

crossings (36th Street NW and 38th Street NW) within the Designated Corridor to be 90 degree crossings.

5. The attached Exhibit A lists the route adjustments being made pursuant to N.D.C.C. § 49-22-16.3(1) and N.D.C.C. § 49-22-16.3(3), respectively. For each route adjustment, Exhibit A identifies: (a) the reason for the adjustment; (b) whether the adjustment is within or outside of the Designated Corridor; (c) the total length of the adjustment; and (d) the length of the adjustment outside of the Designated Corridor (if applicable). Maps depicting the Designated Corridor and Route, and each corridor and route adjustment, are attached hereto as Exhibit B.

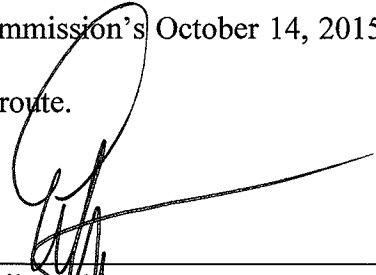
6. All affected landowners have executed easements allowing NST Express to construct the Project along the route adjustments. With respect to route adjustments outside of the Designated Corridor, no owner of real property on which an adjustment is to be located and no applicable governmental entity with an interest in the same adjustment area oppose the adjustment.

7. All construction activities for the N.D.C.C. § 49-22-16.3(1) route adjustments will be within the Designated Corridor. No N.D.C.C. § 49-22-16.3(3) route adjustment is longer than one and one-half miles in length outside of the Designated Corridor.

8. Project construction activities for the N.D.C.C. § 49-22-16.3(1) and N.D.C.C. § 49-22-16.3(3) route adjustments will not affect any known exclusion or avoidance areas within or outside of the Designated Corridor. SWCA Environmental Consultants (“SWCA”) has conducted the necessary field studies to confirm the same, as set forth in a letter from SWCA, attached hereto as Exhibit C.

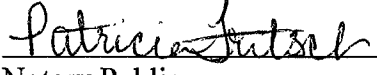
9. NST Express will comply with the Commission's October 14, 2015 Order, laws, and rules designating the corridor and designating the route.

FURTHER AFFIANT SAYETH NOT.

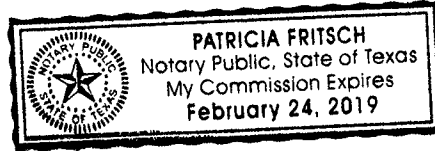


Erik Ludtke

Subscribed and sworn to before me
this 20 day of April, 2016.



Notary Public

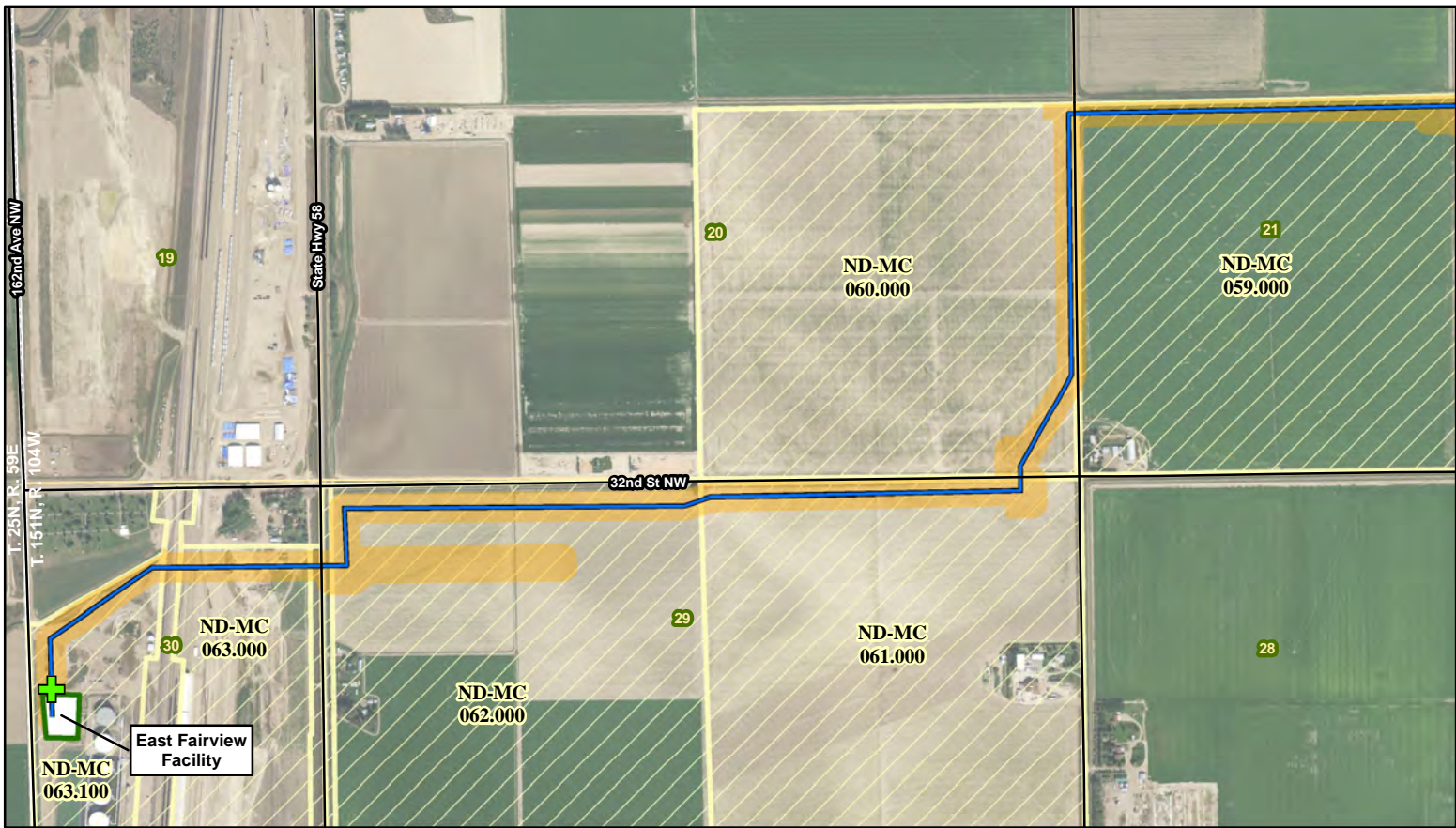


58542868_2.docx

Exhibit A

**NST Express Pipeline Project
Route Adjustment Chart**

Tracts	Location	Map Set Page Number(s) (Exhibit B to Ludtke Affidavit)	Reason for Adjustment	Within or Outside of Designated Corridor	Total Length of Adjustment	Length of Adjustment Outside Designated Corridor
N.D.C.C. § 49-22-16.3(1) Route Adjustments						
ND-MC-006.000 ND-MC-007.000 ND-MC-008.000	Section 23, T152N, R102W Section 26, T152N, R102W	Pages 10 & 11	Comply with McKenzie County Road Crossing Requirements	Within Designated Corridor	4,180 feet	N/A
ND-MC-017.502 ND-MC-021.000	Section 31, T152N, R102W Section 6, T151N, R102W	Page 8	Comply with McKenzie County Road Crossing Requirements	Within Designated Corridor	1,561 feet	N/A
N.D.C.C. § 49-22-16.3(3) Route Adjustments						
ND-MC-023.000 ND-MC-024.000	Section 6, T151N, T102W	Page 7	Landowner Request	Outside of Designated Corridor	3,037 feet	2,783 feet
ND-MC-033.000 ND-MC-034.000	Section 9, T151N, R103W	Page 5	Landowner Request	Outside of Designated Corridor	2,147 feet	1,876 feet
ND-MC-037.000 ND-MC-038.000 ND-MC-040.000	Section 17, T151N, R103W	Page 4	Landowner Request	Outside of Designated Corridor	2,812 feet	2,367 feet



NST Express Pipeline

- Yellowstone River HDD
- + Valve Location
- Approved Route
- Adjusted Route
- Existing Road
- Approved Corridor
- Adjusted Corridor
- Proposed Facility Location
- Surface Tract
- Yellowstone River
- Township/Range Boundary
- Section Boundary

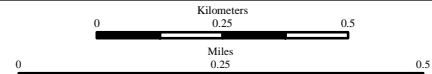
Exhibit B



116 North 4th Street
Suite 200
Bismarck, ND 58501

Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com

Page 1 of 11

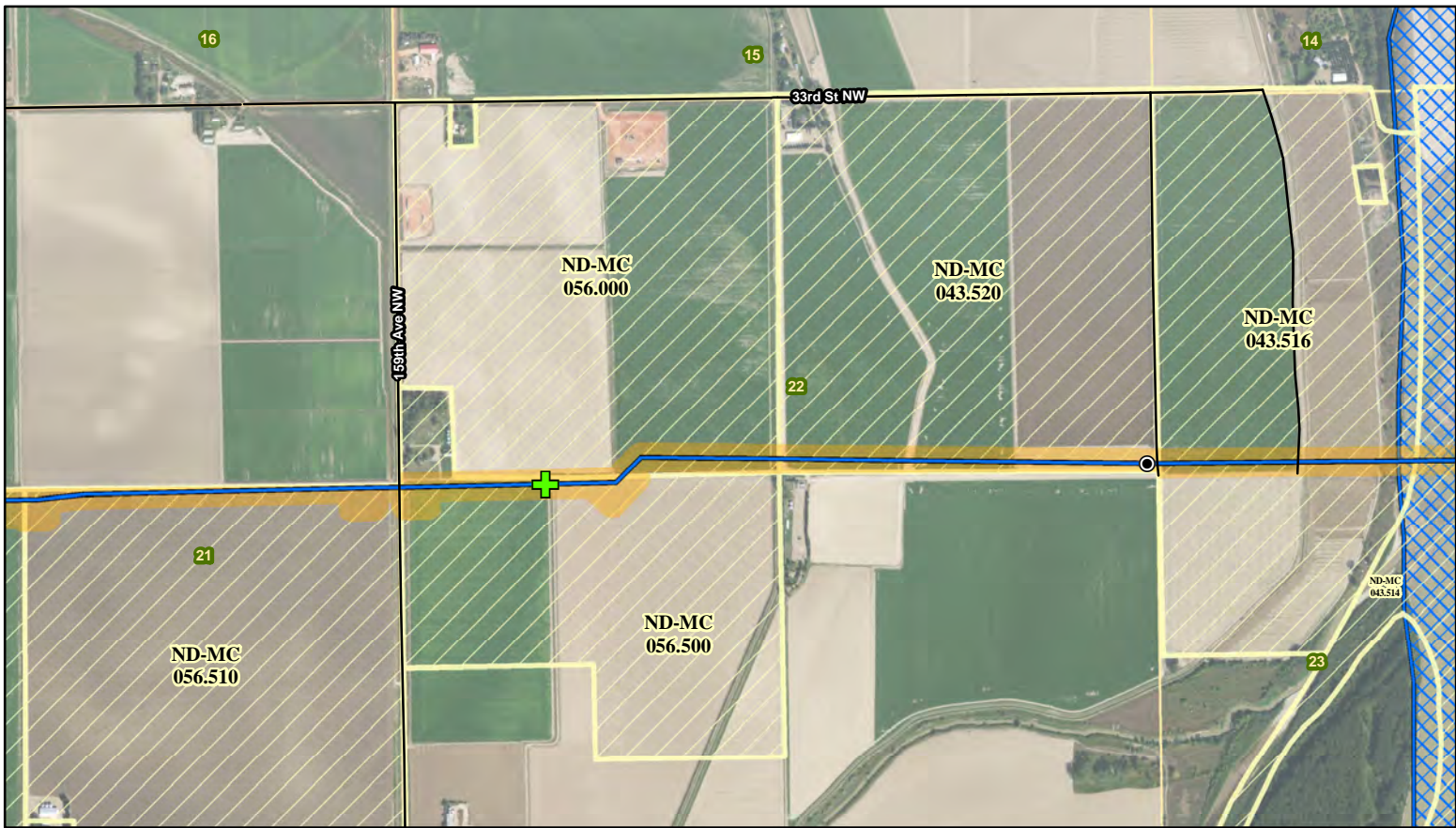


Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Fairview (1995), Dore (1991)
Township/Range: T. 151N, R. 104W

McKenzie County, North Dakota

Projection: NAD 1983 UTM Zone 13N





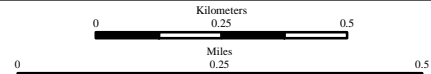
NST Express Pipeline

- | | | |
|------------------------------|-------------------|-----------------------------|
| ● Yellowstone River HDD | Approved Corridor | --- Township/Range Boundary |
| ✚ Valve Location | Adjusted Corridor | Section Boundary |
| ✚ Proposed Facility Location | Surface Tract | |
| Approved Route | Yellowstone River | |
| Adjusted Route | | |
| Existing Road | | |



116 North 4th Street
Suite 200
Bismarck, ND 58501

Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com

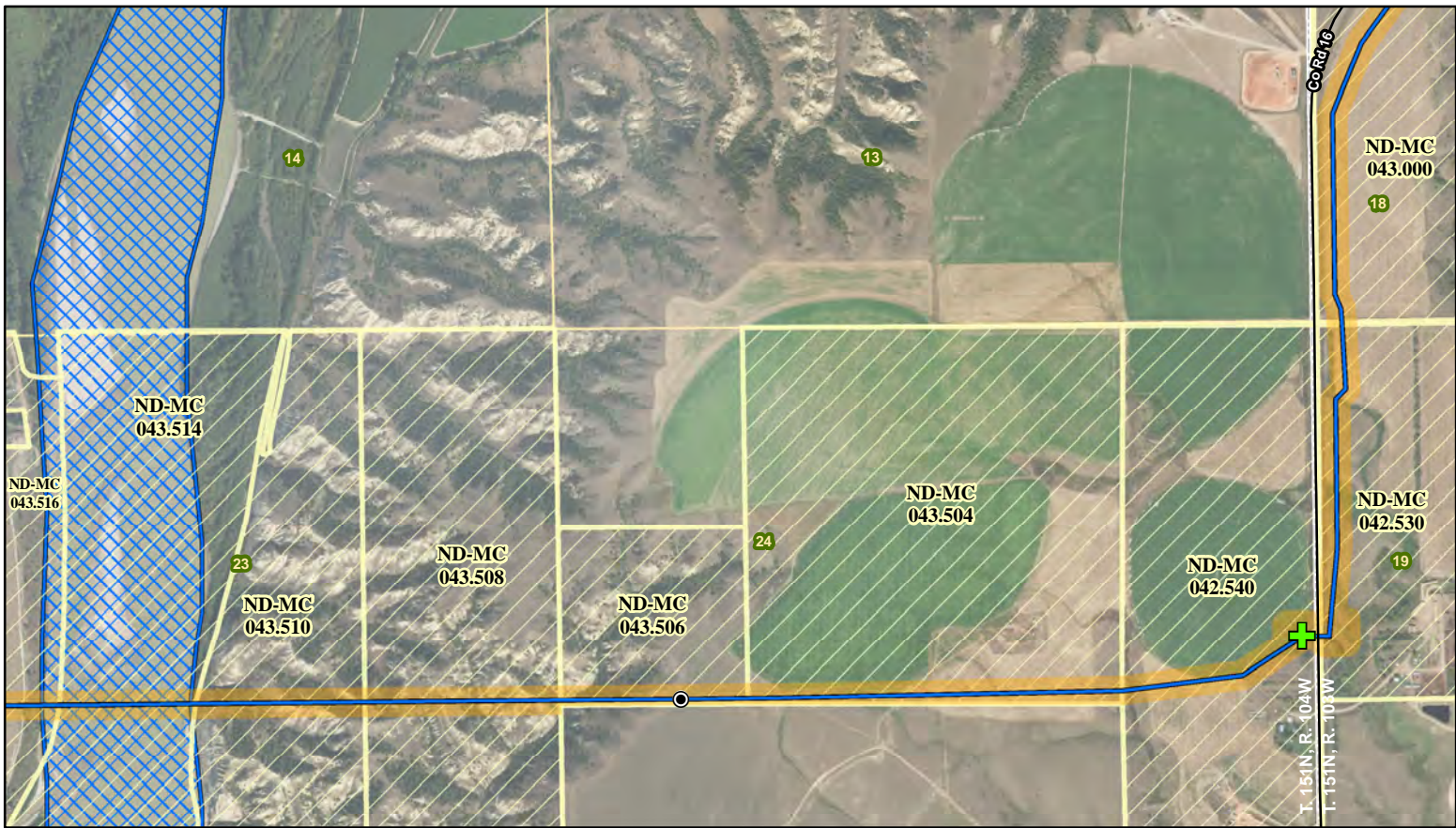


Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Dore (1991), Buford (1976)
Township/Range: T. 151N, R. 104W

McKenzie County, North Dakota

Projection: NAD 1983 UTM Zone 13N





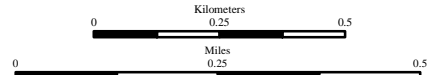
NST Express Pipeline

- Yellowstone River HDD
- + Valve Location
- Approved Route
- Adjusted Route
- Existing Road
- Approved Corridor
- Adjusted Corridor
- Proposed Facility Location
- Surface Tract
- Yellowstone River
- Township/Range Boundary
- Section Boundary



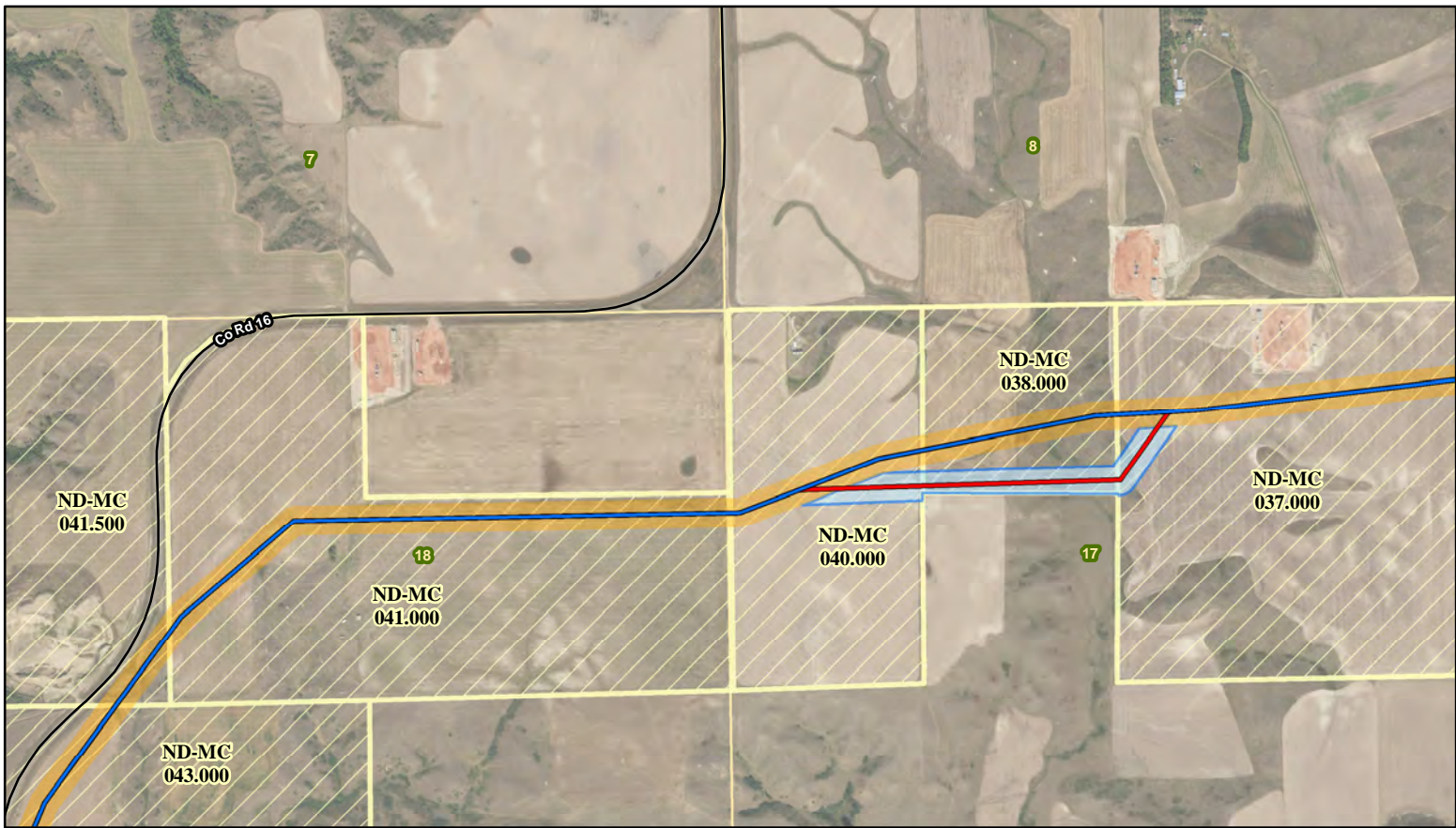
116 North 4th Street
Suite 200
Bismarck, ND 58501

Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com



Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Buford (1976)
Township/Range: T. 151N, R. 104W & T. 151N, R. 103W
McKenzie County, North Dakota





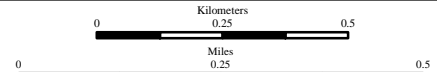
NST Express Pipeline

- | | | |
|-------------------------|----------------------------|-----------------------------|
| ● Yellowstone River HDD | Approved Corridor | --- Township/Range Boundary |
| + | Adjusted Corridor | □ Section Boundary |
| + | Proposed Facility Location | |
| — | Surface Tract | |
| — | Approved Route | |
| — | Adjusted Route | |
| — | Yellowstone River | |
| — | Existing Road | |



116 North 4th Street
Suite 200
Bismarck, ND 58501

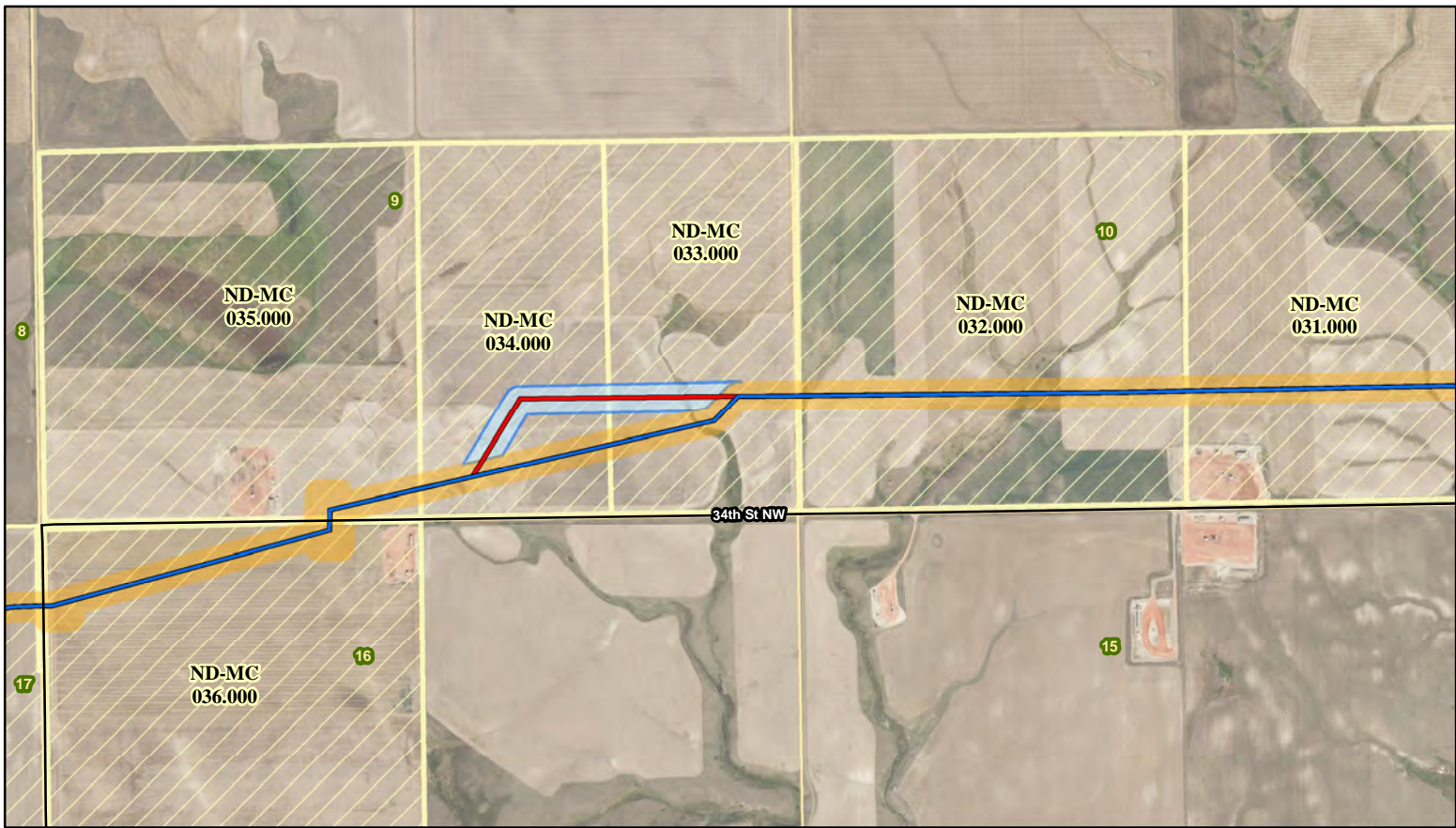
Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com



Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Buford (1976)
Township/Range: T. 151N, R. 103W

McKenzie County, North Dakota





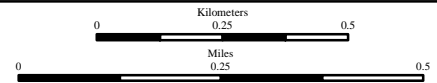
NST Express Pipeline

- | | | |
|-------------------------|----------------------------|-----------------------------|
| ● Yellowstone River HDD | Approved Corridor | --- Township/Range Boundary |
| ⊕ Valve Location | Adjusted Corridor | Section Boundary |
| — Approved Route | Proposed Facility Location | |
| — Adjusted Route | Surface Tract | |
| — Existing Road | Yellowstone River | |



116 North 4th Street
Suite 200
Bismarck, ND 58501

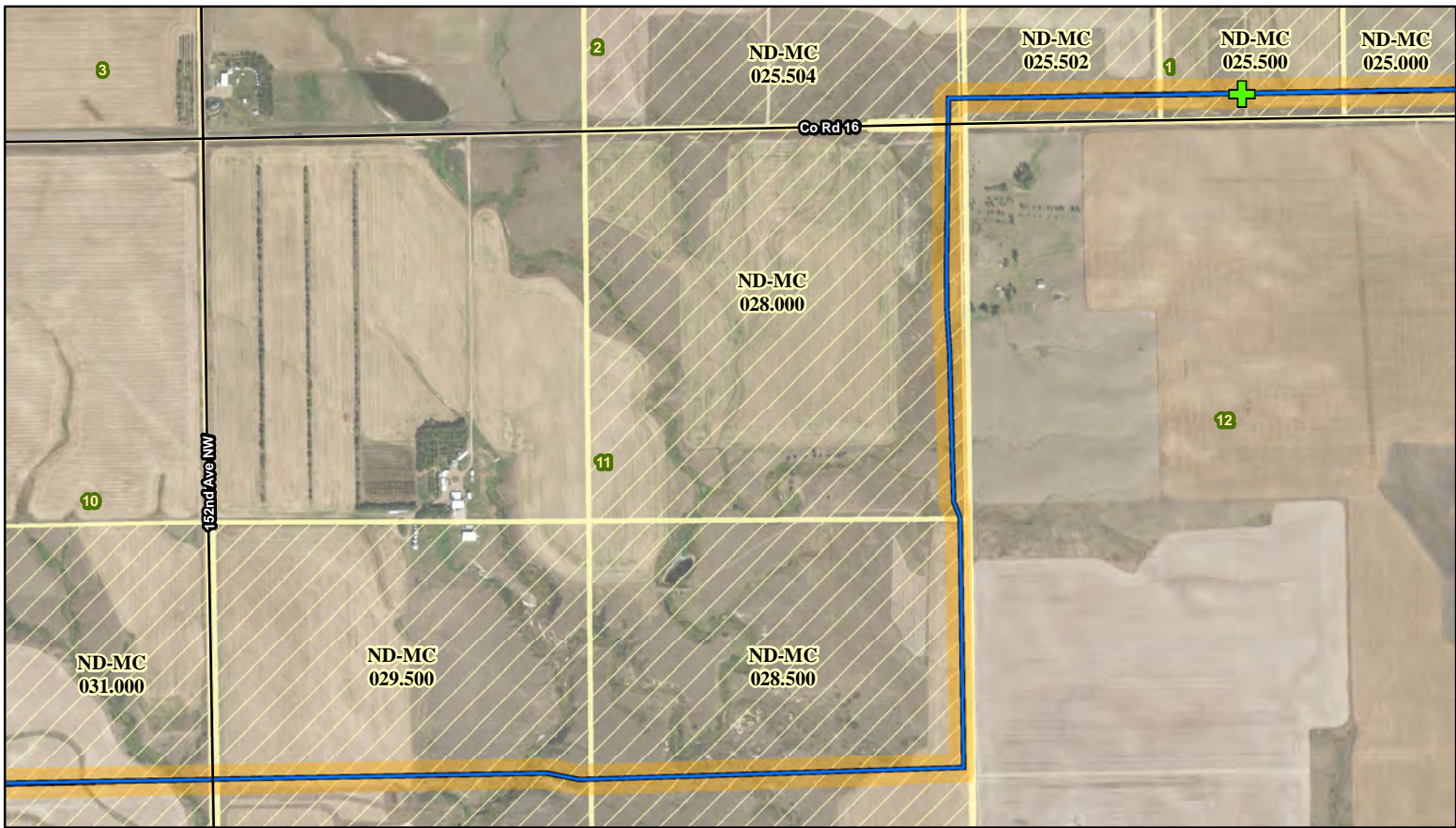
Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com



Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Buford (1976), Cartwright NE (1991)
Township/Range: T. 151N, R. 103W

McKenzie County, North Dakota





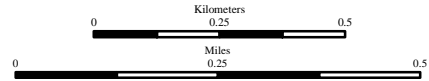
NST Express Pipeline

- Yellowstone River HDD
- Valve Location
- Approved Route
- Adjusted Route
- Existing Road
- Approved Corridor
- Adjusted Corridor
- Proposed Facility Location
- Surface Tract
- Yellowstone River
- Township/Range Boundary
- Section Boundary



116 North 4th Street
Suite 200
Bismarck, ND 58501

Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com

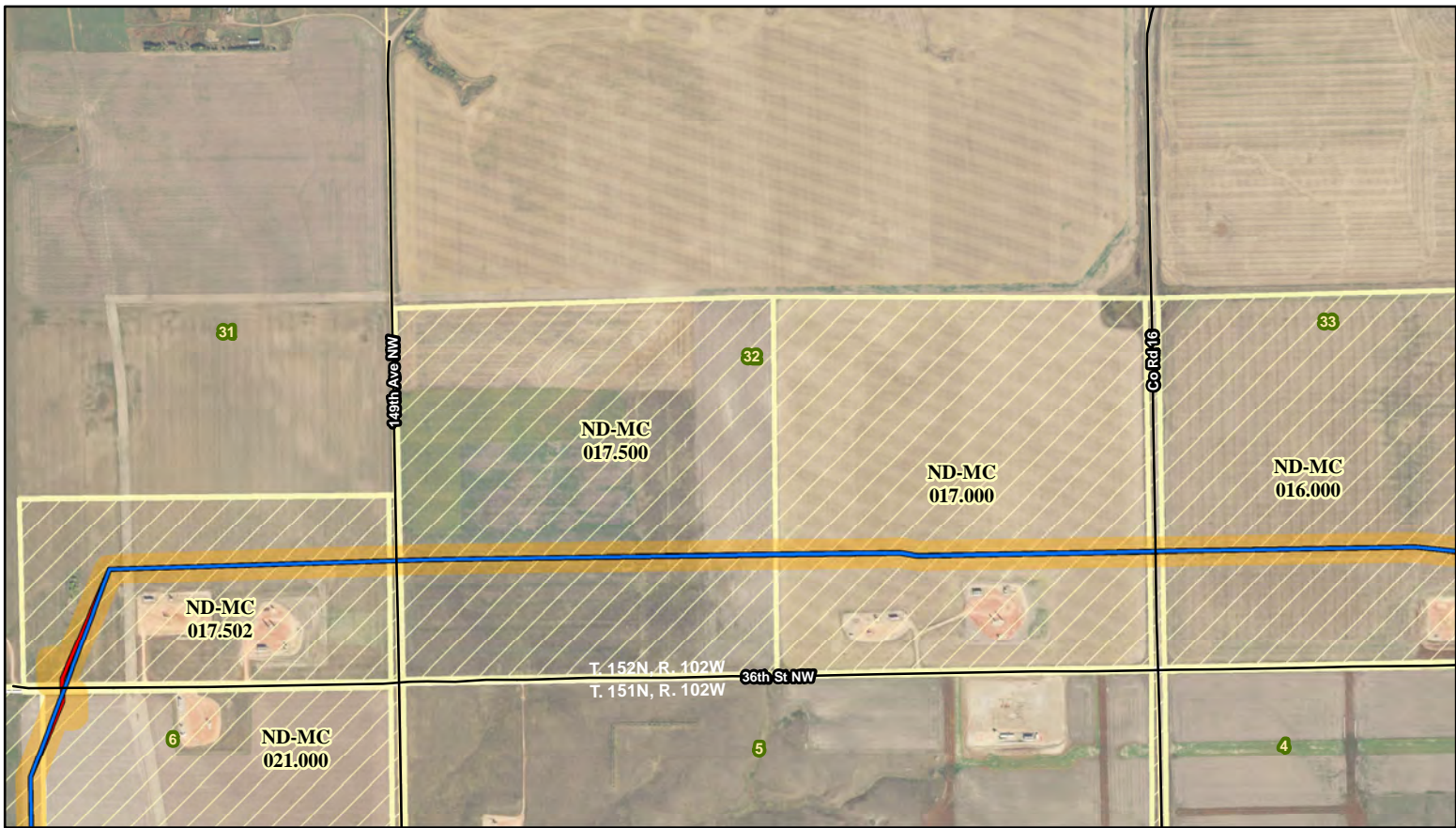


Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Cartwright NE (1991)
Township/Range: T. 151N, R. 103W

McKenzie County, North Dakota

Projection: NAD 1983 UTM Zone 13N





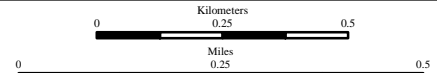
NST Express Pipeline

- Yellowstone River HDD
- Valve Location
- Approved Route
- Adjusted Route
- Existing Road
- Approved Corridor
- Adjusted Corridor
- Proposed Facility Location
- Surface Tract
- Yellowstone River
- Township/Range Boundary
- Section Boundary



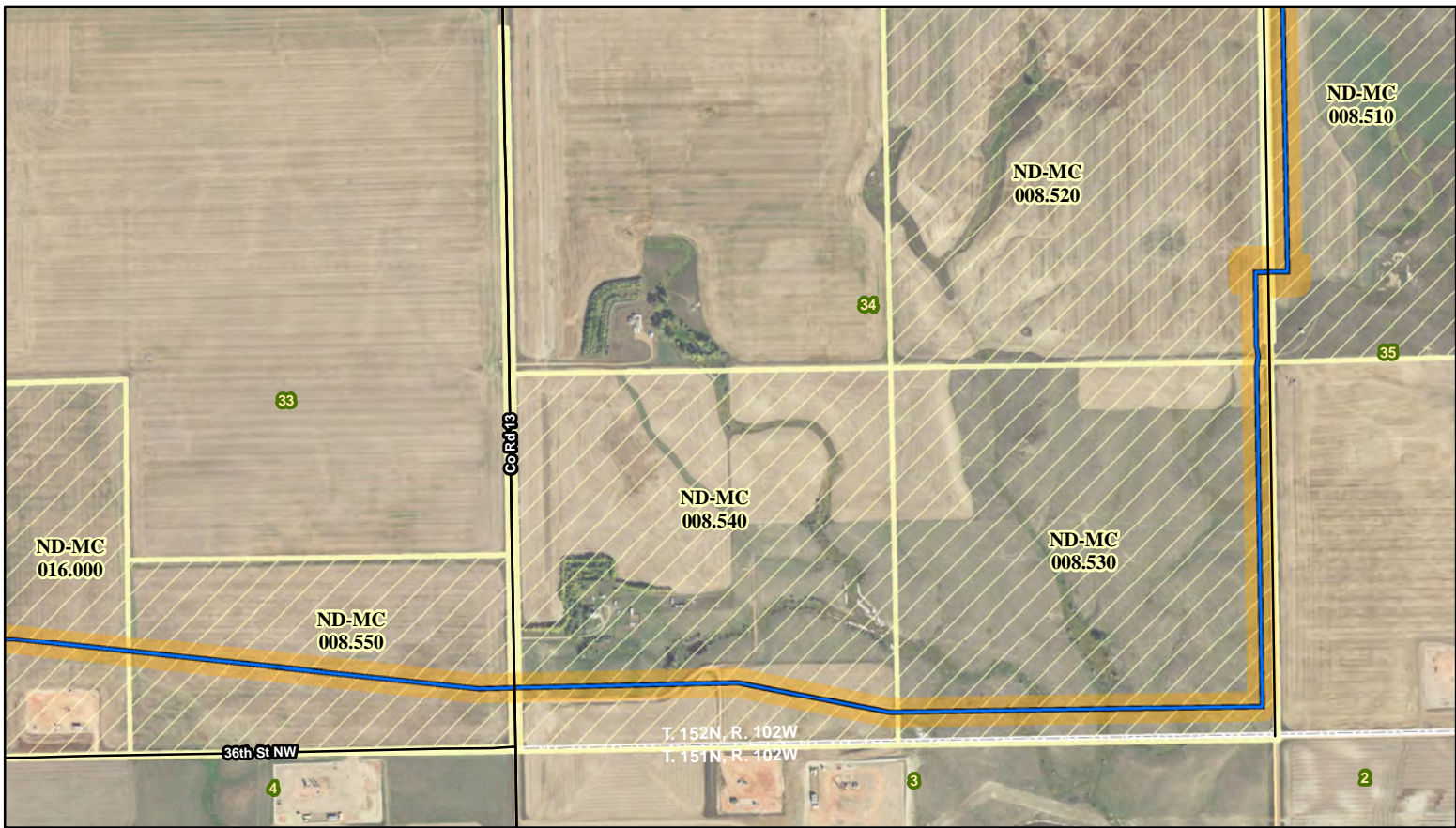
116 North 4th Street
Suite 200
Bismarck, ND 58501

Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com



Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Cartwright NE (1991), Camp Creek West (1978)
Township/Range: T. 151N, R. 102W &
T. 152N, R. 102W
McKenzie County, North Dakota





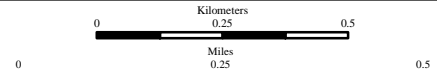
NST Express Pipeline

- | | | |
|------------------------------|-------------------|-----------------------------|
| ● Yellowstone River HDD | Approved Corridor | --- Township/Range Boundary |
| ⊕ Valve Location | Adjusted Corridor | □ Section Boundary |
| ⊕ Proposed Facility Location | Surface Tract | |
| — Approved Route | Yellowstone River | |
| — Adjusted Route | | |
| — Existing Road | | |



116 North 4th Street
Suite 200
Bismarck, ND 58501

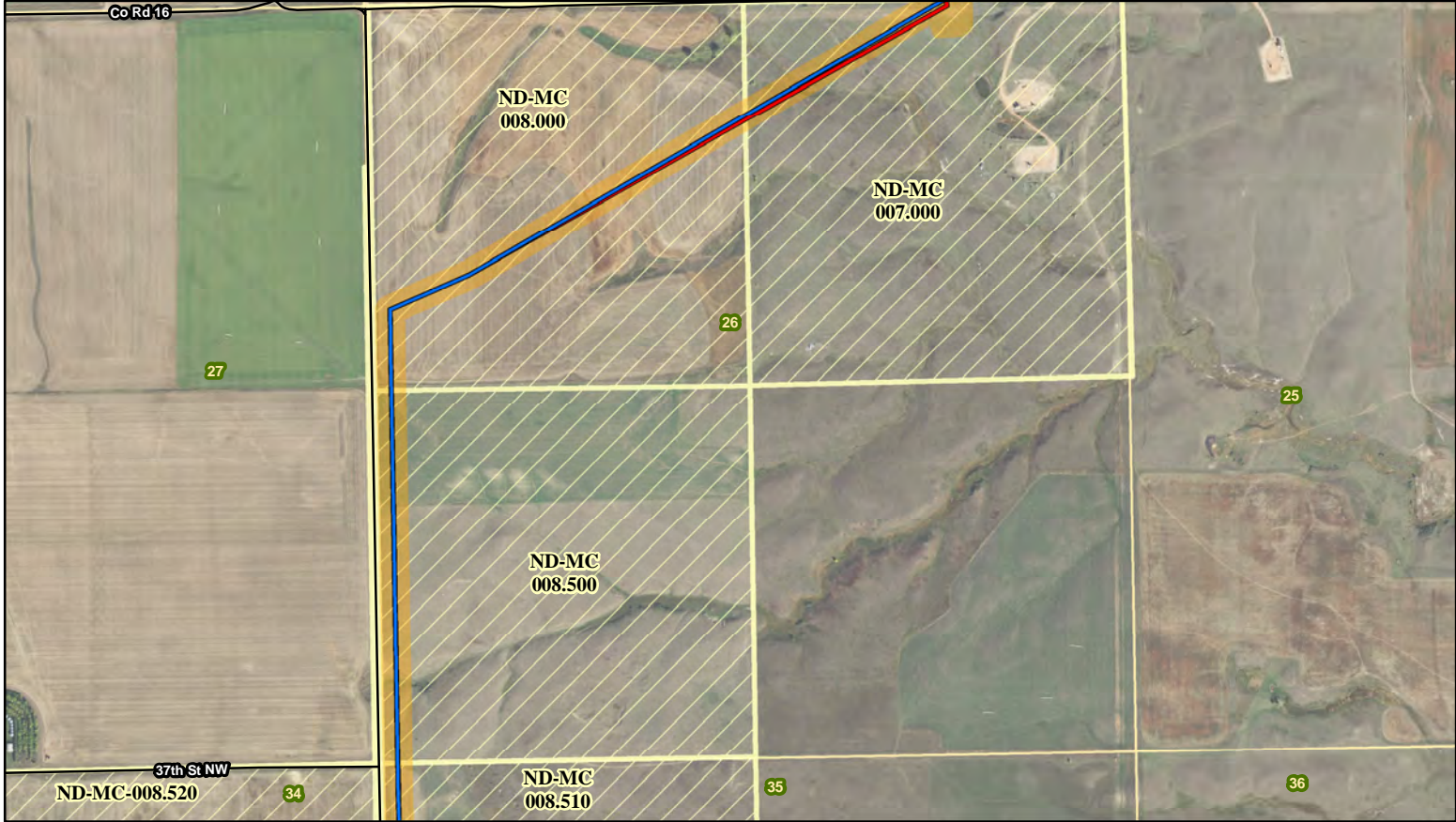
Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com















Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Camp Creek West (1978)
Township/Range: T. 152N, R. 102W

McKenzie County, North Dakota





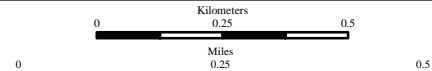
NST Express Pipeline

-  Yellowstone River HDD
-  Valve Location
-  Approved Route
-  Adjusted Route
-  Existing Road
-  Approved Corridor
-  Adjusted Corridor
-  Proposed Facility Location
-  Surface Tract
-  Yellowstone River
-  Township/Range Boundary
-  Section Boundary



116 North 4th Street
Suite 200
Bismarck, ND 58501

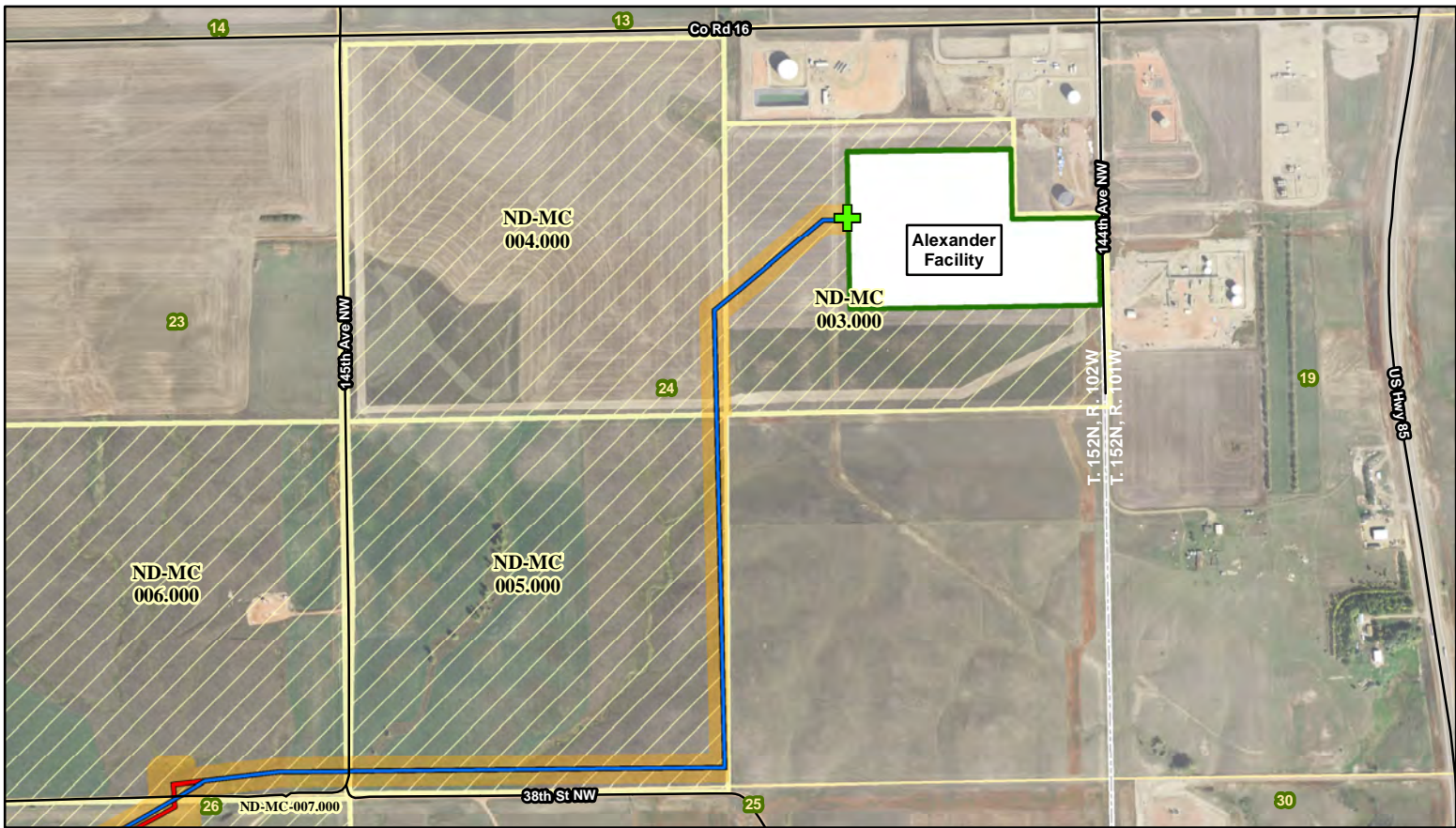
Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com



Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Camp Creek West (1978)
Township/Range: T. 152N, R. 102W

McKenzie County, North Dakota





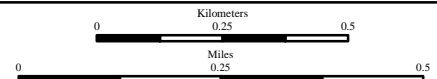
NST Express Pipeline

- | | | |
|------------------------------|-------------------|-----------------------------|
| ● Yellowstone River HDD | Approved Corridor | --- Township/Range Boundary |
| ✚ Valve Location | Adjusted Corridor | □ Section Boundary |
| ✚ Proposed Facility Location | Surface Tract | |
| — Approved Route | Yellowstone River | |
| — Adjusted Route | | |
| — Existing Road | | |



116 North 4th Street
Suite 200
Bismarck, ND 58501

Phone: 701.258.6622
Fax: 701.258.5957
www.swca.com



Base Map: 2015 Aerial Imagery
Source: USDA/FSA - Aerial Photography Field Office
Quadrangle: Camp Creek West (1978)
Township/Range: T. 152N, R. 102W

McKenzie County, North Dakota





ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

Bismarck Office
116 North 4th Street, Suite 200
Bismarck, North Dakota 58501
Tel 701.258.6622 Fax 701.258.5957
www.swca.com

April 19, 2016

Chip Lang
NST Express, LLC
10077 Grogan's Mill Road
The Woodlands, TX 77380

Re: NST Express Pipeline Project / Route Adjustments

Dear Mr. Lang:

SWCA Environmental Consultants (SWCA) provides this letter in support of NST Express, LLC's (NST Express) route adjustment filing for the NST Express Pipeline Project in McKenzie County, North Dakota. In order to accommodate landowner requests and road authority crossing requirements, NST Express plans to make five route adjustments within, or less than 1.5 miles in length outside of, the corridor designated for the Project (Designated Corridor) by the North Dakota Public Service Commission (Commission).

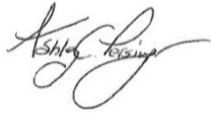
SWCA has completed field surveys of all areas that will be affected by construction of the route adjustments, including the Adjusted Corridor depicted in the maps provided as Exhibit B to the Affidavit of Erik Ludtke. Although the route adjustments were not finalized until after the Commission's September 10, 2015 public hearing on the Project, the route adjustments were under consideration and survey work was completed prior to the public hearing. As a result, the field survey documentation provided at the public hearing includes the survey results for the route adjustments, as discussed further below:

- **Cultural Resources:** Cultural resource field survey results for the route adjustments were presented in: (1) the Cultural Resource Report in Appendix F to the Certificate of Corridor and Route Permit Application (Application), submitted as Hearing Exhibit No. 1 (see Docket No. PU-15-232, Item No. 19); and (2) the Cultural Resource Technical Memorandum, submitted as Hearing Exhibit No. 8 (see Docket No. PU-15-232, Item No. 26). The concurrence letter from the North Dakota State Historical Society (SHSND) for the initial report was included in Appendix E to the Application (see Docket No. PU-15-232, Item No. 19), and the SHSND concurrence letter for the addendum report was filed with the Commission on April 4, 2016 in accordance with Order Provision No. 7 (see Docket No. PU-15-232, Item No. 51). NST Express will comply with the avoidance measures identified in the reports, which are described in Finding of Fact No. 19 of the Order, and the route adjustments will not impact cultural resources.
- **Other Surveys:** Other field survey results are set forth in the Natural Resources and Wetland Determination Report in Appendix D to the Application, submitted as Hearing Exhibit No. 1 (see Docket No. PU-15-232, Item No. 19), and in the Addendum to the Natural Resources and Wetland Determination Report (Addendum Report), submitted as Hearing Exhibit No. 9 (see Docket No. PU-15-232, Item No. 27). Although surveyed, the route and corridor adjustment in Section 6, Township 151 North, Range 102 West, was inadvertently omitted from the map sets provided in Appendices A and B to the Addendum Report. Corrected versions of page 7 of each map set, including the referenced route and corridor adjustment, are enclosed.

Based on SWCA's review, the construction activities associated with the route adjustments, both within and outside of the Designated Corridor, will not affect any known exclusion or avoidance areas, as set forth in N.D.A.C. §§ 69-06-08-02(1) and (2).

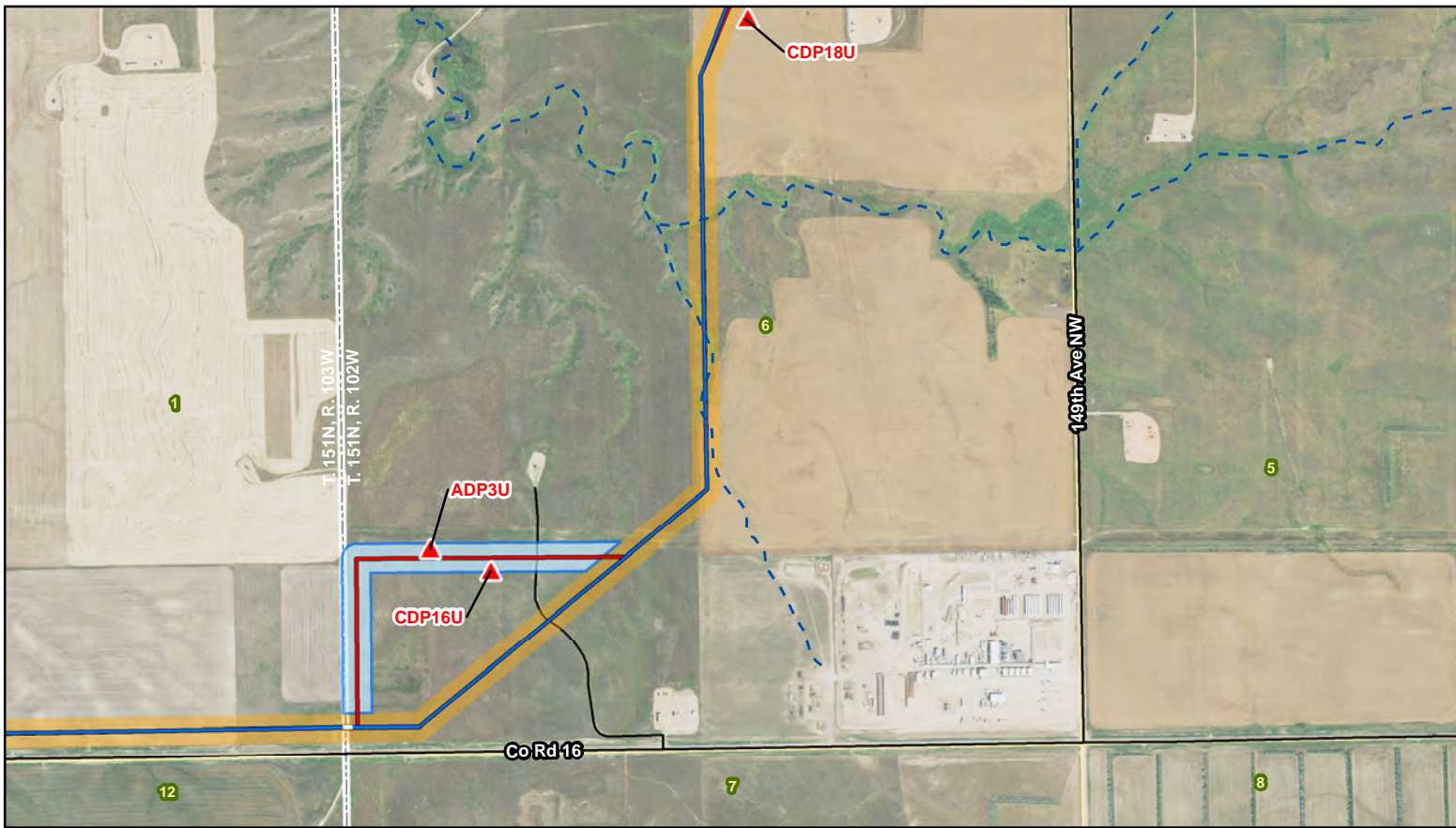
If you have any questions or need further information, please contact me at (701) 258-6622 or apersinger@swca.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Ashley Persinger". The signature is fluid and cursive, with the first name "Ashley" written in a larger, more prominent script than the last name "Persinger".

Ashley Persinger
Natural Resources Project Manager

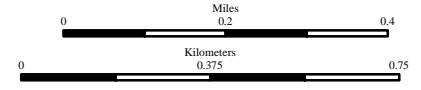
Enclosures



NST Express Pipeline

- | | | |
|-------------------------|-------------------|--------------------------|
| ▲ Upland Data Point | — Adjusted Route | Previously Invented Area |
| — Approximate Bore Path | Stream | Section Boundary |
| - - Flowline | Wetland | Township/Range Boundary |
| — Existing Road | Woody Vegetation | |
| — Approved Route | Facility Location | |
| | Adjusted Corridor | |

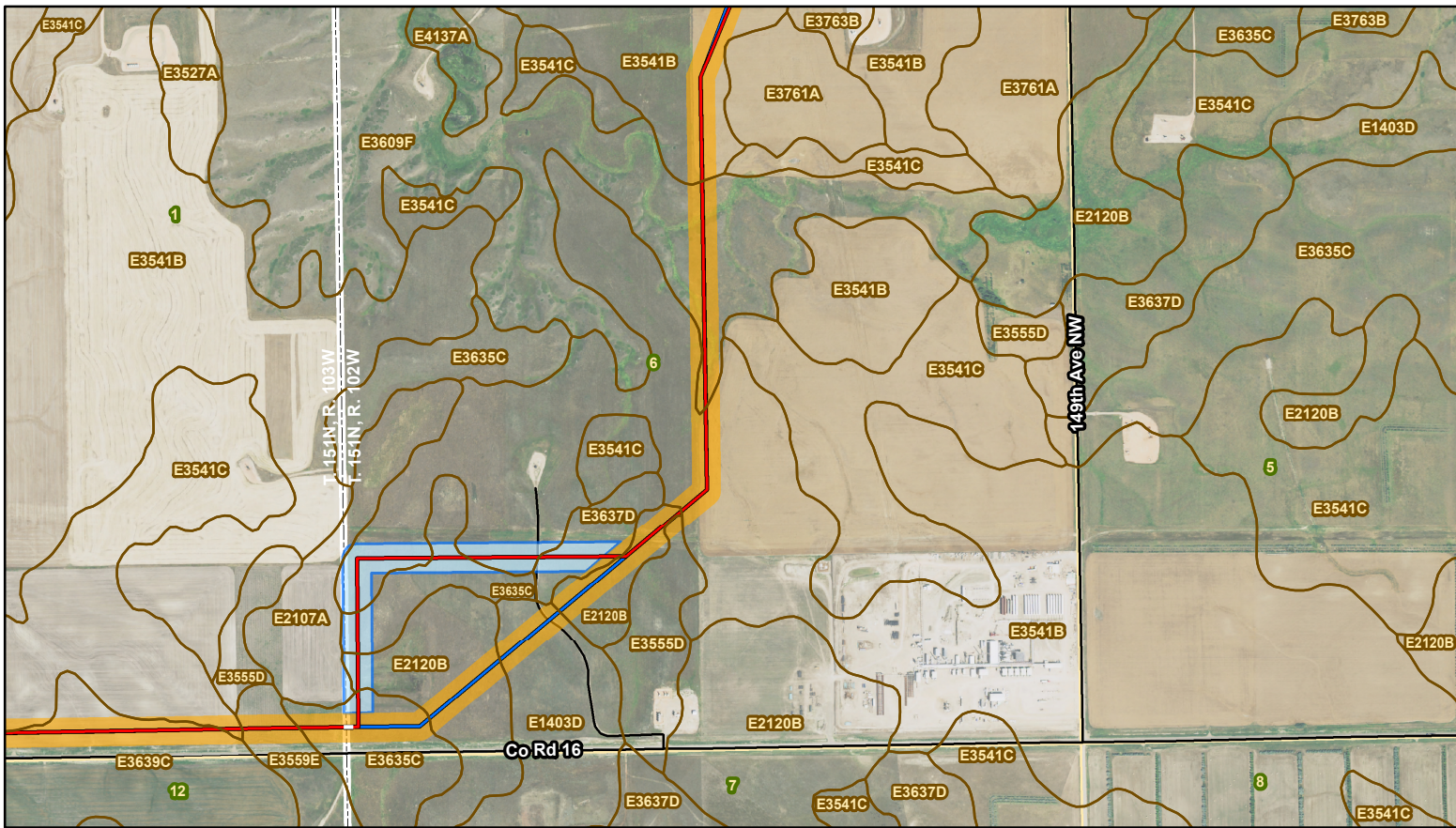
SWCA
 ENVIRONMENTAL CONSULTANTS
 116 North 4th Street
 Suite 200
 Bismarck, ND 58501
 Phone: 701.258.6622
 Fax: 701.258.5957
 www.swca.com
 Page 7 of 11



Base Map: 2014 Aerial Imagery
 Source: USDA/FSA - Aerial Photography Field Office
 Quadrangle: Cartwright NE (1991)
 Township/Range: T. 151N, R. 103W & T. 151N, R. 102W
 McKenzie County, North Dakota



Projection: NAD 1983 UTM Zone 13N



NST Express Pipeline

- Approved Route
- Adjusted Route
- Approximate Bore Path
- Existing Road
- Approved Corridor
- Adjusted Corridor
- Soil Unit Boundary
- Boundary
- Facility Location
- Township/Range Boundary
- Section Boundary

SWCA
 ENVIRONMENTAL CONSULTANTS
 116 North 4th Street
 Suite 200
 Bismarck, ND 58501
 Phone: 701.258.6622
 Fax: 701.258.5957
 www.swca.com

0 0.25 0.5
 Miles
 0 0.5 1
 Kilometers

Base Map: 2014 Aerial Imagery
 Source: USDA/FSA - Aerial Photography Field Office
 Quadrangle: Cartwright NE (1991)
 Township/Range: T. 151N, R. 103W & T. 151N, R. 102W
 McKenzie County, North Dakota

N
 W E
 S