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July 6, 2015

Mr. Darrell Nitschke
NORTH DAKOTA PUBLIC
SERVICE COMMISSION
600 E. Boulevard Avenue, Dept. 408
Bismarck, ND 58505-0480



Dear Mr. Nitschke:

In re: In the matter of the Application of
Vantage Pipeline US, LP
Williams and Divide Counties, North Dakota
Case No. PU-15-142
Our File No. 74-563-001

Enclosed for filing are seven copies of the Vantage West Spur Tree/Shrub Reclamation Plan.

Please call should you have any questions.

Very truly yours,

A handwritten signature in blue ink, appearing to be "B. Bjella".

Brian Bjella

bw
Enc.

TREE AND SHRUB RECLAMATION PLAN

Prepared for:

State of North Dakota Public Service Commission
Vantage West Spur Lateral Pipeline
Case No: PU-15-142

June 25, 2015

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Introduction

This document outlines the methods Vantage Pipeline US LP (owned/operated by Pembina) will use to replant the trees and shrubs that will be removed within their pipeline corridor. The approximately 47.8 mile pipeline alignment extends from a natural gas processing plant near Williston, North Dakota to an existing pipeline system near Stady, North Dakota within Divide and Williams Counties. The construction right-of-way (ROW) is planned to be 100 feet wide, which is made up of 30 feet of permanent right-of-way (PROW) and 70 feet of temporary work space. The PROW will be maintained for the lifetime of the pipeline. Vantage/Pembina agrees to comply with all stipulations in the State of North Dakota Public Service Commission's (PSC) Tree and Shrub Mitigation Specifications, including the reclamation requirements outlined in this document.

Field Inventory

The Tree and Shrub Sampling Plan for the Vantage West Spur Lateral Pipeline was submitted to the PSC with the Siting Application on April 13, 2015. The field inventory of trees and shrubs present on the ROW and PROW occurred in May of 2015, prior to construction. During construction, the actual number of tree and shrubs removed will be recorded and the tree and shrub replacement numbers adjusted accordingly. Data collected during the pre-construction inventory included:

- Date of inventory
- Field scientist(s) conducting inventory
- General location: Milepost and GPS location
- Species name
- Number of individual trees or shrubs
- Whether the trees or shrubs were planted (e.g. windbreak) or volunteer in a grassland
- General notes or landowner specifications for replacement

The tree and shrub field inventory identified ten species of tree and shrubs along the Vantage West Spur Lateral Pipeline ROW (Table 1).

Table 1. Tree and shrub species present on the Vantage West Spur Lateral Pipeline ROW.

Common Name	Latin Name	Native Status	Total Inventoried Pre-construction	Total Proposed for Replacement
Big Sage	<i>Artemisia tridentata</i>	Native	80	160
Caragana	<i>Caragana arborescens Lam.</i>	Non-native	31	62
Chokecherry	<i>Prunus virginiana</i>	Native	12	24
Cottonwood	<i>Populus deltoides</i>	Native	11	22
Green Ash	<i>Fraxinus pennsylvanica</i>	Native	30	60
Horizontal juniper	<i>Juniperus horizontalis</i>	Native	37	74
Prairie Rose	<i>Rosa arkansana</i>	Native	2	4
Silver Buffaloberry	<i>Shepherdia argentea</i>	Native	1	2
Silverberry	<i>Elaeagnus commutata</i>	Native	30	60
Snowberry	<i>Symphoricarpos occidentalis</i>	Native	332	664
TOTAL			566	1132

Reclamation Plan

During construction, tree and shrub species within the right-of-way (ROW) will be avoided when practical. The trees and shrubs that are removed within the ROW will be replaced at a 2:1 ratio. Woody species within the thirty foot PROW will be removed and the PROW will remain free of tree or shrubs to maintain the integrity of the pipeline. Therefore, trees and shrubs removed from the PROW will be replaced outside the PROW.

Replacement plants will be secured through the Williams or Divide County Conservation Districts. Trees will be at least two-year-old saplings, and shrubs will be seedlings. Upon approval of this plan, trees and shrubs will be planted following construction. Construction is anticipated to occur in fall/winter 2015. Trees and shrubs will preferably be planted by May 2016 when soils are moist to improve plant establishment.

There are four species of trees and shrubs in the windbreaks, shelterbelts or planted areas surveyed on the Vantage West Spur Lateral Pipeline route (Table 2). The same species will be replaced in approximately the same locations (outside of the PROW). Plants will be replaced either within the ROW or in gaps within the existing windrow (Appendix A). Caragana can be considered invasive species where it escapes cultivation and spreads into native grasslands. When caragana are in windbreaks surrounded by cropland, as they are on the Vantage West Spur Lateral Pipeline, the North Dakota Forest Service does recommend replanting caragana (Smith 2013).

Table 2. Windbreak, shelterbelt and planted trees and shrubs.

Species	Number of Individuals Inventoried	Number of Replacements
Green Ash	30	60
Caragana	31	62
Cottonwood	11	22
Chokecherry	10	20

The landowner where each tree or shrub removal location occurs will be contacted regarding the suggested replacement. The landowner will be given the option to have the plantings located in the vicinity of the removed plants or planted in a single windrow or shelterbelt (Appendix A). Replacing the trees and shrubs in windrows may help improve survival as irrigation and maintenance would be possible.

Seven species of native shrubs inventoried on the pipeline alignment were growing in grassland areas (Table 3). The total shrubs inventoried represent the estimated number of individual plants in the ROW. Snowberry and rose are rhizomatous shrubs, and chokecherry, silverberry and silver buffaloberry are suckering shrubs. Individual snowberry plants can form multi-stem colonies 3 - 700 feet in diameter (Hauser 2007). The growth habit of these rhizomatous species can make it difficult to determine the number of individual plants within the ROW. During the inventory, shrubs were considered one individual if the multiple stems emerged from a common center.

Table 3. Native shrubs found in grasslands along the Vantage West Spur Lateral Pipeline.

Species	Number of Stems Inventoried	Number of Replacements	Suggested Replacement Method
Big Sage	80	160	Planting
Chokecherry	2	4	Planting
Horizontal juniper	37	74	Planting
Prairie Rose	2	4	Natural Regeneration + seed
Silver buffaloberry	1	2	Planting
Silverberry	30	60	Planting
Western snowberry	166	332	Natural Regeneration + seed

Following the PSC guidelines, in native growth areas the shrubs within the PROW will be replaced. However, where possible in grassland areas outside the PROW, shrubs will be cut flush with the ground to leave the root mass and seed bank in place for natural regeneration. Where soil disturbance is necessary, the soil will be preserved and replaced after construction to allow for natural regeneration of the shrubs from roots and seeds in the soil. Snowberry shrubs regenerate vegetatively by root segments (rhizomes) and prairie rose regenerates from seed and sprouting root crowns. The snowberry and rose will sprout following mowing or cutting to regenerate naturally along the pipeline (Table 3). Their root segments and seed will be preserved in topsoil and re-distributed along the ROW during reclamation. In addition, snowberry and rose seed will be purchased and broadcast applied to areas the species were present pre-pipeline disturbance. Seed will be broadcast at rate proportionate to the number of inventoried stems per location.

The juniper and big sagebrush will be re-planted because they do not regenerate well from root stock in the soil. The chokecherry, silverberry and silver buffaloberry can regenerate from root stock; however, they will be direct planted to ensure their establishment. These five species will be replanted at a 2:1 ratio in the approximate location they were removed or in an area preferred by the landowner (Appendix A).

Monitoring

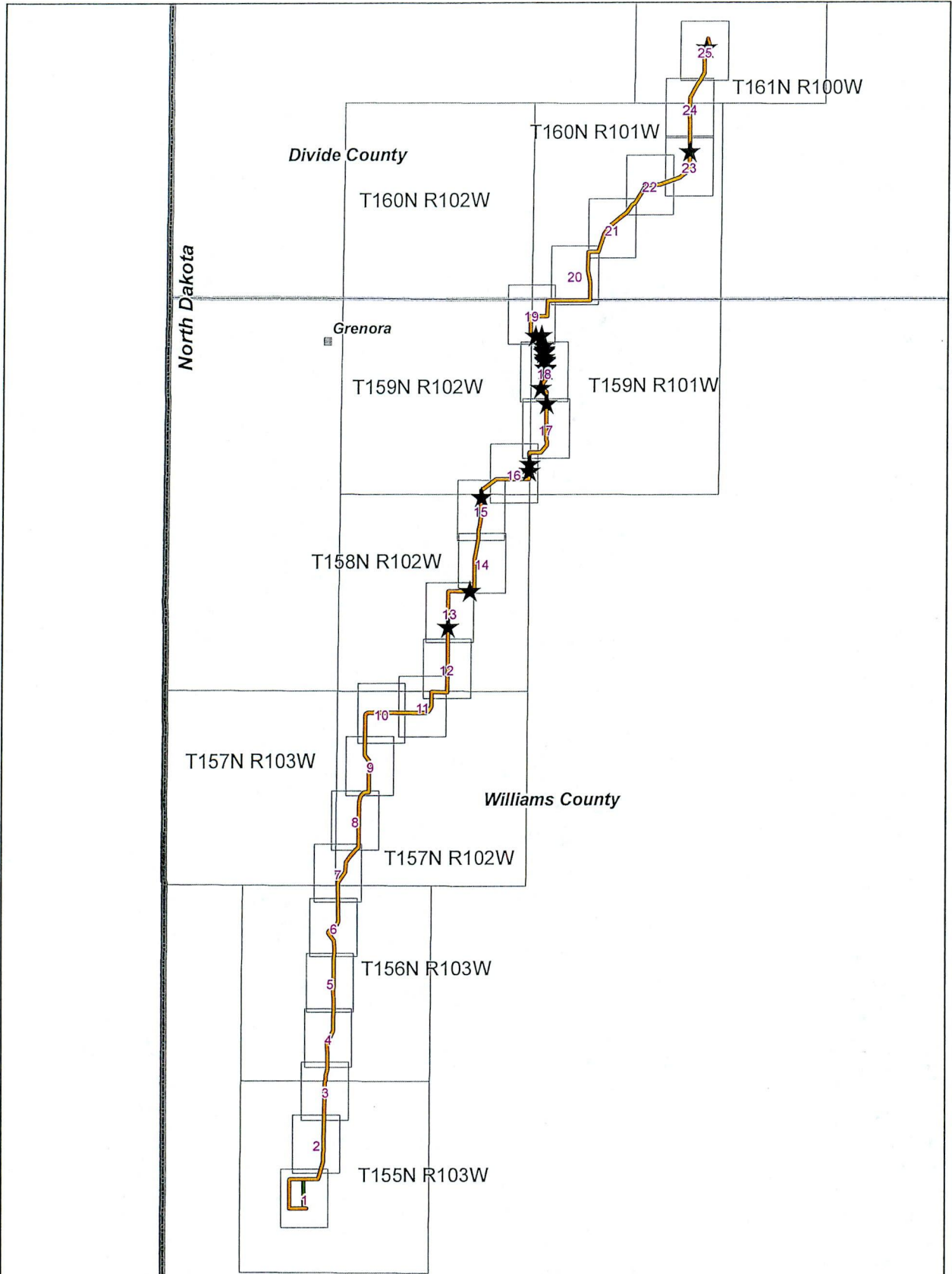
All tree and shrub replacements will be inspected annually in September for three years following planting to monitor survival rate. This will include the areas where natural regeneration is the reclamation strategy. The first annual inspection will be at least one growing season from the anniversary of the planting date. A report with the results of each annual inspection will be provided to the PSC by October of each year. If the annual survival of the planted trees and shrubs does not meet or exceed 75% survival, then additional trees and shrubs will be planted.

References

- Hauser, A. S. 2007. *Symphoricarpos occidentalis*. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Available: <http://www.fs.fed.us/database/feis/> [2013, September 25].
- Smith, L.M. 2013. Personal Communications with the Stewardship Specialist, ND Forest Service. October 21, 2013.

Appendix A

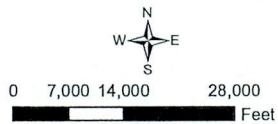
Map Book with Pre-construction Tree and Shrub Locations



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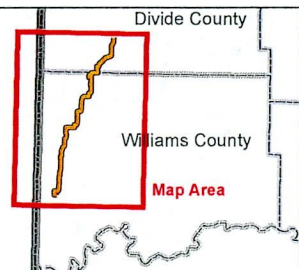
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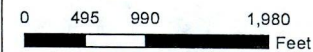
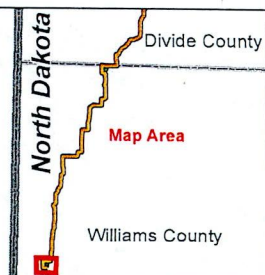
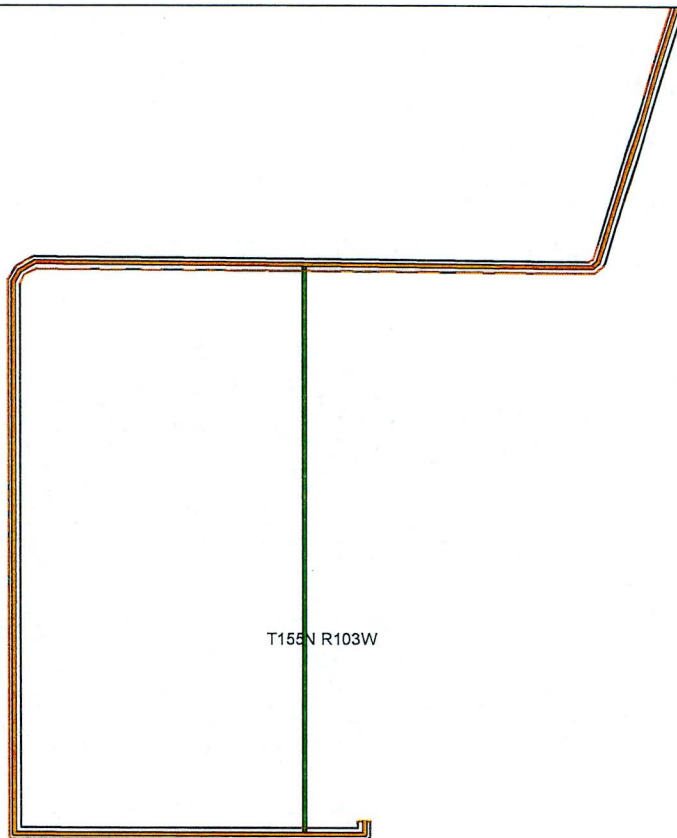
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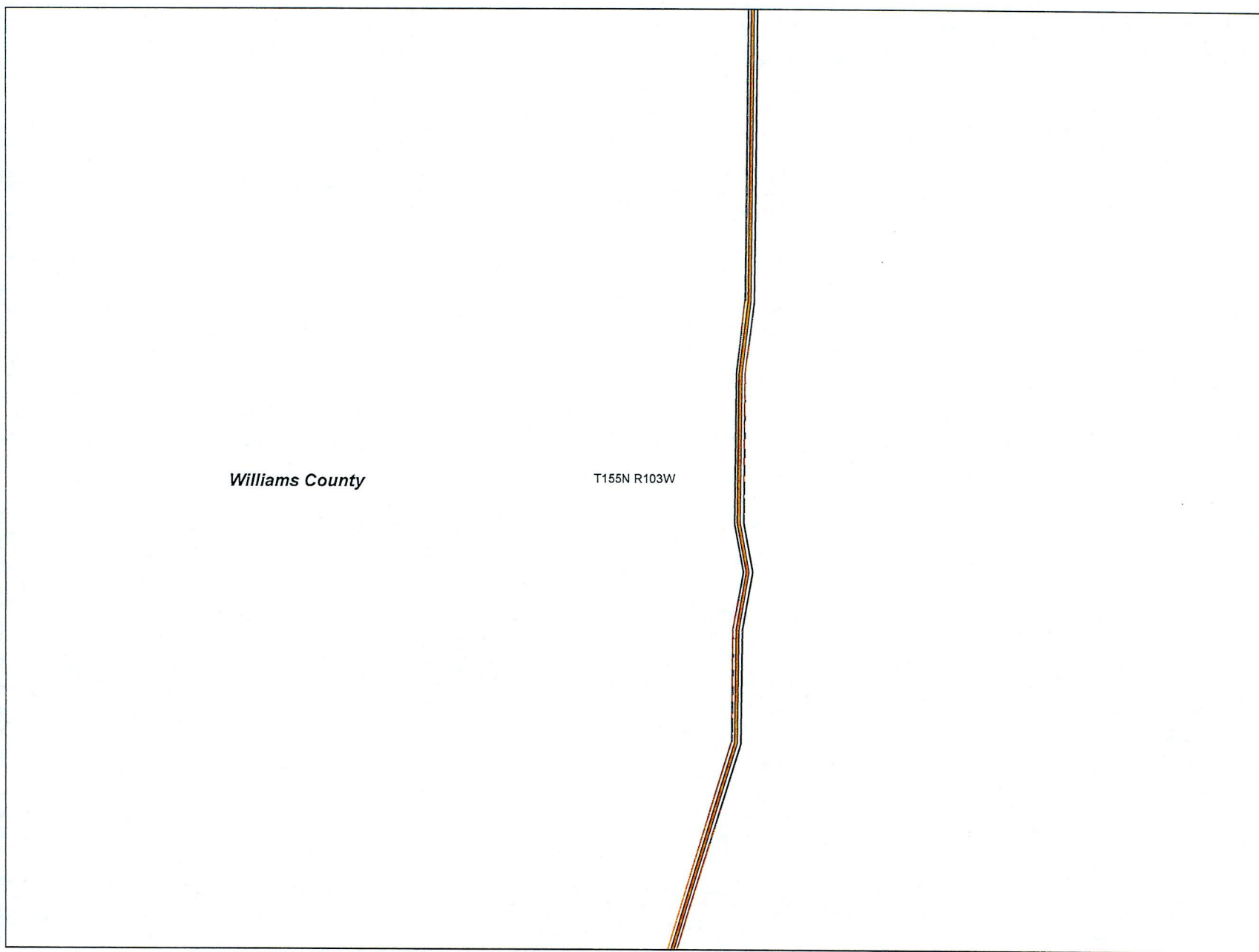
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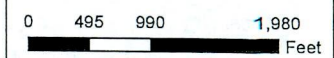
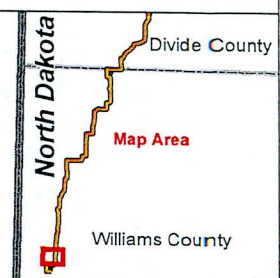
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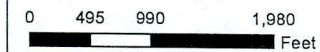
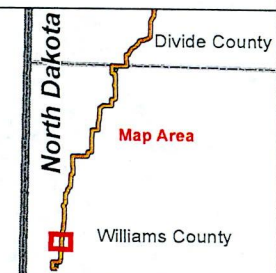
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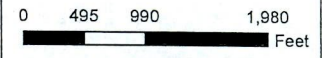
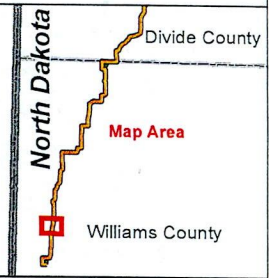
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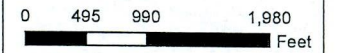
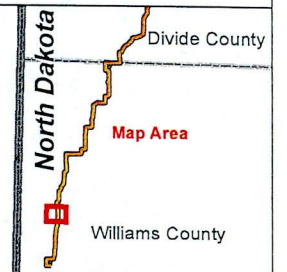
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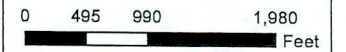
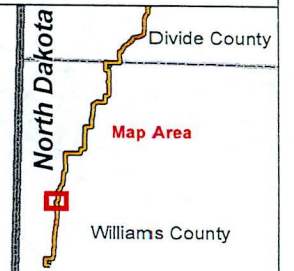
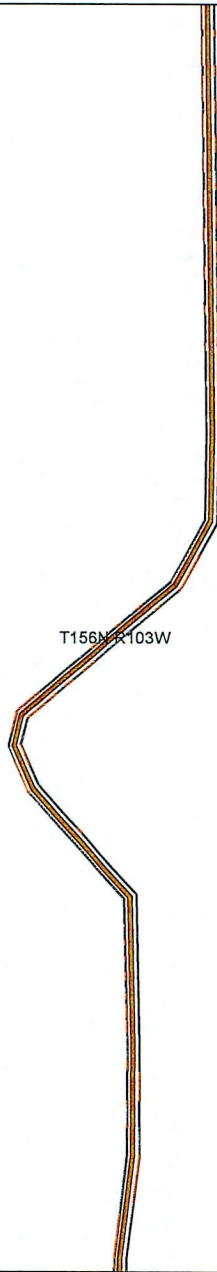
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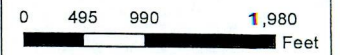
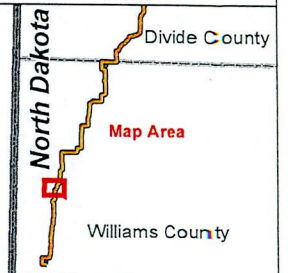
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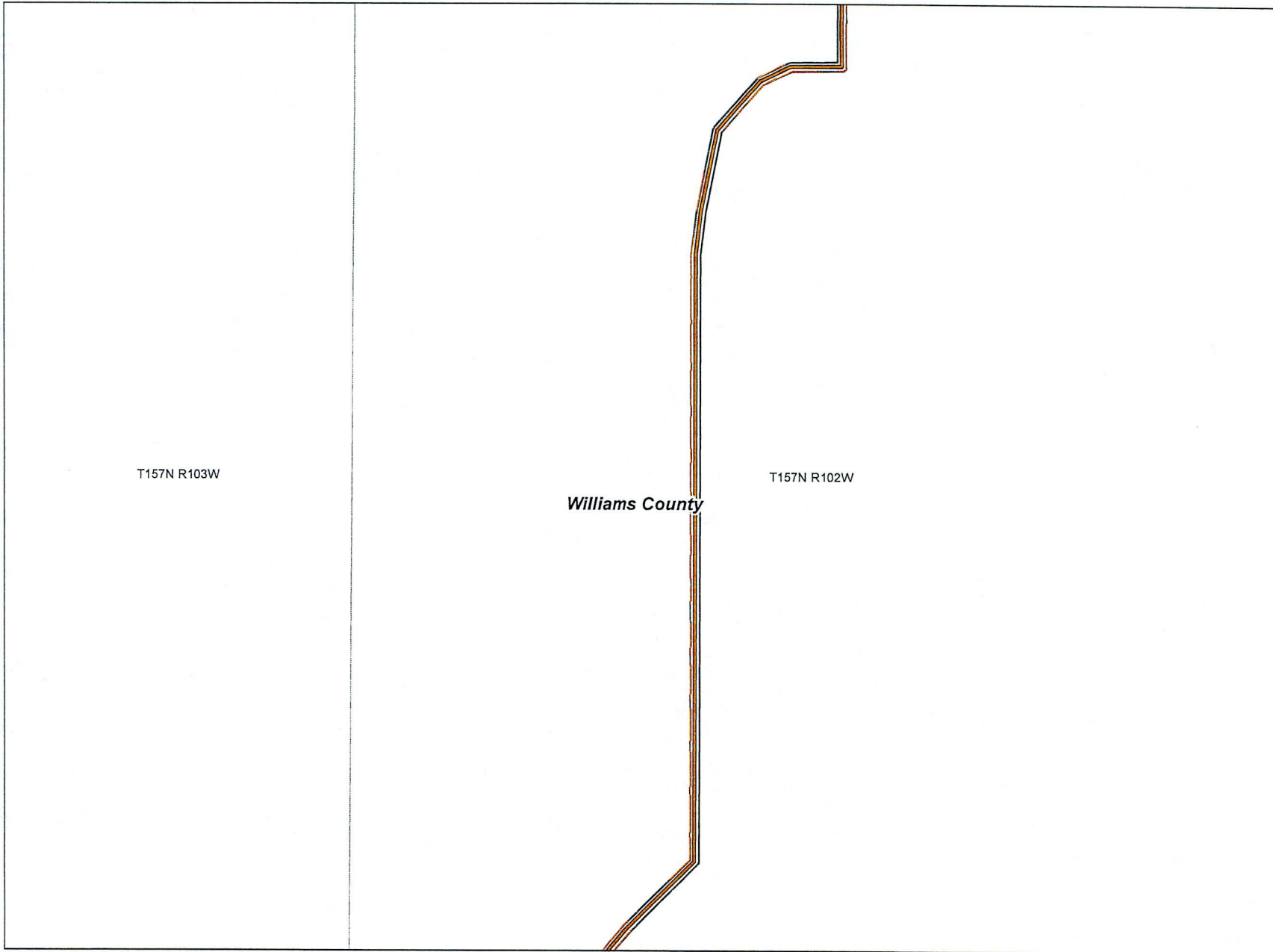
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


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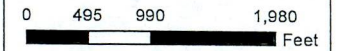
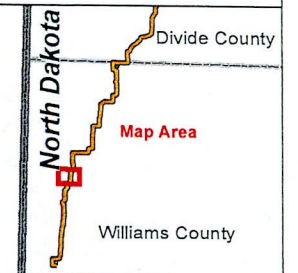
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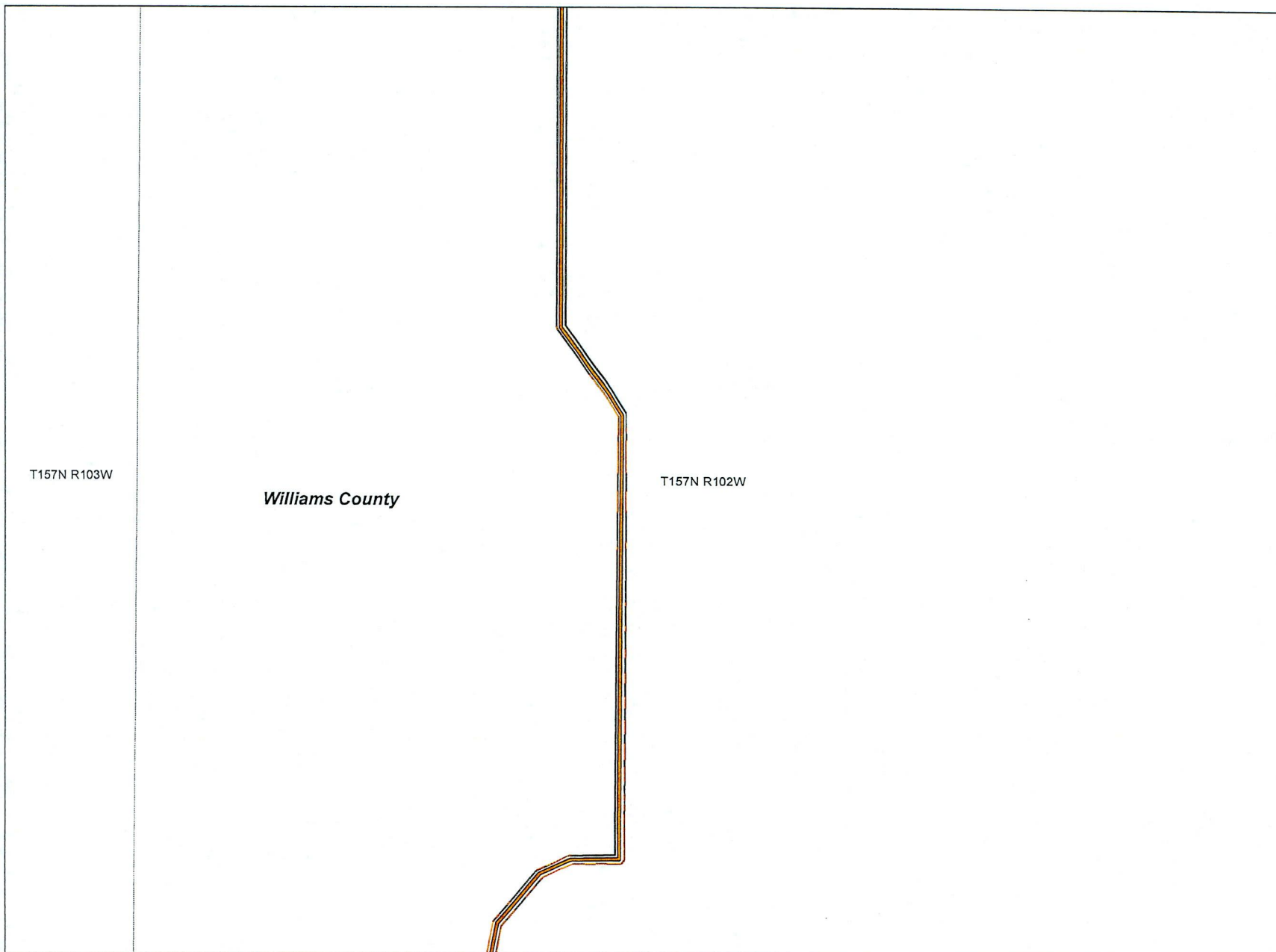
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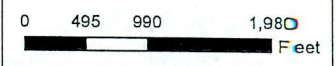
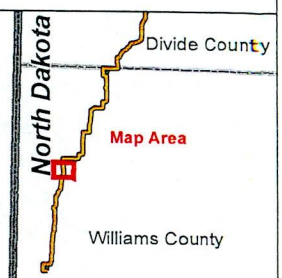
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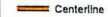






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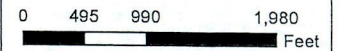
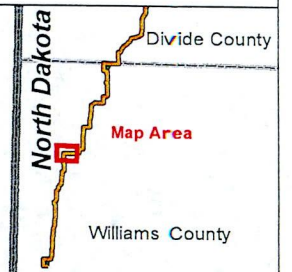
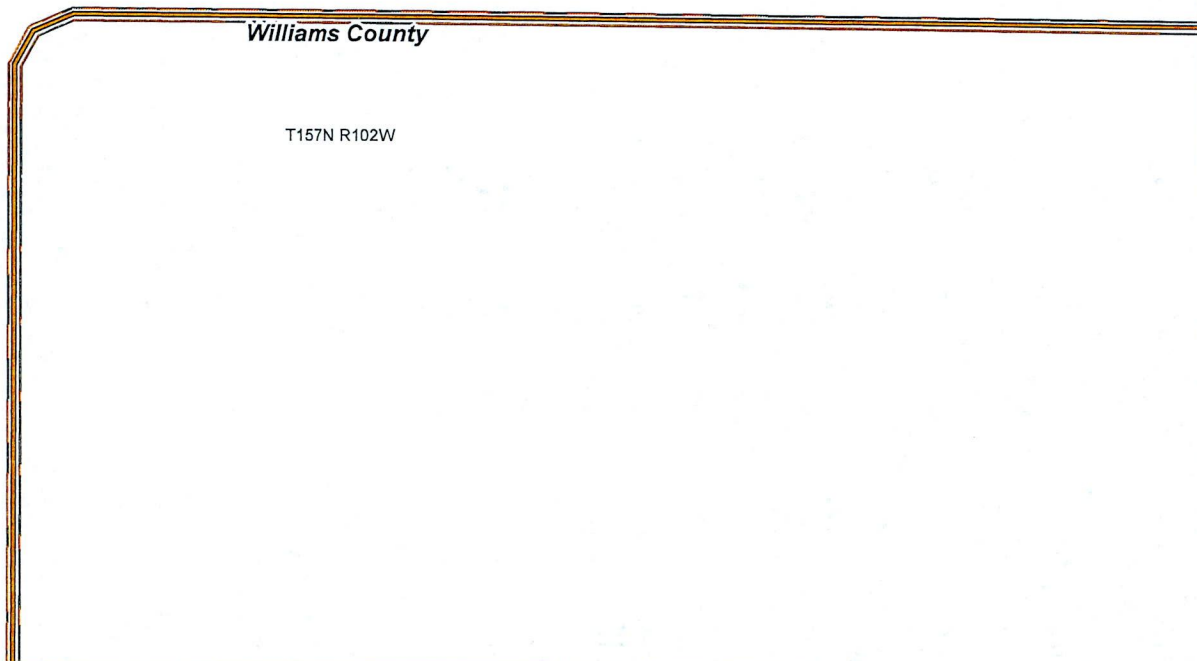
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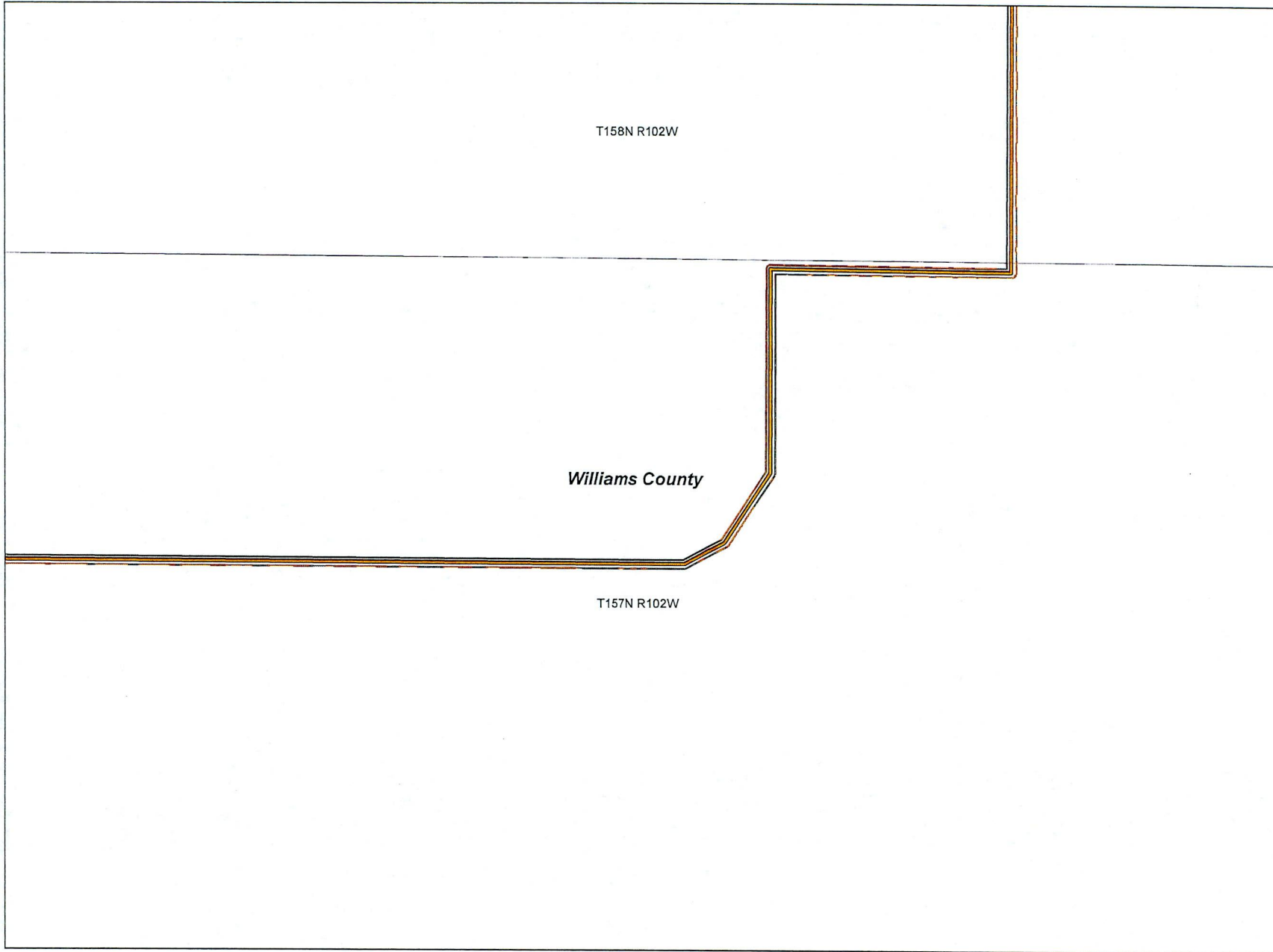
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






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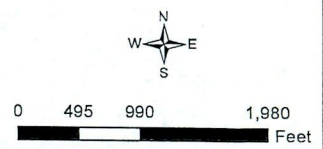
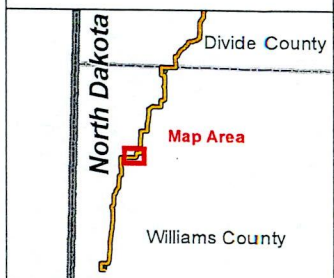
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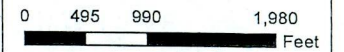
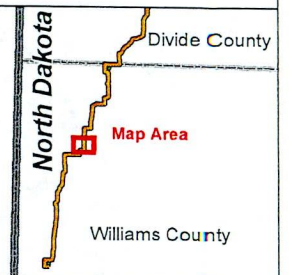
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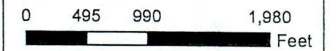
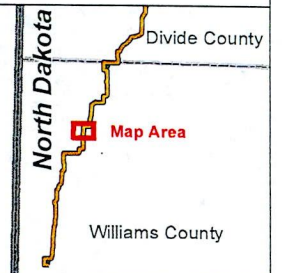
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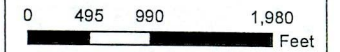
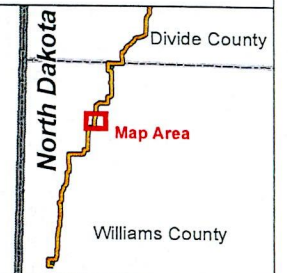
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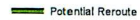







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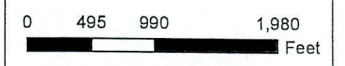
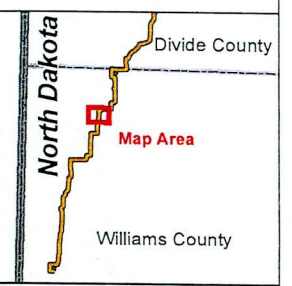
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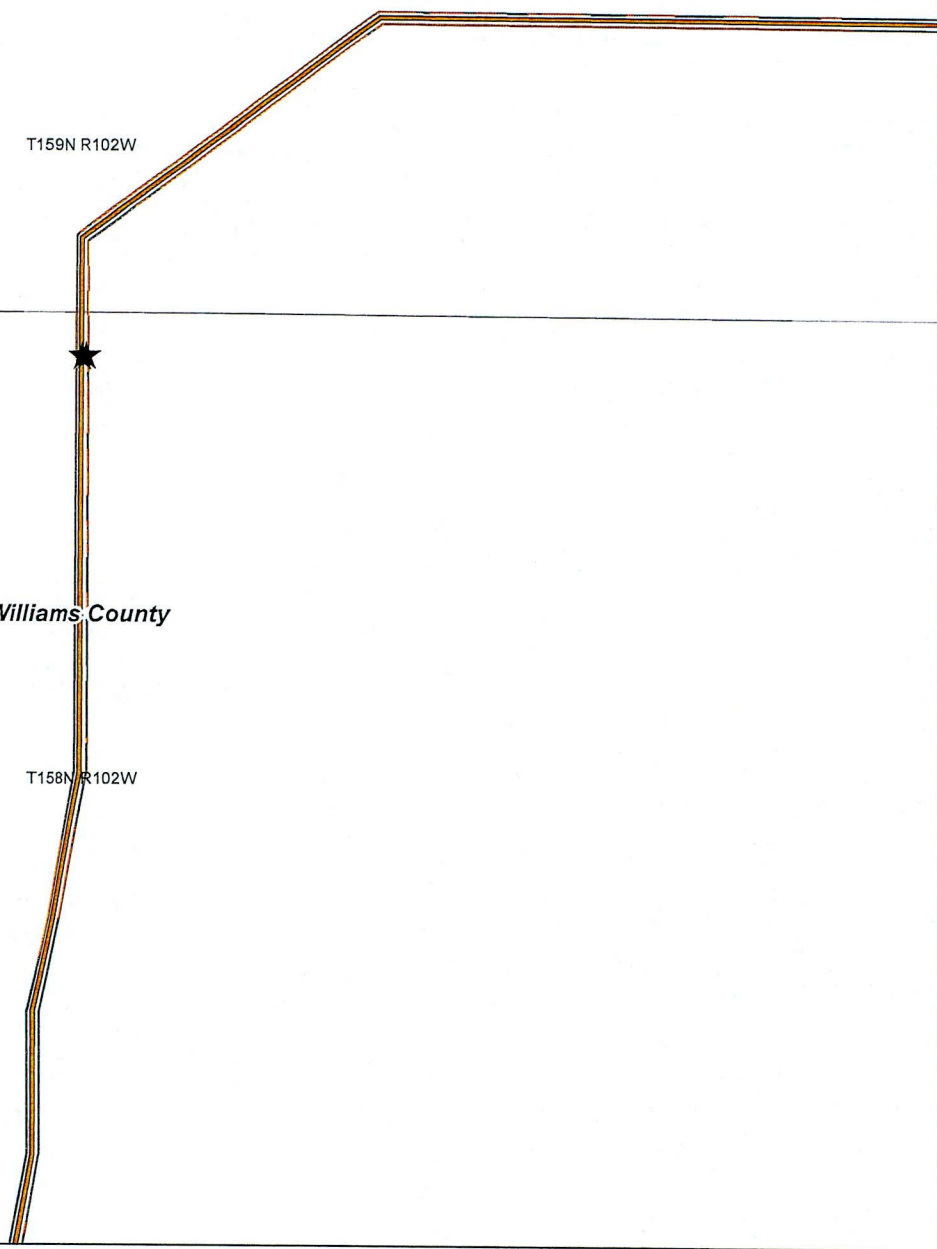


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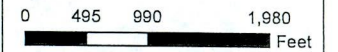
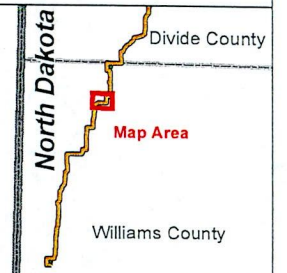
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






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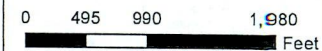
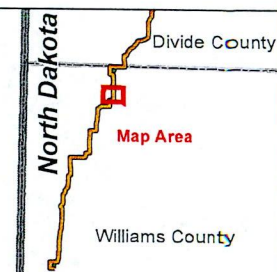
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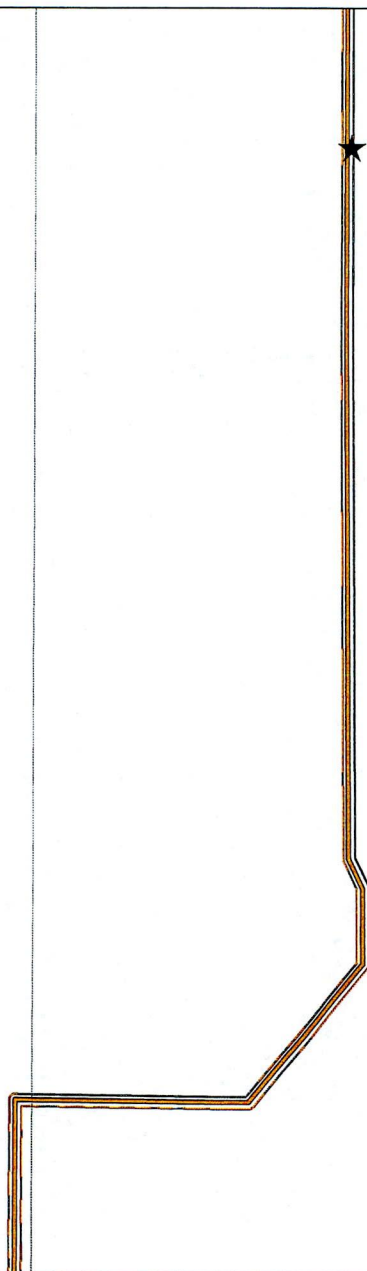


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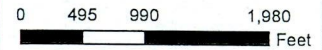
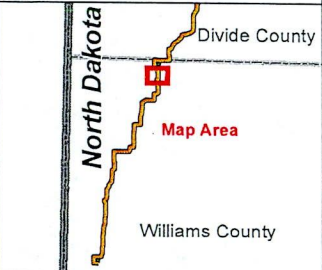
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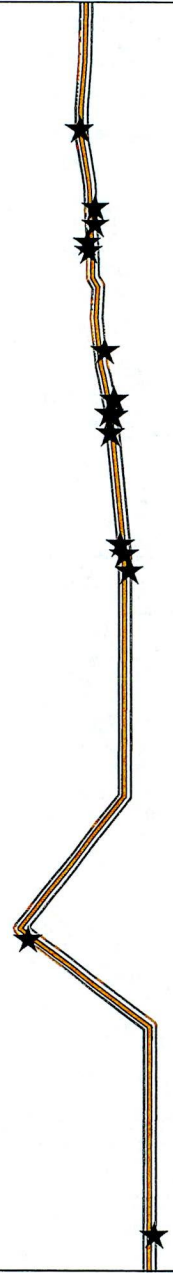


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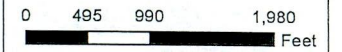
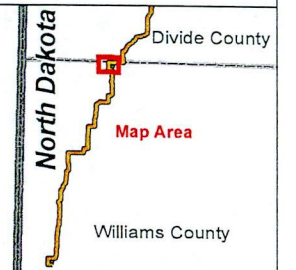
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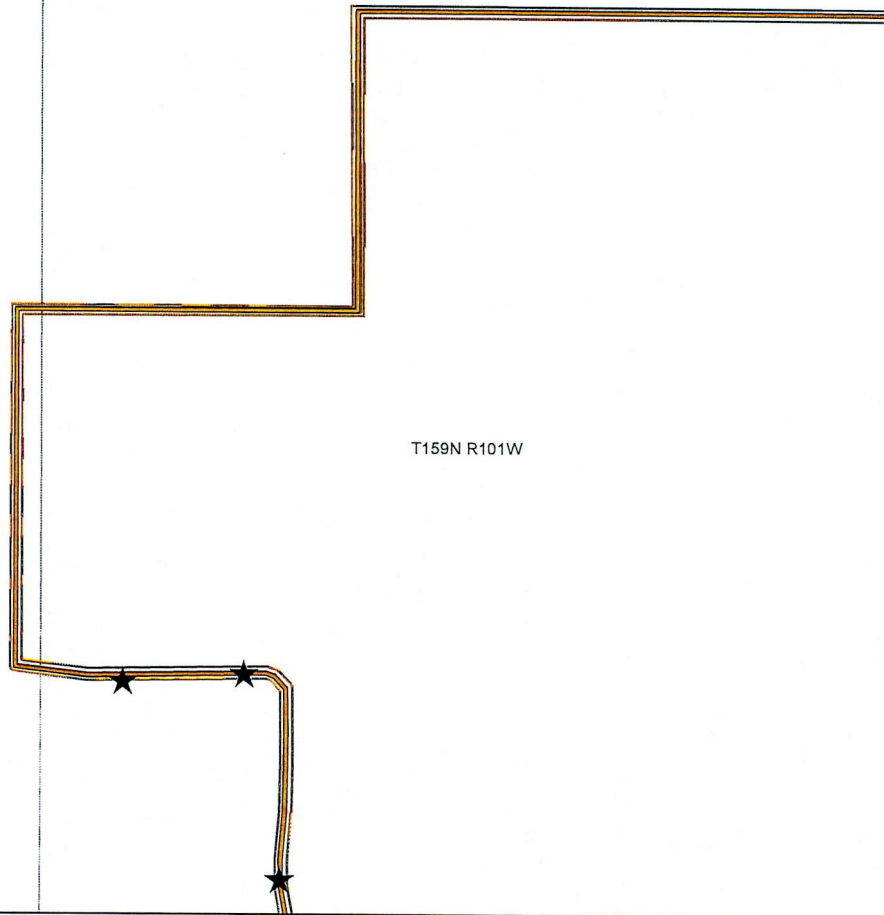
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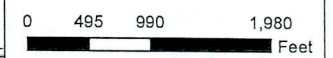
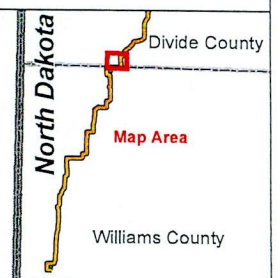
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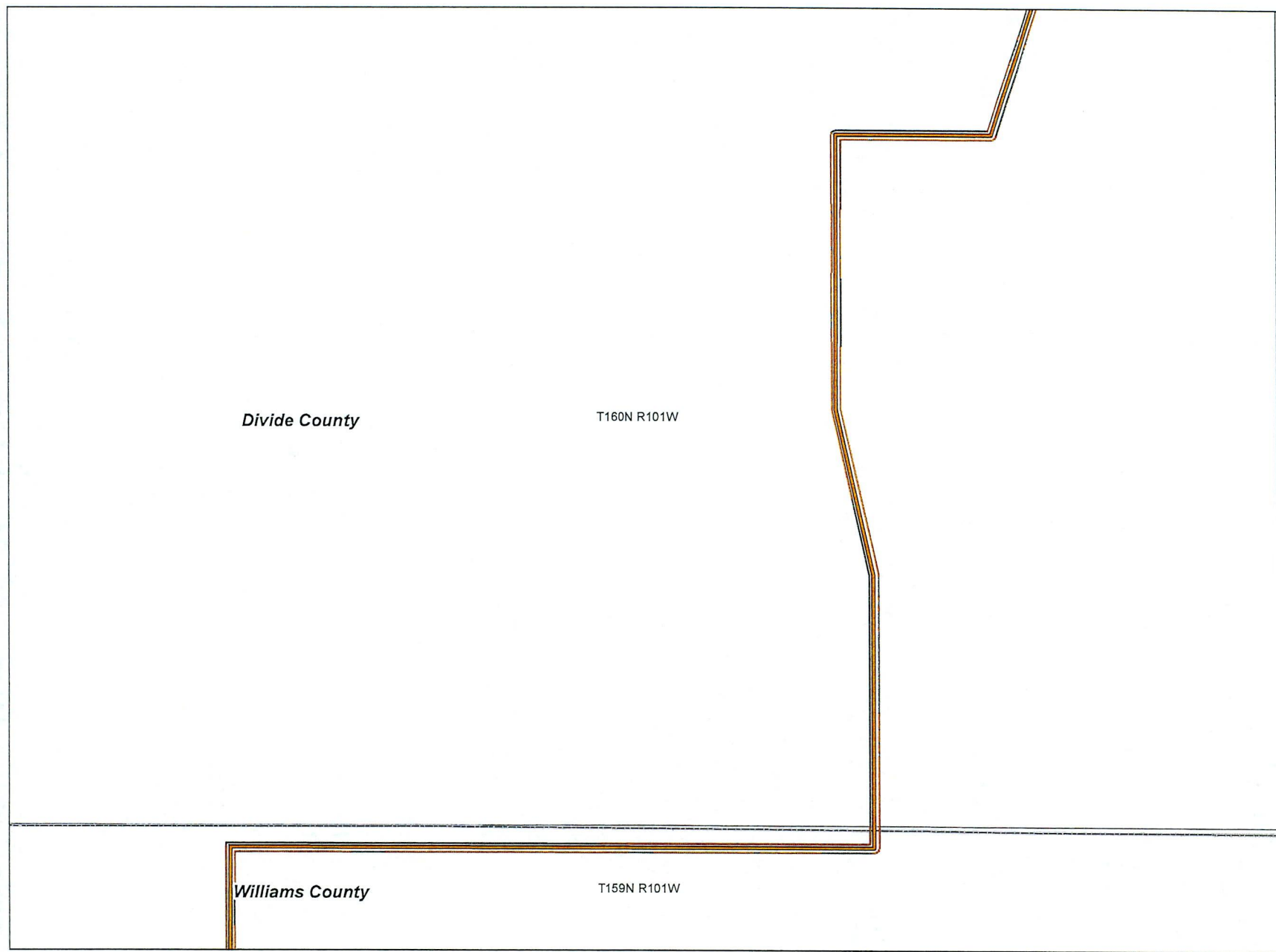
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







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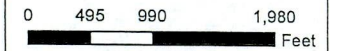
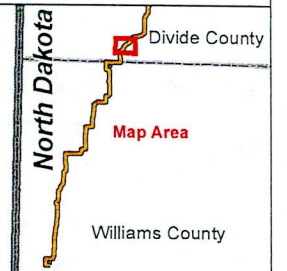
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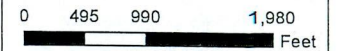
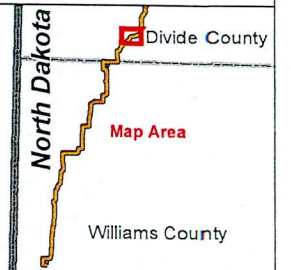
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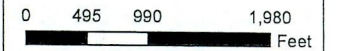
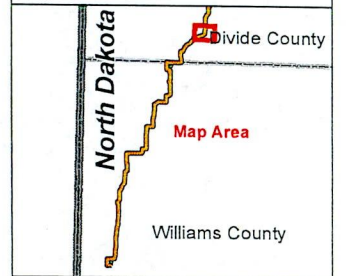
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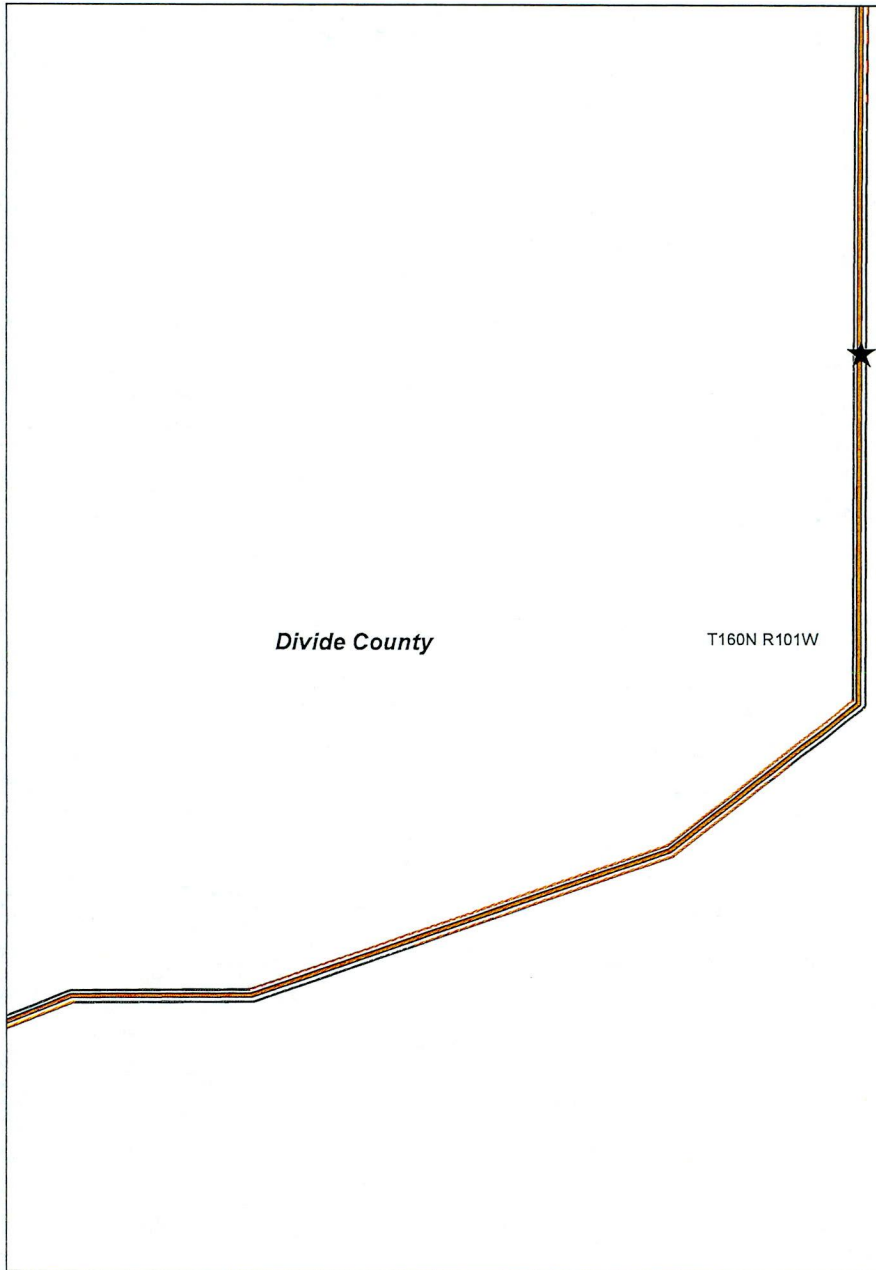


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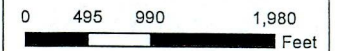
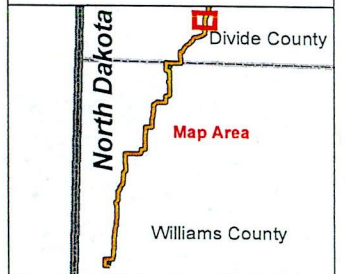
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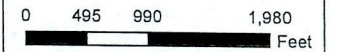
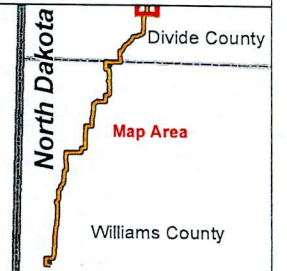
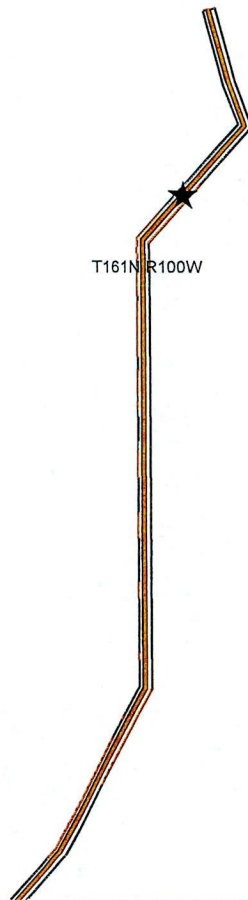
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