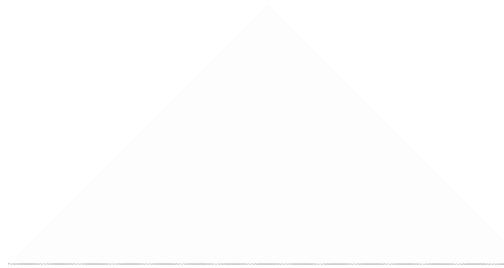
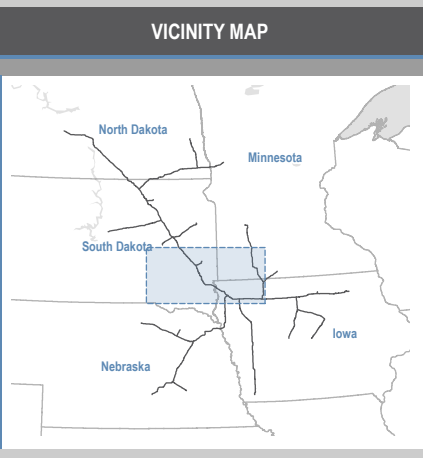
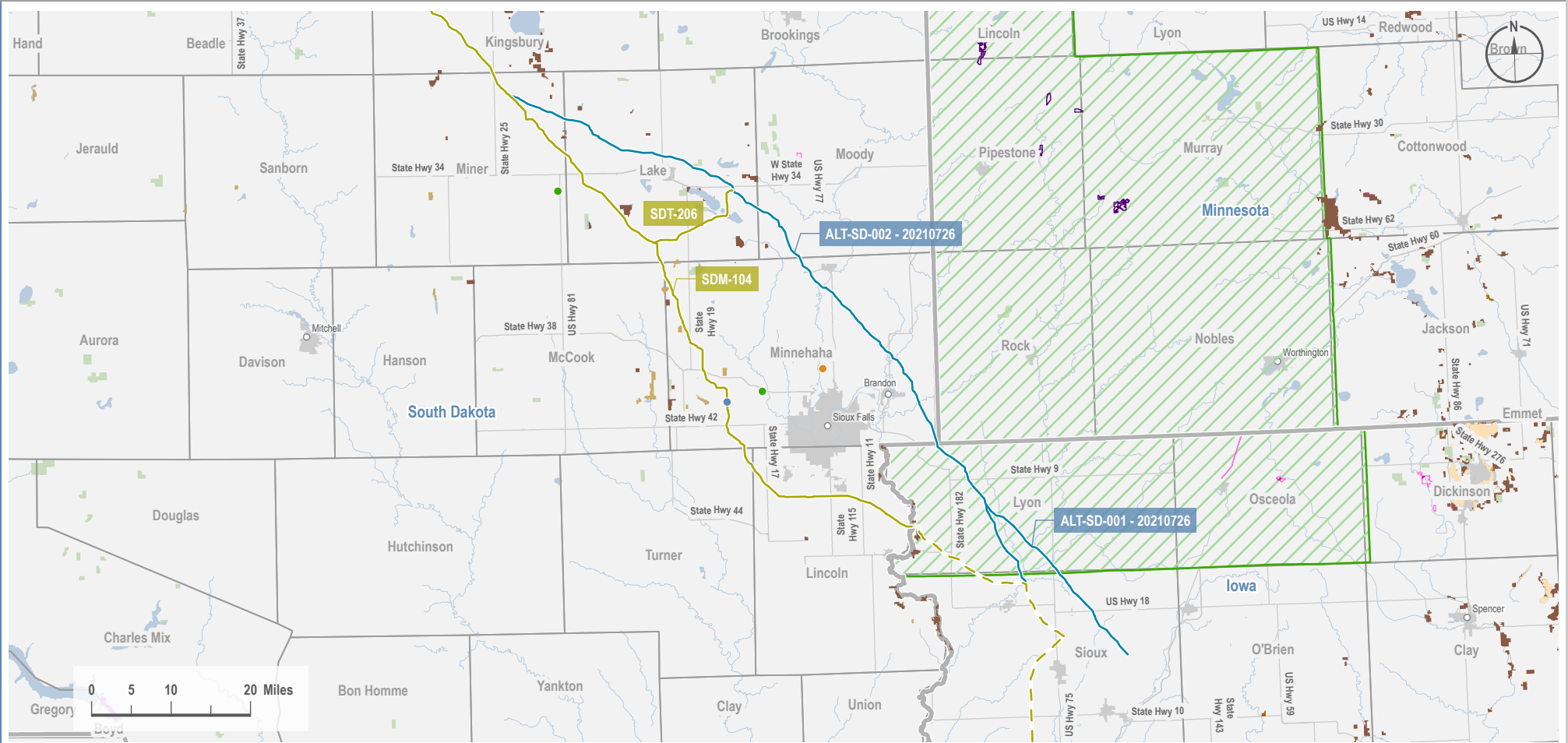


Appendix 4 - Route Alternatives



PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



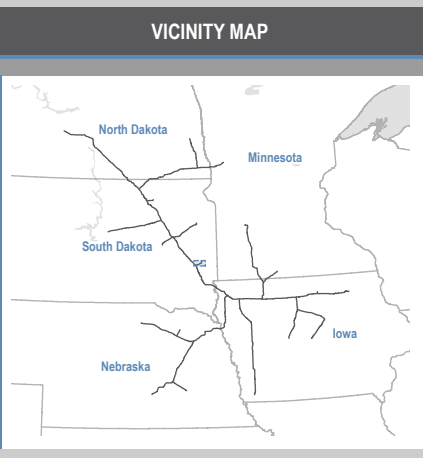
LEGEND	
Proposed Project Route (SD)	City / Town
Proposed Project Route (Other States)	County Boundary
Alternatives Eliminated From Further Consideration	State Boundary
Pump Station	Urban Area
Contractor Yard	USFWS Critical Habitat
Laydown Yard	Dakota Skipper
<p>Laydown and Contractor Yards are approximate locations and subject to change</p>	Piping Plover
<p>Pipeline Naming Convention [State Abbreviation][Line Designation] - [Line Number] (e.g. SDT-207) -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD) -Line Designation: Lateral (L), Main (M), Trunk (T) -Line Number: 3-digit series</p>	Poweshiek skipperling
	Topeka shiner
	River / Stream
	Waterbody
	Federal Land
	State & Local Conservation Lands
	Local Conservation Area
	Local Park
	Research or Educational Area
	State Conservation Area
	State Other or Unknown
	State Park
	State Recreation Area

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MIDWEST CARBON EXPRESS PROJECT	
Figure Title:	Route Alternatives South Dakota
Figure Number:	Figure 4-1: Alt-SD-001 & Alt-SD-002
Scale:	1 : 1,192,000 1 inch equals 18.81 miles
Projection:	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	1 of 4
Drawing Number:	0906-002-SD-ALT

EXHIBIT A-5

PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



LEGEND

Proposed Project Route (SD)	County Boundary	River / Stream
Proposed Project Route (Other States)	State Boundary	Waterbody
Alternatives Eliminated From Further Consideration	Urban Area	Federal Land
Pump Station	PLSS Township	State & Local Conservation Lands
Contractor Yard	Transportation (TIGER)	State Conservation Area
Laydown Yard	Primary or Secondary Road	State Recreation Area

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
 [State Abbreviation][Line Designation] - [Line Number]
 (e.g. SDT-207)
 -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)
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Figure Title:
Route Alternatives South Dakota

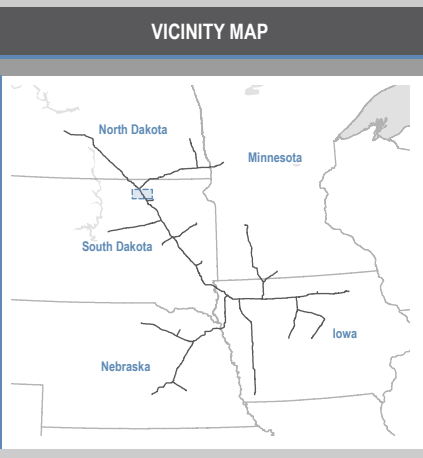
Figure Number:
Figure 4-2: Alt-SD-003, Alt-SD-004, & Alt-SD-005

Scale: 1 : 115,000 1 inch equals 1.82 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 2 2 of 4	Drawing Number: 0906-002-SD-ALT

EXHIBIT A-5

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PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



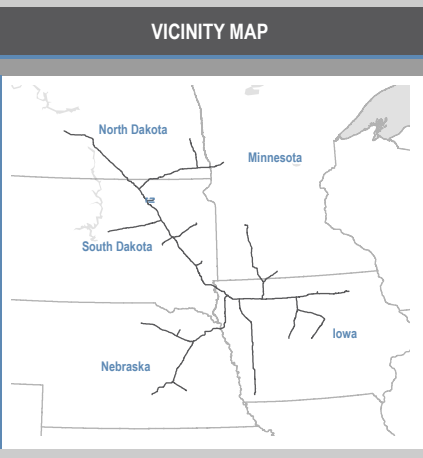
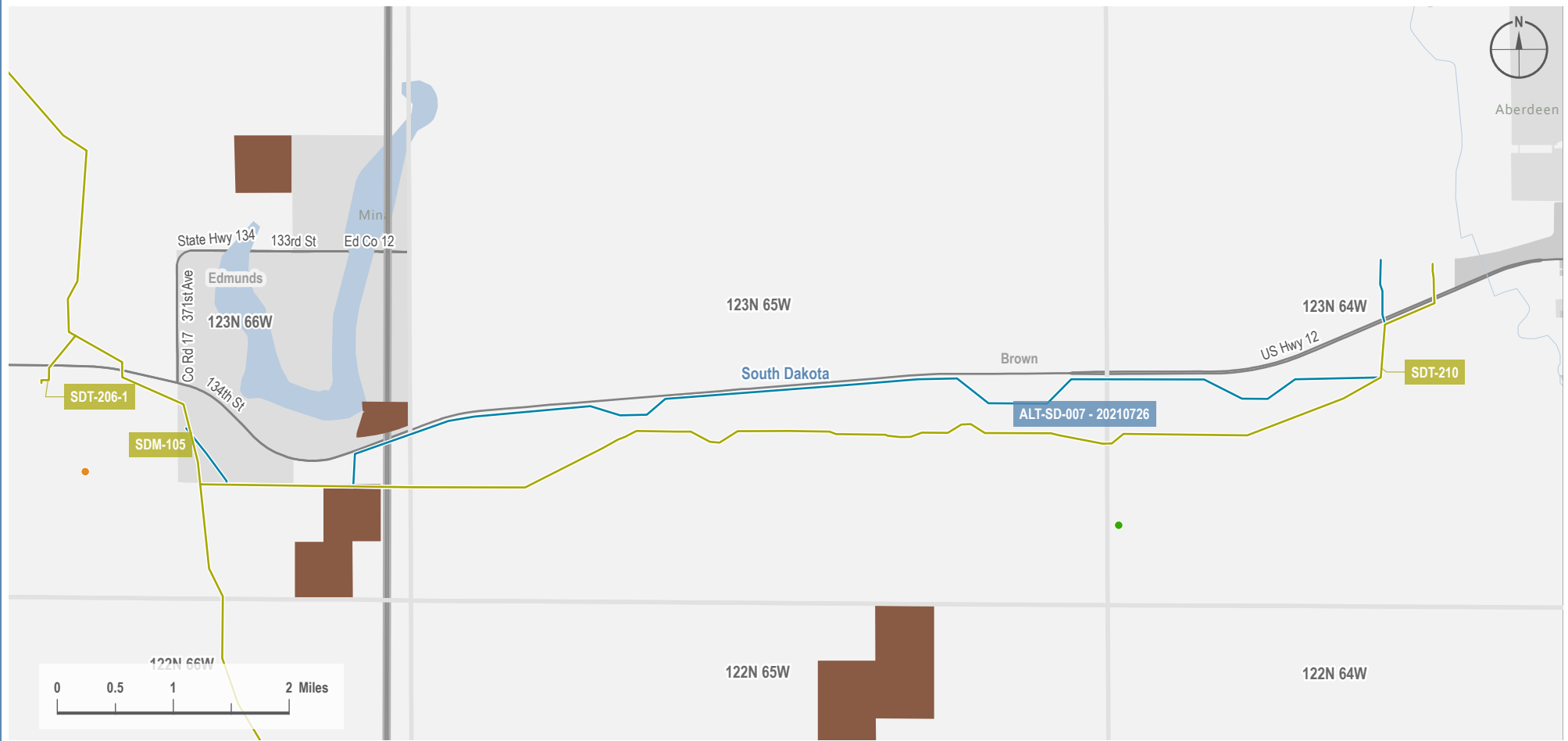
LEGEND	
Proposed Project Route (SD)	County Boundary
Proposed Project Route (Other States)	State Boundary
Alternatives Eliminated From Further Consideration	Urban Area
Pump Station	PLSS Township
Contractor Yard	Transportation (TIGER)
Laydown Yard	Primary or Secondary Road
River / Stream	Federal Land
Waterbody	State Conservation Area
State & Local Conservation Lands	State Recreation Area
Laydown and Contractor Yards are approximate locations and subject to change	
Pipeline Naming Convention [State Abbreviation][Line Designation] - [Line Number] (e.g. SDT-207)	
-State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)	
-Line Designation: Lateral (L), Main (M), Trunk (T)	
-Line Number: 3-digit series	

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MIDWEST CARBON EXPRESS PROJECT	
Figure Title:	Route Alternatives South Dakota
Figure Number:	Figure 4-3: Alt-SD-006
Scale:	Projection:
1 : 200,000 1 inch equals 3.16 miles	Transverse Mercator NAD 1983 UTM Zone 14N
Sheet:	Drawing Number:
3 3 of 4	0906-002-SD-ALT EXHIBIT A-5

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PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



LEGEND

Proposed Project Route (SD)	County Boundary	River / Stream
Proposed Project Route (Other States)	State Boundary	Waterbody
Alternatives Eliminated From Further Consideration	Urban Area	Federal Land
Pump Station	PLSS Township	State & Local Conservation Lands
Contractor Yard	Transportation (TIGER)	State Conservation Area
Laydown Yard	Primary or Secondary Road	

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
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 (e.g. SDT-207)
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 -Line Number: 3-digit series

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MIDWEST CARBON EXPRESS PROJECT

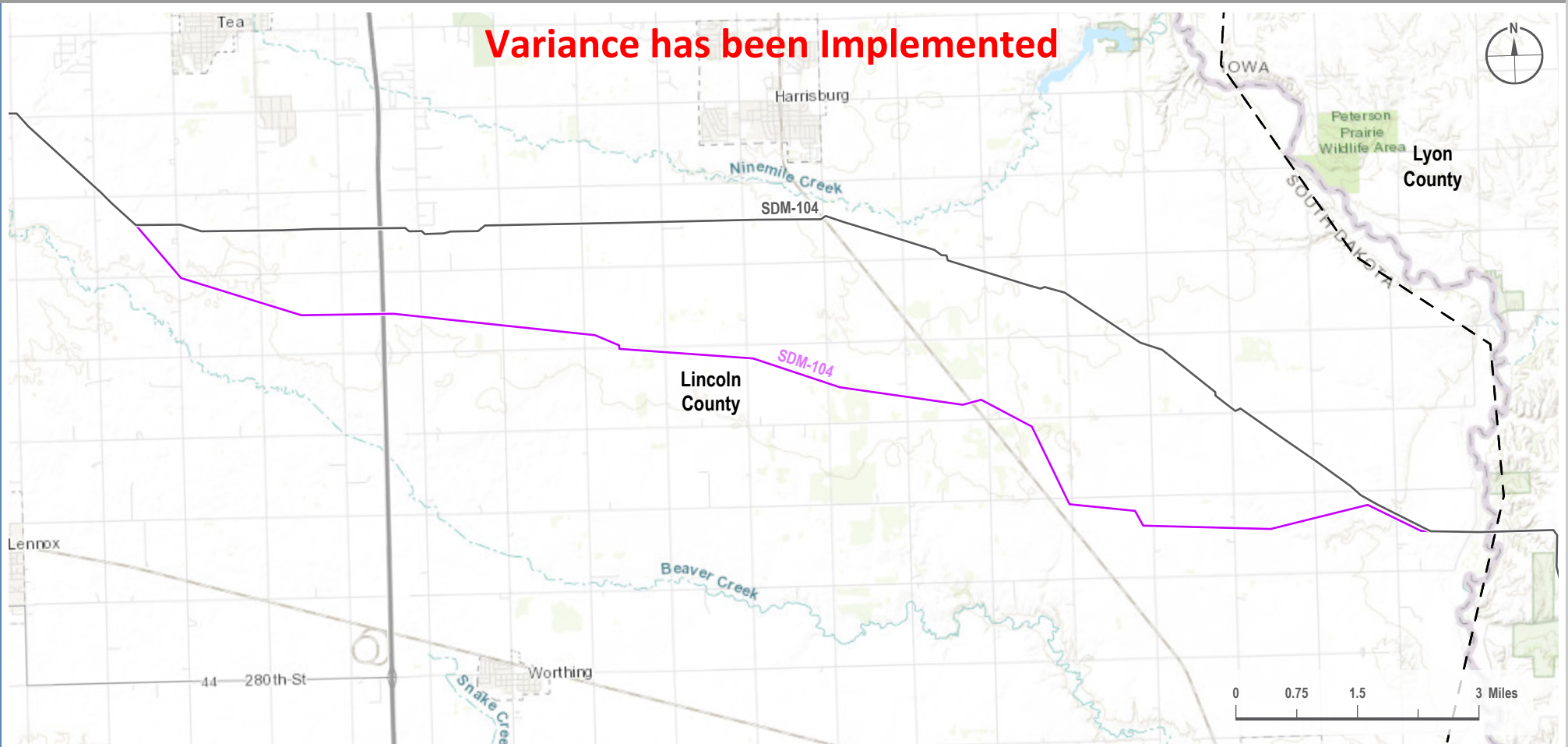
Figure Title:
Route Alternatives South Dakota

Figure Number:
Figure 4-4: Alt-SD-007

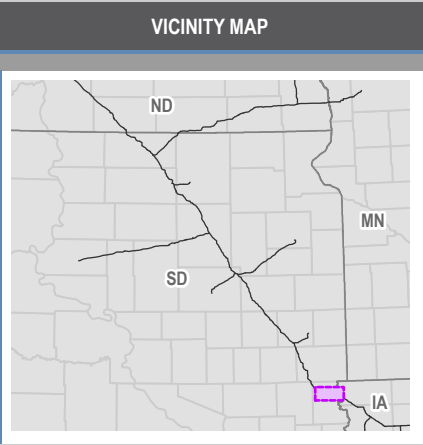
Scale: 1 : 82,000 1 inch equals 1.29 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 4 4 of 4	Drawing Number: 0906-002-SD-ALT A-5

Path: I:\Projects\21015451-00 - SummitCarbon - MCE Project\0800 GEOID_10_Mapping\01 Map Books\05 Regulatory\0101-06-006 South Dakota PLCC Alt Routes.aprx

ALTERNATIVES UNDER ACTIVE CONSIDERATION



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LEGEND

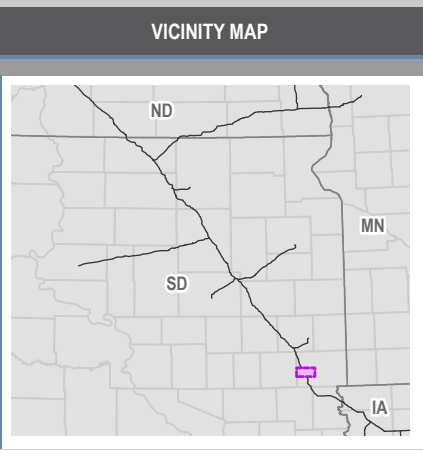
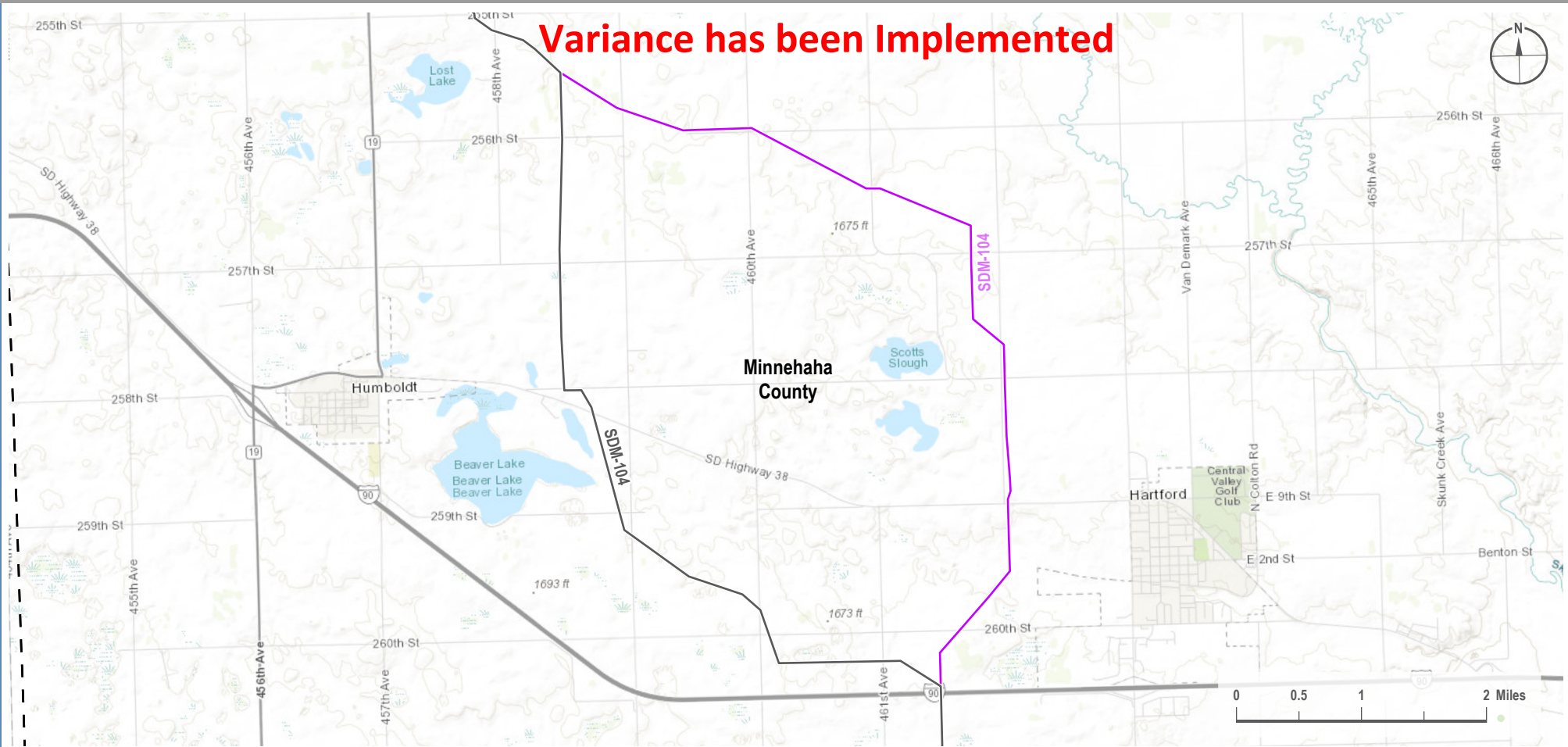
- Proposed Project Route
- Alternative Under Active Consideration
- - - County Line

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
 [State Abbreviation][Line Designation] - [Line Number]
 (e.g. SDT-207)
 -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)
 -Line Designation: Lateral (L), Main (M), Trunk (T)
 -Line Number: 3-digit series

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MIDWEST CARBON EXPRESS PROJECT	
Figure Title: Alternatives Under Active Consideration	
Figure Number: Figure 4-5	
Scale: 1 : 117,000 1 inch equals 1.85 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 1 1 of 7	Drawing Number: 1002-06-002 EXHIBIT A-5



LEGEND

- Proposed Project Route
- Alternative Under Active Consideration
- County Line
- Contractor Yard

Laydown and Contractor Yards are approximate locations and subject to change

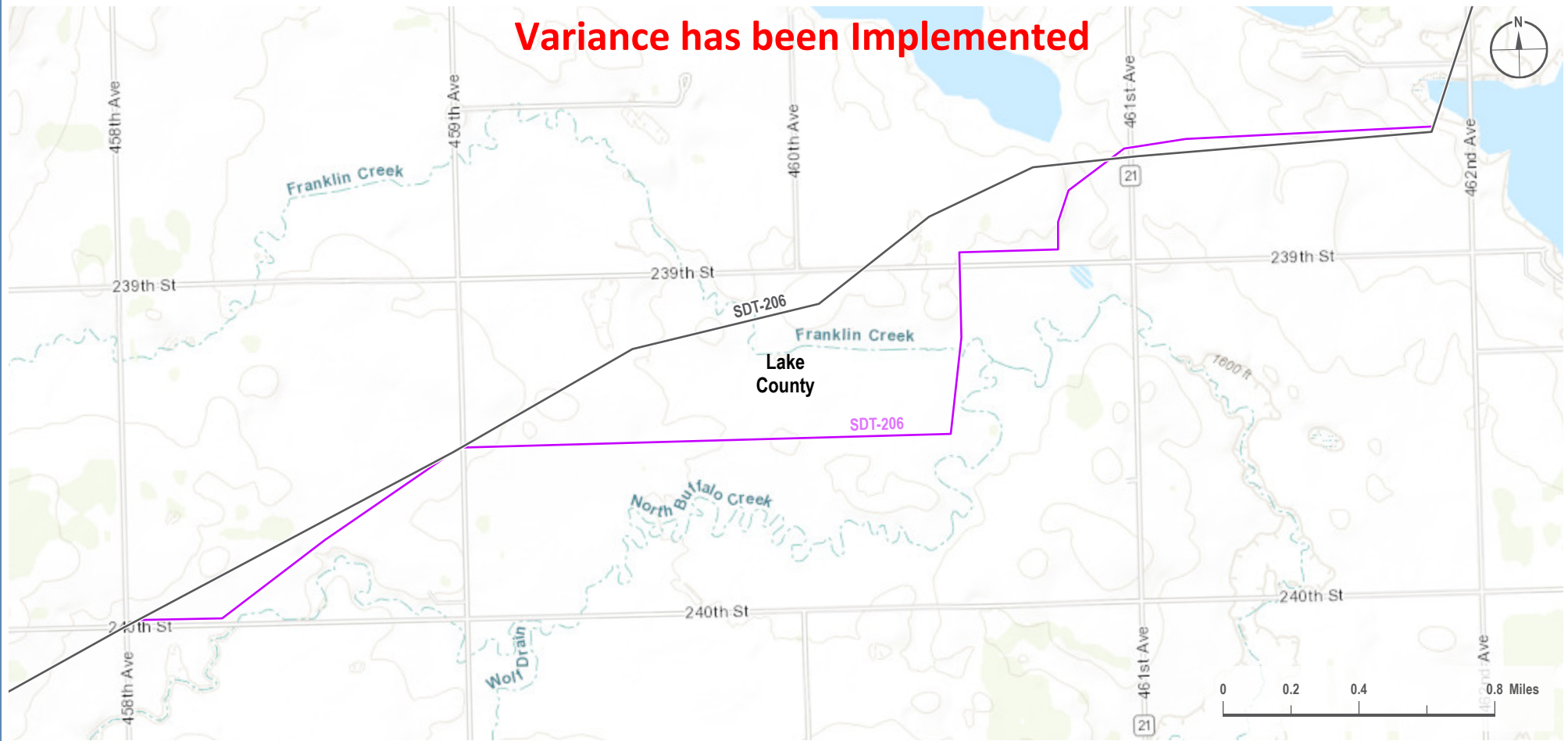
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 (e.g. SDT-207)
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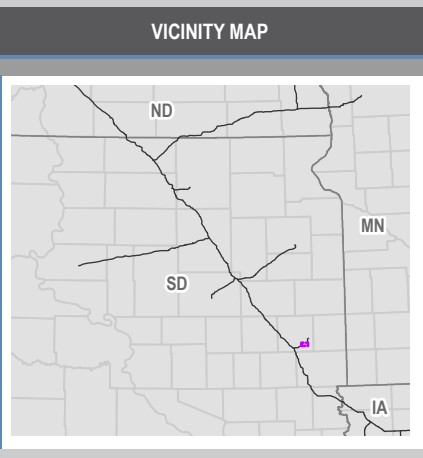
MIDWEST CARBON EXPRESS PROJECT	
Figure Title: Alternatives Under Active Consideration	
Figure Number: Figure 4-6	
Scale: 1 : 76,000 1 inch equals 1.2 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 2 2 of 7	Drawing Number: 1002-06-002 EXHIBIT A5

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Variance has been Implemented



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LEGEND

- Proposed Project Route
- Alternative Under Active Consideration

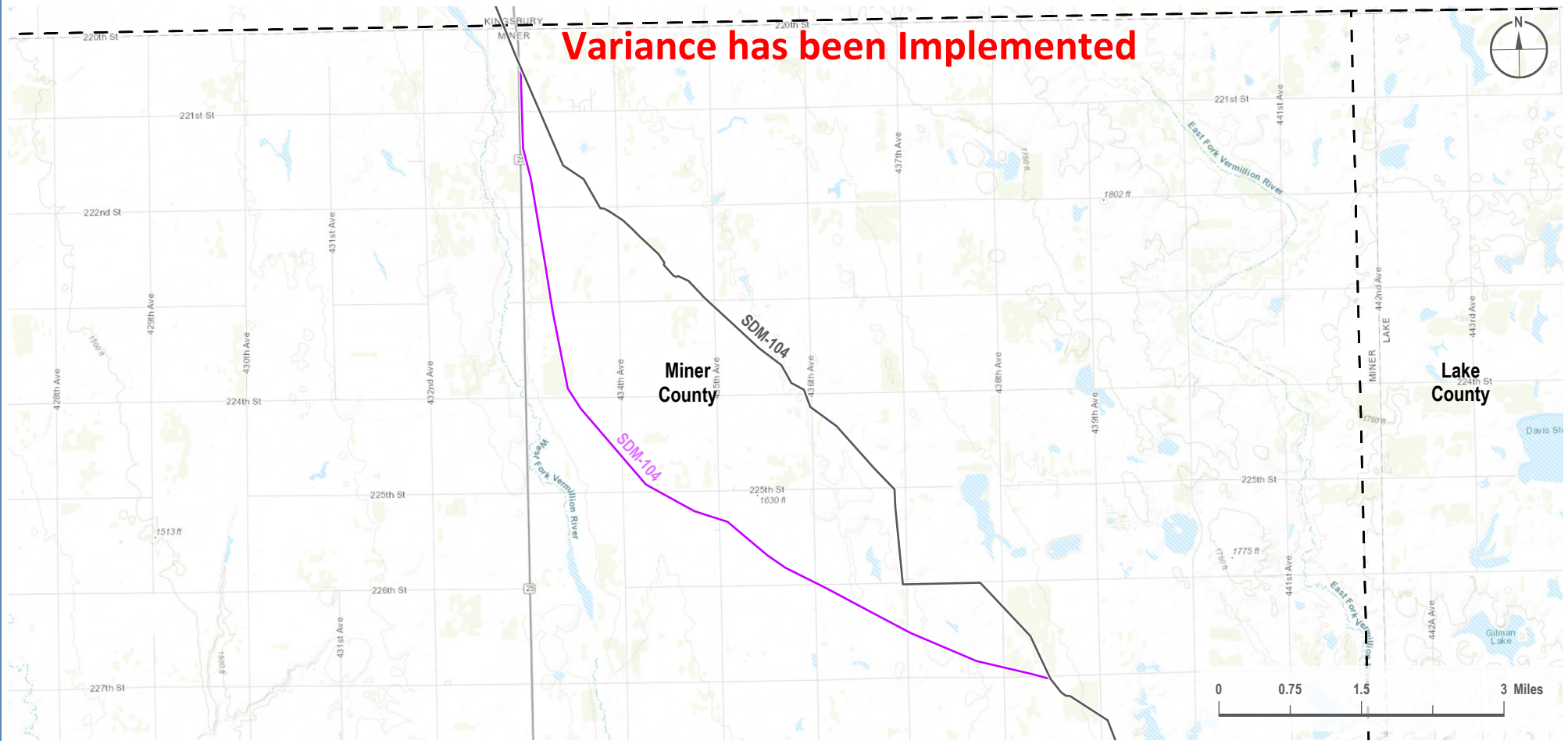
Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
 [State Abbreviation][Line Designation] - [Line Number]
 (e.g. SDT-207)
 -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)
 -Line Designation: Lateral (L), Main (M), Trunk (T)
 -Line Number: 3-digit series

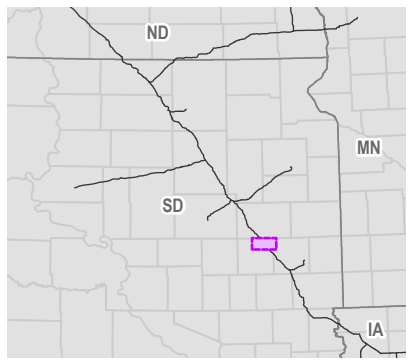
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MIDWEST CARBON EXPRESS PROJECT	
Figure Title: Alternatives Under Active Consideration	
Figure Number: Figure 4-7	
Scale: 1 : 28,000 1 inch equals 0.44 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 3 3 of 7	Drawing Number: 1002-06-002 A.5

ALTERNATIVES UNDER ACTIVE CONSIDERATION



VICINITY MAP



LEGEND

- Proposed Project Route
 - Alternative Under Active Consideration
 - County Line
- Laydown and Contractor Yards are approximate locations and subject to change
- Pipeline Naming Convention
 [State Abbreviation][Line Designation] - [Line Number]
 (e.g. SDT-207)
 -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)
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MIDWEST CARBON EXPRESS PROJECT

Figure Title:
Alternatives Under Active Consideration

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Figure Number: **Figure 4-8**

Scale:
1 : 100,000
 1 inch equals 1.58 miles

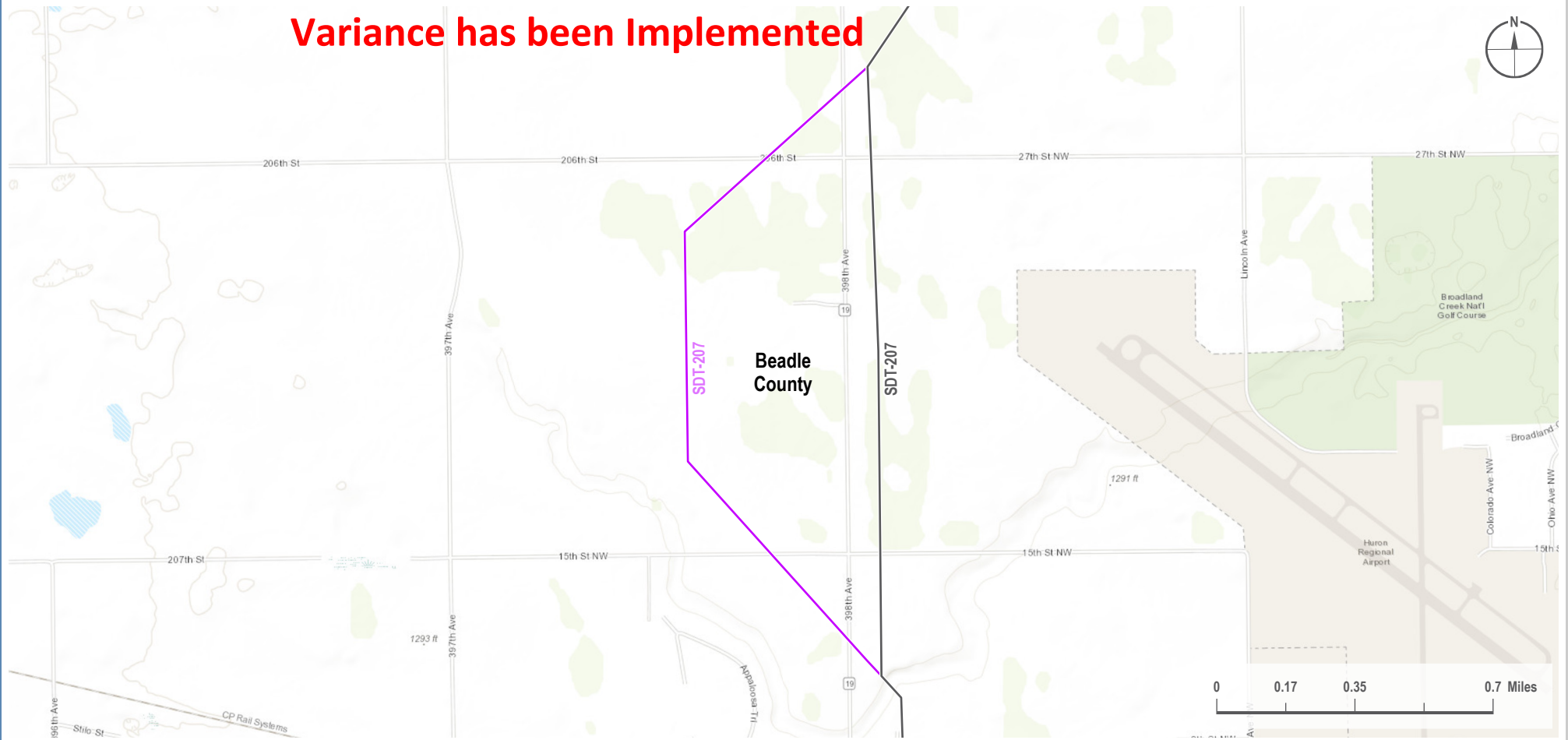
Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
4
 4 of 7

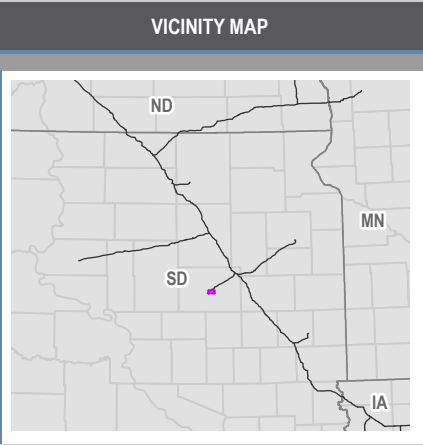
Drawing Number:
1002-06-002
 4 of 7

EXHIBIT A5

Variance has been Implemented



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LEGEND

- Proposed Project Route
- Alternative Under Active Consideration

Laydown and Contractor Yards are approximate locations and subject to change

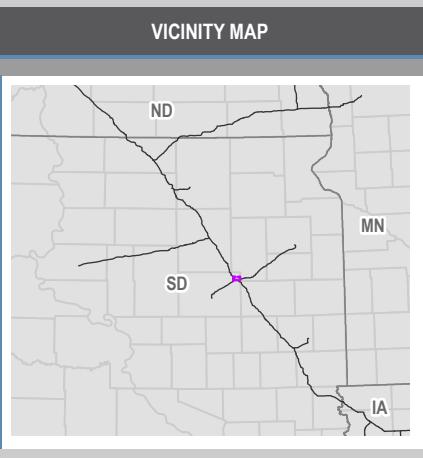
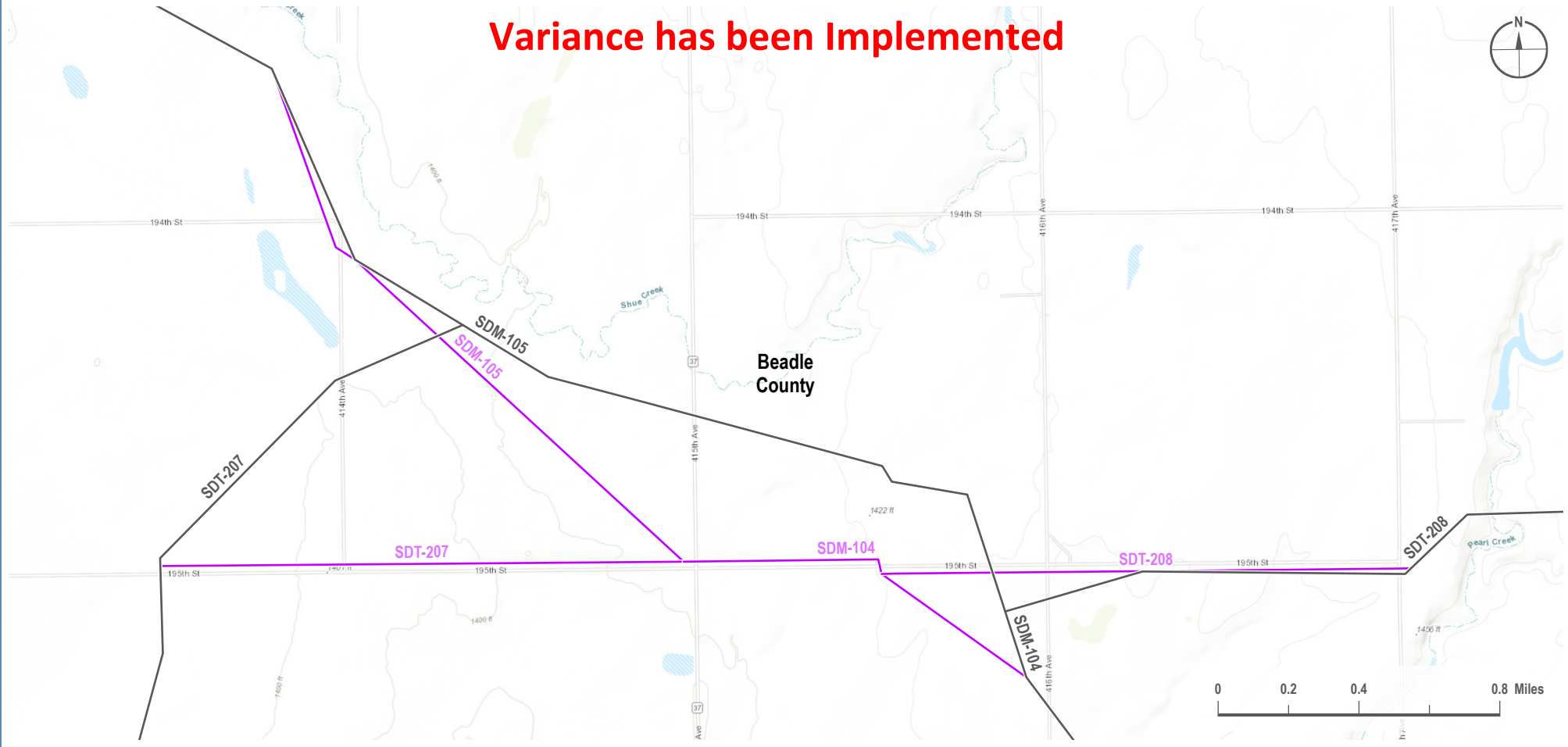
Pipeline Naming Convention
 [State Abbreviation][Line Designation] - [Line Number]
 (e.g. SDT-207)
 -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)
 -Line Designation: Lateral (L), Main (M), Trunk (T)
 -Line Number: 3-digit series

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MIDWEST CARBON EXPRESS PROJECT	
Figure Title: Alternatives Under Active Consideration	
Figure Number: Figure 4-9	
Scale: 1 : 24,000 1 inch equals 0.38 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 5 5 of 7	Drawing Number: 1002-06-002 A5

EXHIBIT A5

Variance has been Implemented



LEGEND

- Proposed Project Route
- Alternative Under Active Consideration

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
 [State Abbreviation][Line Designation] - [Line Number]
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MIDWEST CARBON EXPRESS PROJECT

Figure Title:
Alternatives Under Active Consideration

Figure Number:
Figure 4-10

Scale:
1 : 27,000
 1 inch equals 0.43 miles

Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

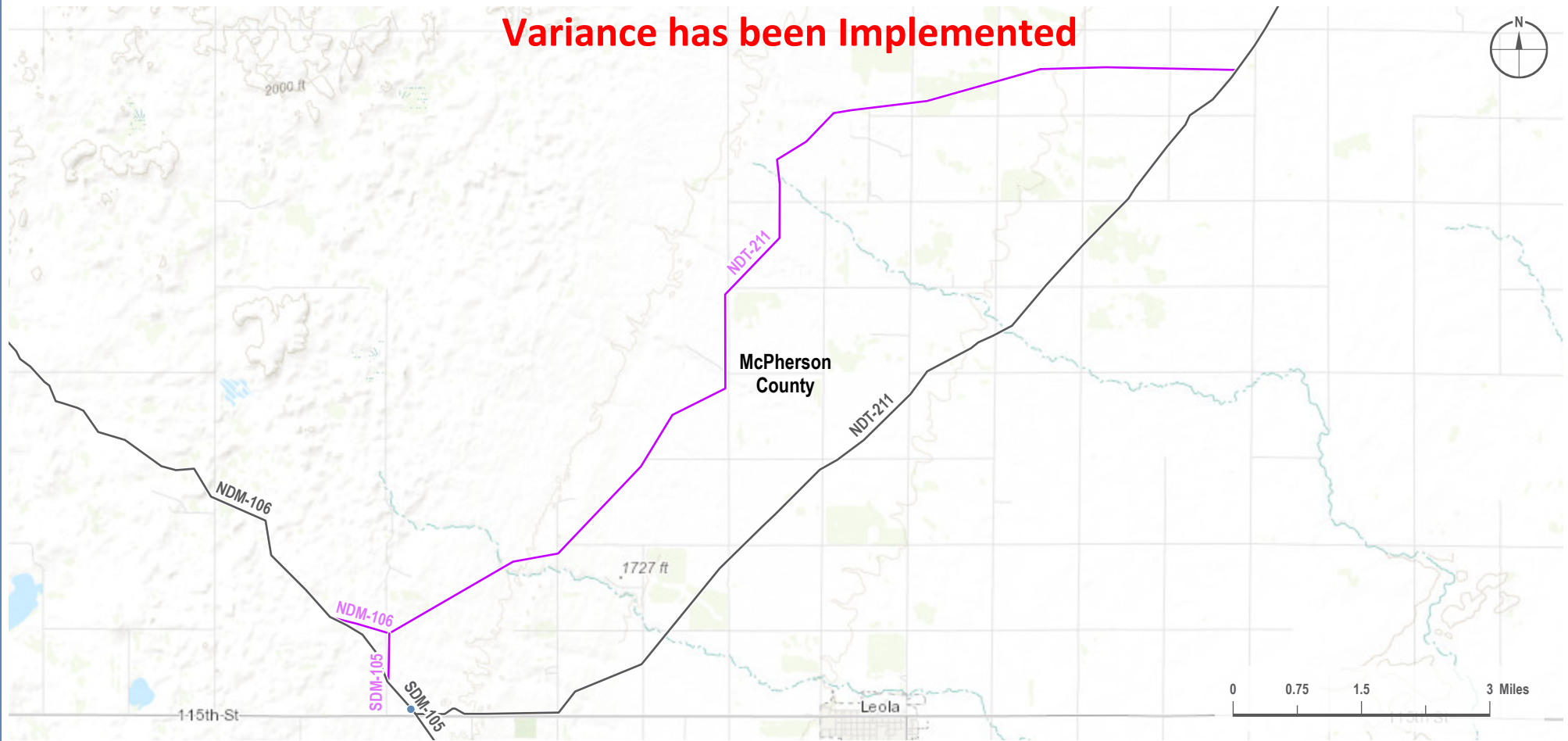
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Drawing Number:
1002-06-002

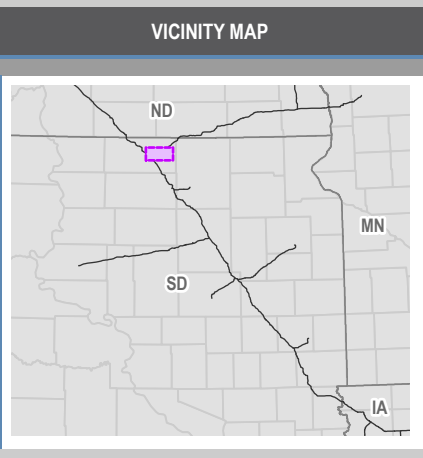
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LEGEND

- Proposed Project Route
- Alternative Under Active Consideration
- Pump Station

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
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MIDWEST CARBON EXPRESS PROJECT	
Figure Title: Alternatives Under Active Consideration	
Figure Number: Figure 4-11	
Scale: 1 : 111,000 1 inch equals 1.75 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 7 7 of 7	Drawing Number: 1002-06-002 EXHIBIT A5