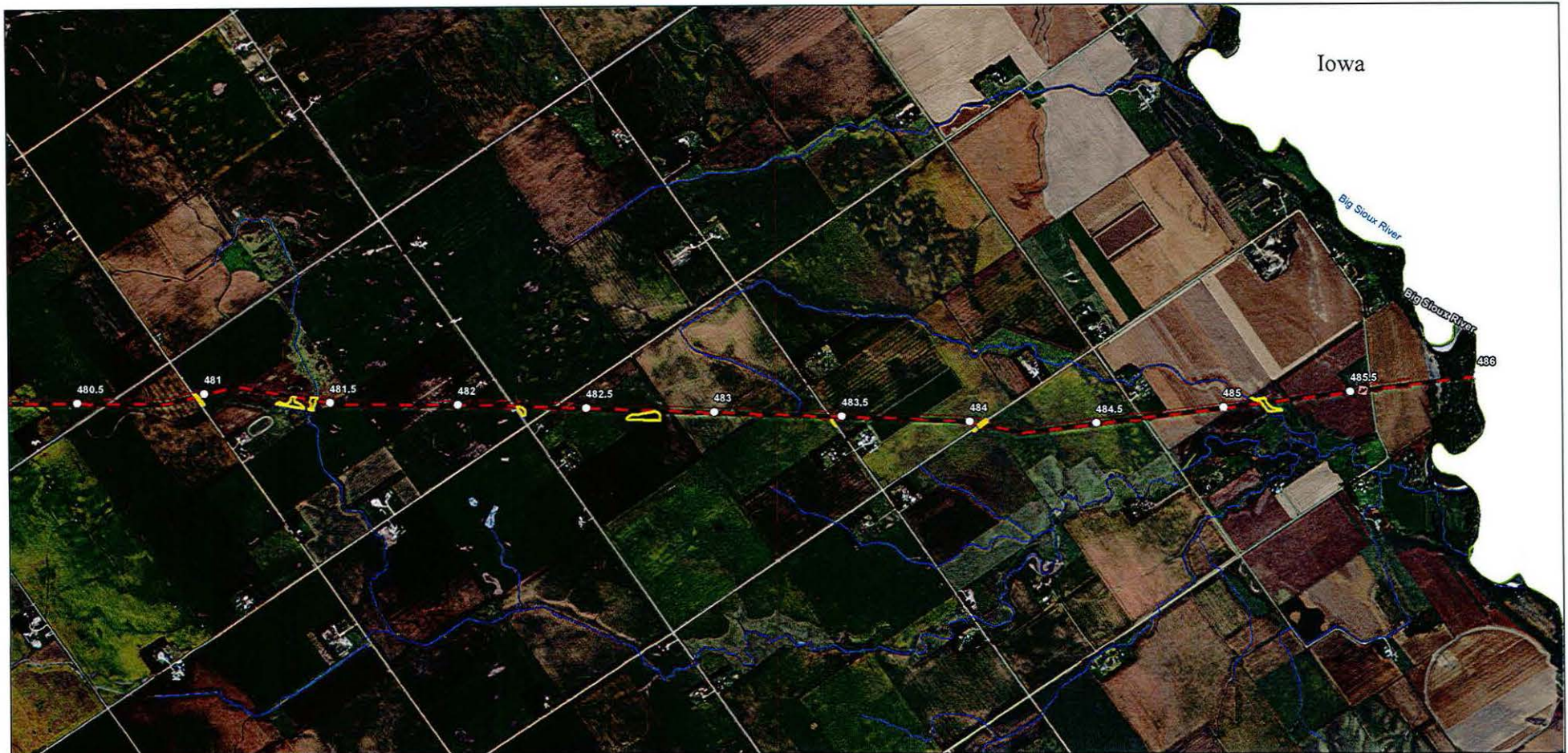
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Hydrology
Surface Water Map
South Dakota

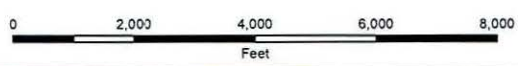


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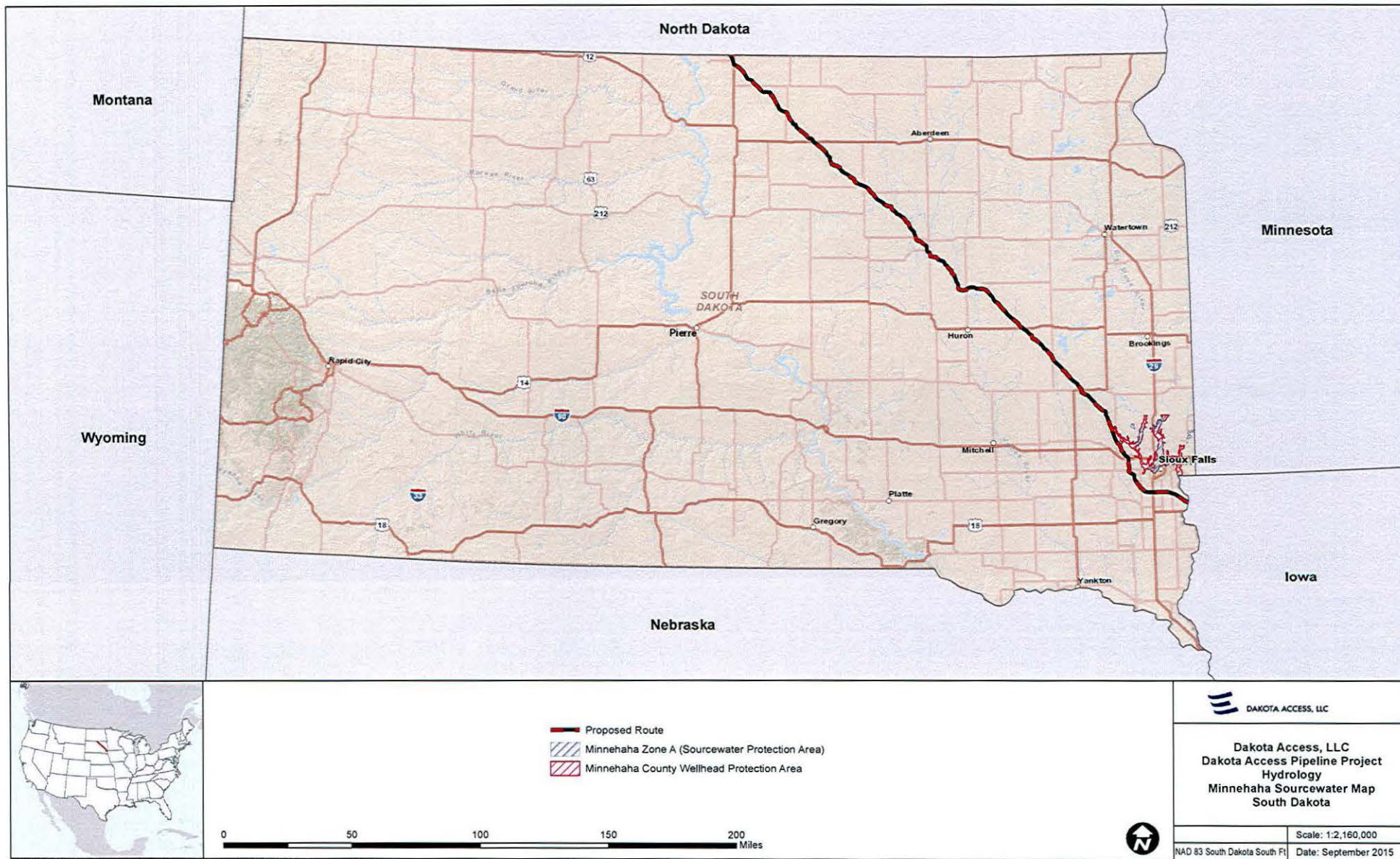
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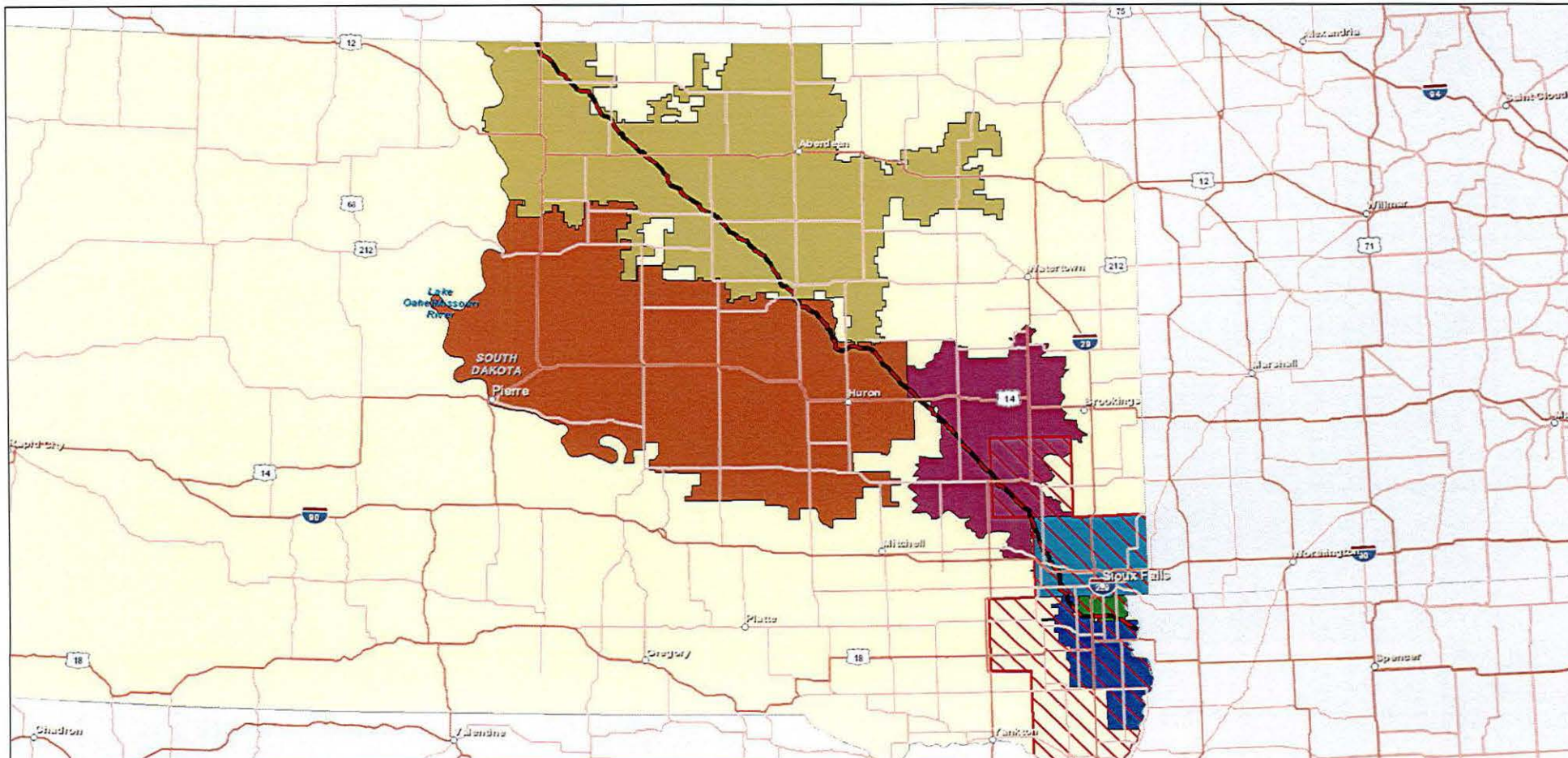


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Hydrology
Surface Water Map
South Dakota

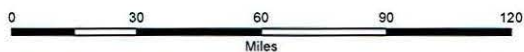


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- Proposed Route** **Rural Water District Boundary**
- Kingbrook
 - Lincoln
 - Mid Dakota
 - Minnehaha
 - South Lincoln
 - WEB
 - Lewis and Clark



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Hydrology
Rural Water Districts Map
South Dakota



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Exhibit A5



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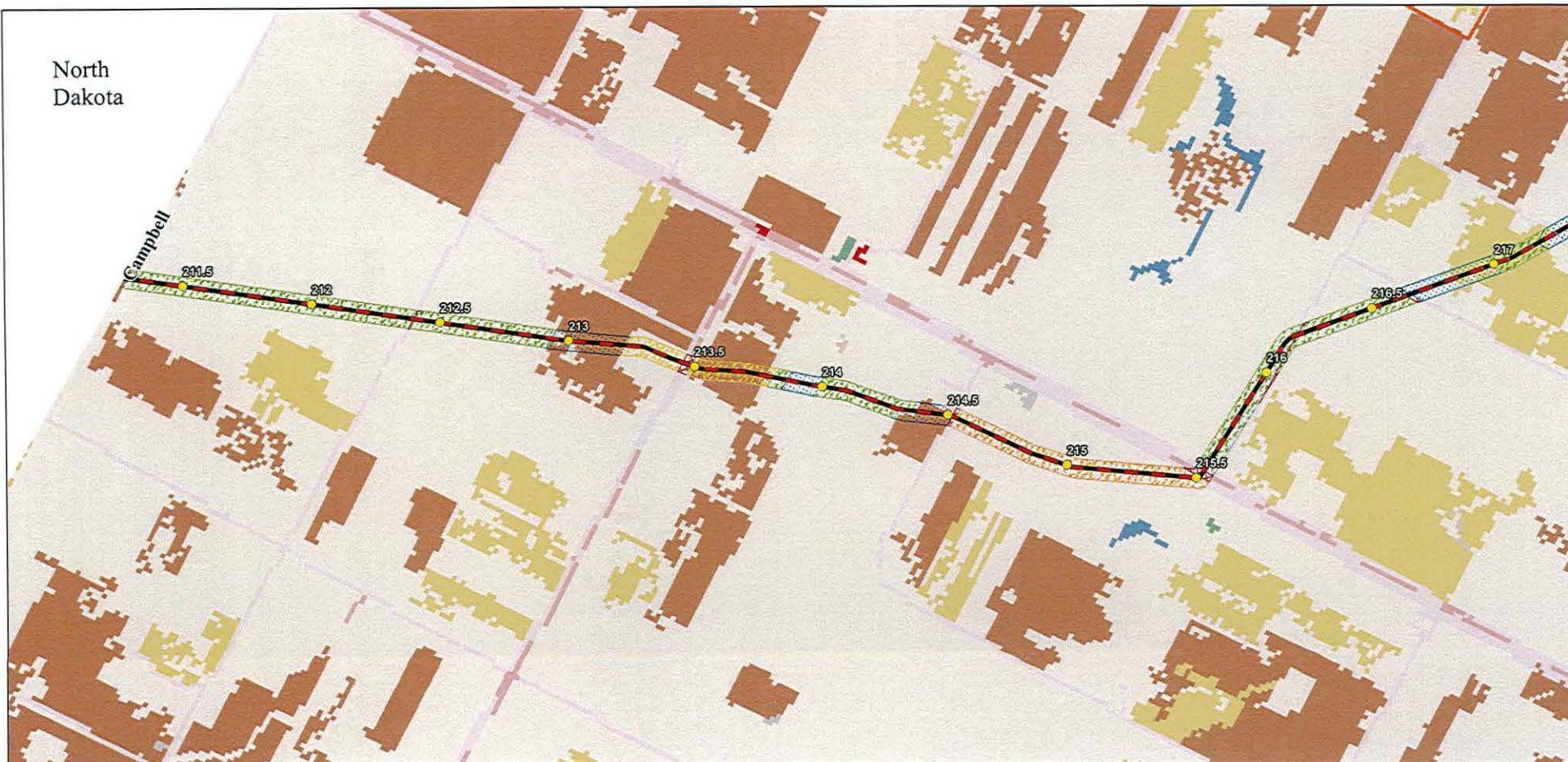
Exhibit A

Project Mapping

Exhibit A5

USGS Landcover/Land Use Field Data Maps

North
Dakota



- Milepost
- Proposed Route
- USGS NLCD Type**
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

- Land Use Field Data Type**
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands

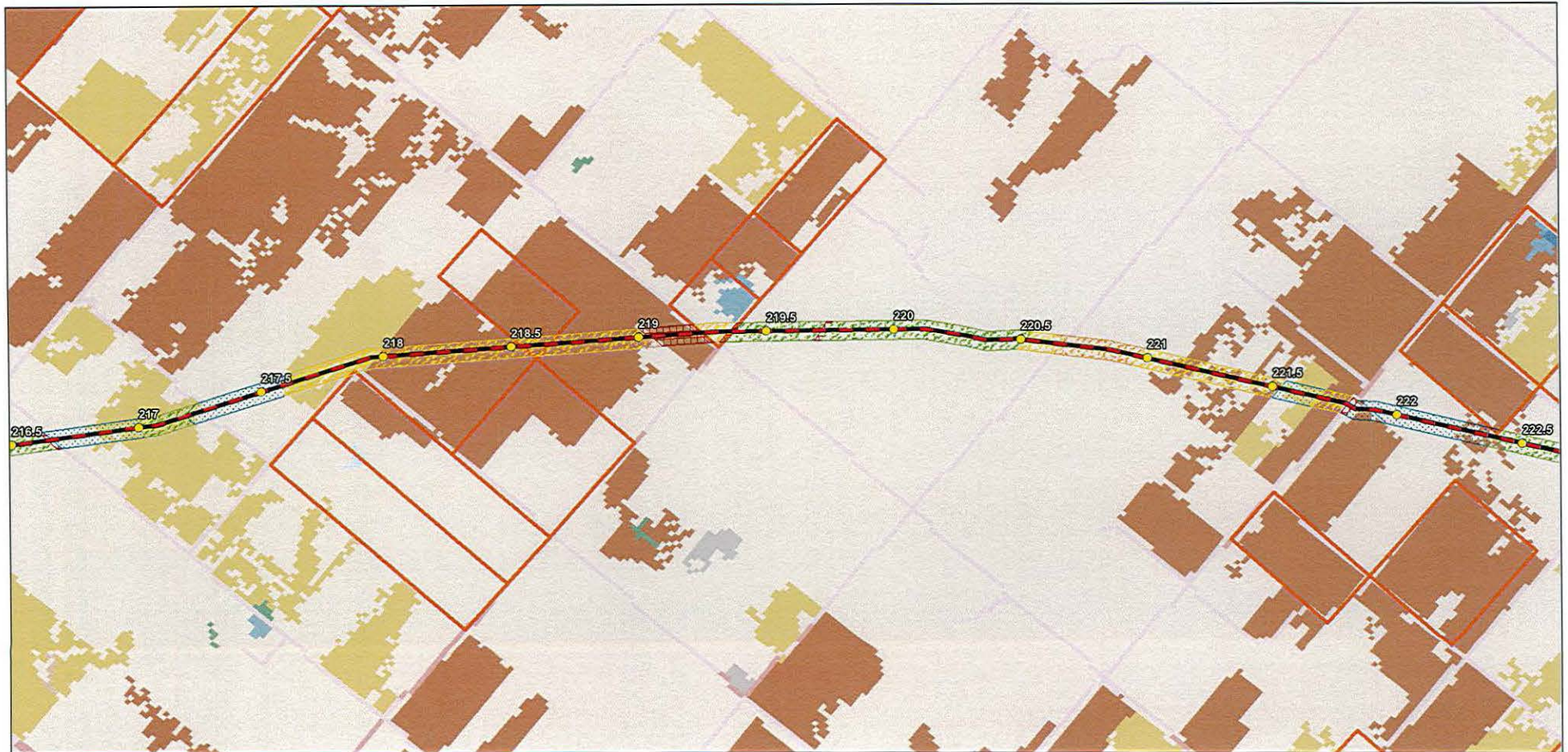
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

- USFWS Fee Owned Land**
- Waterfowl Protection Area
- USFWS Easements**
- Grassland
- Grassland/Wetland
- Wetland



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

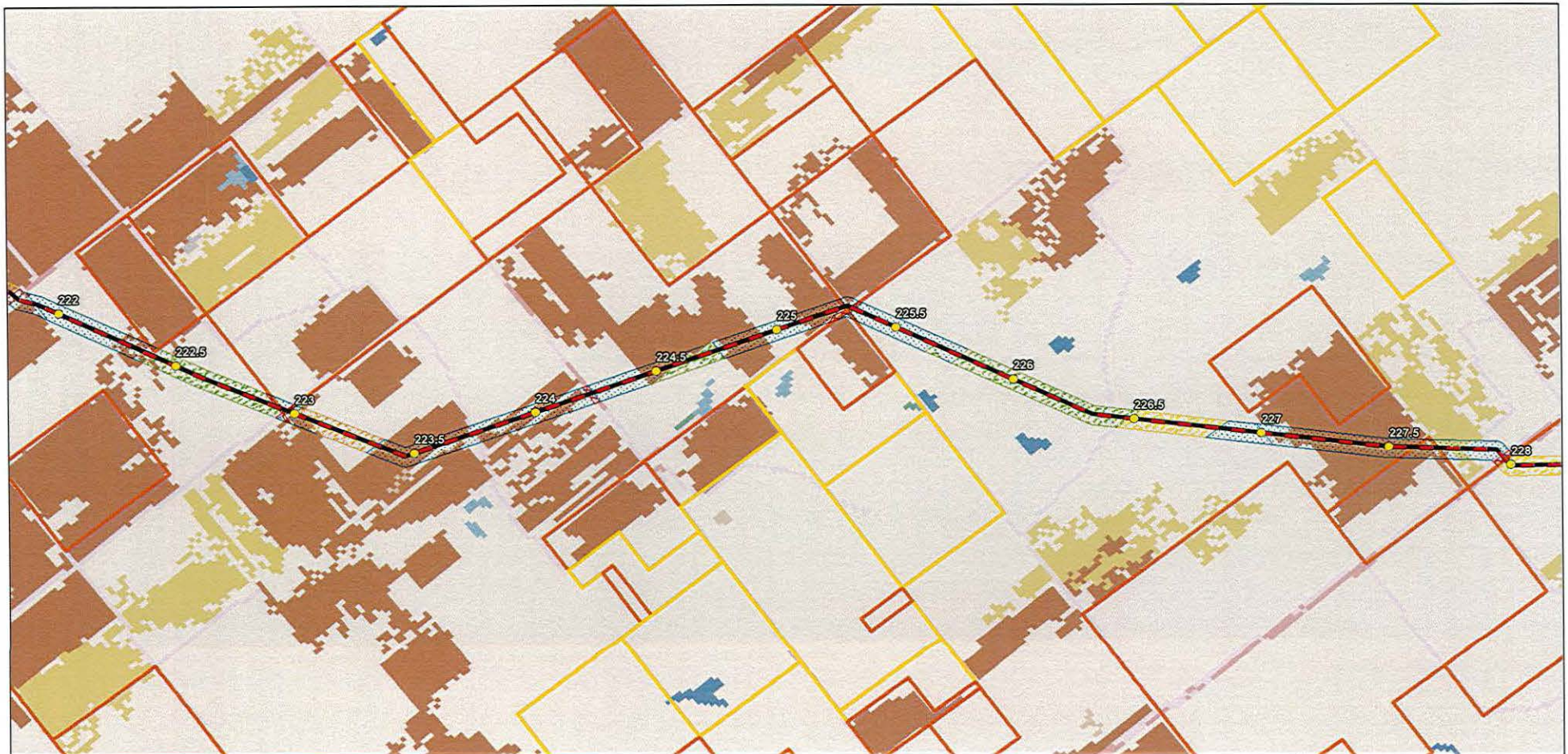




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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



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- Milepost
 — Proposed Route
USGS NLCD Type
 ■ Open Water
 ■ Developed, Open Space
 ■ Developed, Low intensity

- Developed, Medium Intensity
 ■ Developed, High Intensity
 ■ Barren Land
 ■ Deciduous Forest
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- Shrub/Scrub
 ■ Grassland/Herbaceous
 ■ Pasture/Hay
 ■ Cultivated Crops
 ■ Woody Wetlands
 ■ Emergent Herbaceous Wetlands

- Land Use Field Data Type**
 ■ Haylands
 ■ Residential
 ■ Irrigated lands
 ■ Other major industries
 ■ Pasturelands and rangelands

- Undisturbed native grassland
 ■ Land use primarily for row and no-row crops in rotation
 ■ Public, commercial, and institutional use
 ■ Rural residences and farmsteads, family farms, and ranches
 ■ Municipal water supply and water sources for organized rural water systems

- USFWS Fee Owned Land**
 ■ Waterfowl Protection Area
USFWS Easements
 ■ Grassland
 ■ Grassland/Wetland
 ■ Wetland

0 2,000 4,000 6,000 8,000 Feet



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 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

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NAD 83 South Dakota South Ft

Date: September 2015

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Milepost
 Proposed Route
 USGS NLCD Type
 Open Water
 Developed, Open Space
 Developed, Low intensity

Developed, Medium Intensity
 Developed, High Intensity
 Barren Land
 Deciduous Forest
 Evergreen Forest
 Mixed Forest

Shrub/Scrub
 Grassland/Herbaceous
 Pasture/Hay
 Cultivated Crops
 Woody Wetlands
 Emergent Herbaceous Wetlands

Land Use Field Data Type
 Haylands
 Residential
 Irrigated lands
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 Pasturelands and rangelands

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USFWS Fee Owned Land
 Waterfowl Protection Area
USFWS Easements
 Grassland
 Grassland/Wetland
 Wetland

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 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

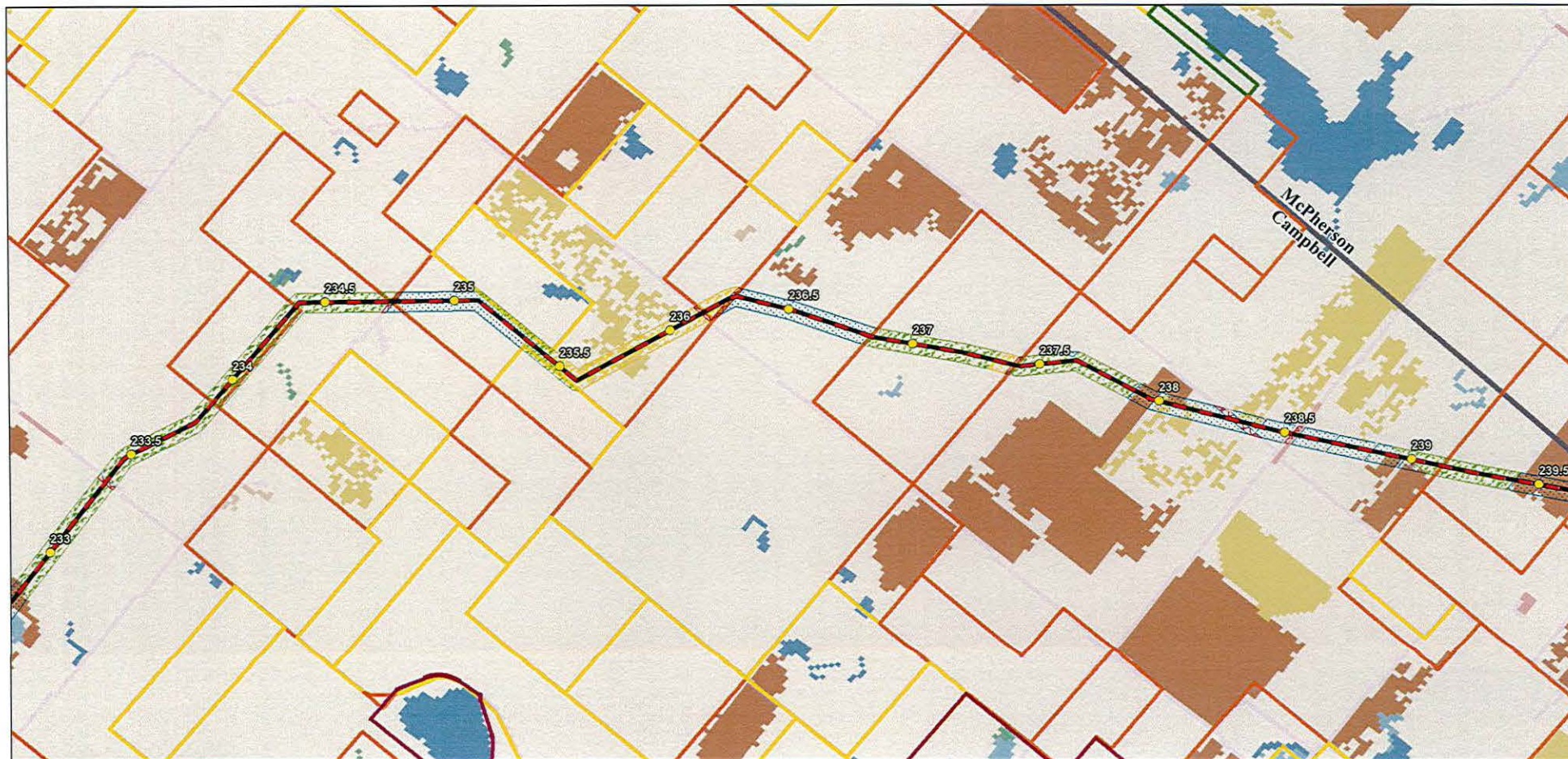
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- Milepost
- Proposed Route
- USGS NLCD Type
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- Developed, Low intensity

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- Developed, High Intensity
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- Grassland
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- Wetland

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USGS Landcover/Land Use Field Data
South Dakota

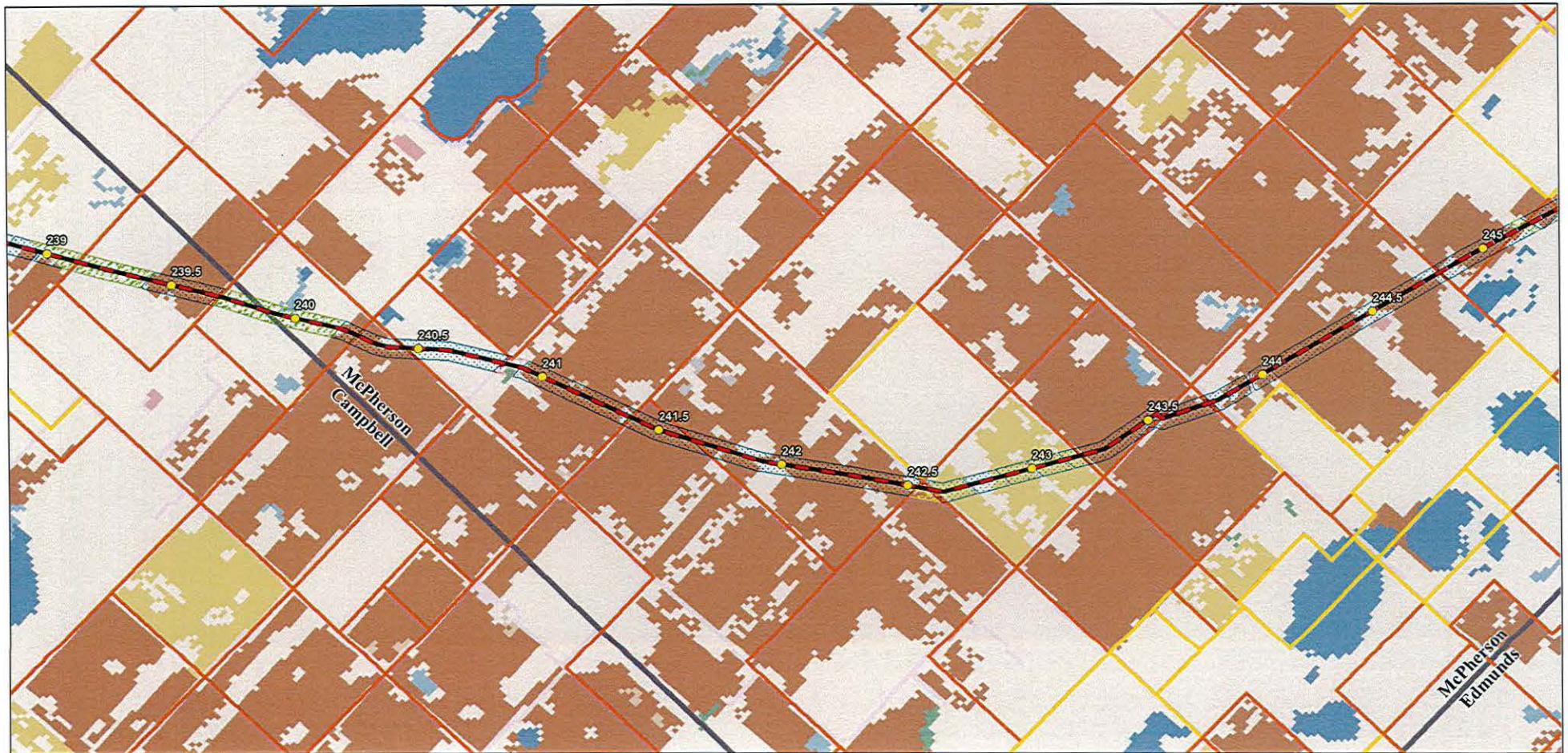
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Date: September 2015

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- Milepost
- Proposed Route
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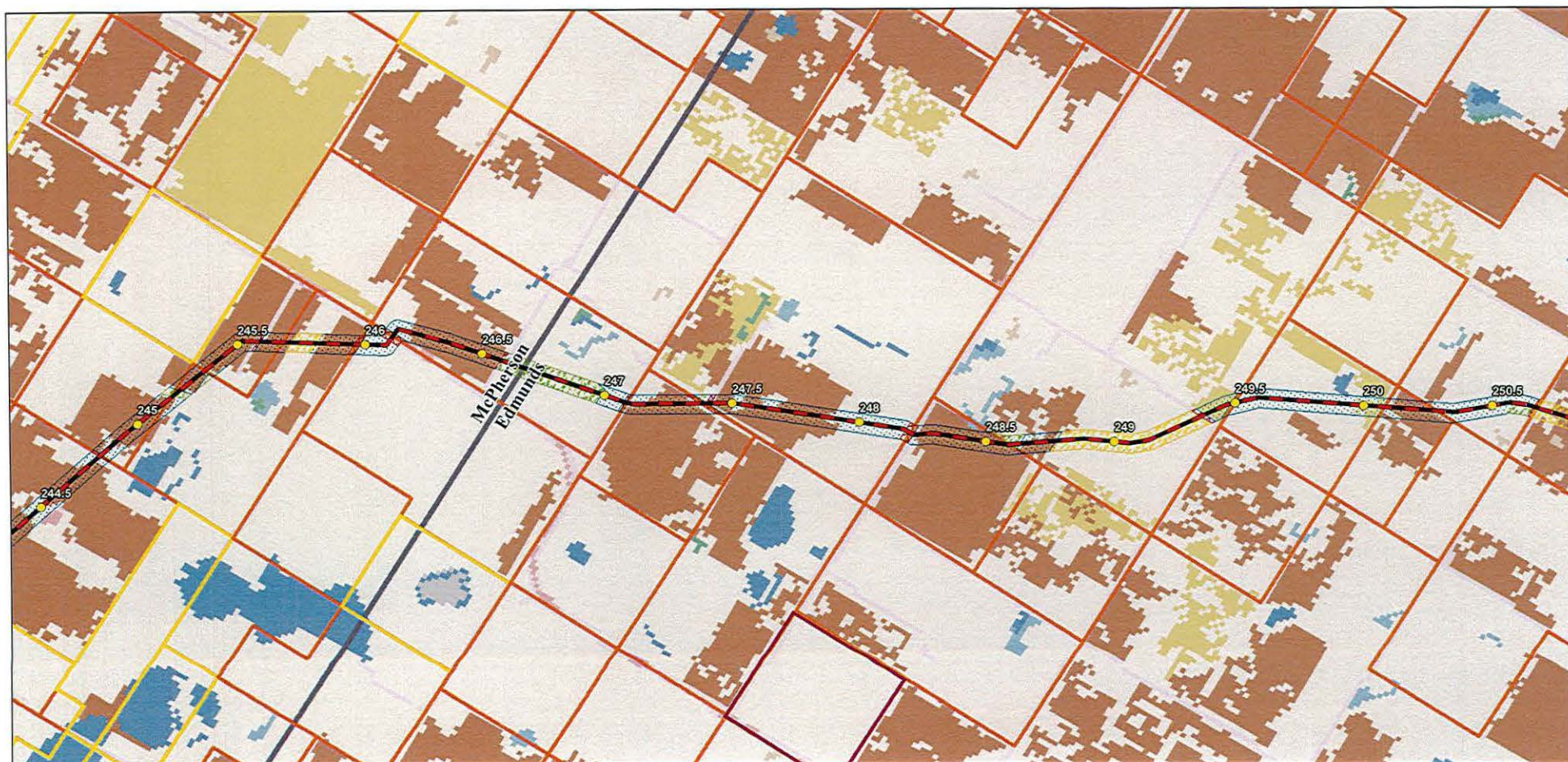
- USFWS Fee Owned Land
 - Waterfowl Protection Area
- USFWS Easements
 - Grassland
 - Grassland/Wetland
 - Wetland



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USGS Landcover/Land Use Field Data
South Dakota

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● Milepost
 — Proposed Route
USGS NLCD Type
 ■ Open Water
 ■ Developed, Open Space
 ■ Developed, Low Intensity

■ Developed, Medium Intensity
 ■ Developed, High Intensity
 ■ Barren Land
 ■ Deciduous Forest
 ■ Evergreen Forest
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Land Use Field Data Type
 ■ Haylands
 ■ Residential
 ■ Irrigated lands
 ■ Other major industries
 ■ Pasturelands and rangelands

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USFWS Fee Owned Land
 ■ Waterfowl Protection Area
USFWS Easements
 ■ Grassland
 ■ Grassland/Wetland
 ■ Wetland

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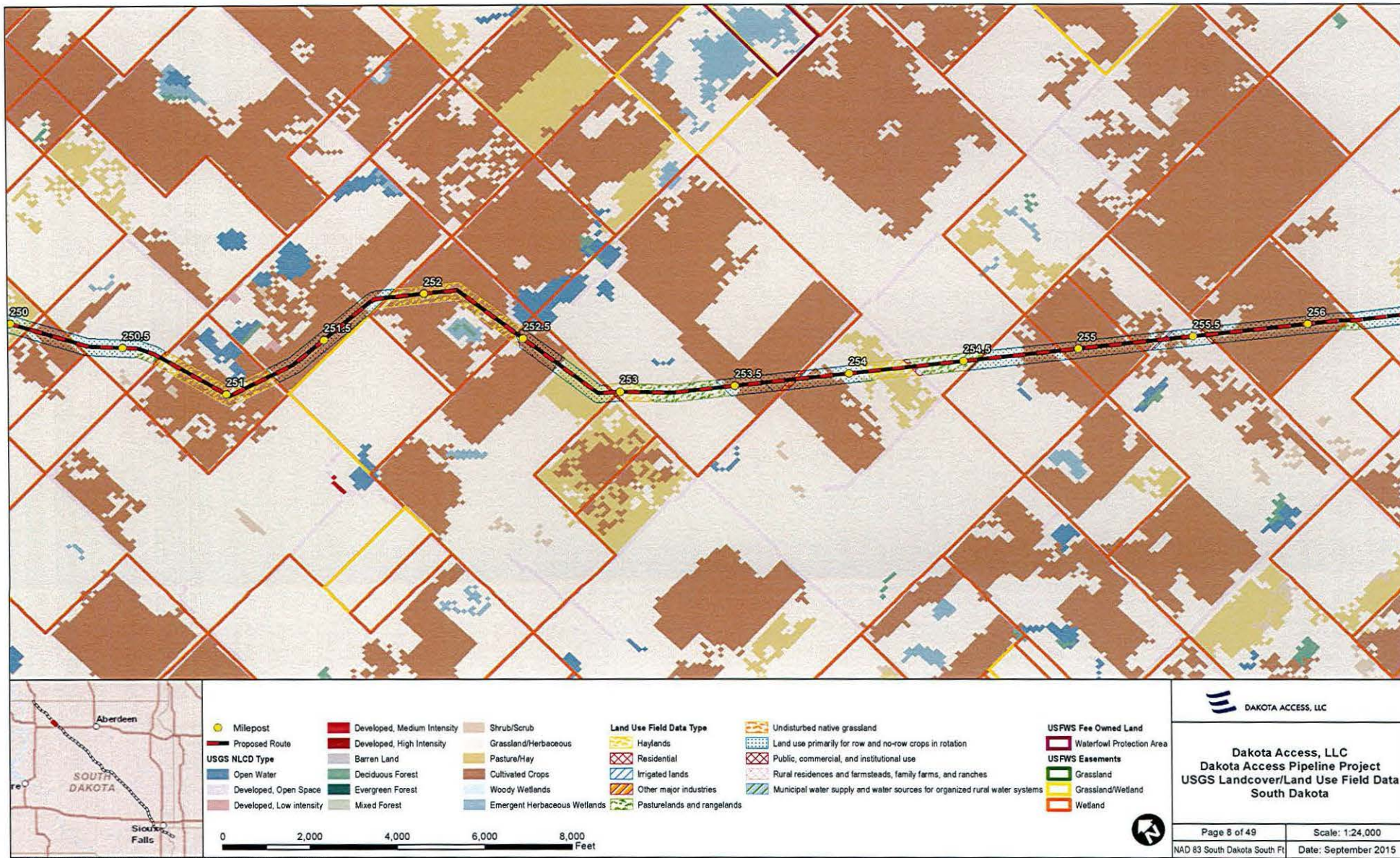


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 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

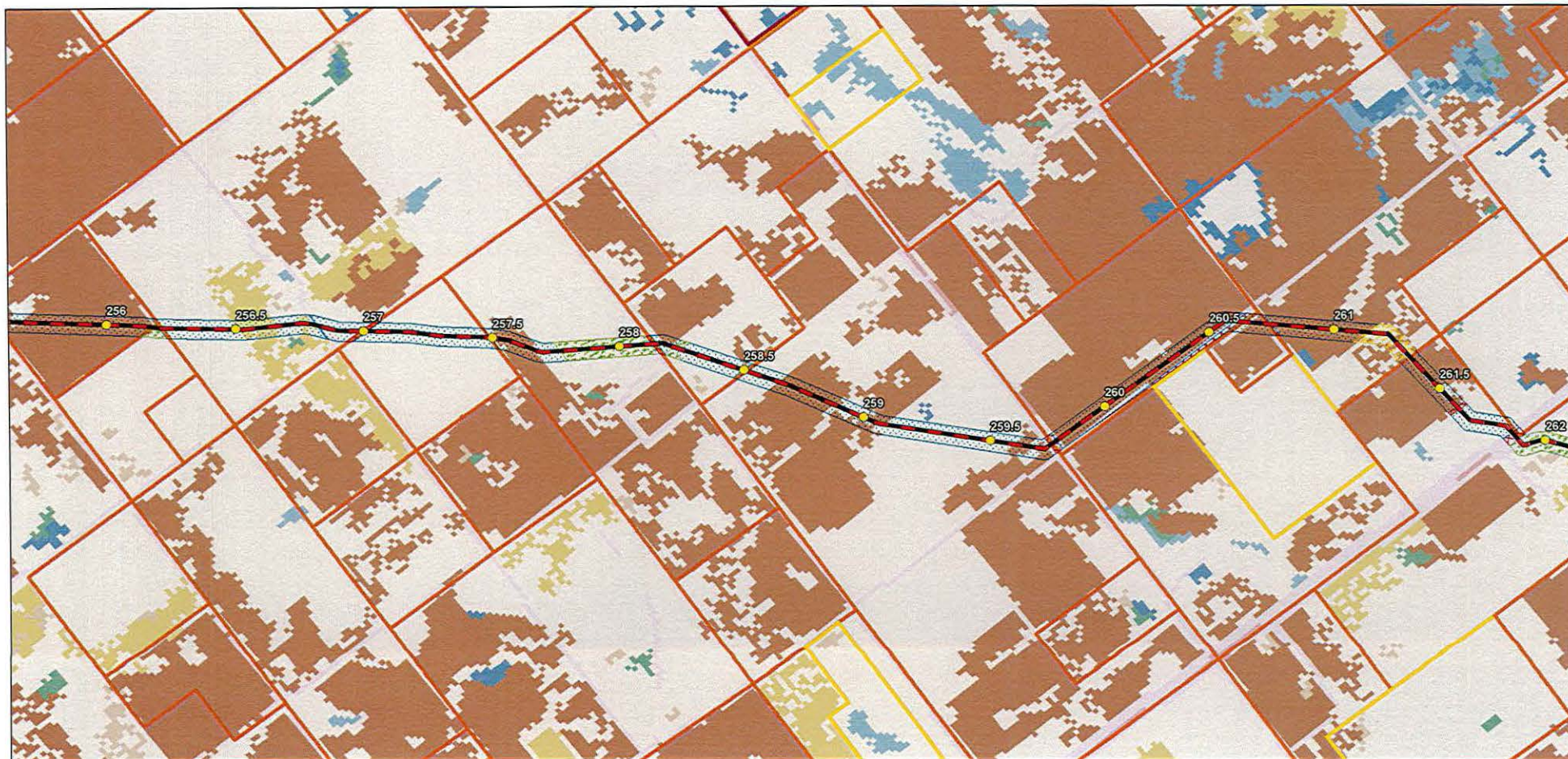


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- Milepost
- Proposed Route
- USGS NLCD Type**
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- Developed, Low intensity

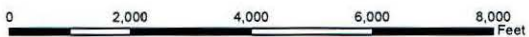
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- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

- Land Use Field Data Type**
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands

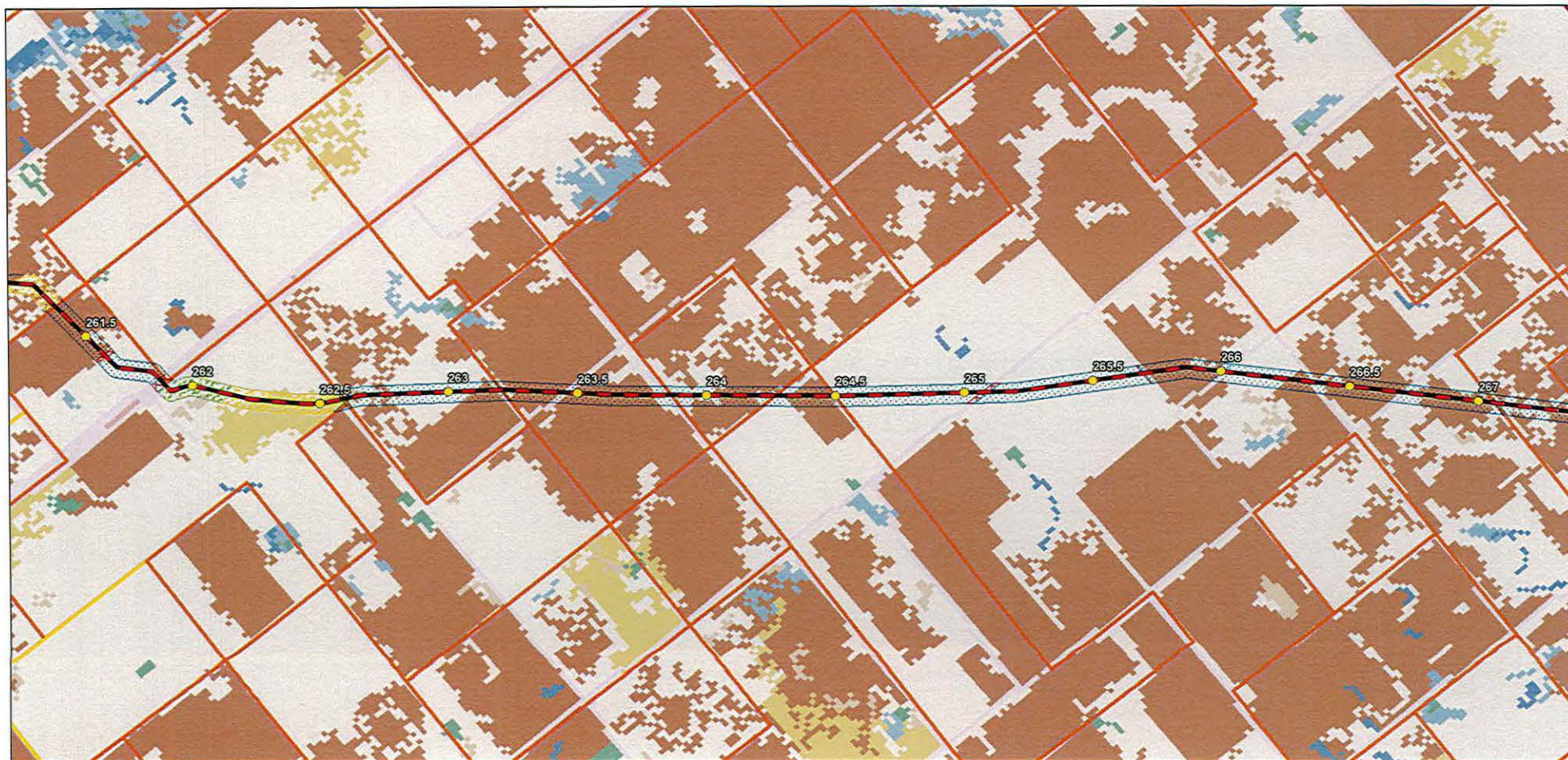
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

- USFWS Fee Owned Land**
- Waterfowl Protection Area
- USFWS Easements**
- Grassland
- Grassland/Wetland
- Wetland



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Legend**
- Milepost
 - Proposed Route
 - USGS NLCD Type**
 - Open Water
 - Developed, Open Space
 - Developed, Low intensity

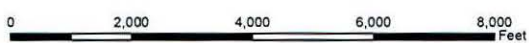
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
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- USFWS Easements**
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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
- Proposed Route
- USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

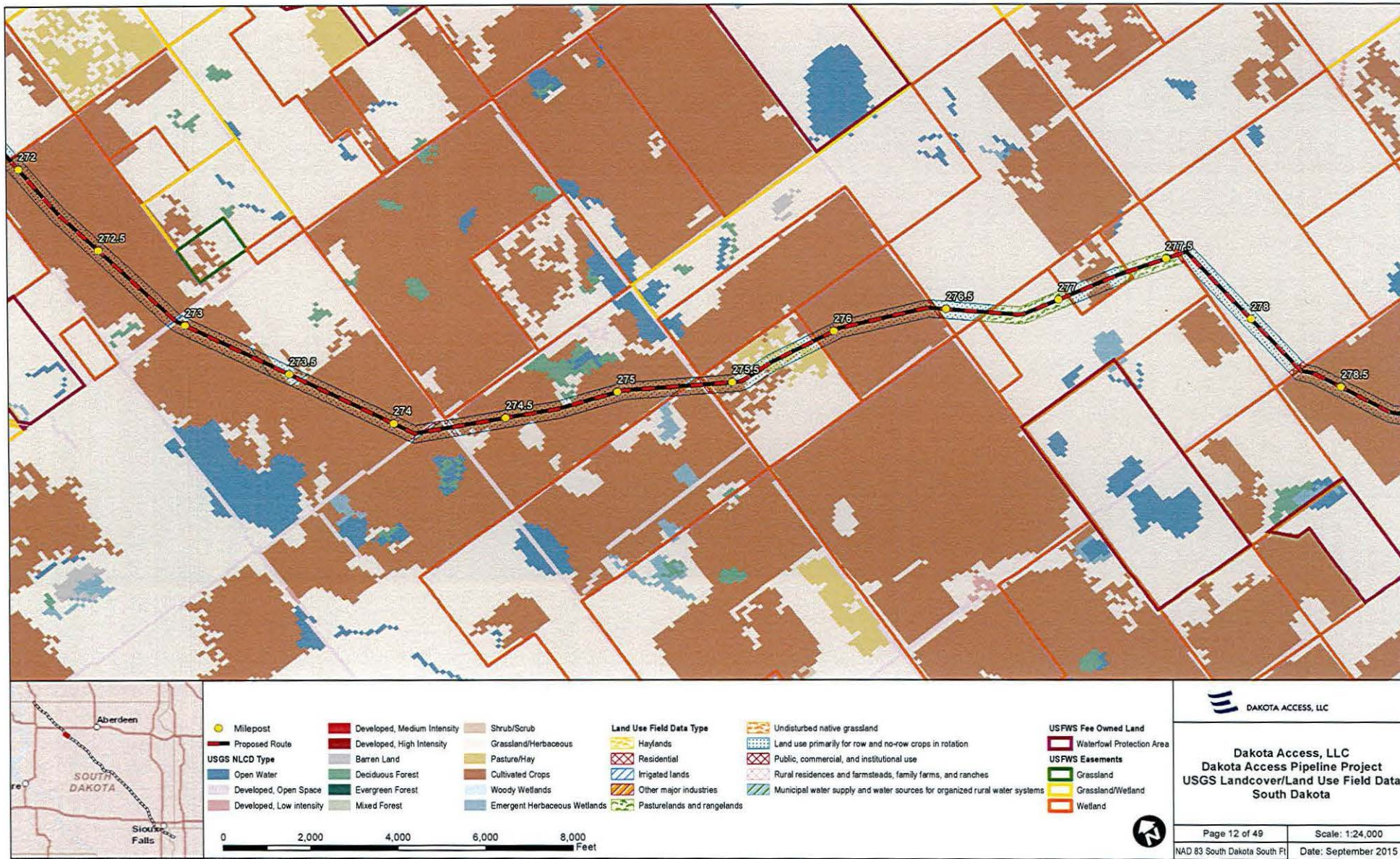
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- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands

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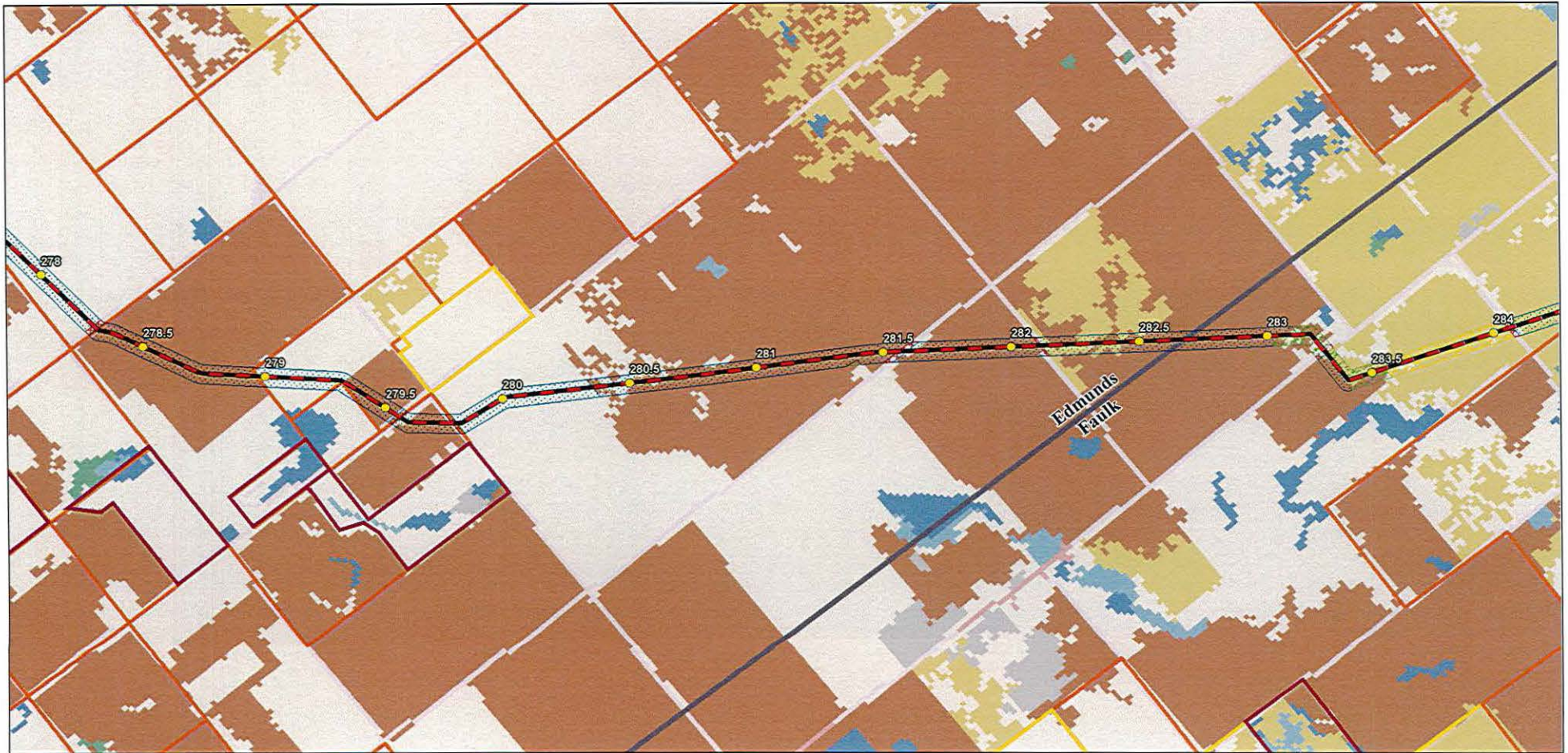
- USFWS Fee Owned Land
- Waterfowl Protection Area
- USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



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- Milepost
- Proposed Route
- USGS NLCD Type**
- Open Water
- Developed, Open Space
- Developed, Low intensity

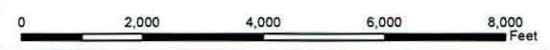
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- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

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- Haylands
- Residential
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- Other major industries
- Pasturelands and rangelands

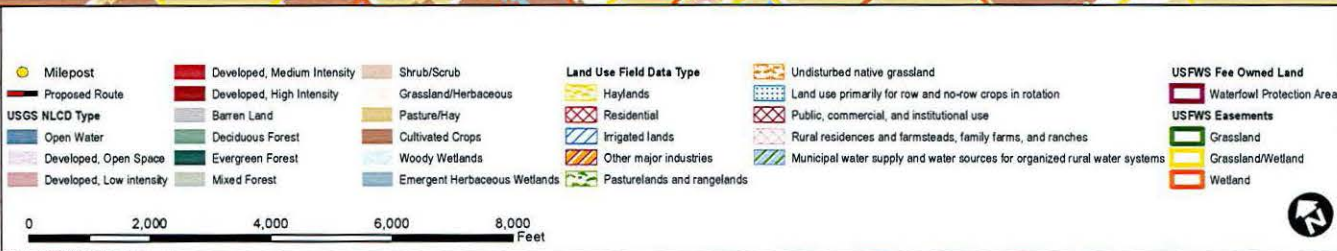
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- USFWS Easements**
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- Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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Scale: 1:24,000

NAD 83 South Dakota South Ft

Date: September 2015

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- Milepost**
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- Proposed Route**
- USGS NLCD Type**
- Open Water
 - Developed, Open Space
 - Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

- Land Use Field Data Type**
- Haylands
 - Residential
 - Irrigated lands
 - Other major industries
 - Pasturelands and rangelands

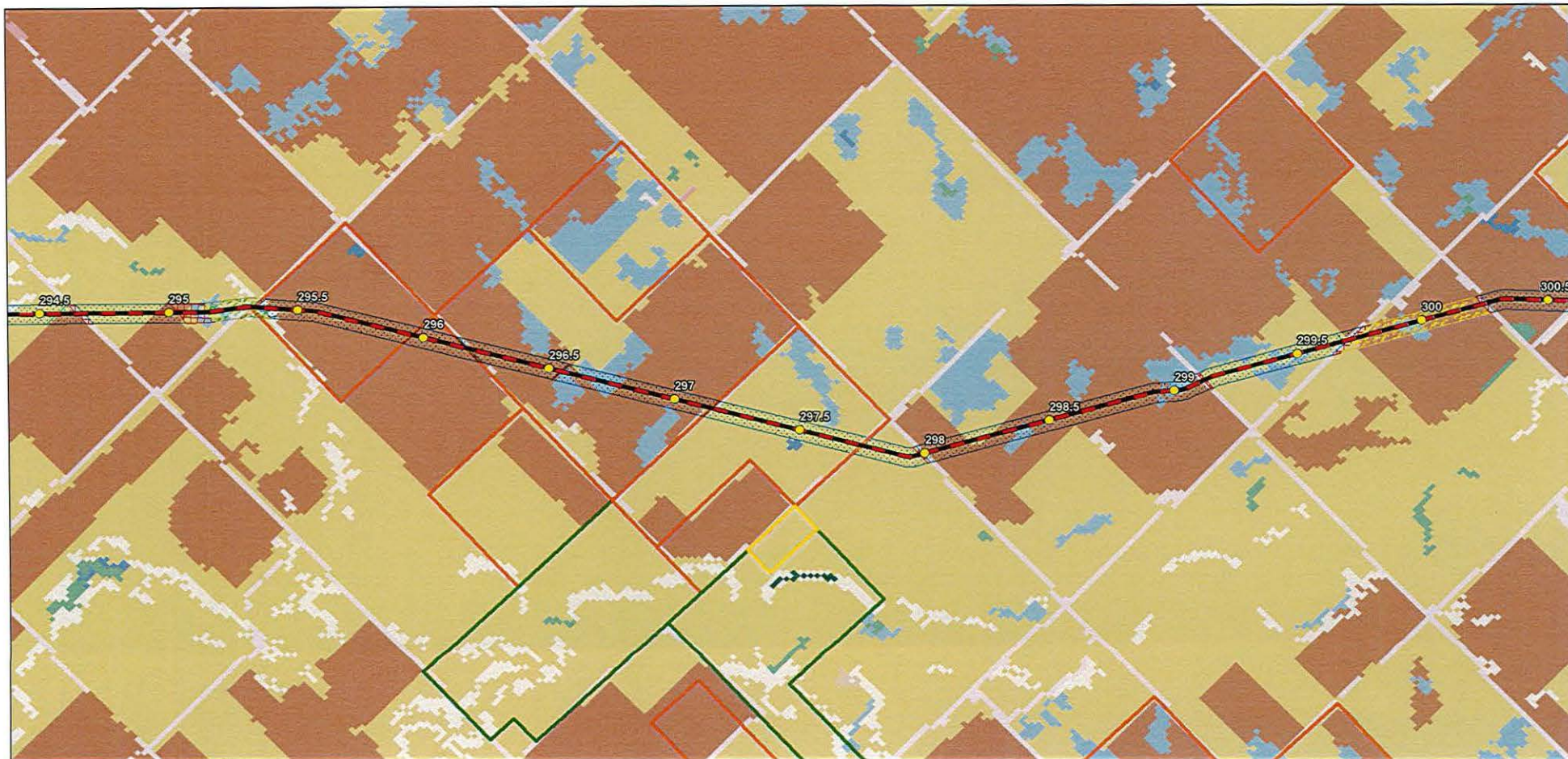
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- USFWS Fee Owned Land**
- Waterfowl Protection Area
- USFWS Easements**
- Grassland
 - Grassland/Wetland
 - Wetland



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**Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota**



- USGS NLCD Type**
- Open Water
 - Developed, Open Space
 - Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
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- USFWS Easements**
- Grassland
 - Grassland/Wetland
 - Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



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- Milepost**
- 300
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 - Developed, Low intensity

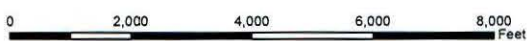
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- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

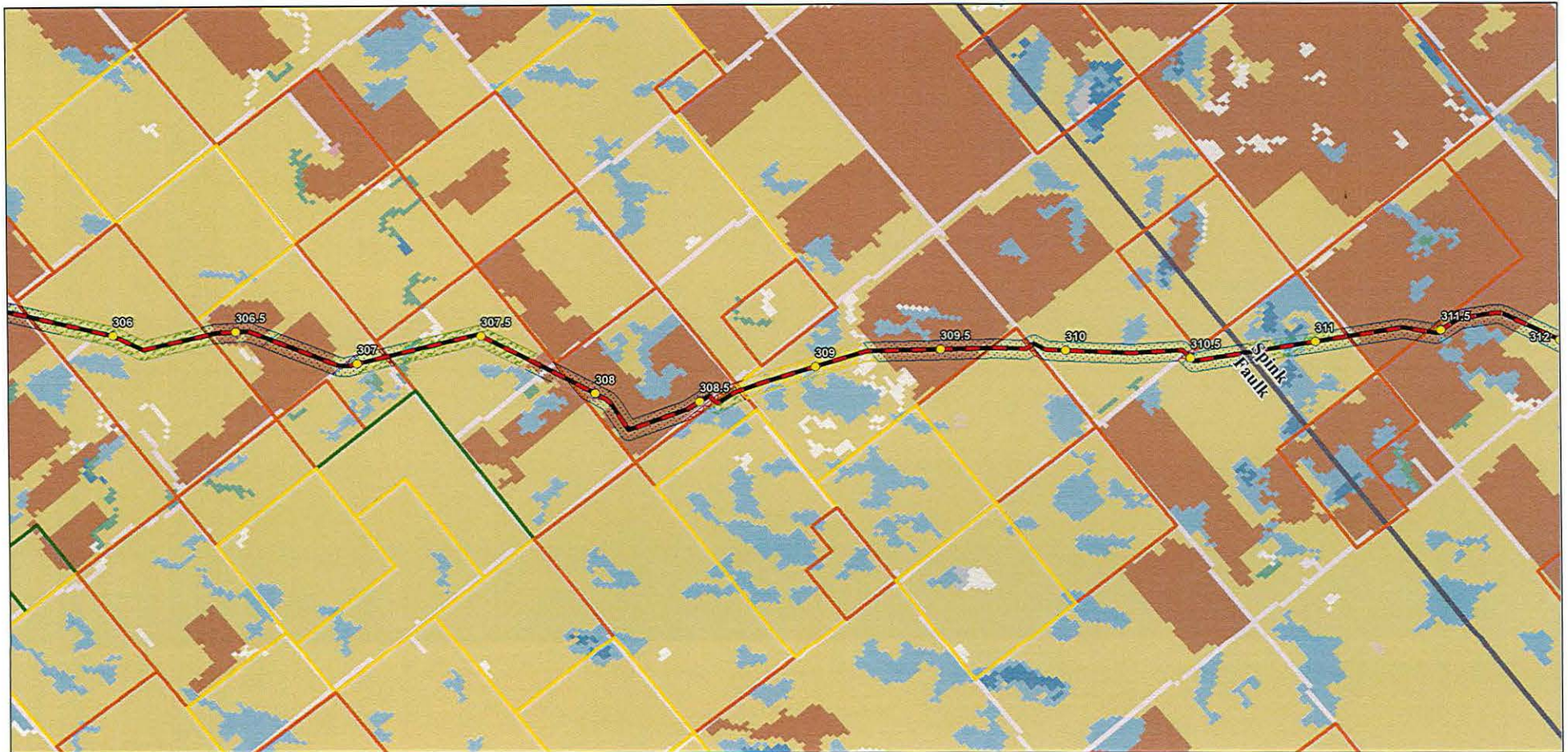
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- Haylands
 - Residential
 - Irrigated lands
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 - Pasturelands and rangelands

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- USFWS Fee Owned Land**
- Waterfowl Protection Area
- USFWS Easements**
- Grassland
 - Grassland/Wetland
 - Wetland



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



- Milepost**
- 306
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- USGS NLCD Type**
- Open Water
 - Developed, Open Space
 - Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest

- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
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- Emergent Herbaceous Wetlands

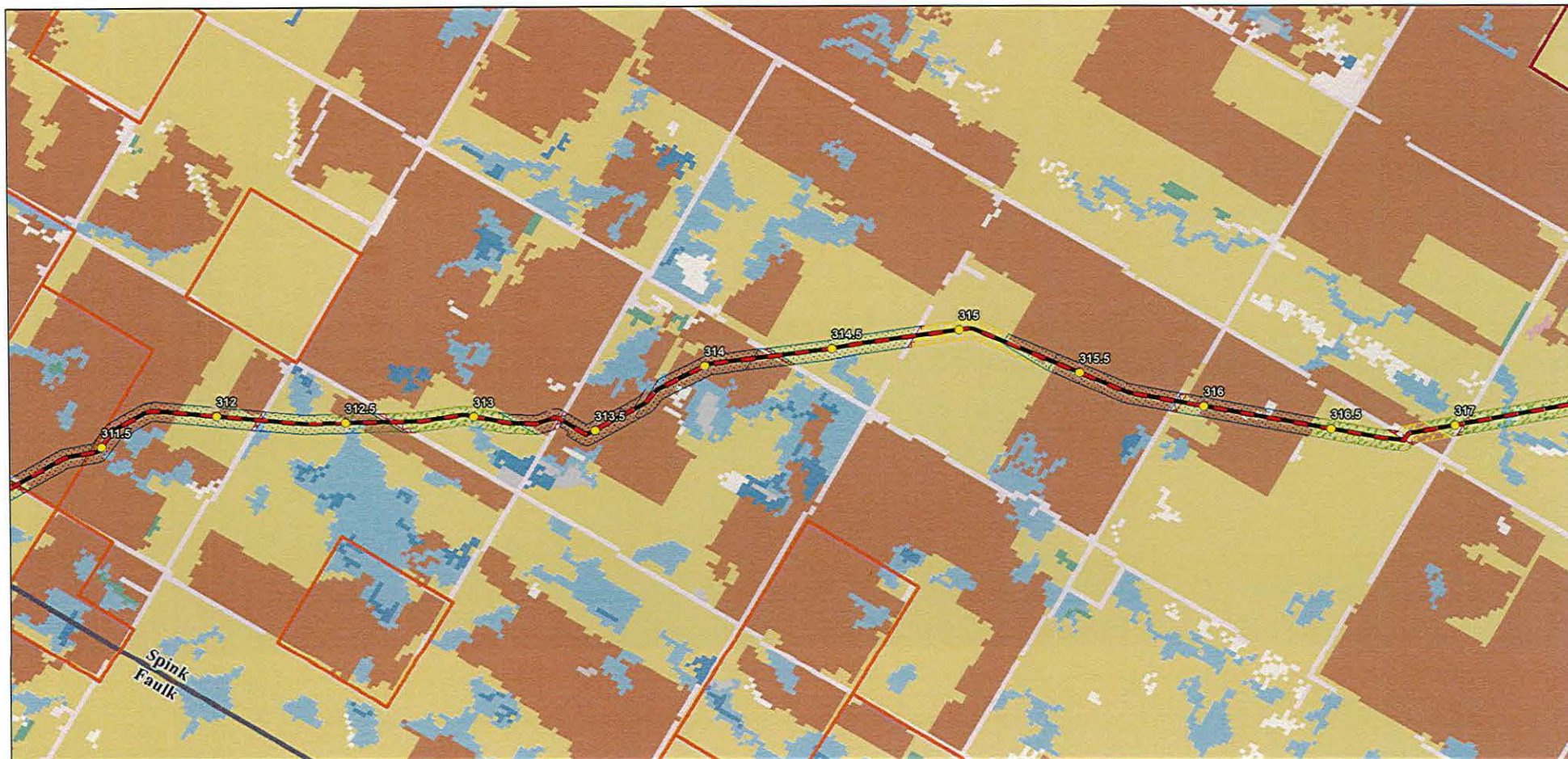
- Land Use Field Data Type**
- Haylands
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- Waterfowl Protection Area
- USFWS Easements**
- Grassland
 - Grassland/Wetland
 - Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



- Milepost
- Proposed Route
- USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
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- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
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- Pasture/Hay
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- USFWS Fee Owned Land
- Waterfowl Protection Area
- USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

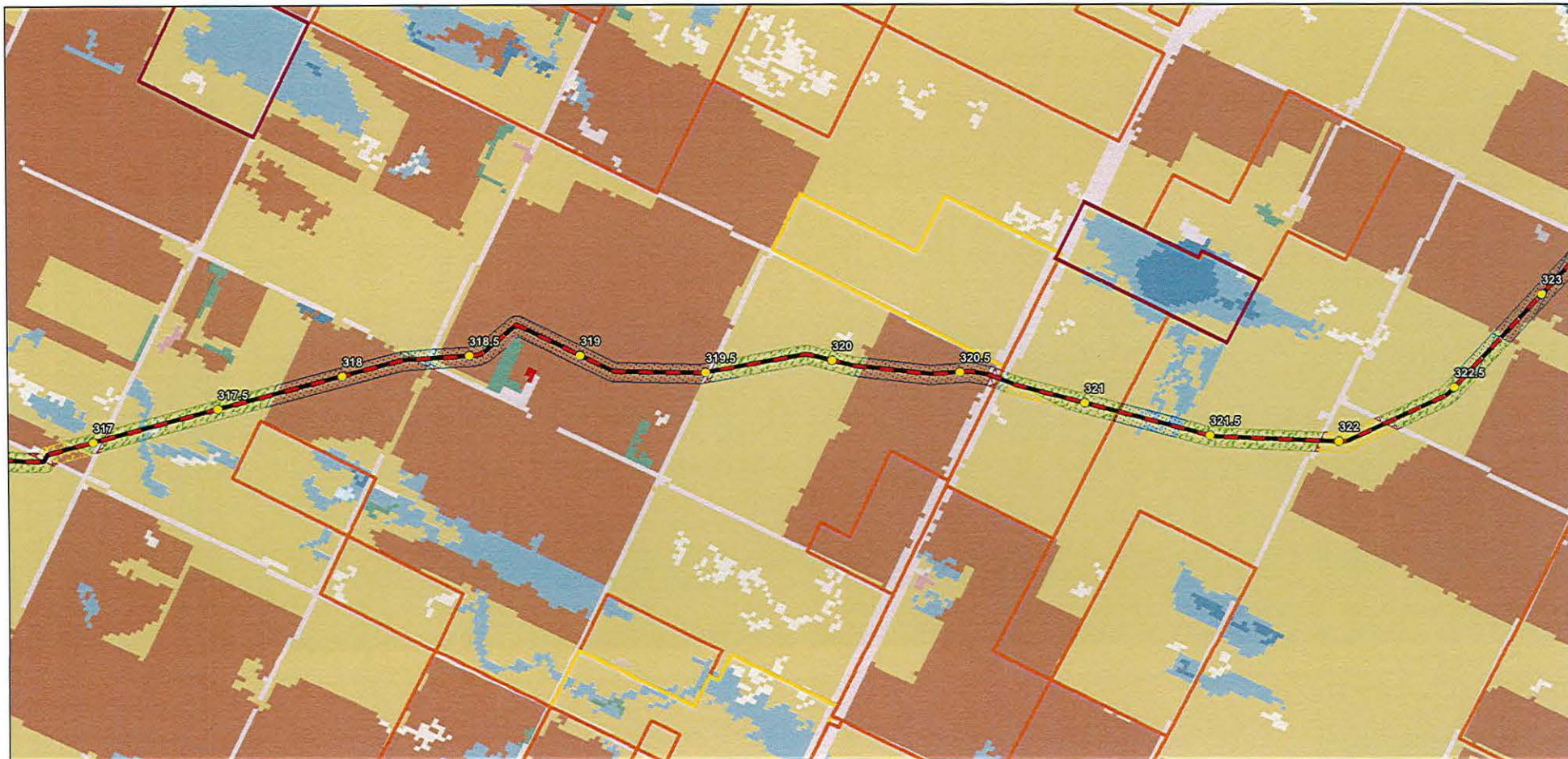
- USFWS Fee Owned Land
- Waterfowl Protection Area
- USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland

- USFWS Fee Owned Land
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- USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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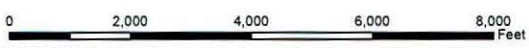
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 - Developed, Medium Intensity
 - Developed, High Intensity
 - Barren Land
 - Deciduous Forest
 - Evergreen Forest
 - Mixed Forest

- Land Use Field Data Type**
- Shrub/Scrub
 - Grassland/Herbaceous
 - Pasture/Hay
 - Cultivated Crops
 - Woody Wetlands
 - Emergent Herbaceous Wetlands

- Land Use Field Data Type**
- Haylands
 - Residential
 - Irrigated lands
 - Other major industries
 - Pasturelands and rangelands

- Land Use Field Data Type**
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- USFWS Fee Owned Land**
- Waterfowl Protection Area
- USFWS Easements**
- Grassland
 - Grassland/Wetland
 - Wetland



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



- USGS NLCD Type**
- Open Water
 - Developed, Open Space
 - Developed, Low intensity
 - Developed, Medium Intensity
 - Developed, High Intensity
 - Barren Land
 - Deciduous Forest
 - Evergreen Forest
 - Mixed Forest
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- Haylands
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- Waterfowl Protection Area
 - USFWS Easements
 - Grassland
 - Grassland/Wetland
 - Wetland



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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota





- USGS NLCD Type**
- Open Water
 - Developed, Open Space
 - Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
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0 2,000 4,000 6,000 8,000 Feet



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

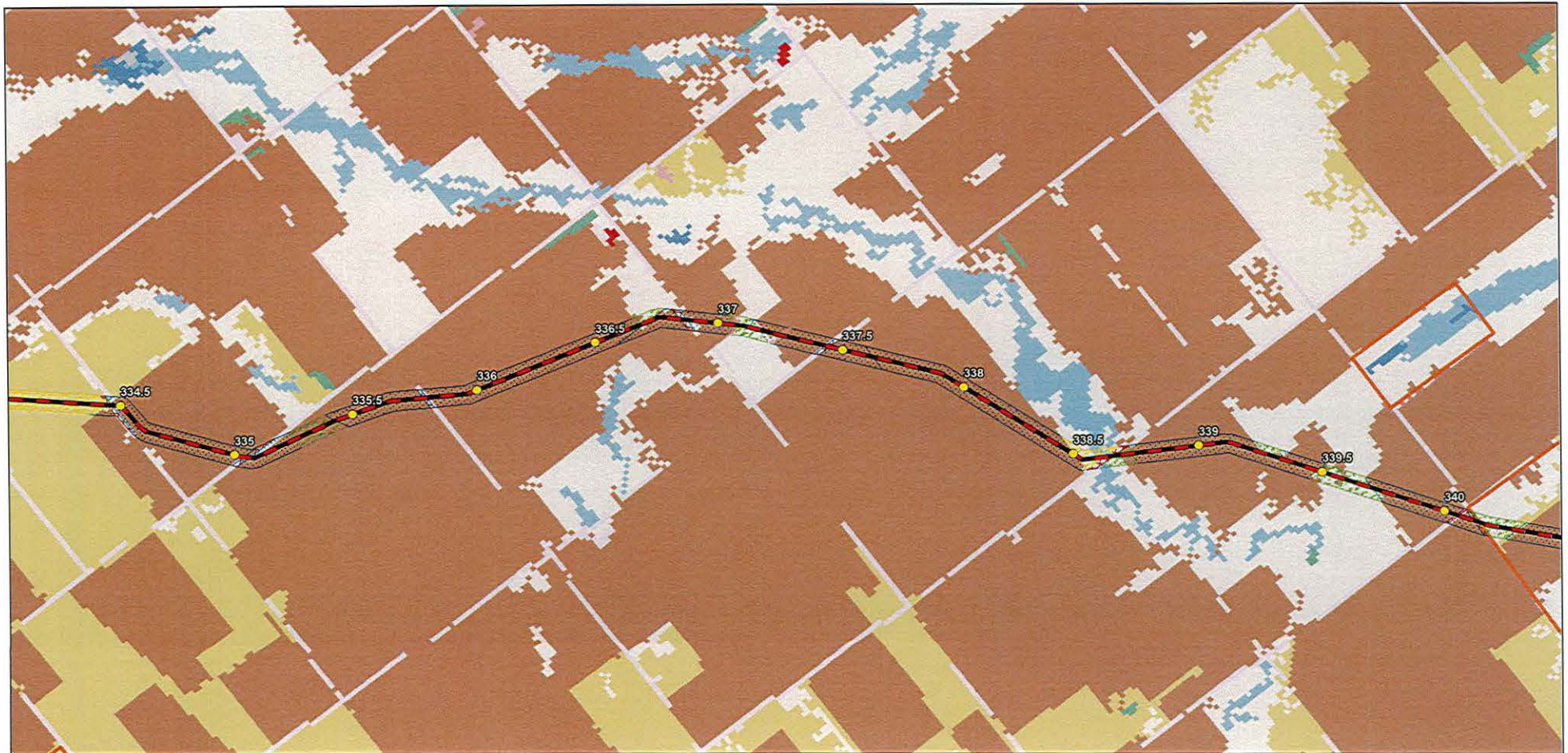
Page 22 of 49

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NAD 83 South Dakota South Fl

Date: September 2015

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- Milepost
- Proposed Route
- USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
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- Woody Wetlands
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- Haylands
- Residential
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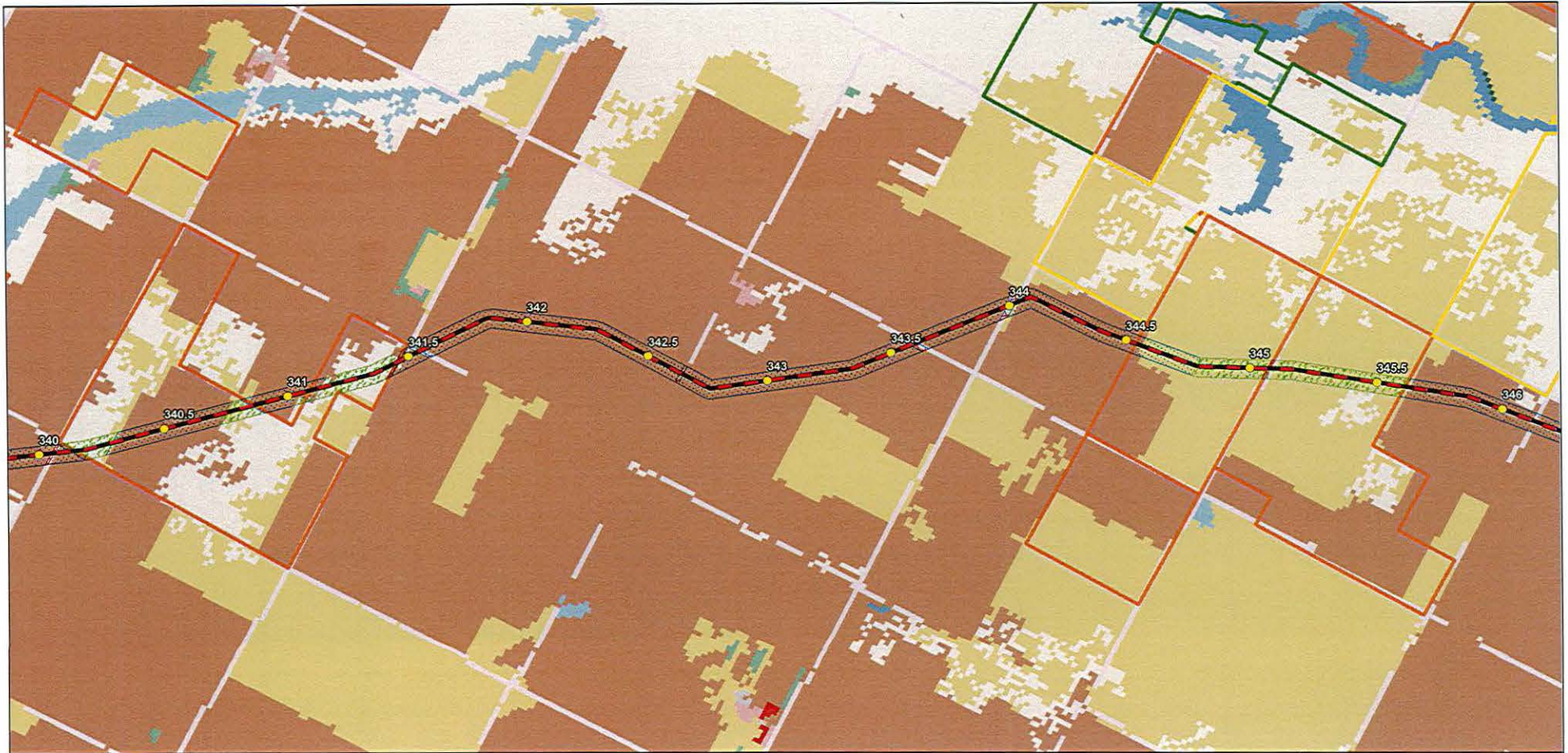
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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota





- Milepost
- Proposed Route
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- Open Water
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- Developed, Low intensity

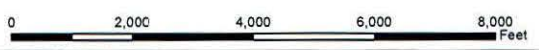
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
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- Grassland/Wetland
- Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
- Proposed Route
- USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity

- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
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- USGS NLCD Type
- Open Water
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- Developed, Medium Intensity
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- Wetland

0 2,000 4,000 6,000 8,000 Feet



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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Scale: 1:24,000

NAD 83 South Dakota South Pl.

Date: September 2015

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- Milepost
- Proposed Route
- USGS NLCD Type**
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
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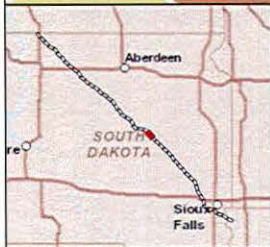
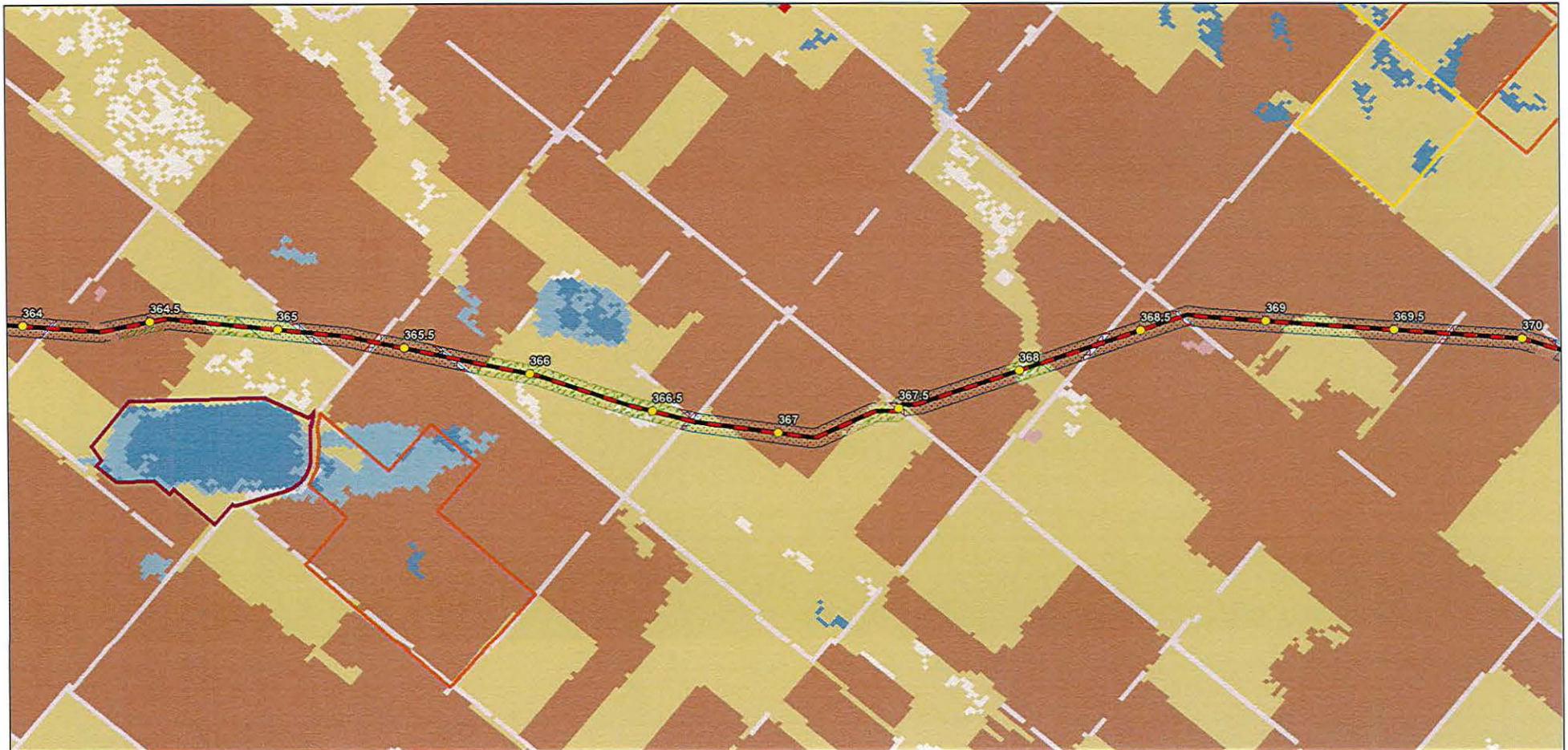
- USFWS Fee Owned Land
- Waterfowl Protection Area
- USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland



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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



- Milepost
- Proposed Route
- USGS NLCD Type**
- Open Water
- Developed, Open Space
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- Developed, Medium Intensity
- Developed, High Intensity
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- Grassland/Wetland
- Wetland



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
- Proposed Route
- USGS NLCD Type
- Open Water
- Developed, Open Space
- Developed, Low intensity
- Developed, Medium Intensity
- Developed, High Intensity
- Barren Land
- Deciduous Forest
- Evergreen Forest
- Mixed Forest
- Shrub/Scrub
- Grassland/Herbaceous
- Pasture/Hay
- Cultivated Crops
- Woody Wetlands
- Emergent Herbaceous Wetlands

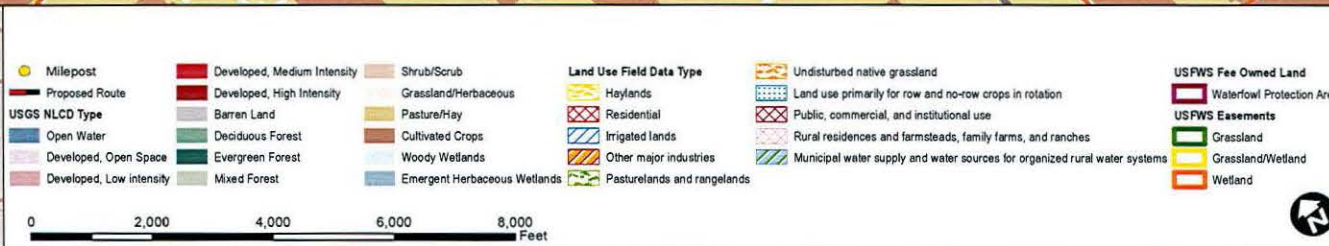
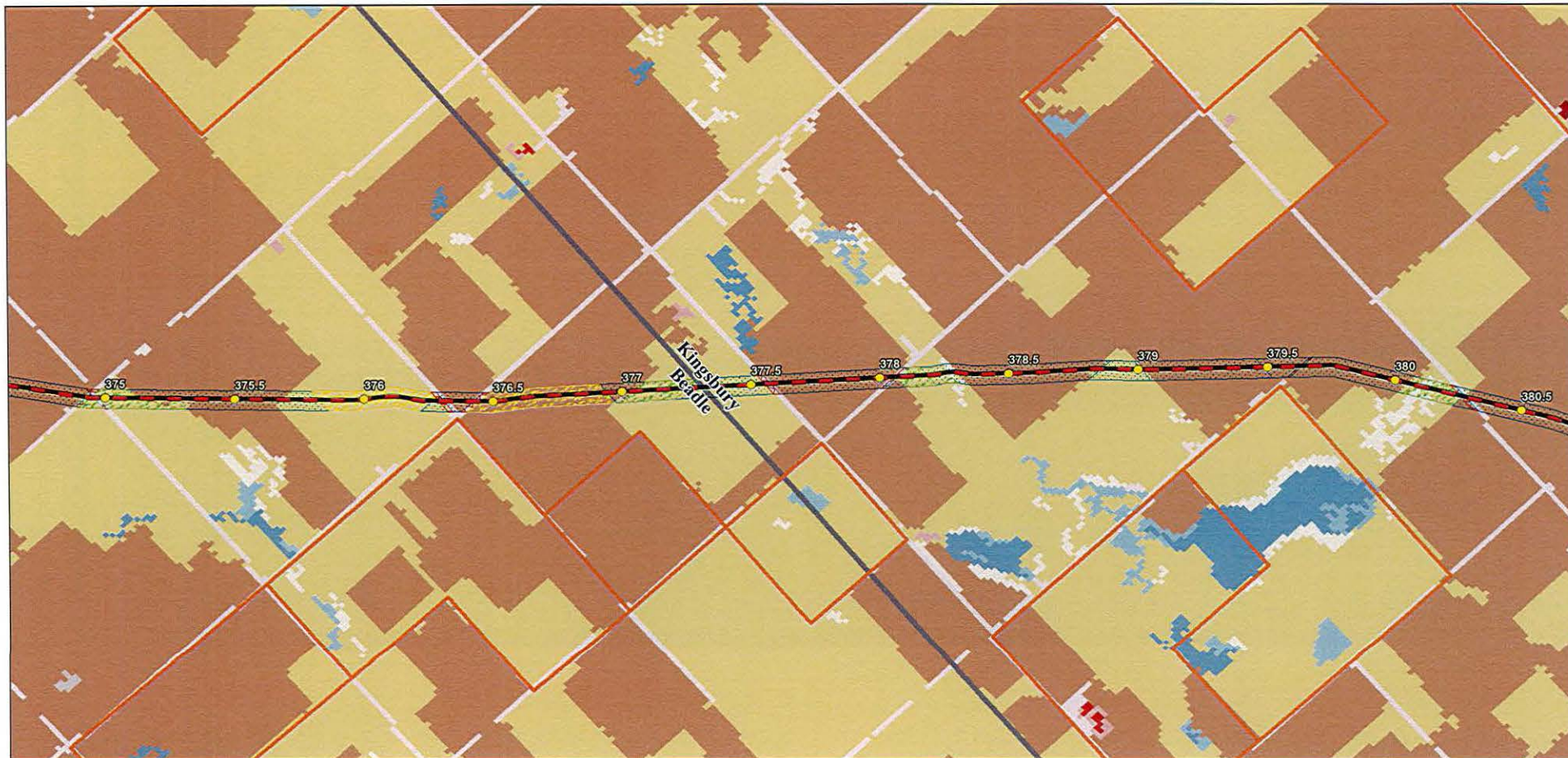
- Land Use Field Data Type
- Haylands
- Residential
- Irrigated lands
- Other major industries
- Pasturelands and rangelands
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
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- Waterfowl Protection Area
- USFWS Easements
- Grassland
- Grassland/Wetland
- Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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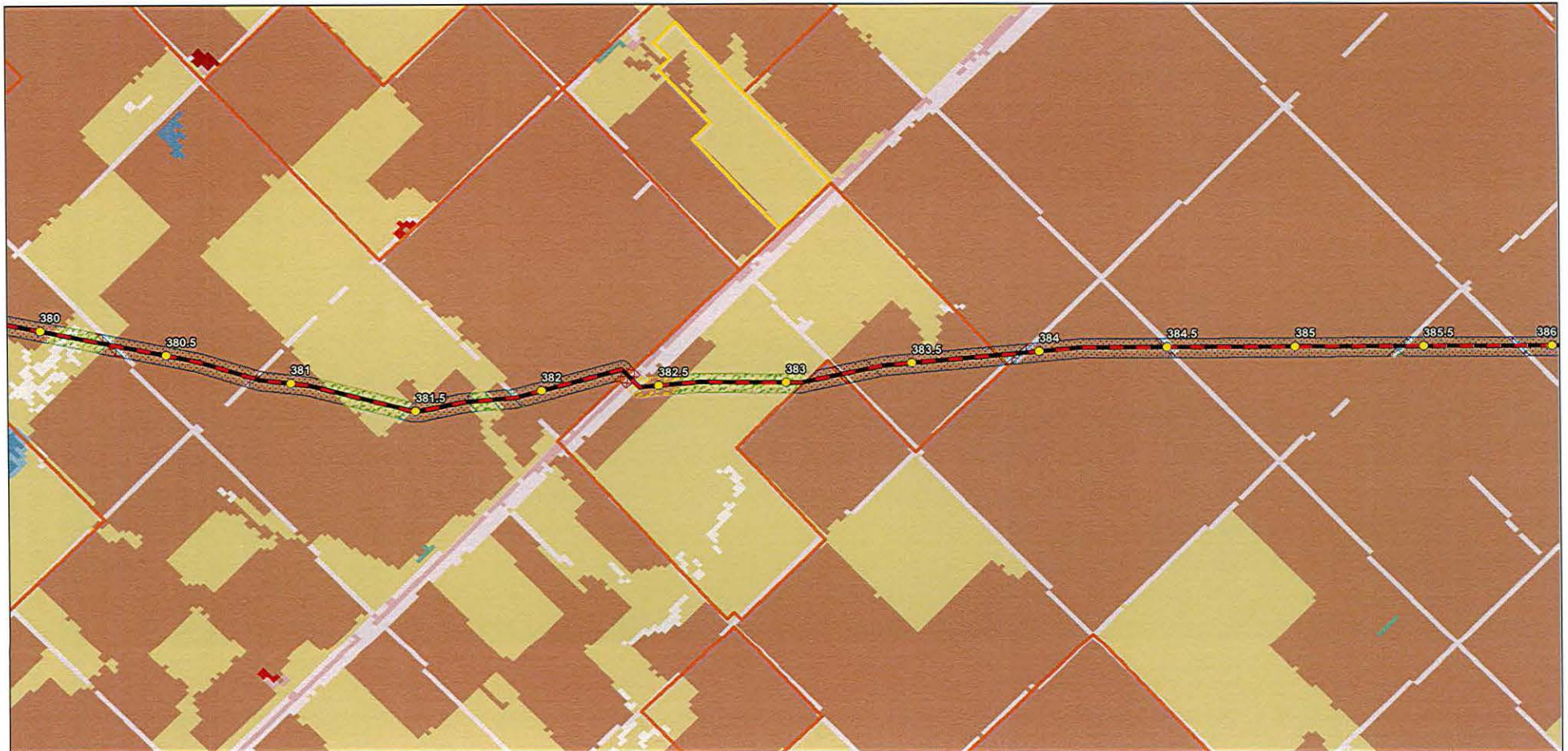


Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
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USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
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- Wetland

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USGS Landcover/Land Use Field Data
South Dakota

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Milepost
 Proposed Route
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USFWS Fee Owned Land
 Waterfowl Protection Area
USFWS Easements
 Grassland
 Grassland/Wetland
 Wetland

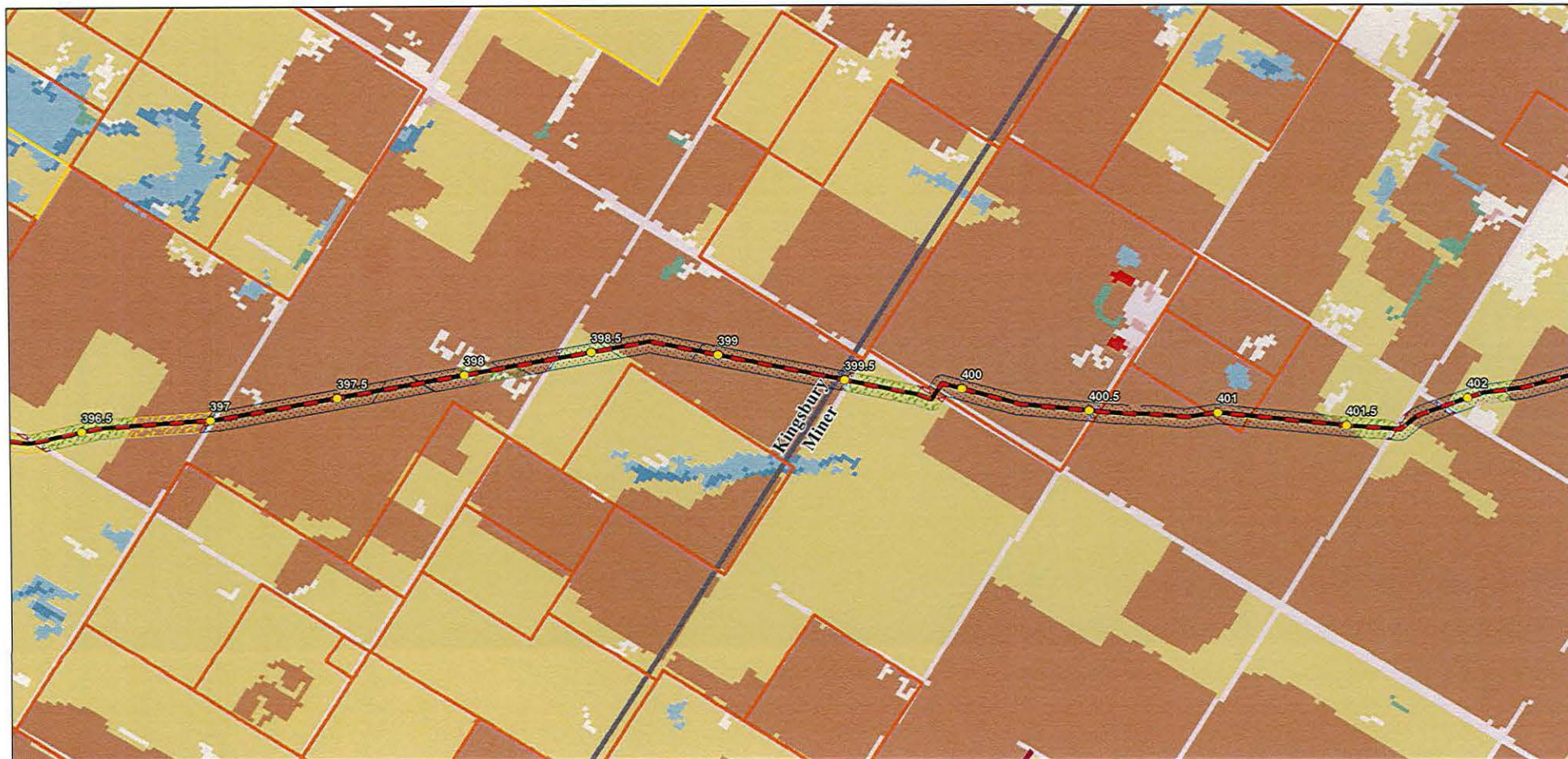
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Dakota Access, LLC
 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

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 NAD 83 South Dakota South Fl
 Date: September 2015

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Milepost
 Proposed Route
 USGS NLCD Type
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USFWS Fee Owned Land

Waterfowl Protection Area

USFWS Easements

Grassland

Grassland/Wetland

Wetland

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Dakota Access, LLC
 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

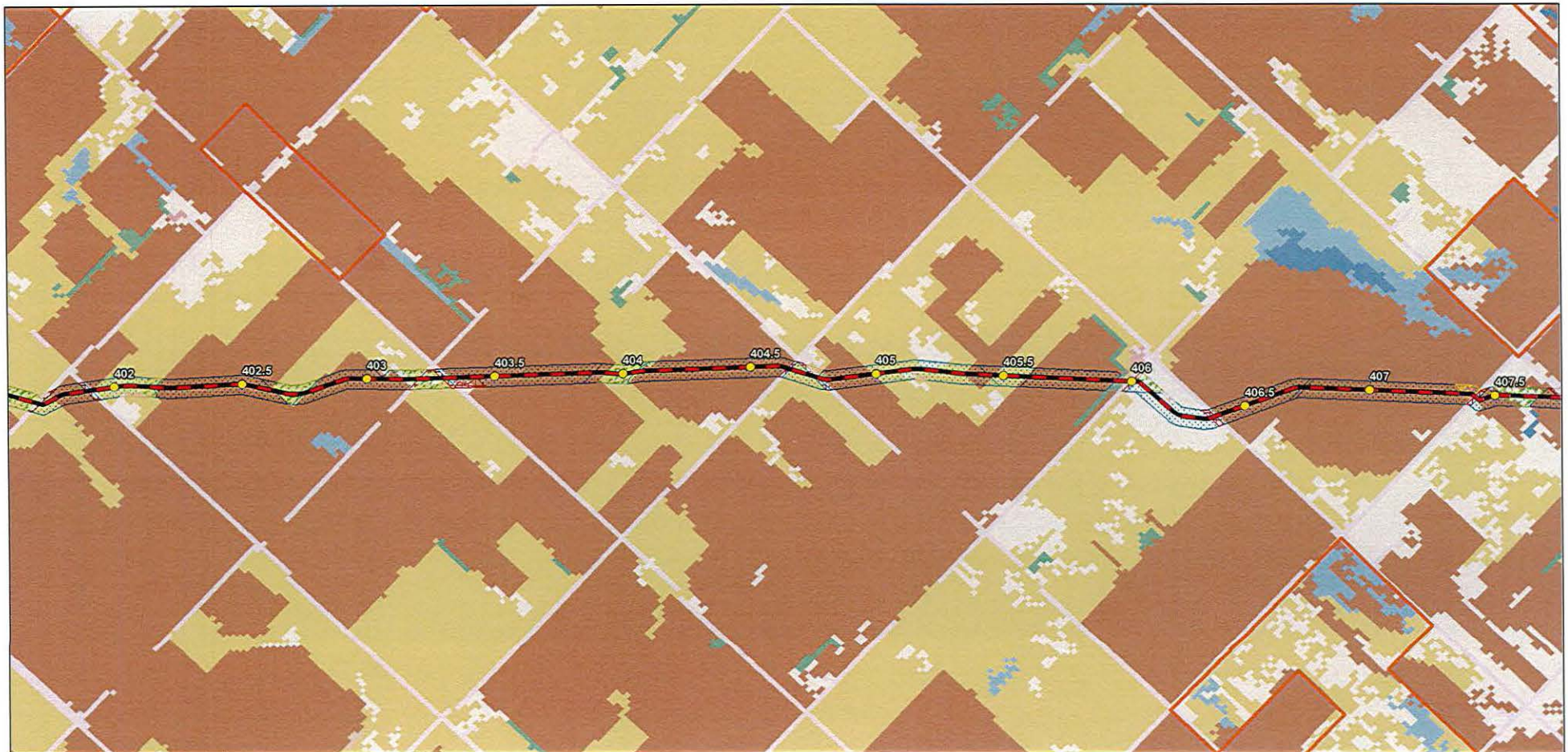
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NAD 83 South Dakota South R1

Date: September 2015

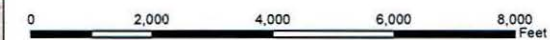
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- Milepost
- Proposed Route
- USGS NLCD Type**
- Open Water
- Developed, Open Space
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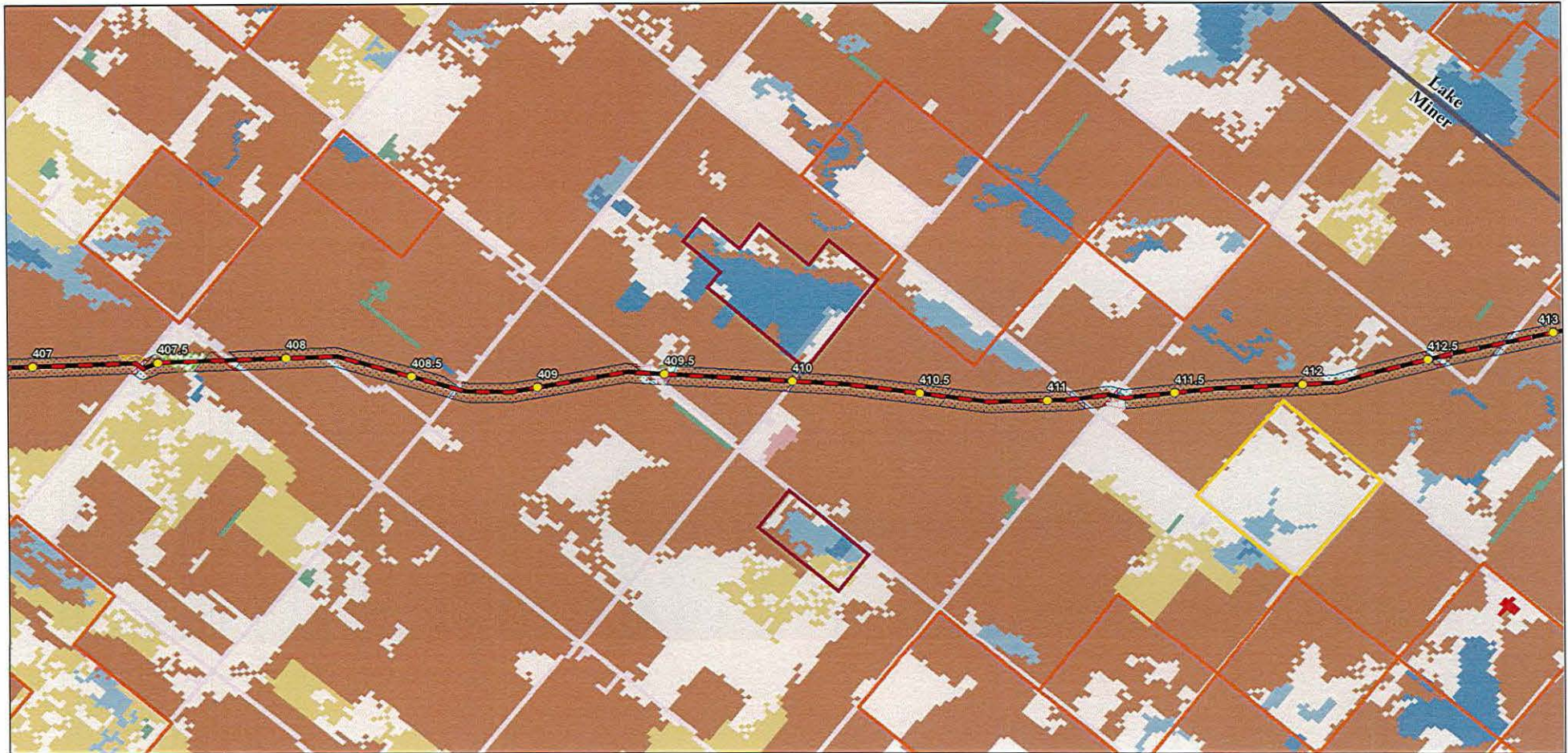
- USFWS Fee Owned Land
- Waterfowl Protection Area
- USFWS Easements
- Grassland
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- Wetland



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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota**

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● Milepost
 — Proposed Route
 USGS NLCD Type
 Open Water
 Developed, Open Space
 Developed, Low intensity

Developed, Medium Intensity
 Developed, High Intensity
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 USGS Landcover/Land Use Field Data
 South Dakota



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- Milepost
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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

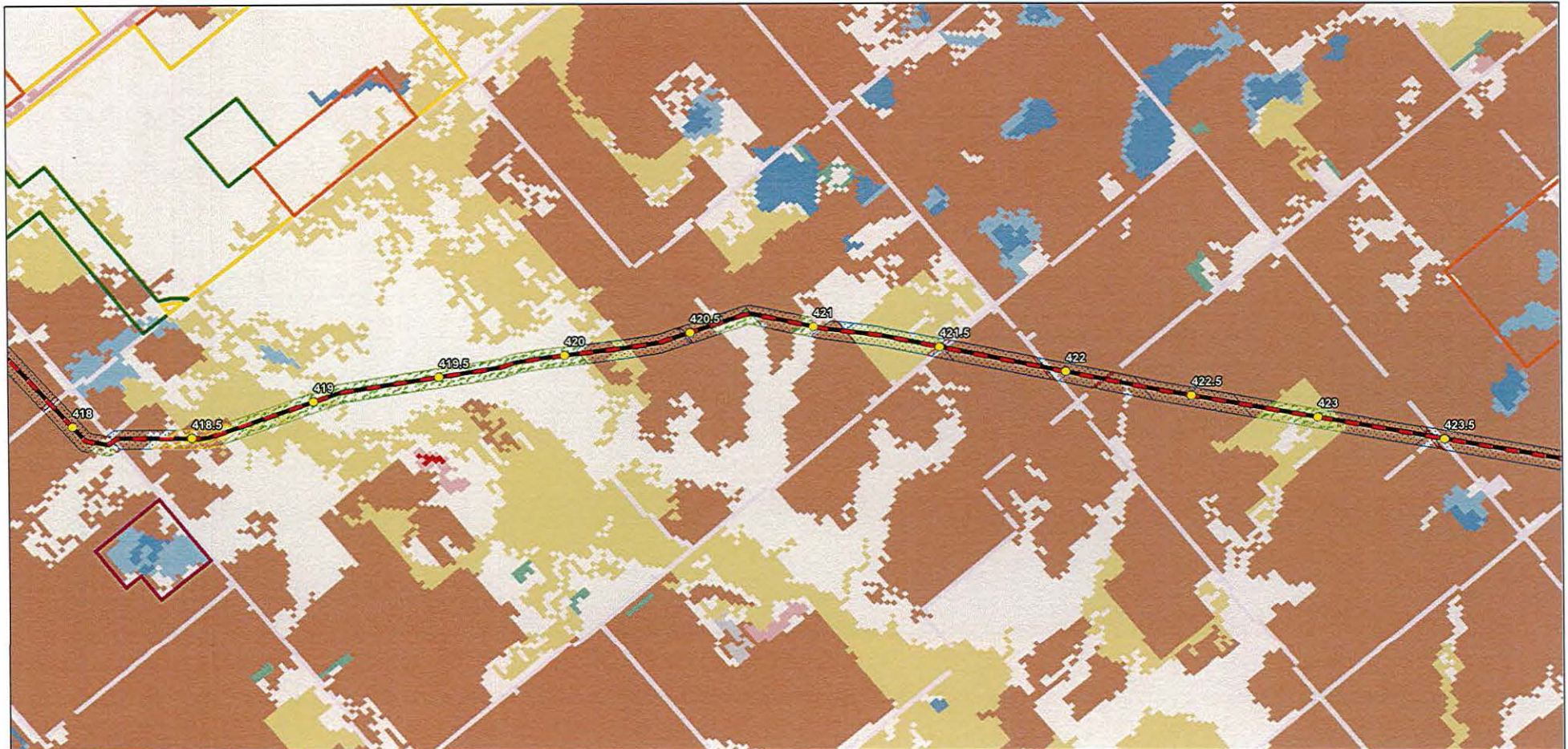
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NAD 83 South Dakota South R

Date: September 2015

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- Milepost
- Proposed Route
- USGS NLCD Type
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- Haylands
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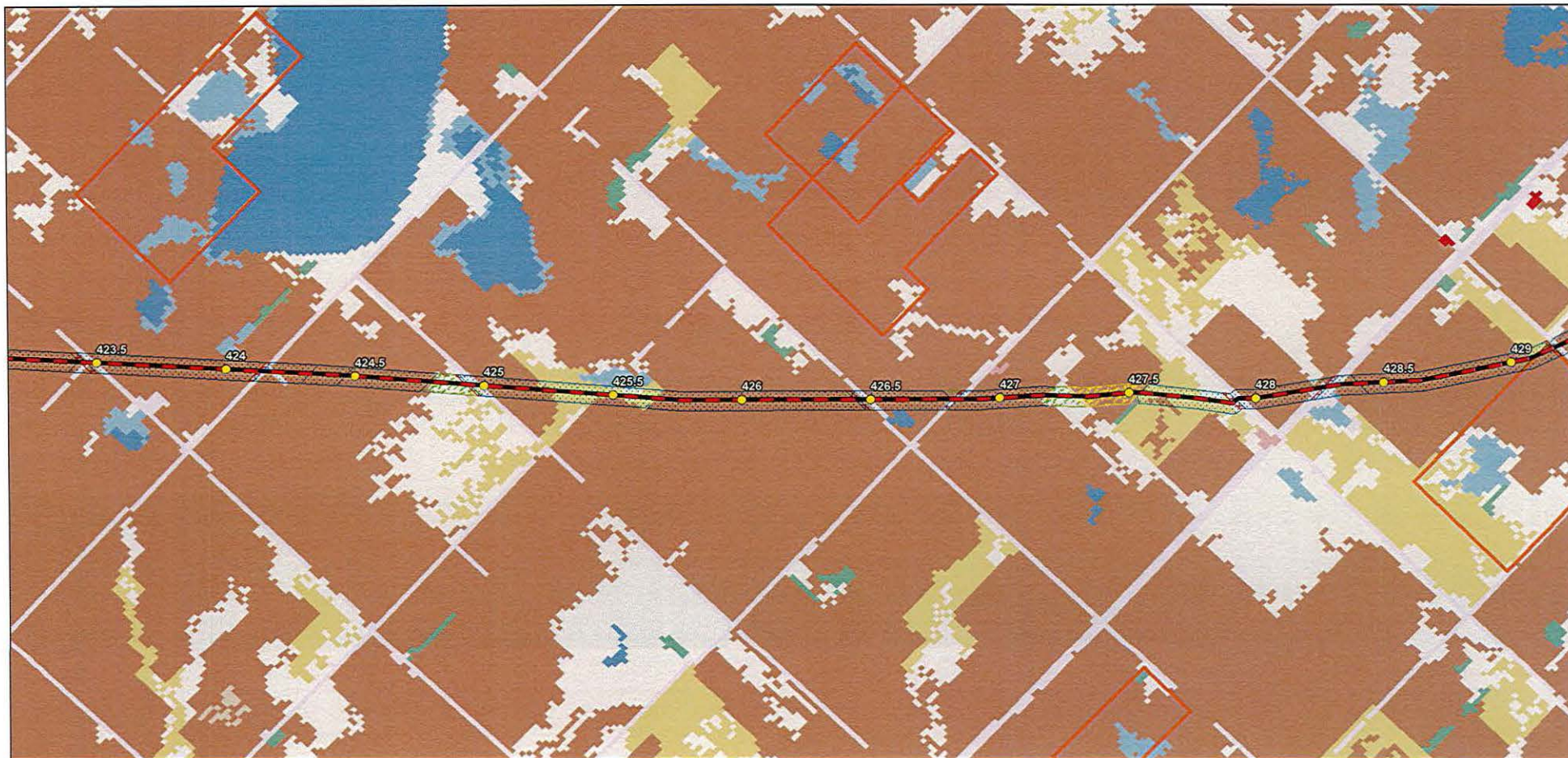
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Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota



- USGS NLCD Type**
- Open Water
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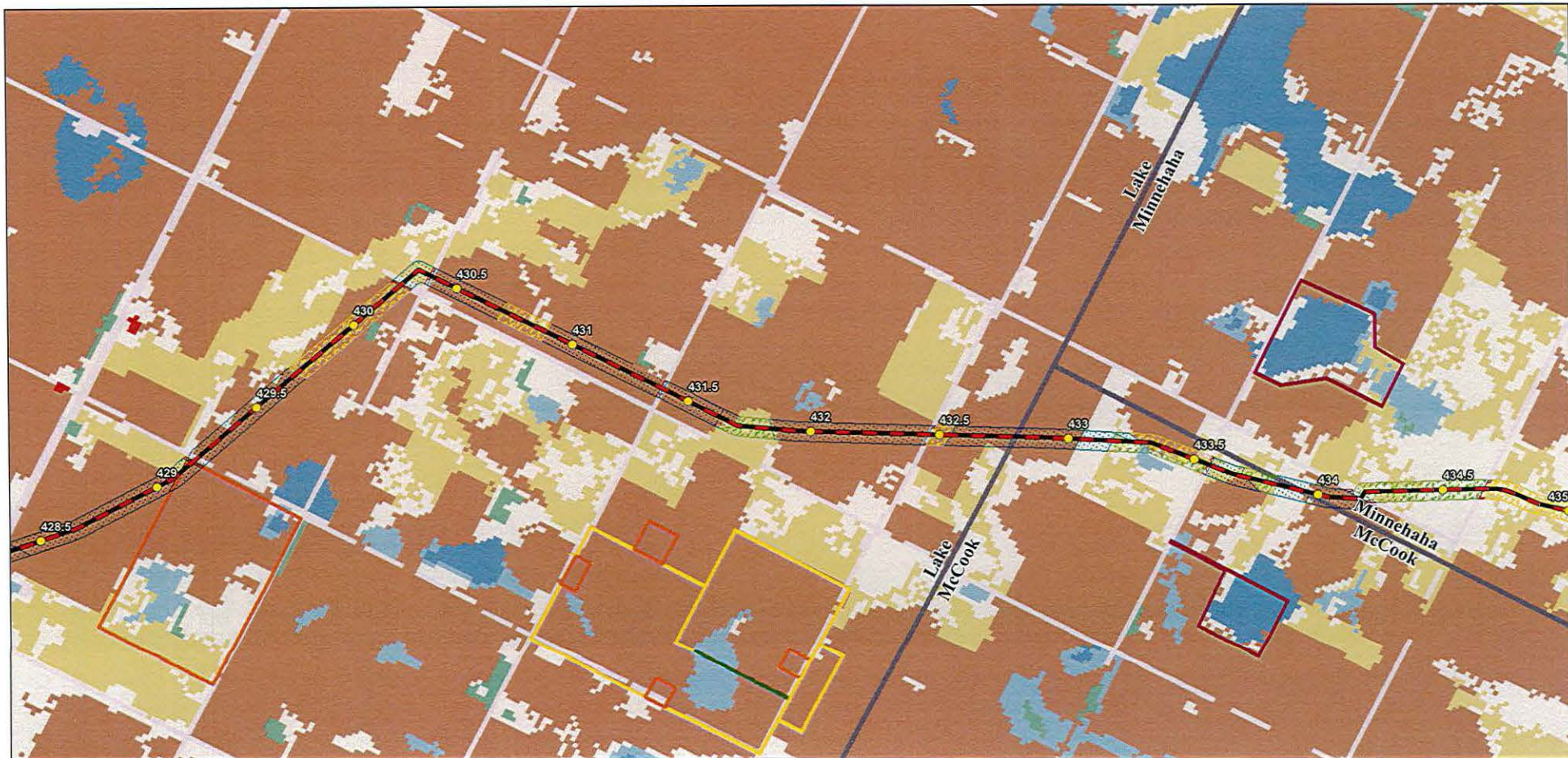
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- Waterfowl Protection Area

- USFWS Easements**
- Grassland
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Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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- Milepost
 — Proposed Route
 USGS NLCD Type
 ■ Open Water
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 ■ Barren Land
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 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

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NAD 83 South Dakota South Fl

Date: September 2015

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Milepost
 Proposed Route
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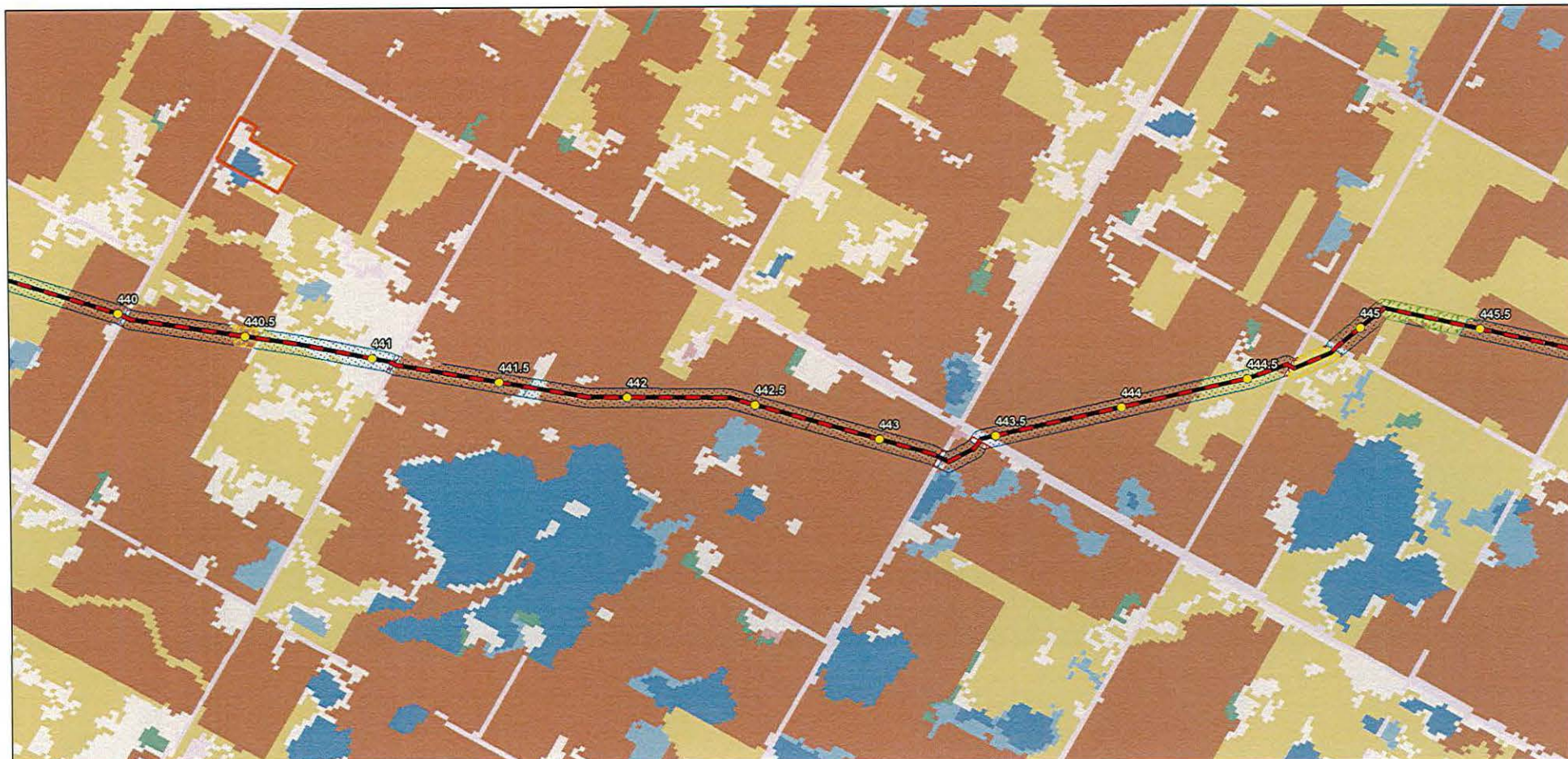
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NAD 83 South Dakota South Fl

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● Milepost
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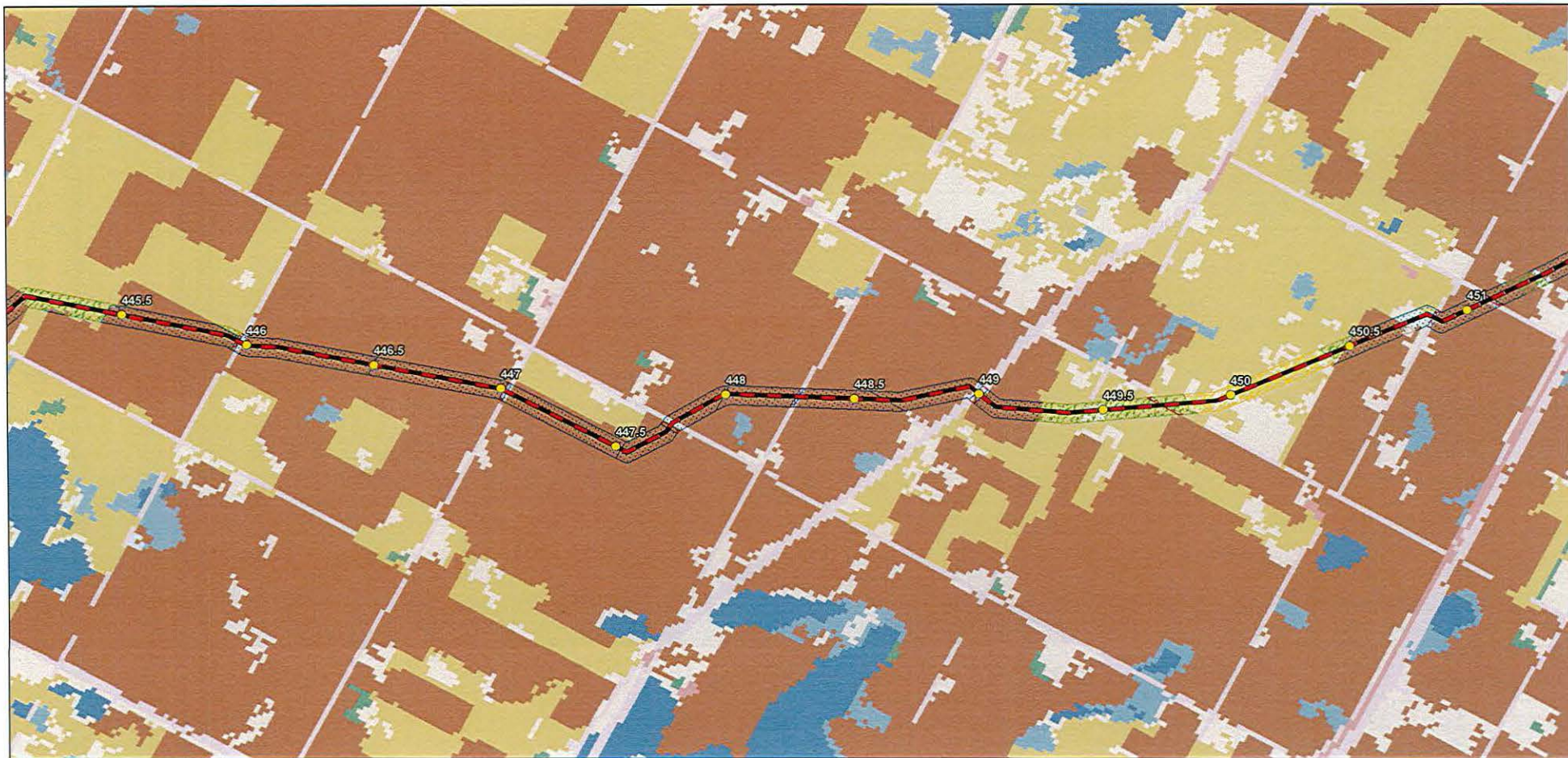
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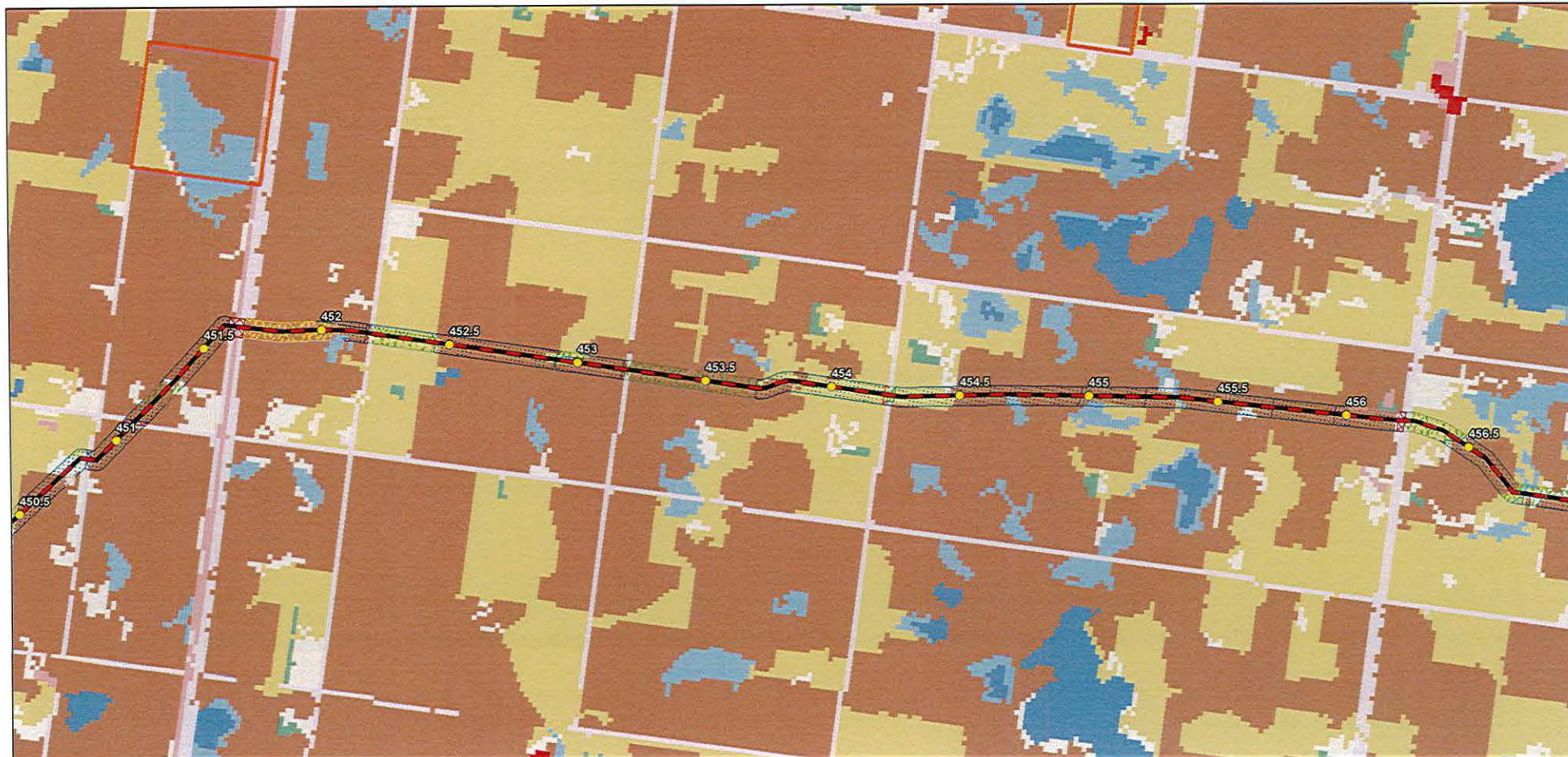


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USGS Landcover/Land Use Field Data
South Dakota

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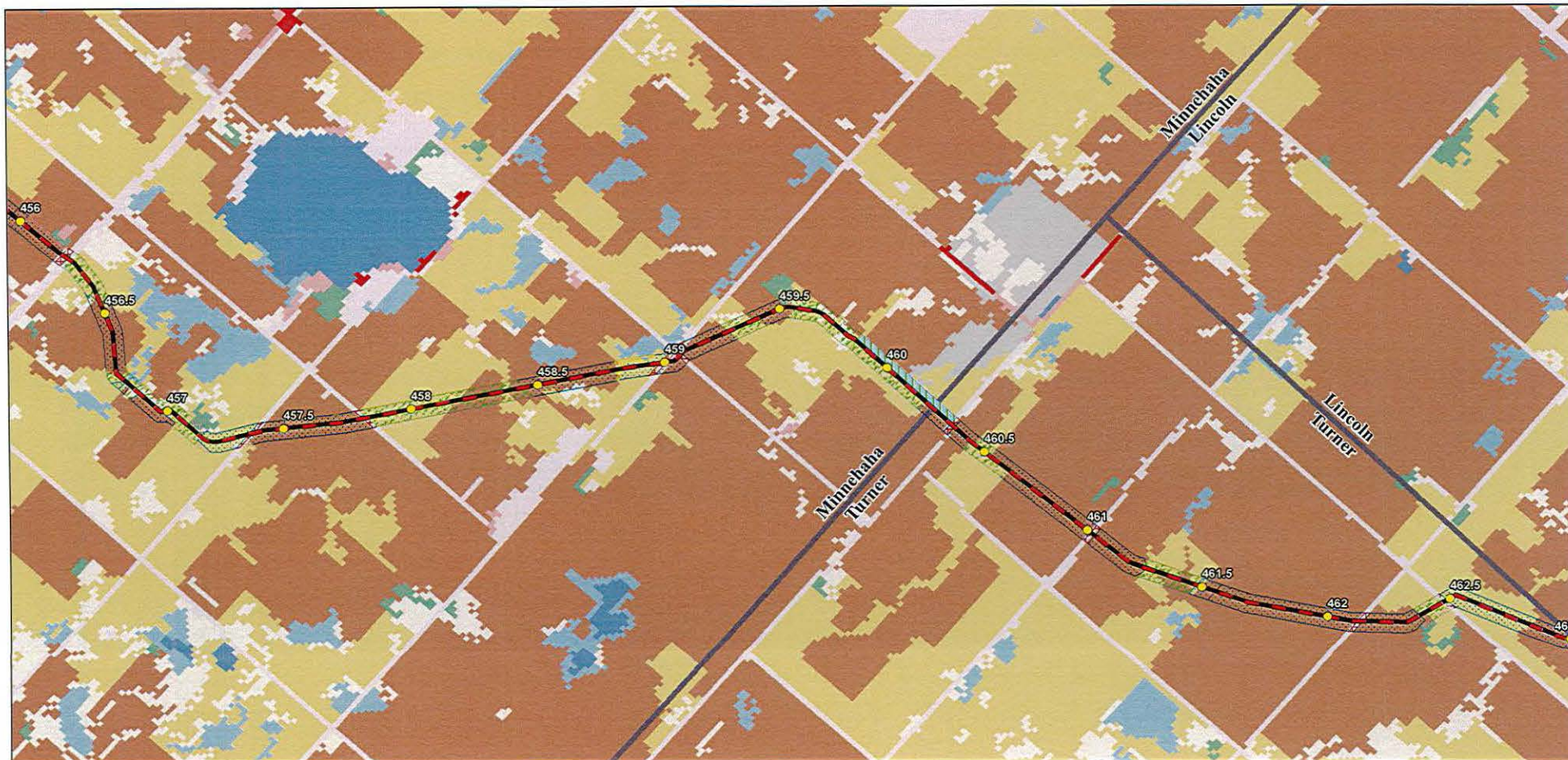
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NAD 83 South Dakota South R

Date: September 2015

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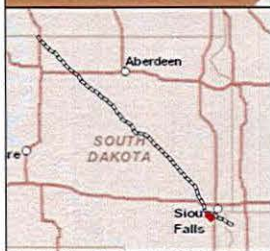
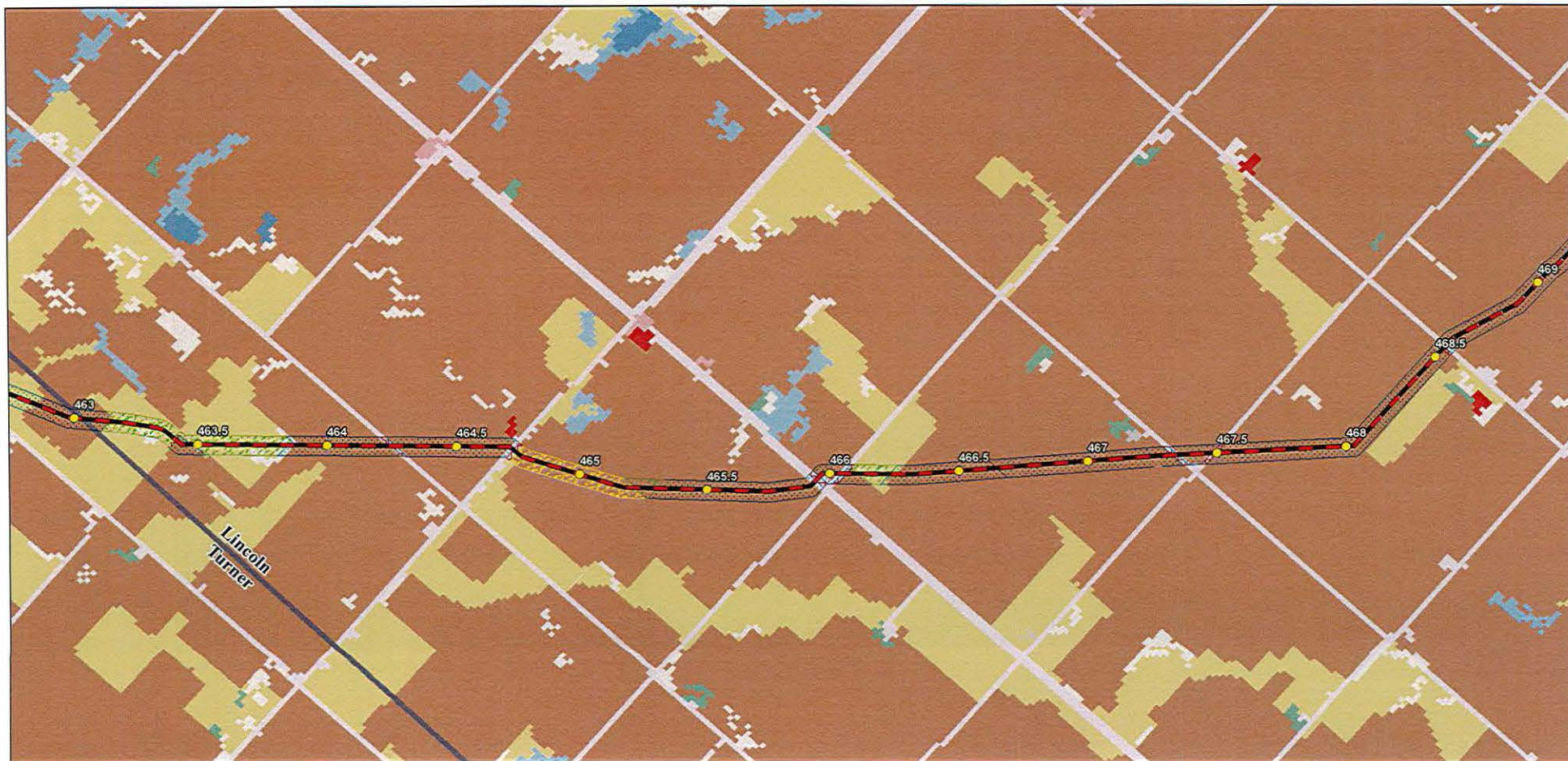
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South Dakota

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- Other major industries
- Pasturelands and rangelands

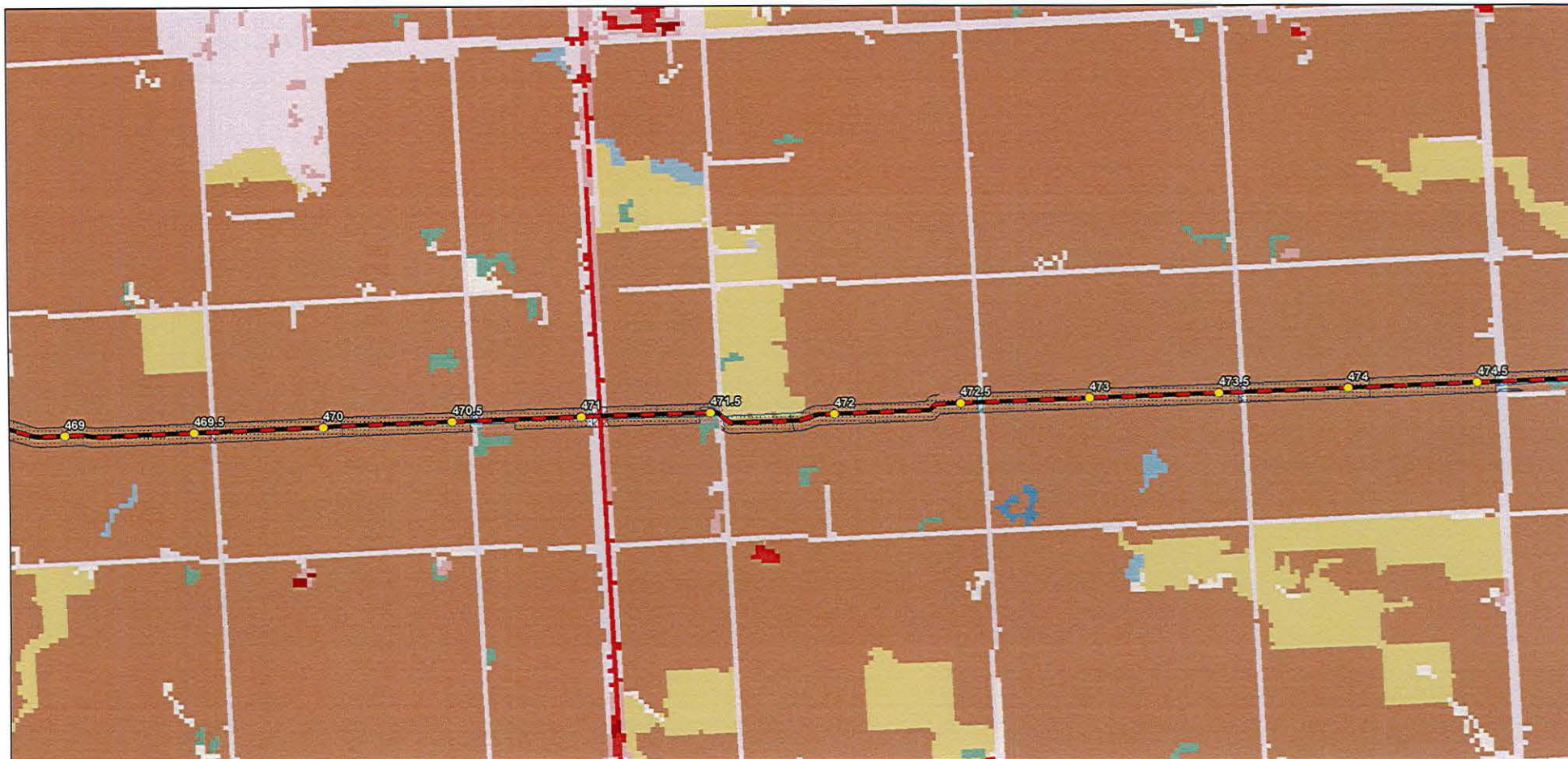
- Undisturbed native grassland
- Land use primarily for row and no-row crops in rotation
- Public, commercial, and institutional use
- Rural residences and farmsteads, family farms, and ranches
- Municipal water supply and water sources for organized rural water systems

- USFWS Fee Owned Land**
- Waterfowl Protection Area
- USFWS Easements**
- Grassland
- Grassland/Wetland
- Wetland



Dakota Access, LLC
Dakota Access Pipeline Project
USGS Landcover/Land Use Field Data
South Dakota

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Milepost
 Proposed Route
 USGS NLCD Type
 Open Water
 Developed, Open Space
 Developed, Low intensity

Developed, Medium Intensity
 Developed, High Intensity
 Barren Land
 Deciduous Forest
 Evergreen Forest
 Mixed Forest

Shrub/Scrub
 Grassland/Herbaceous
 Pasture/Hay
 Cultivated Crops
 Woody Wetlands
 Emergent Herbaceous Wetlands

Land Use Field Data Type
 Haylands
 Residential
 Irrigated lands
 Other major industries
 Pasturelands and rangelands

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0 2,000 4,000 6,000 8,000 Feet



DAKOTA ACCESS, LLC

Dakota Access, LLC
 Dakota Access Pipeline Project
 USGS Landcover/Land Use Field Data
 South Dakota

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 Date: September 2015

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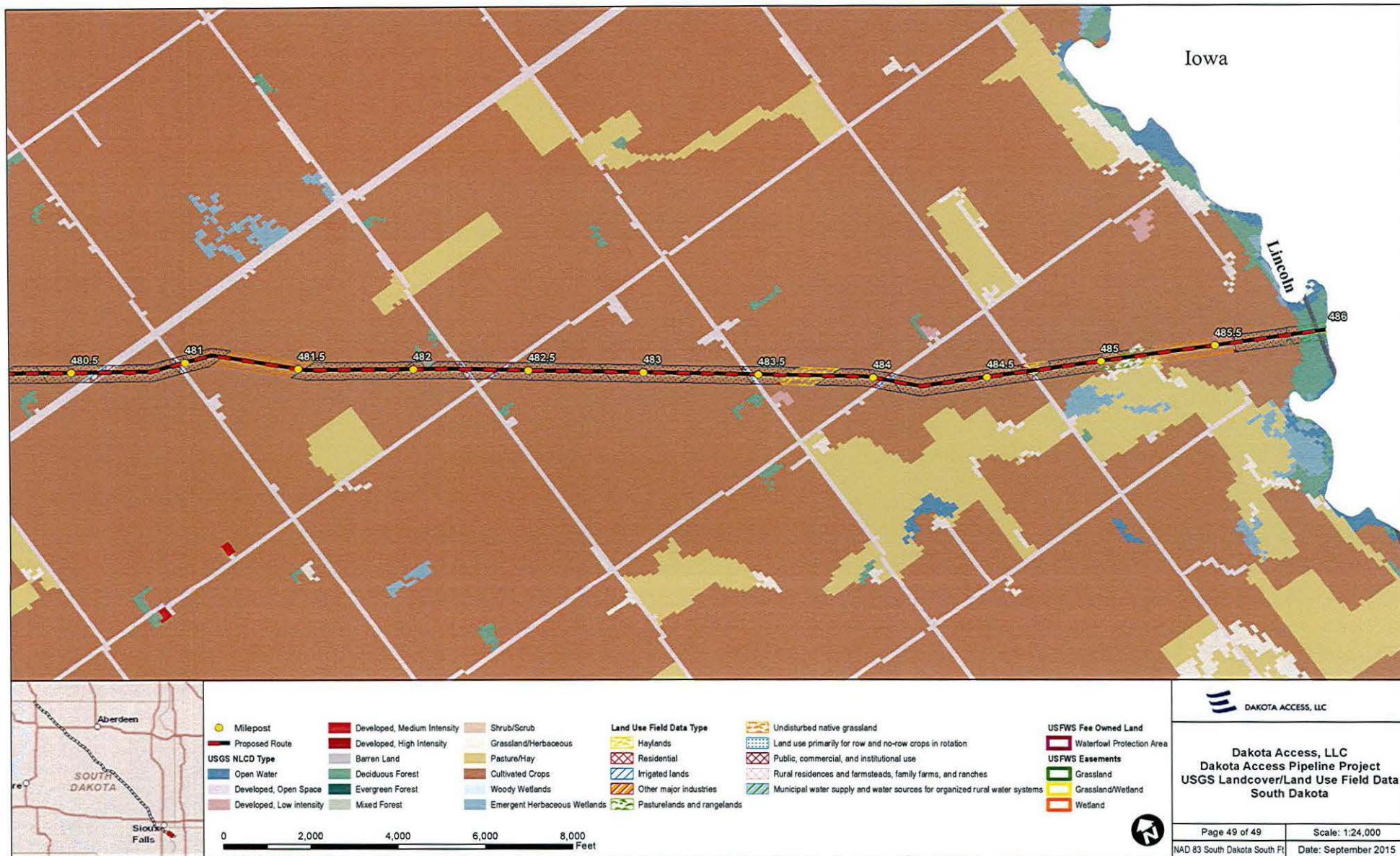
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Date: September 2015

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