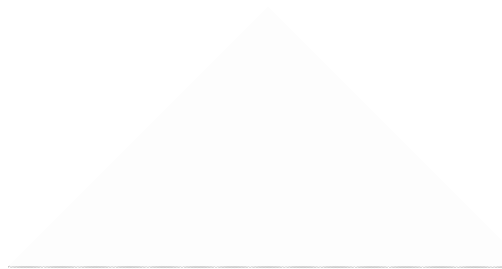
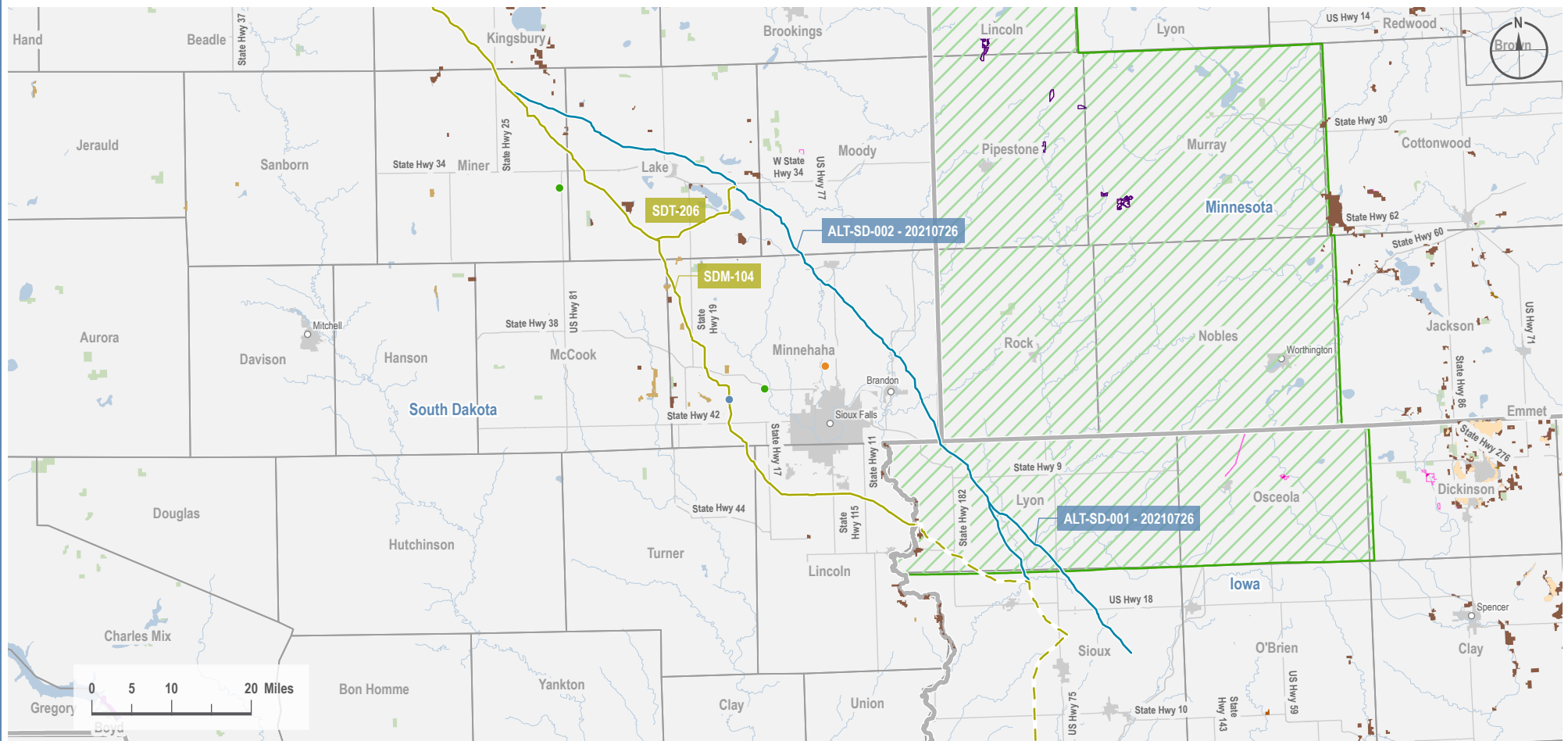


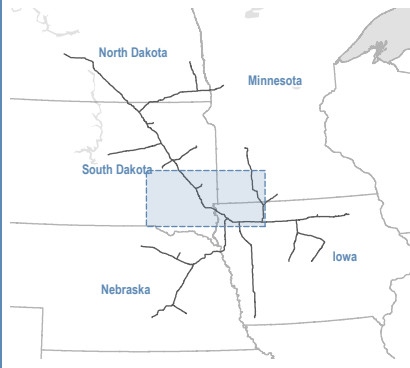
Appendix 4 - Route Alternatives



PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



VICINITY MAP



LEGEND

- Proposed Project Route (SD)
- Proposed Project Route (Other States)
- Alternatives Eliminated From Further Consideration
- Pump Station
- Contractor Yard
- Laydown Yard
- Laydown and Contractor Yards are approximate locations and subject to change
- Pipeline Naming Convention
[State Abbreviation][Line Designation] - [Line Number]
(e.g. S-DT-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
- City / Town
- County Boundary
- State Boundary
- Urban Area
- USFWS Critical Habitat
- Dakota Skipper
- Piping Plover
- 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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Checked by: PD

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Checked by:

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

Sheet:

1
1 of 4

Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Drawing Number:

0906-002-SD-ALT
Revision 0

PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



VICINITY MAP



LEGEND

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

Route Alternatives
South Dakota

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

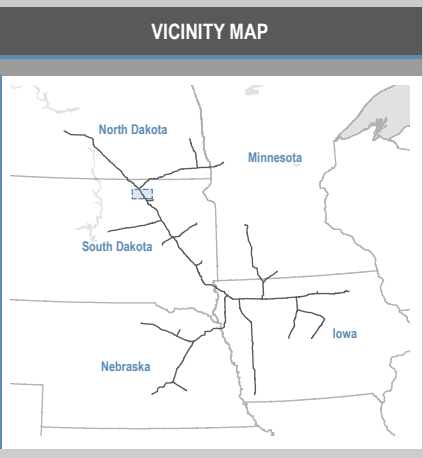
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1 inch equals 1.82 miles

Sheet:
2
2 of 4

Projection:
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NAD 1983 UTM Zone 14N

Drawing Number:
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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	State Recreation Area

Laydown and Contractor Yards are approximate locations and subject to change

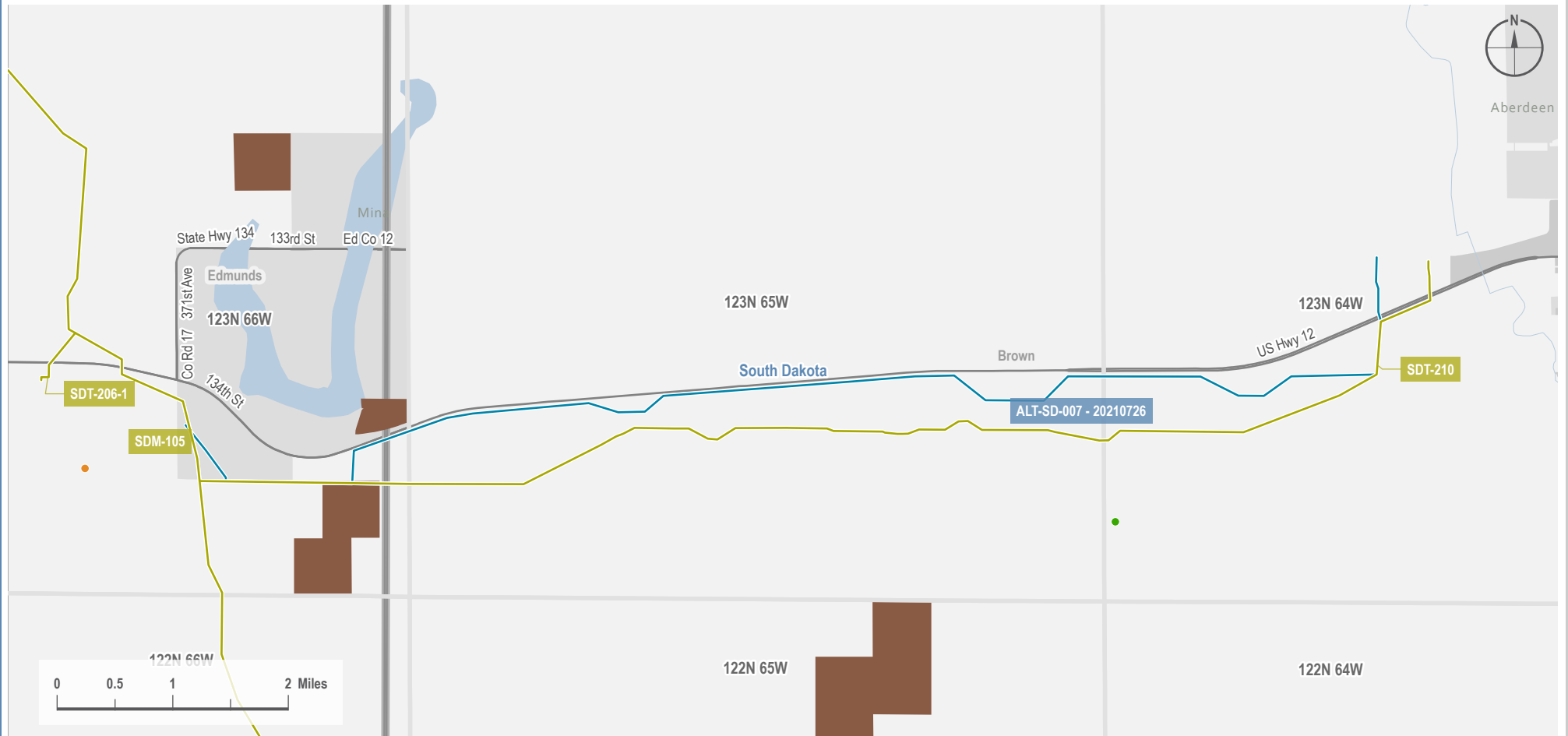
Pipeline Naming Convention
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 (e.g. SDT-207)
 -State Abbreviation: Iowa (IA), Minnesota (MN), North Dakota (ND), South Dakota (SD)
 -Line Designation: Lateral (L), Main (M), Trunk (T)
 -Line Number: 3-digit series

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MIDWEST CARBON EXPRESS PROJECT	
Figure Title: Route Alternatives South Dakota	
Figure Number: Figure 4-3: Alt-SD-006	
Scale: 1 : 200,000 1 inch equals 3.16 miles	Projection: Transverse Mercator NAD 1983 UTM Zone 14N
Sheet: 3 3 of 4	Drawing Number: 0906-002-SD-ALT Revision 0

Path: I:\Projects\ML-21015451-00 - SummitCarbon - NCE Project\0800 GEO10_Mapping\01 Map Books\05 Regulatory\1001-06-006 South Dakota PUC Alt Routes.aprx

PROJECT ALTERNATIVES MAP - SOUTH DAKOTA



VICINITY MAP



LEGEND

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

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
[State Abbreviation][Line Designation] - [Line Number]
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-Line Number: 3-digit series

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Figure Title:

Route Alternatives
South Dakota

Figure Number:

Figure 4-4: Alt-SD-007

Scale:

1 : 82,000
1 inch equals 1.29 miles

Sheet:

4
4 of 4

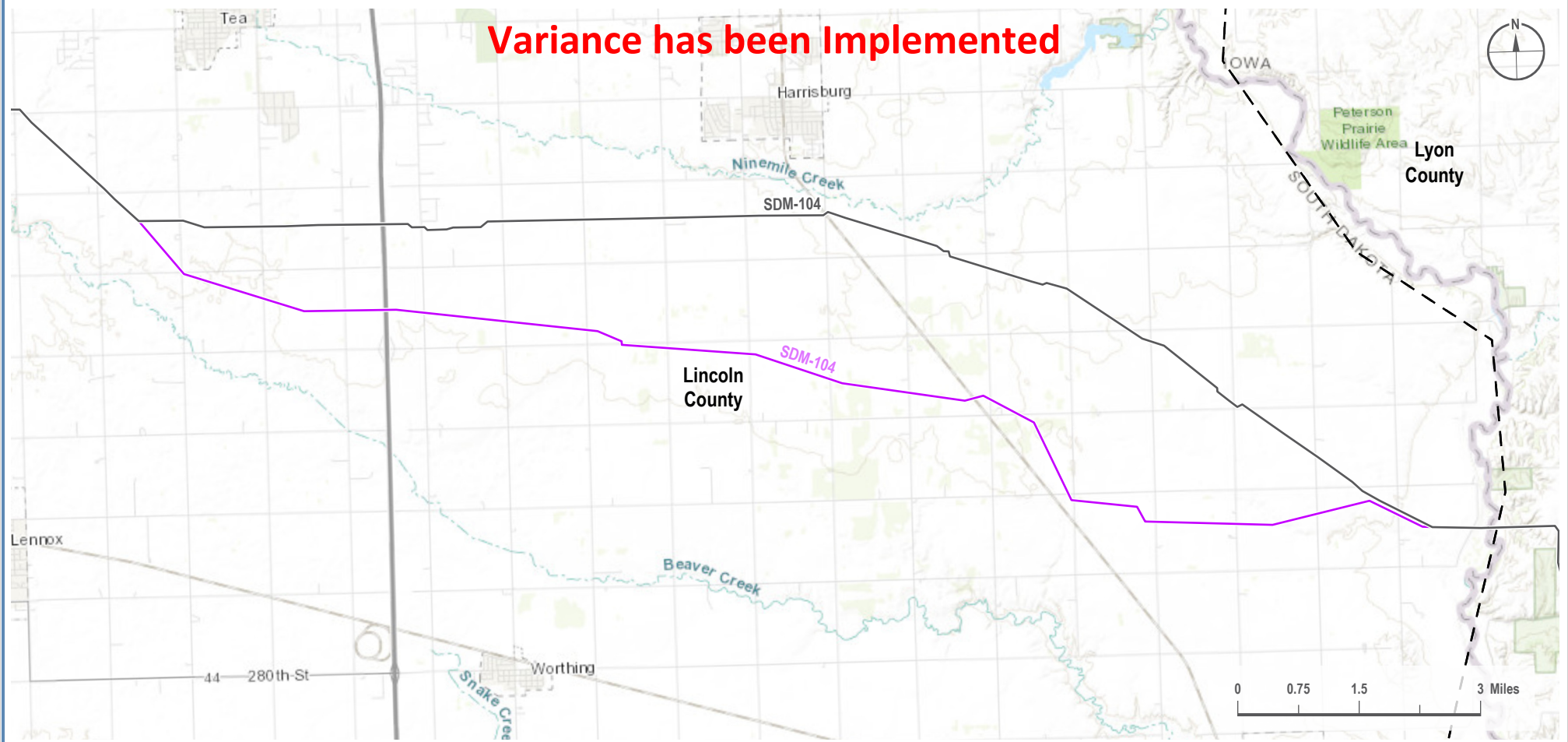
Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

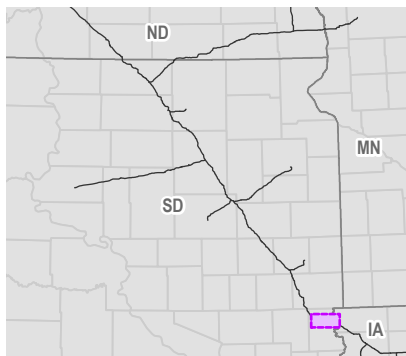
Drawing Number:

0906-002-SD-ALT
Revision 0

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)
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-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

Sheet:

1
1 of 7

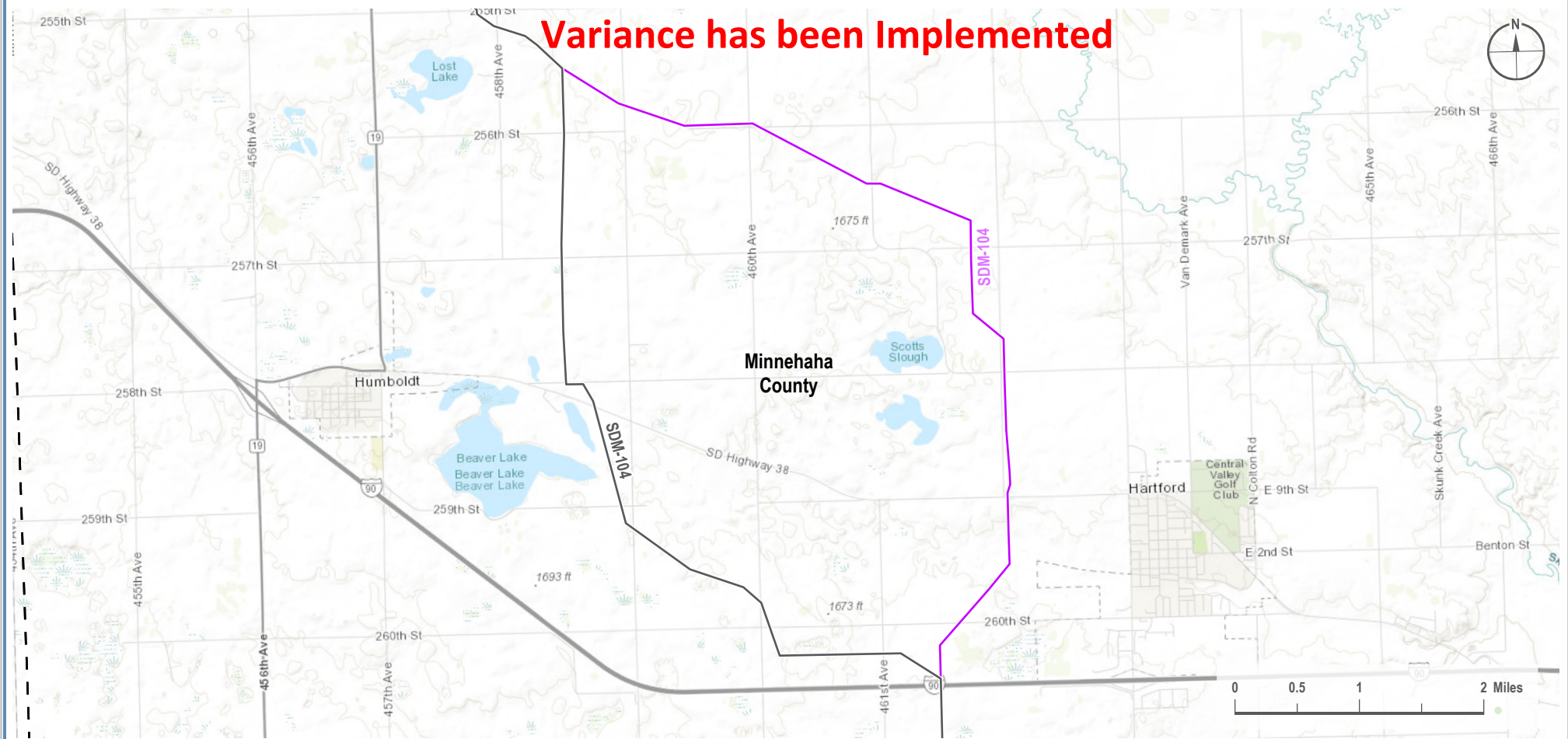
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NAD 1983 UTM Zone 14N

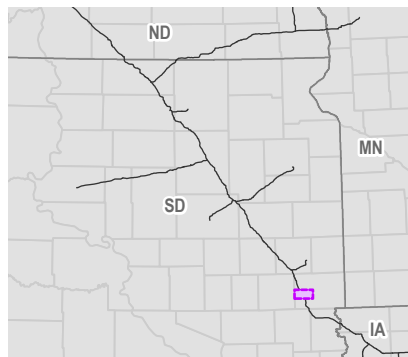
Drawing Number:

1002-06-002
Revision 0

ALTERNATIVES UNDER ACTIVE CONSIDERATION



VICINITY MAP



LEGEND

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

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
[State Abbreviation][Line Designation] - [Line Number]
(e.g. SDT-207)
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-Line Designation: Lateral (L), Main (M), Trunk (T)
-Line Number: 3-digit series

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Figure Title:

Alternatives Under Active Consideration

Figure Number:

Figure 4-6

Scale:

1 : 76,000
1 inch equals 1.2 miles

Sheet:

2
2 of 7

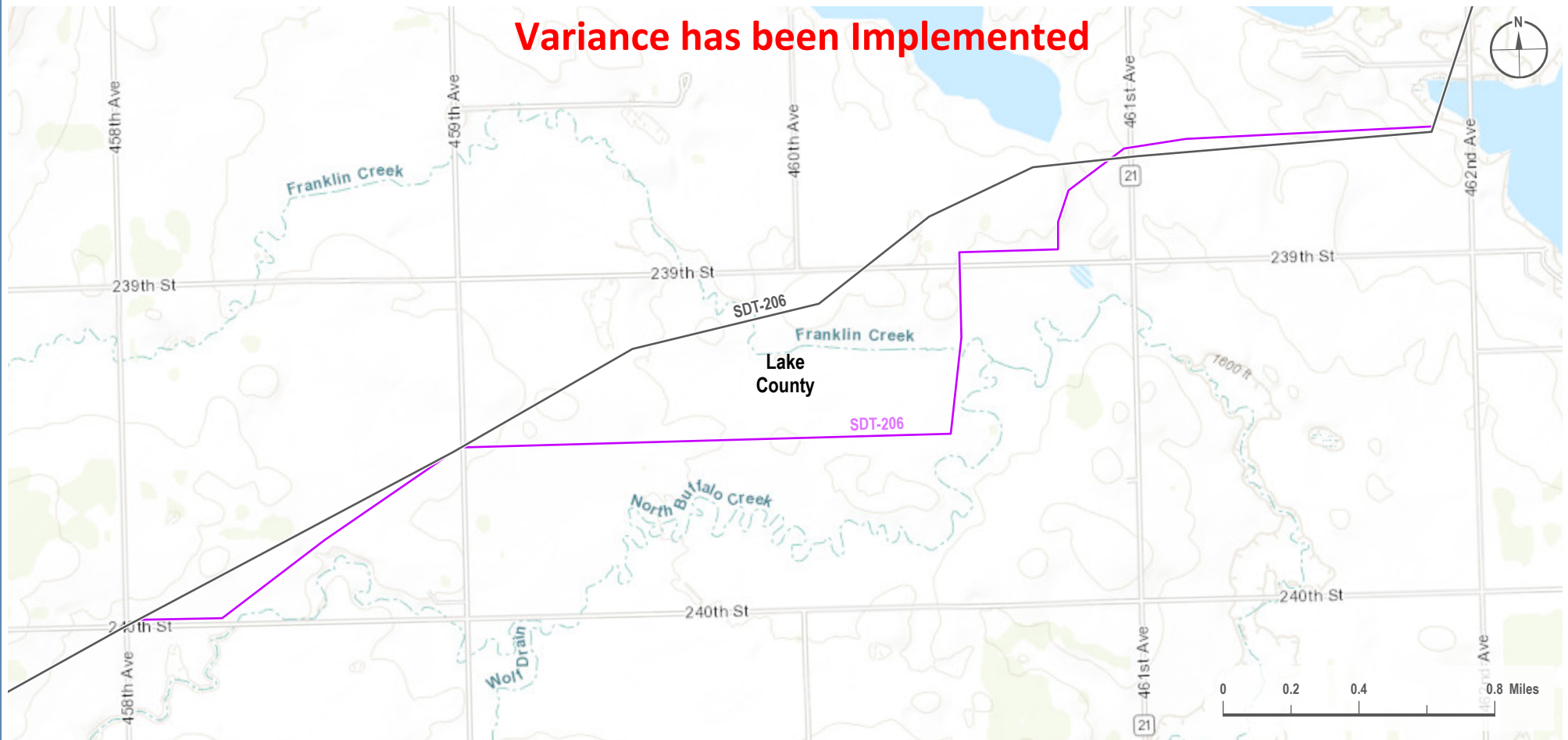
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NAD 1983 UTM Zone 14N

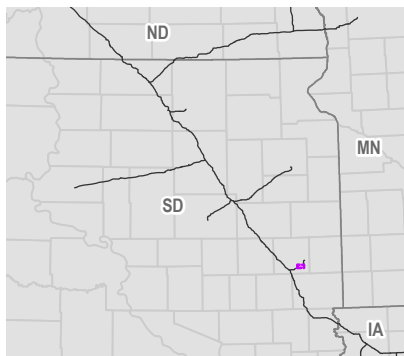
Drawing Number:

1002-06-002
Revision 0

Variance has been Implemented



VICINITY MAP



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)
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Figure Title:

Alternatives Under Active Consideration

Figure Number:

Figure 4-7

Scale:

1 : 28,000
1 inch equals 0.44 miles

Sheet:

3
3 of 7

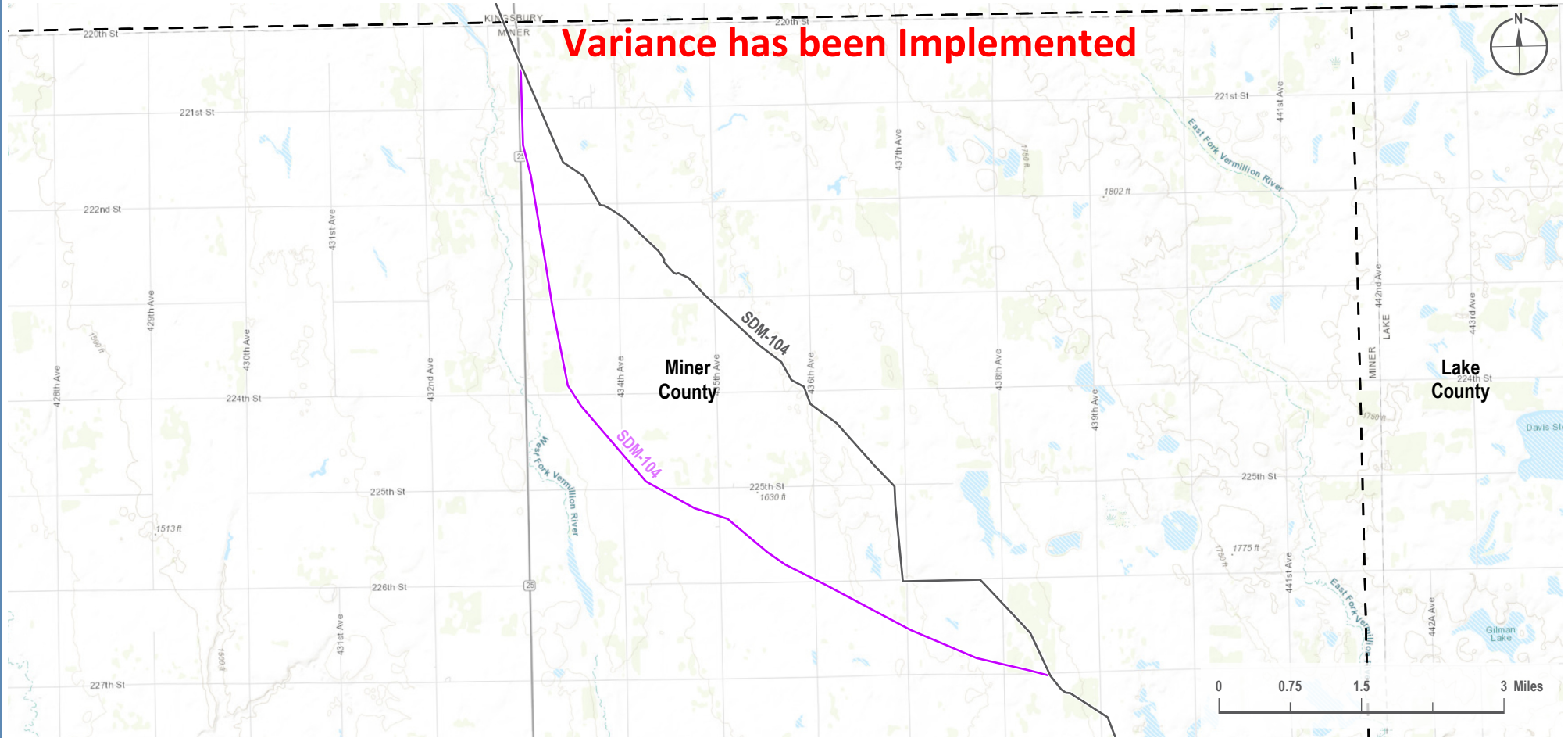
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NAD 1983 UTM Zone 14N

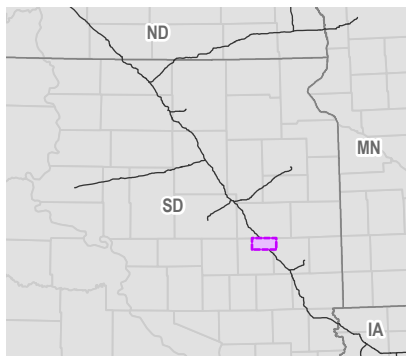
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ALTERNATIVES UNDER ACTIVE CONSIDERATION



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)
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-Line Number: 3-digit series

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Figure Title:

Alternatives Under Active Consideration

Figure Number:

Figure 4-8

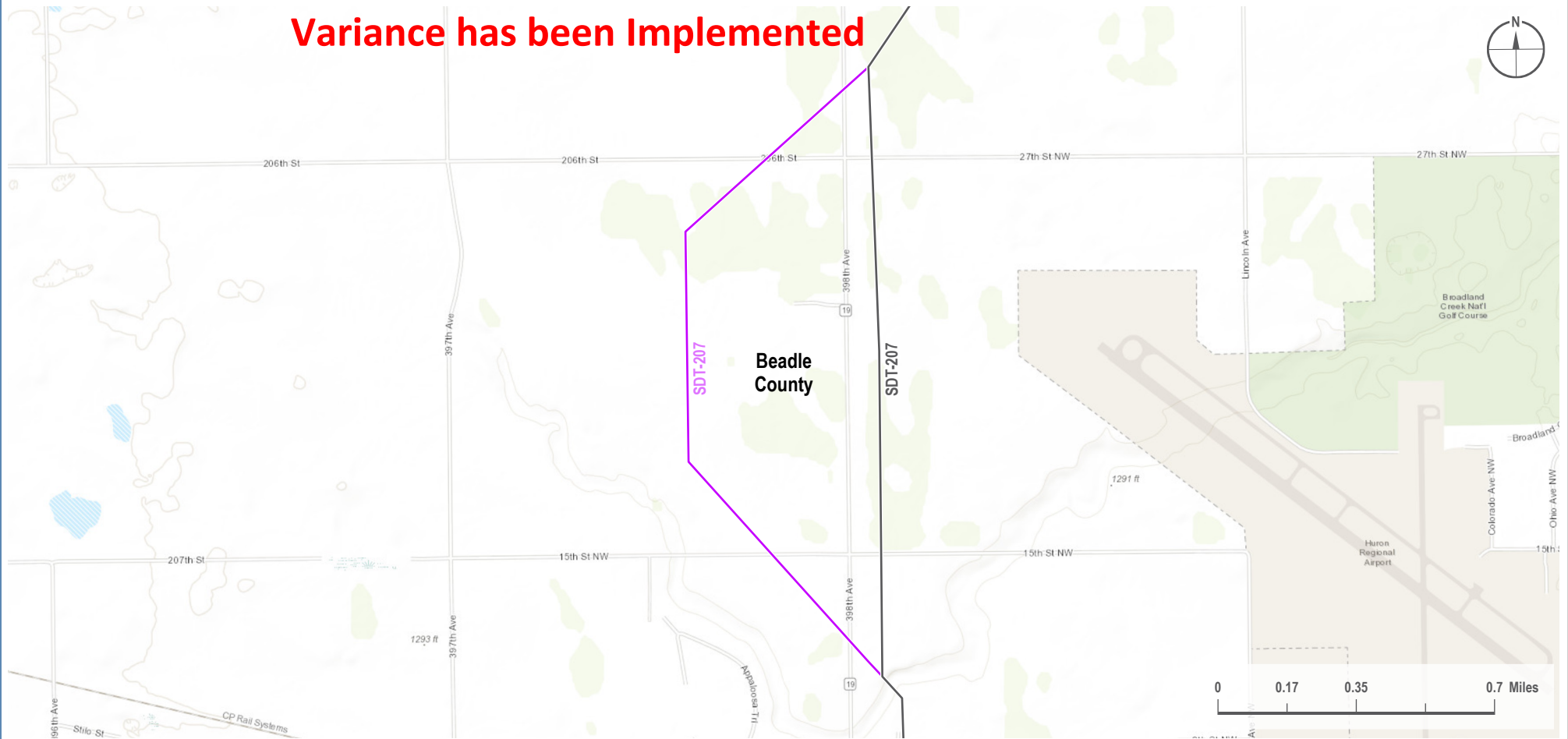
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1 inch equals 1.58 miles

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

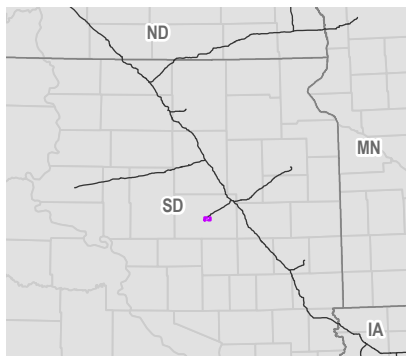
Sheet:
4
4 of 7

Drawing Number:
1002-06-002
Revision 0

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VICINITY MAP



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)
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Figure Title:

Alternatives Under Active Consideration

Figure Number:

Figure 4-9

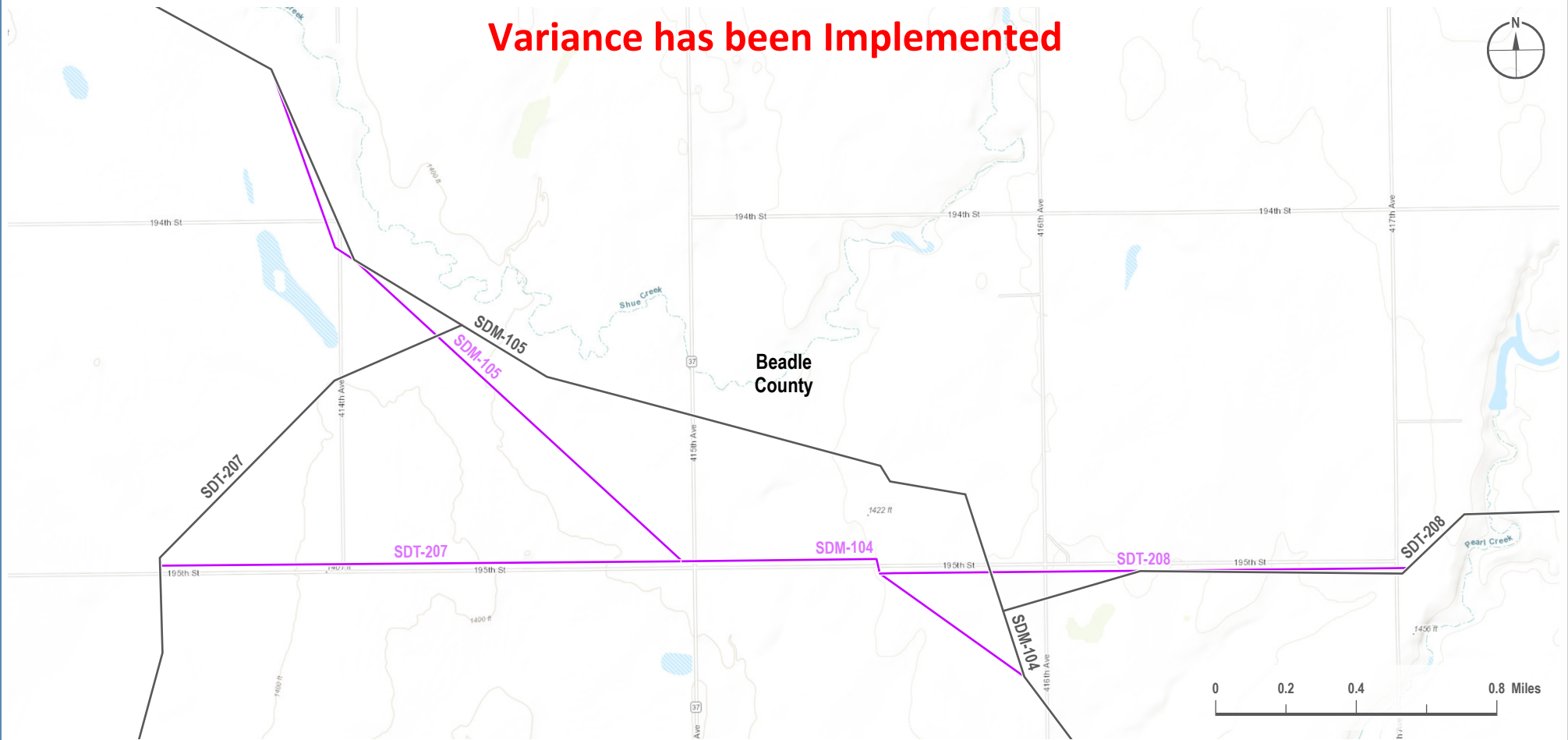
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1 inch equals 0.38 miles

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

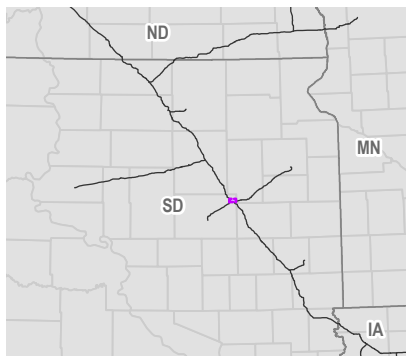
Sheet:
5
5 of 7

Drawing Number:
1002-06-002
Revision 0

Variance has been Implemented



VICINITY MAP



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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Figure Title:

Alternatives Under Active Consideration

Figure Number:

Figure 4-10

Scale:

1 : 27,000
1 inch equals 0.43 miles

Sheet:

6
6 of 7

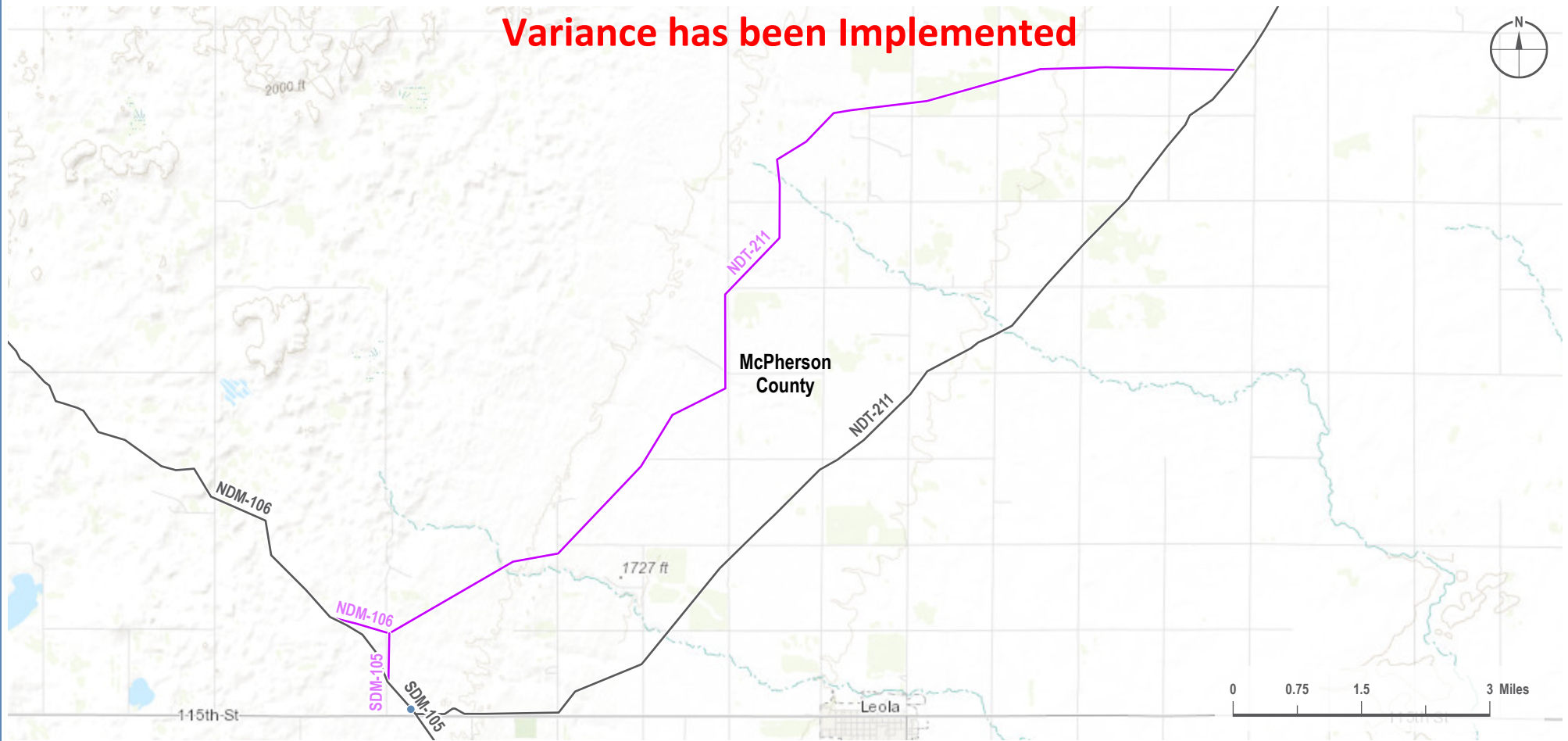
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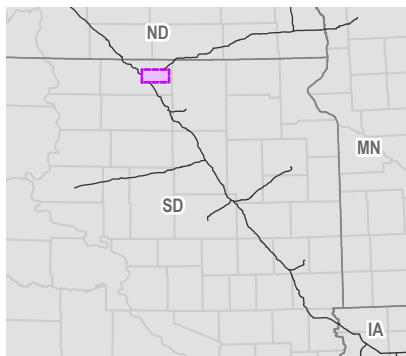
Drawing Number:

1002-06-002
Revision 0

Variance has been Implemented



VICINITY MAP



LEGEND

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

Laydown and Contractor Yards are approximate locations and subject to change

Pipeline Naming Convention
[State Abbreviation][Line Designation] - [Line Number]
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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
Revision 0