Appendix F

Exclusion and Avoidance Areas

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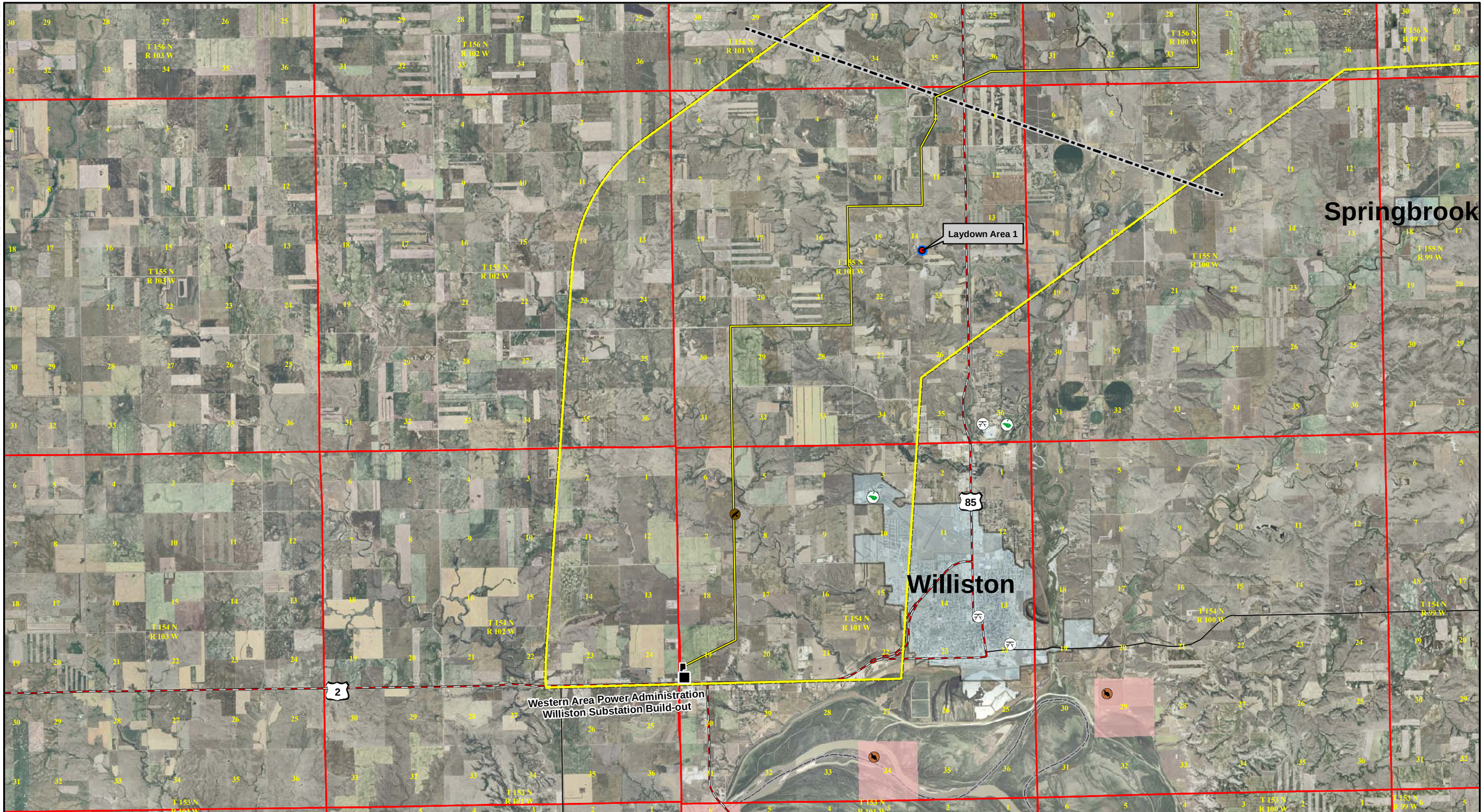
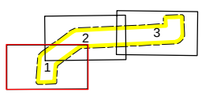




LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

EXCLUSION AREAS

- BURROWING OWL
- PARK
- GOLF COURSE

EXCLUSION AREAS (SECTION WITH NORTH DAKOTA NATURAL HERITAGE SPECIES OBSERVATION)

- RARE ECOLOGICAL COMMUNITY
- RARE ANIMAL OBSERVATION
- RARE PLANT OBSERVATION

N

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

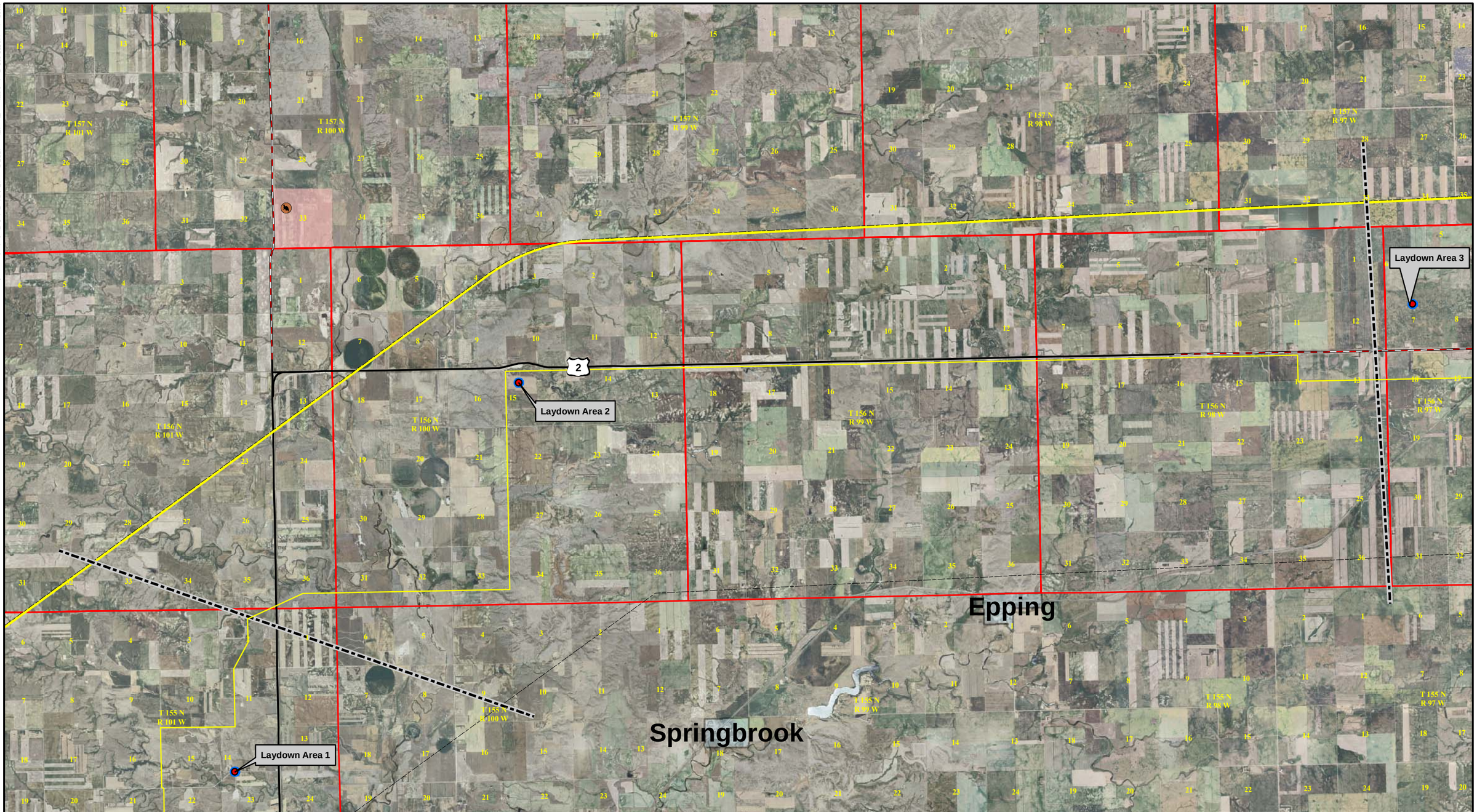
BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

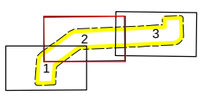
Western AREA POWER ADMINISTRATION

Exhibit F-1
Proposed Route Exclusion Areas

Sources:Wildlife/Ecology- NDNHI 2008, Parks- GNIS

X:\0Projects\10735-007_Basin_Williston-Tioga\Figures\PSC Report\Exhibit_D-1_3_ExclusionAreas.mxd





PROPOSED ROUTE
PROPOSED CORRIDOR
SUBSTATIONS
MATCH LINE
TOWNSHIP
CITY/TOWN

EXCLUSION AREAS

BURROWING OWL
PARK
GOLF COURSE

LEGEND

EXCLUSION AREAS (SECTION WITH NORTH DAKOTA NATURAL HERITAGE SPECIES OBSERVATION)

RARE ECOLOGICAL COMMUNITY
RARE ANIMAL OBSERVATION
RARE PLANT OBSERVATION

N

1.5 0.75 0 1.5
Scale in Miles

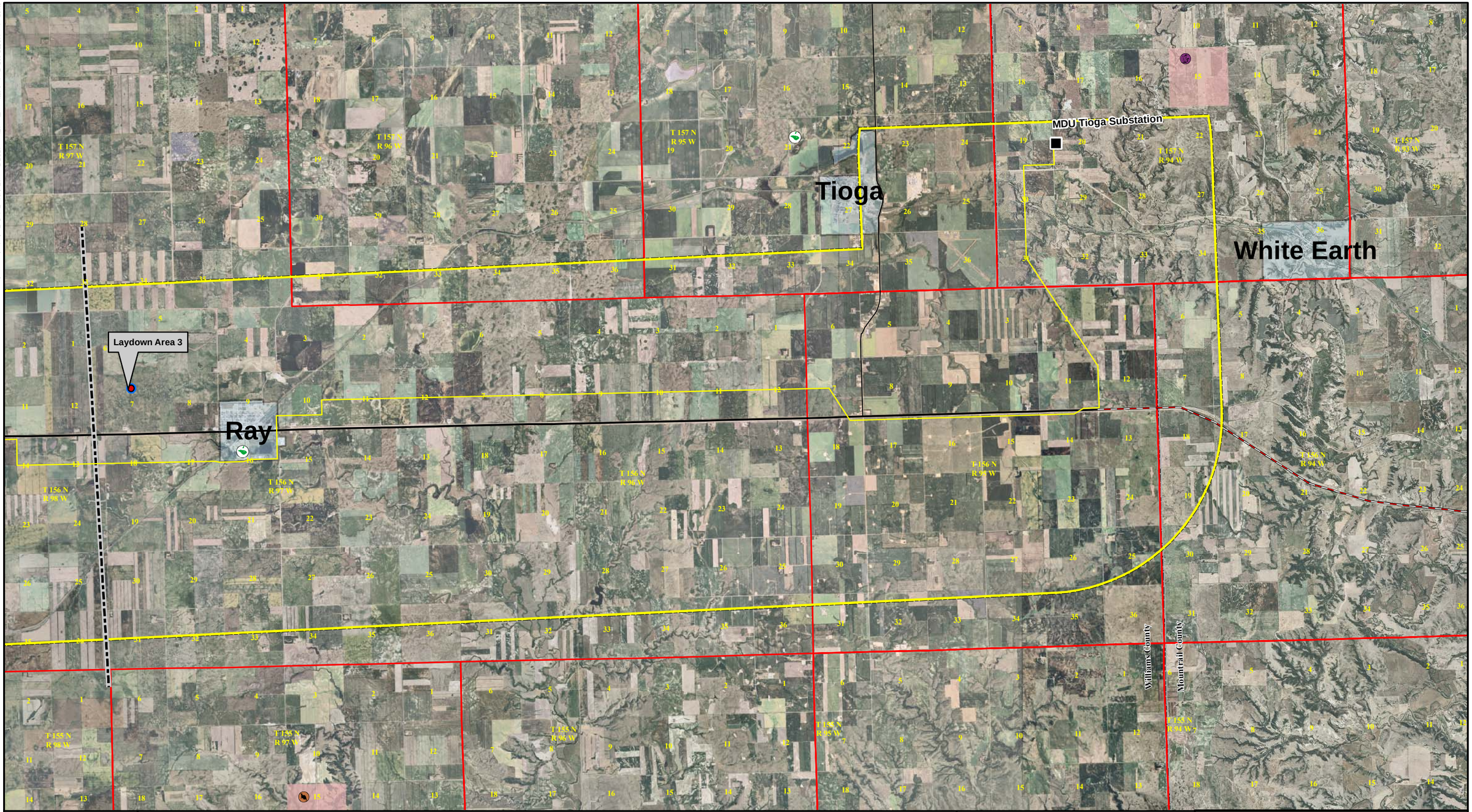
3 1.5 0 3
Scale in Kilometers

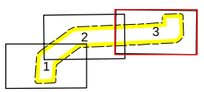
Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative
Western AREA POWER ADMINISTRATION

Exhibit F-2
Proposed Route
Exclusion Areas

Sources:Wildlife/Ecology- NDNHI 2008, Parks- GNIS





LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

EXCLUSION AREAS

- BURROWING OWL
- PARK
- GOLF COURSE

EXCLUSION AREAS (SECTION WITH NORTH DAKOTA NATURAL HERITAGE SPECIES OBSERVATION)

- RARE ECOLOGICAL COMMUNITY
- RARE ANIMAL OBSERVATION
- RARE PLANT OBSERVATION

N

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

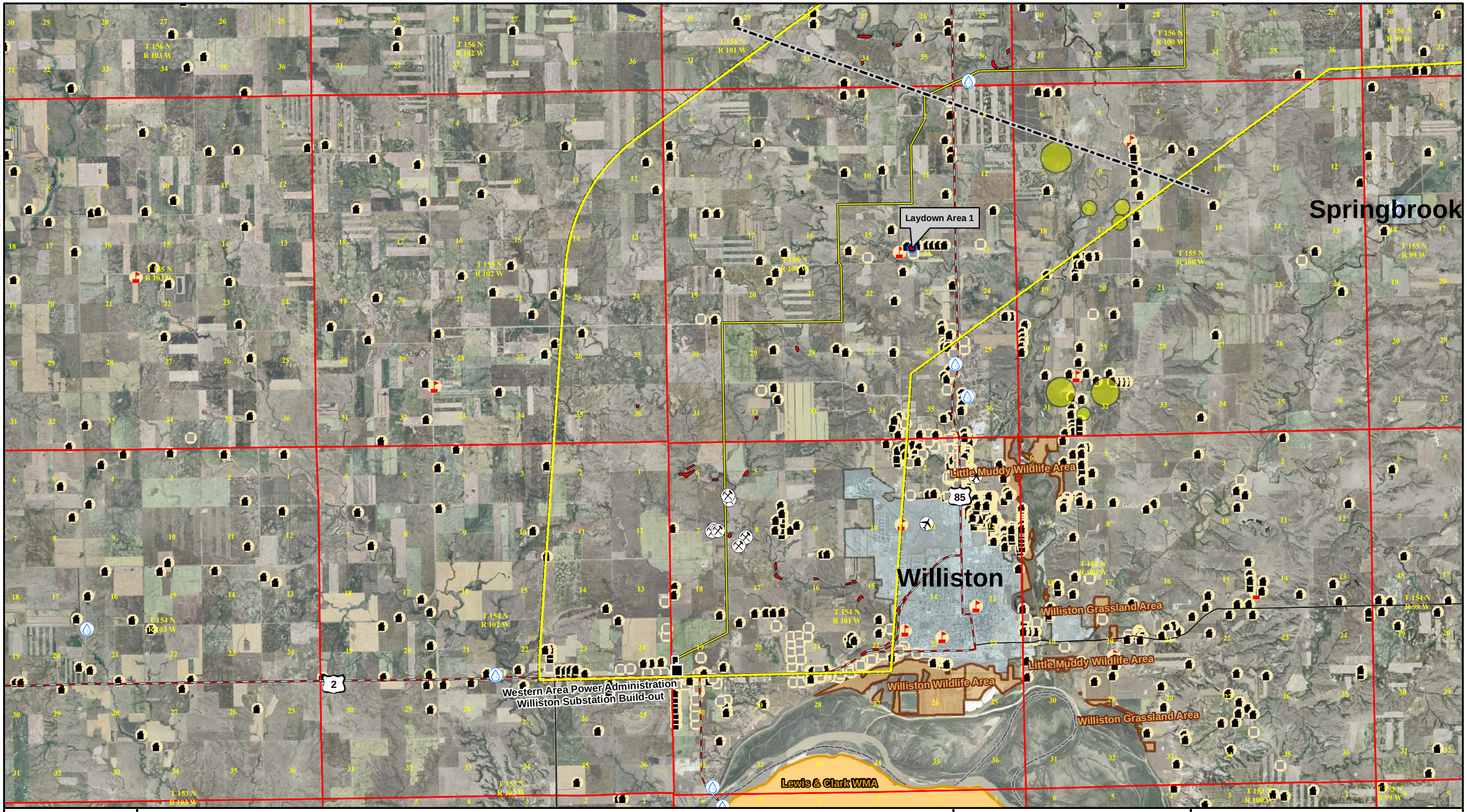
BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

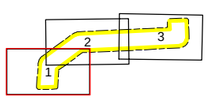
Western AREA POWER ADMINISTRATION

Exhibit F-3
Proposed Route
Exclusion Areas

Sources:Wildlife/Ecology- NDNHI 2008, Parks- GNIS

X:\0Projects\10735-007_Basin_Williston-Tioga\Figures\PSC Report\Exhibit_D-1_3_ExclusionAreas.mxd





LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

AVOIDANCE FEATURES

- MUNICIPAL WATER WELLS
- ABANDONED MINES
- AIRPORT
- RESIDENCE OR OTHER STRUCTURE WITH 500 FT. BUFFER
- PLACE OF BUSINESS WITH 500 FT. BUFFER
- SCHOOL WITH 500 FT. BUFFER
- LANDSLIDE AREAS
- IRRIGATED AREAS
- USACE WILDLIFE/GRASSLAND MANAGEMENT AREAS
- STATE WILDLIFE MANAGEMENT AREAS
- USFWS WATERFOWL PRODUCTION AREAS

N

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy Cooperative

Western AREA POWER ADMINISTRATION

Exhibit F-4
Proposed Corridor
Avoidance Areas

Sources:Schools - USGS, GNIS; Residential/Business - NDDatahub; Geology - NDGS,2004; Wildlife - NDGF, NDDatahub, USFWS; Water Supply - North Dakota State Water Commission

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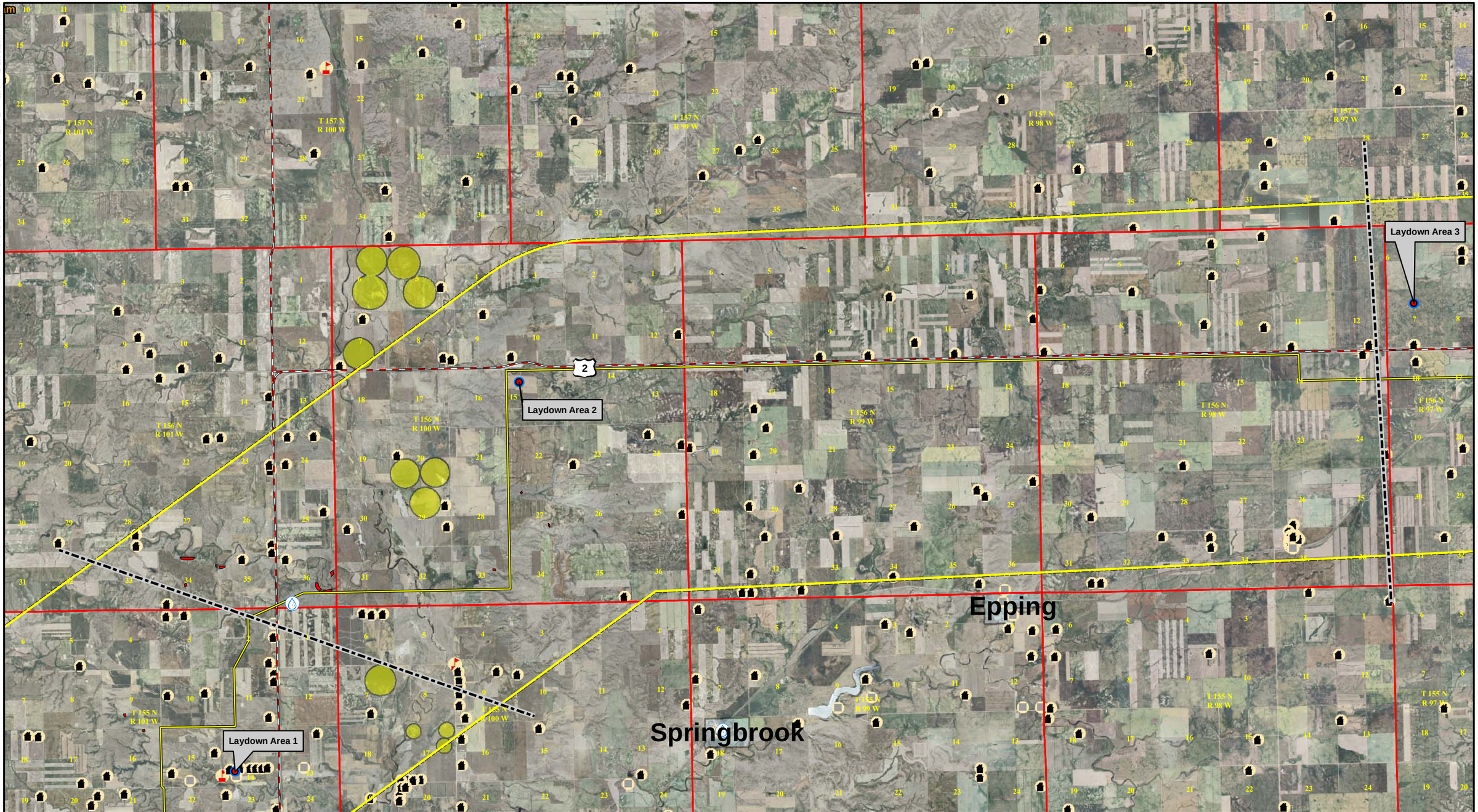

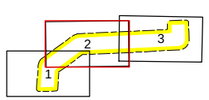

LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

AVOIDANCE FEATURES

- MUNICIPAL WATER WELLS
- ABANDONED MINES
- AIRPORT
- RESIDENCE OR OTHER STRUCTURE WITH 500 FT. BUFFER
- PLACE OF BUSINESS WITH 500 FT. BUFFER
- SCHOOL WITH 500 FT. BUFFER
- LANDSLIDE AREAS
- IRRIGATED AREAS
- USACE WILDLIFE/GRASSLAND MANAGEMENT AREAS
- STATE WILDLIFE MANAGEMENT AREAS
- USFWS WATERFOWL PRODUCTION AREAS

N

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

Western AREA POWER ADMINISTRATION

Exhibit F-5
Proposed Corridor
Avoidance Areas

Sources:Schools - USGS, GNIS; Residential/Business - NDDatahub; Geology - NDGS,2004; Wildlife - NDGF, NDDatahub, USFWS; Water Supply - North Dakota State Water Commission

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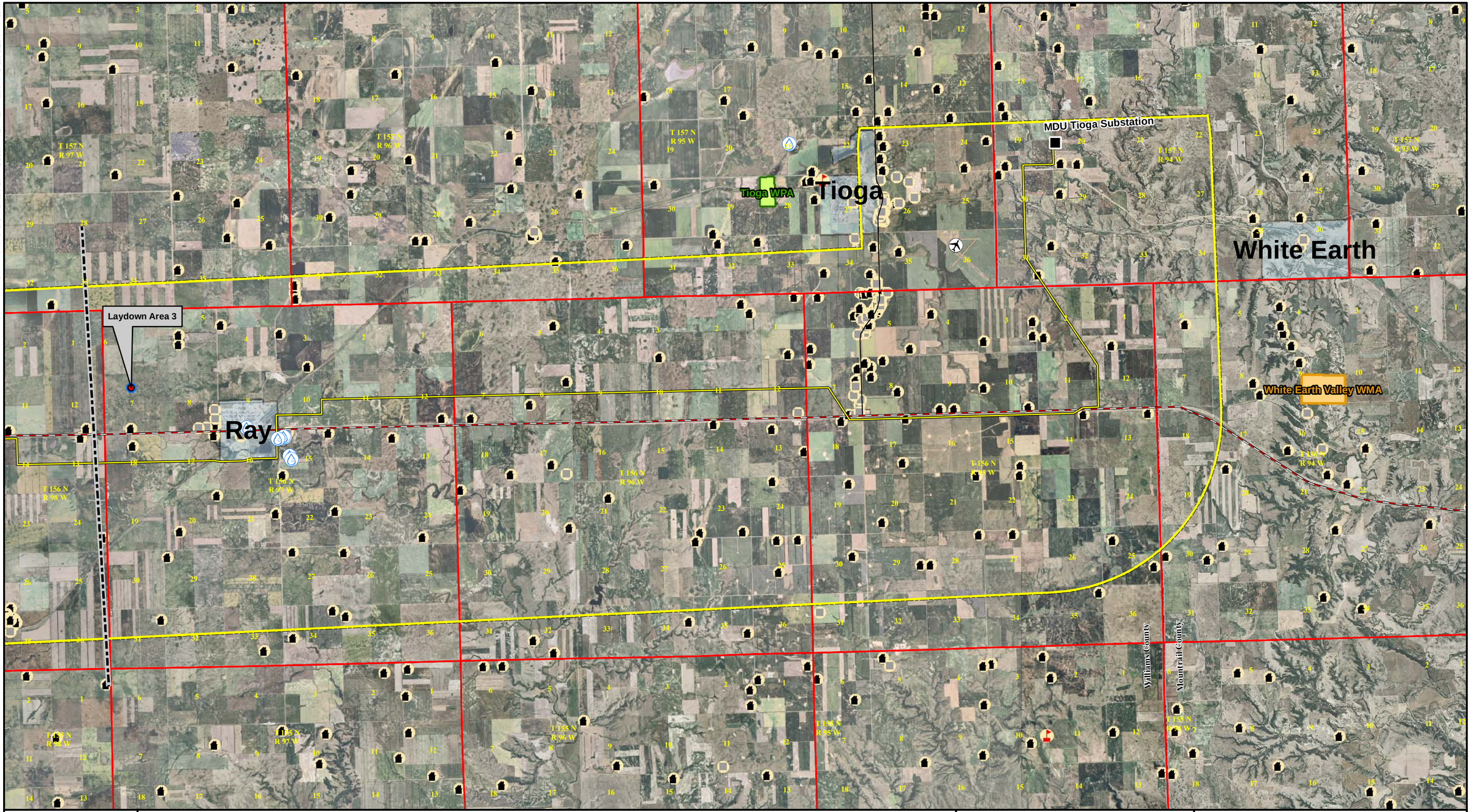

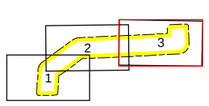

LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

AVOIDANCE FEATURES

- MUNICIPAL WATER WELLS
- ABANDONED MINES
- AIRPORT
- RESIDENCE OR OTHER STRUCTURE WITH 500 FT. BUFFER
- PLACE OF BUSINESS WITH 500 FT. BUFFER
- SCHOOL WITH 500 FT. BUFFER
- LANDSLIDE AREAS
- IRRIGATED AREAS
- USACE WILDLIFE/GRASSLAND MANAGEMENT AREAS
- STATE WILDLIFE MANAGEMENT AREAS
- USFWS WATERFOWL PRODUCTION AREAS

N

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

Western AREA POWER ADMINISTRATION

Exhibit F-6
Proposed Corridor
Avoidance Areas

Sources:Schools - USGS, GNIS; Residential/Business - NDDatahub; Geology - NDGS,2004; Wildlife - NDGF, NDDatahub, USFWS; Water Supply - North Dakota State Water Commission

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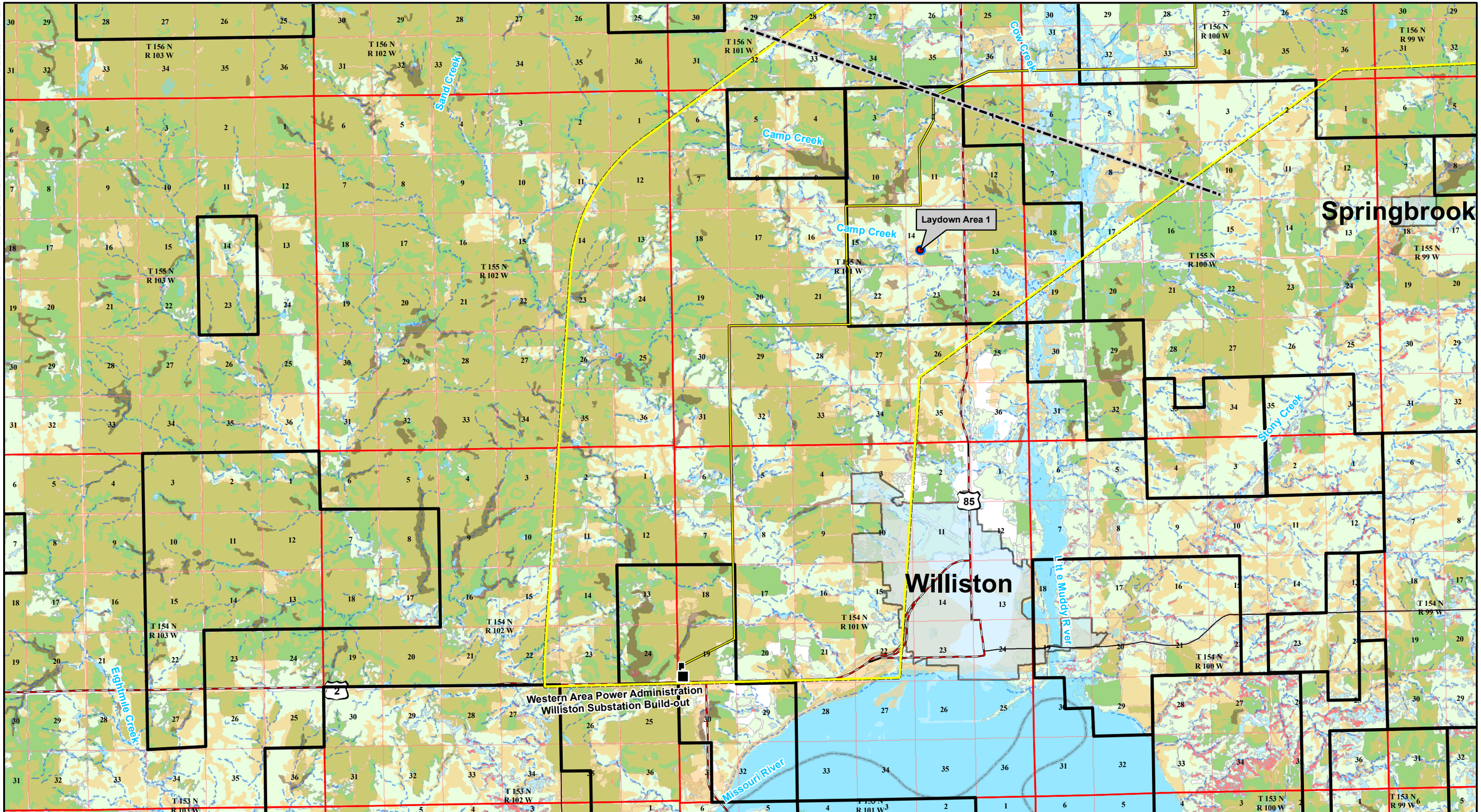

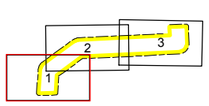

LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

Selection Criteria

- PRIME FARMLAND
- FARMLAND OF STATEWIDE IMPORTANCE
- CULTIVATED CROPS
- FORESTED
- GRASSLAND/HERBACEOUS
- PASTURE/HAY
- POND, LAKE, OR WETLAND
- INTERMITTENT STREAMS
- PERENNIAL STREAMS
- GAS PLANT BOUNDARY
- OIL FIELD BOUNDARY

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

Western AREA POWER ADMINISTRATION

Exhibit F-7
Proposed Corridor
Selection Criteria

Sources: Farmland - Ssurgo; Landclass - NLCD 2001; Streams/Wetland - NWI, NHD; Oil/Gas - NDIC Oil and Gas Division 2008.

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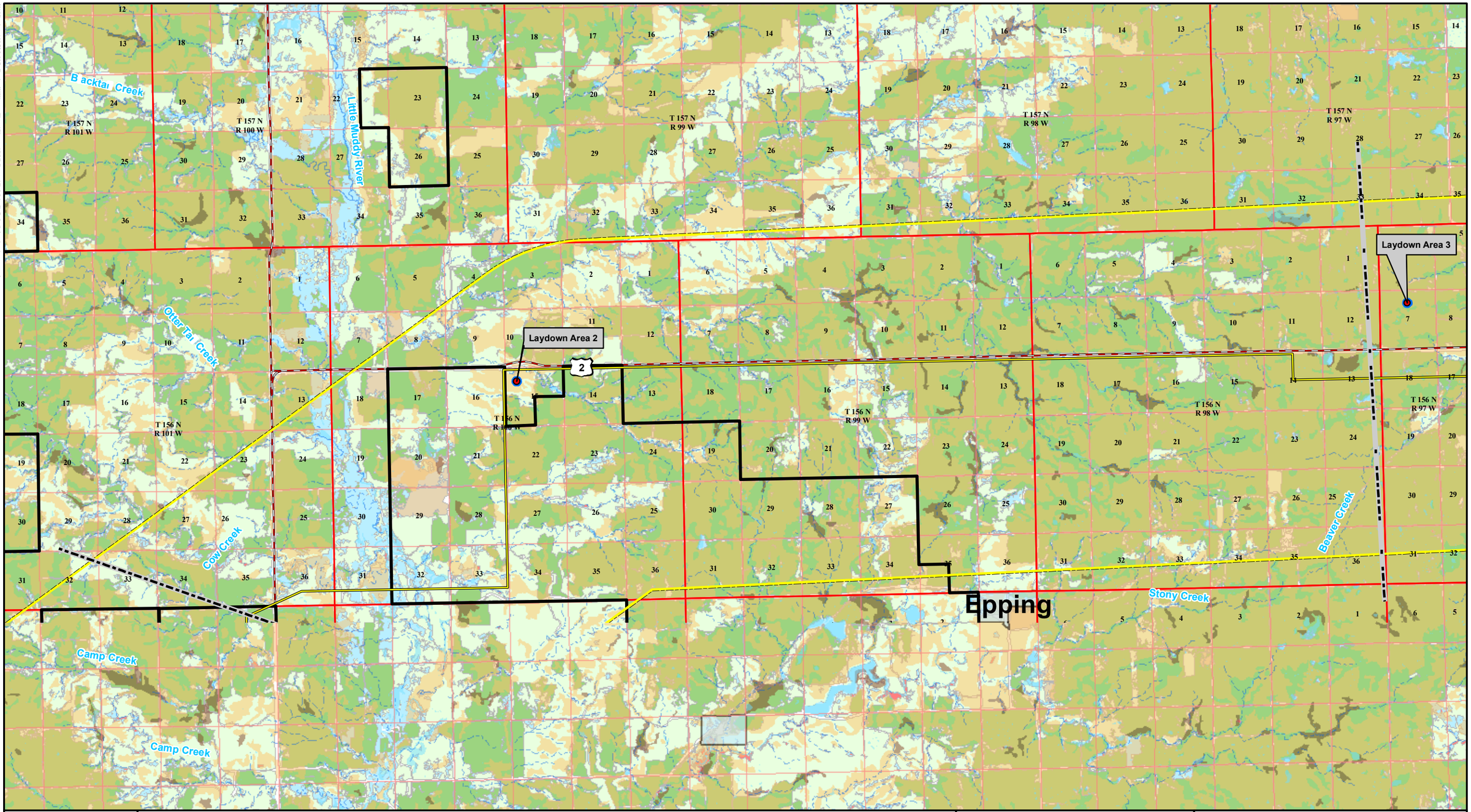

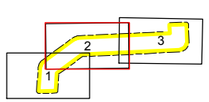

LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

Selection Criteria

- PRIME FARMLAND
- FARMLAND OF STATEWIDE IMPORTANCE
- CULTIVATED CROPS
- FORESTED
- GRASSLAND/HERBACEOUS
- PASTURE/HAY
- POND, LAKE, OR WETLAND
- INTERMITTENT STREAMS
- PERENNIAL STREAMS
- GAS PLANT BOUNDARY
- OIL FIELD BOUNDARY

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

Western AREA POWER ADMINISTRATION

Exhibit F-8
Proposed Corridor
Selection Criteria

Sources: Farmland - Ssurgo; Landclass - NLCD 2001; Streams/Wetland - NWI, NHD; Oil/Gas - NDIC Oil and Gas Division 2008.

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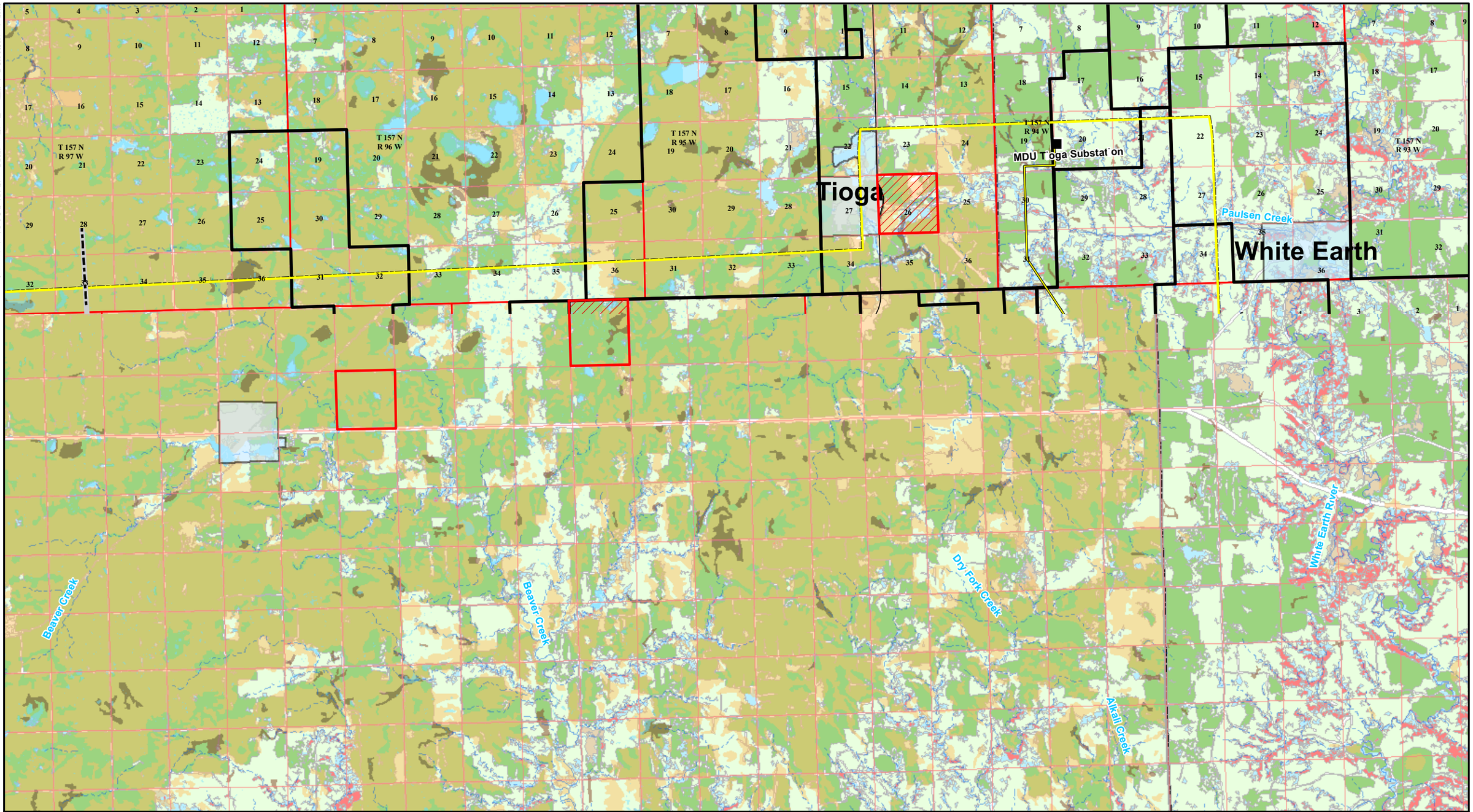

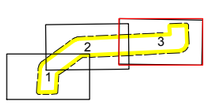

LEGEND

- PROPOSED ROUTE
- PROPOSED CORRIDOR
- SUBSTATIONS
- MATCH LINE
- TOWNSHIP
- CITY/TOWN

Selection Criteria

- PRIME FARMLAND
- FARMLAND OF STATEWIDE IMPORTANCE
- CULTIVATED CROPS
- FORESTED
- GRASSLAND/HERBACEOUS
- PASTURE/HAY
- POND, LAKE, OR WETLAND

- INTERMITTENT STREAMS
- PERENNIAL STREAMS
- GAS PLANT BOUNDARY
- OIL FIELD BOUNDARY

1.5 0.75 0 1.5
Scale in Miles

3 1.5 0 3
Scale in Kilometers

Williston to Tioga Transmission Project

BASIN ELECTRIC POWER COOPERATIVE
A Touchstone Energy® Cooperative

Western AREA POWER ADMINISTRATION

Exhibit F-9
Proposed Corridor
Selection Criteria

Sources: Farmland - Ssurgo; Landclass - NLCD 2001; Streams/Wetland - NWI, NHD; Oil/Gas - NDIC Oil and Gas Division 2008.

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