



ONEOK

ONEOK Rockies Midstream, L.L.C.

12" Cherry Creek Lateral Pipeline Conversion Project

**Tree and Shrub Mitigation Plan
for the North Dakota Public Service Commission**

Case No. PU-17-483

February 2018

TABLE OF CONTENTS

1.	INTRODUCTION.....	1
2.	TREE AND SHRUB INVENTORIES	2
2.1	USACE-Managed Land	3
2.2	2011/2012 Construction	3
3.	PROPOSED MITIGATION MEASURES	4
3.1	USACE-Managed Land	4
3.2	2011/2012 Construction	4
4.	CONCLUSION.....	5

LIST OF FIGURES

Figure 1-1	Overview Map.....	2
------------	-------------------	---

LIST OF TABLES

Table 2.2-1	Estimated Numbers of Trees/Shrubs Removed During 2011/2012 Construction	3
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LIST OF APPENDICES

Appendix A	Proposal for Tree/Vegetation Replacement on U.S. Army Corps of Engineers Land	
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1. INTRODUCTION

Two subsidiaries of ONEOK, Inc., ONEOK Rockies Midstream, L.L.C. (ONEOK) and ONEOK Bakken Pipeline, L.L.C. (OBP), own and operate natural gas and natural gas liquid (NGL) assets respectively in North Dakota. ONEOK is proposing to convert its existing 38-mile-long Stateline to Rawson 12" Pipeline and a portion of its Cherry Creek to Rawson Pipeline, both natural gas gathering pipelines located in Williams and McKenzie counties originally constructed in 2011/2012, into NGL transmission pipelines (herein referred to as the 12" Cherry Creek Lateral Pipeline Conversion Project or the "Project"). The pipeline originates at ONEOK's Lonesome Creek Plant and terminates at ONEOK's Stateline Plant (see Figure 1-1) where it will deliver into OBP's Bakken Pipeline. Conversion of the pipeline will not require any new construction; however, ONEOK is proposing in-facility work in February 2018 at its Lonesome Creek and Stateline plants, and installation of remotely actuated block valves at two existing valve sites. In addition to this work, ONEOK is proposing to 1.) clear trees along land managed by the U.S. Army Corps of Engineers (USACE) to aid in aerial inspections and 2.) address trees and shrubs removed during the original construction of these pipelines in 2011/2012.

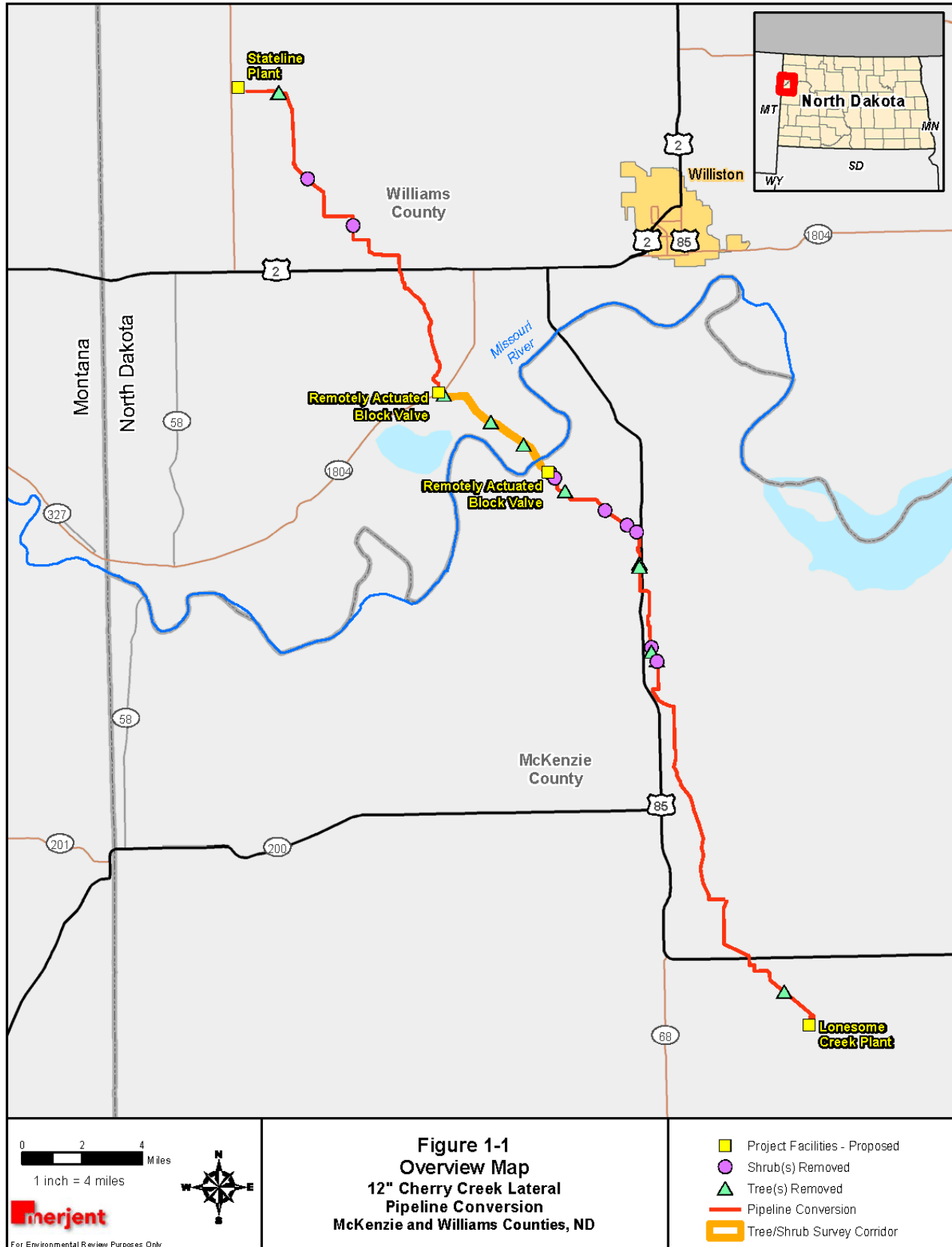
In accordance with the North Dakota Public Service Commission's (PSC) Tree and Shrub Mitigation Specifications, ONEOK will inventory trees and shrubs to be removed during the Project and replace them at a two to one ratio using same or similar species, except in the case of invasive species and noxious weeds. ONEOK understands that affected landowners are permitted to allow replanting at an alternate location. Tree and shrub replacement plantings will be inventoried and documented to the PSC. Annual inspections of the replacement plantings will also be conducted each September for three years and the results filed with the PSC.

A portion of the Stateline to Rawson 12" Pipeline crosses USACE-managed land along the Missouri River. ONEOK is currently proposing to clear trees along a 10-foot-wide corridor within their existing 60-foot-wide easement across the Missouri River to facilitate regular aerial inspections of the pipeline right-of-way, as required by the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration regulations under 49 Code of Federal Regulations Part 193. ONEOK will replace trees and shrubs in compliance with USACE Garrison Project Standard Operating Procedure (SOP) #14 (see Exhibit B of Appendix A) which are at ratios equal to or higher than the PSC's requirement (see Section 3.1). The separate tree and shrub mitigation proposal specific to USACE-managed land is included as Appendix A.

Additionally, ONEOK is proposing to mitigate for trees and shrubs that were removed outside of USACE-managed land during construction of the Stateline to Rawson 12" Pipeline in 2011/2012 (herein referred to as "2011/2012 Construction"). Trees and shrubs were not inventoried prior to clearing; therefore, ONEOK has estimated the number removed and calculated replacement ratios using the methodology described in SOP #14 (see Section 3.2).

ONEOK hereby submits its tree and shrub inventory, mitigation plans, and replanting/monitoring proposal for clearing activities resulting from the Project. ONEOK respectfully requests that the PSC review this plan for adequacy and approval.

ONEOK Rockies Midstream, L.L.C.
 12" Cherry Creek Lateral Pipeline Conversion Project
 Tree and Shrub Mitigation Plan for the NDPS (Case No. PU-17-483)



2. TREE AND SHRUB INVENTORIES

2.1 USACE-MANAGED LAND

In October 2017, ONEOK conducted a pedestrian tree and shrub inventory to locate and classify trees and shrubs on properties owned and managed by USACE and the North Dakota Game and Fish Department along ONEOK's 60-foot-wide easement. All trees and singular shrubs were individually documented, and all shrub stands were documented using USACE clump count methodology. While the inventory was conducted across the entire 60-foot-wide easement, ONEOK's proposal covers tree and shrub removal across a 10-foot-wide corridor over the existing pipeline centerline for the purpose of conducting aerial surveys (see Appendix A for further details).

The following numbers and species of trees and shrubs were identified within the 10-foot-wide corridor: 5 green ash (*Fraxinus pennsylv*), 13 eastern cottonwood (*Populus deltoids*), 17 crack willow (*Salix fragilis*), 28,019 sandbar willow (*Salix interior*), and 21 common snowberry (*Symphoricarpos albus*). Table 2.1-1 in Appendix A provides a summary of the species observed within the 10-foot-wide corridor, along with growth form, native status, whether or not the species is listed on the recommended/approved USACE Tree/Shrub list in SOP #14, and count of species occurrences.

2.2 2011/2012 CONSTRUCTION

No tree and shrub inventory was conducted during construction activities in 2011/2012; therefore, ONEOK used SOP #14 guidelines (see Exhibit B of Appendix A) to estimate the number of trees and shrubs that were removed. Section 10(a)(iii) of SOP #14 states that when an unknown number of trees and shrubs are removed, the assumed removal rate is 10 trees of 12- to 18-inch diameter at breast height (DBH) per half acre and 25 shrubs per half acre. ONEOK used aerial photography from before and after the pipeline construction to estimate disturbance areas where it appeared trees or shrubs were removed and applied this removal rate to each area (see Table 2.2-1).

Table 2.2-1 Estimated Numbers of Trees/Shrubs Removed During 2011/2012 Construction				
County	Total Disturbance Area for Trees (Acres)	Estimated Number of Trees Removed	Total Disturbance Area for Shrubs (Acres)	Estimated Number of Shrubs Removed
Williams	0.34	6.76	0.04	1.91
McKenzie	0.11	2.17	0.28	13.85

ONEOK estimates that a total of 7 trees and 2 shrubs were removed in Williams County, and a total of 3 trees and 14 shrubs were removed in McKenzie County in 2011/2012.

3. PROPOSED MITIGATION MEASURES

3.1 USACE-MANAGED LAND

As described in Section 5(b) of SOP #14 (see Exhibit B of Appendix A), ONEOK is working with USACE to determine compensation/restitution in lieu of replanting for proposed trees and shrubs removed from land managed by the agency. Using the Replacement Tree/Shrub Value Calculations guidelines provided in Section 5 of SOP #14 and input from USACE staff, ONEOK has calculated the replacement requirements and monetary values of trees and shrubs proposed for removal. Tables 3-1 and 3-2 in Appendix A provide species names, DBH, counts, replacement ratios and values, and required replacement counts and costs, which are also summarized below.

The counts and replacement values for each species are as follows: 47 eastern cottonwoods (\$8,600), 56 crack willows (\$8,800), 18 green ash (\$3,200), 112,076 sandbar willows (\$70,048), and 82 common snowberries (\$51), for a total value of \$90,699. Payment would likely occur in 2018; pending a response from USACE accepting mitigation funds as proposed (see Appendix A). ONEOK submitted its tree/shrub replacement proposal to USACE in January 2018 and will provide PSC with documentation of the final decision. Through USACE's compensation program, ONEOK believes it has met the requirements described in the PSC's Tree and Shrub Mitigation Specifications by either having trees replaced at a two to one (or greater) ratio or through negotiations with the landowner (i.e., USACE) to replant in an alternate location.

ONEOK will work with the USACE to provide documentation of annual inspections following replanting efforts in order to meet PSC reporting requirements.

3.2 2011/2012 CONSTRUCTION

ONEOK has been working with the North Dakota Petroleum Council (NDPC) to develop a plan for replacing trees and shrubs removed from construction for projects across the state, including the estimated 10 trees and 16 shrubs that were removed during construction of the pipeline in 2011/2012. ONEOK understands that a minimum of 20 trees and 32 shrubs must be replanted to comply with PSC requirements; through ONEOK's funding, the NDPC would plant 20,000 trees and shrubs in North Dakota accounting for trees and shrubs removed during the 2011/2012 construction of these pipeline and other projects.

ONEOK is also continuing to work with the Soil and Water Conservation Districts (SWCD) of Williams and McKenzie Counties to replant trees and shrubs removed during construction of the pipelines in 2011/2012. ONEOK will continue to document the success of plantings completed by the SWCD, including these new/additional plantings to ensure trees and shrubs are replaced at a two to one ratio and comply with all aspects of the PSC's Tree and Shrub Mitigation Specifications.

Regardless of whether the NDPC or the Williams and McKenzie County SWCDs execute the replanting plan, ONEOK would ensure that replacement plantings would use two-year-old saplings for trees and stem cuttings for shrubs. ONEOK would also submit the necessary inventory and inspection data documentation, as provided by the USACE, NDPC, or SWCDs who are administering the plantings, to the PSC each September for three years following replanting.

4. CONCLUSION

ONEOK has provided an inventory of trees and shrubs removed from USACE-managed land and from 2011/2012 Construction using survey data and calculations recommended by SOP #14. On USACE-managed land, ONEOK would clear trees and shrubs within a 10-foot-wide corridor centered over its existing pipeline, for which ONEOK would provide compensatory mitigation totaling \$90,699 to USACE. For trees and shrubs removed during construction of the pipelines in 2011/2012, ONEOK will replant trees and shrubs at a ratio of two to one or greater through coordination with either the NDPC or the Williams and McKenzie counties' SWCDs. ONEOK will work with the USACE and NDPC to provide documentation following replanting efforts in order to meet each agency's respective reporting requirements.

ONEOK requests PSC review this proposed mitigation plan and respond with any feedback regarding its adequacy or if additional information is needed for review.

Appendix A

Proposal for Tree/Vegetation Replacement on U.S. Army Corps of Engineers Land



ONEOK

ONEOK Rockies Midstream, L.L.C.

**12" Cherry Creek Lateral
Pipeline Conversion Project**

**Proposal for Tree/Vegetation Replacement on
U.S. Army Corps of Engineers Land**

January 2018

TABLE OF CONTENTS

1.	INTRODUCTION.....	1
2.	TREE AND SHRUB INVENTORY REPORT	3
2.1	INVENTORY RESULTS	3
3.	REPLACEMENT PLAN CALCULATIONS	4
4.	PROPOSED VEGETATION MITIGATION OPTIONS.....	6
5.	CONCLUSION.....	7

LIST OF TABLES

Table 2.1-1	Tree and Shrub Inventory Summary.....	3
Table 3-1	Proposed Tree Removal and Replacement Calculations	4
Table 3-2	Proposed Shrub & Trees < 2 inches DBH Removal and Replacement Calculations	5

LIST OF EXHIBITS

Exhibit A	USACE Authorization of Pipeline Installation, and USACE Easement to ONEOK
Exhibit B	USACE Garrison Project Office SOP #14 – Vegetation Mitigation
Exhibit C	Tree and Shrub Inventory Field Survey Report
Exhibit D	Site Plan Maps
Exhibit E	Revised Replacement Values from USACE

1. INTRODUCTION

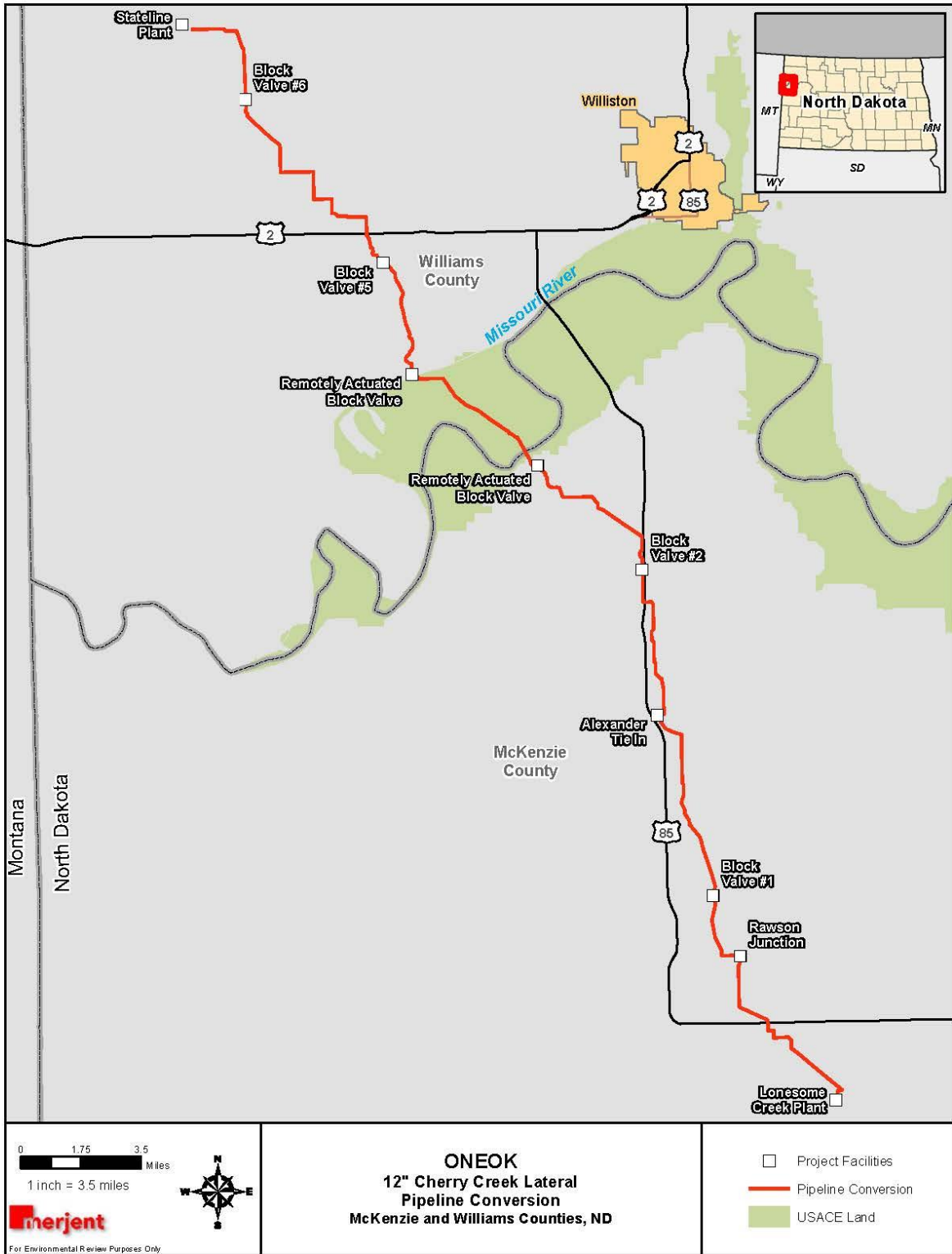
Two subsidiaries of ONEOK, Inc., ONEOK Rockies Midstream, L.L.C. (ONEOK) and ONEOK Bakken Pipeline, L.L.C. (OBP), own and operate natural gas and natural gas liquid (NGL) assets respectively in North Dakota. ONEOK is proposing to convert its existing Stateline to Rawson 12" Pipeline and a portion of its Cherry Creek to Rawson Pipeline, both natural gas gathering pipelines, into NGL transmission pipelines (herein referred to as 12" Cherry Creek Lateral Pipeline Conversion Project or the "Project"). The pipeline originates at ONEOK's Lonesome Creek Plant and terminates at ONEOK's Stateline Plant (see figure below) where it will deliver into OBP's Bakken Pipeline.

The Stateline to Rawson 12" Pipeline was built in 2011/2012 as an approximately 38-mile-long natural gas gathering pipeline that crosses U.S. Army Corps of Engineers (USACE) managed land along the Missouri River. The USACE issued an environmental assessment dated August 2012 and a record of decision dated September 7, 2017 that concluded the construction and operation of this pipeline would not constitute a major federal action that would significantly affect the quality of the human environment. The USACE subsequently authorized the installation of this pipeline across the Missouri River (a Section 10 River) in a letter dated September 12, 2012 under Corps No: NWO-2012-1637-BIS, and granted Easement No. DACW45-2-13-8006 which was executed on December 27, 2012 (see Exhibit A).

Conversion of the pipeline will not require any new construction on USACE-owned land. However, ONEOK is proposing in-facility piping at the aforementioned Lonesome Creek and Stateline plants, and to install remotely actuated block valves at two existing valve sites. Additionally, ONEOK is proposing to clear trees along a 10-foot-wide corridor within their existing 60-foot-wide easement across the Missouri River to facilitate regular aerial inspections of the pipeline right-of-way, as required by the U.S. Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) regulations under 49 Code of Federal Regulations Part 193. Construction activities for the in-facility piping, block valve work, and tree clearing are currently proposed to begin this winter (e.g., in February 2018) and conclude in March 2018, subject to review and approvals by the USACE, North Dakota Game and Fish Department (NDGF), and North Dakota Public Service Commission (PSC).

The USACE – Garrison Project Standard Operating Procedure (SOP) #14 prohibits the removal of any tree/vegetation on USACE real property in cases of maintenance of existing infrastructure without first having obtained documented project permission to do so (see Exhibit B). The SOP further outlines the requirements of a Tree/Vegetation Replacement Plan, Replacement Tree Value Calculations, Species Requirements, Planting Requirements, and General Maintenance Requirements. This document serves as ONEOK's proposal to mitigate for its tree removal activities as a result of the Project.

ONEOK Rockies Midstream, L.L.C.
 12" Cherry Creek Lateral Pipeline Conversion Project
 Proposal for Tree/Vegetation Replacement on USACE-owned Land



2. TREE AND SHRUB INVENTORY REPORT

ONEOK conducted a pedestrian tree and shrub inventory on USACE and NDGF owned and managed properties along the 60-foot-wide easement for ONEOK's existing 12" natural gas pipeline on October 9-11, 2017 (see Exhibit C). The purpose of the inventory was to locate and characterize the trees and shrubs located within the 60-foot-wide survey corridor that follows the existing Project centerline. All trees and singular shrubs were individually documented, and all shrub stands were documented using the USACE clump count methodology.

For the inventory, an individual point was collected for each tree and individually growing shrub, and a polygon was collected for each discrete stand of shrubs. In circumstances of multiple stems, each stem was identified as one tree. In accordance with SOP #14, diameter at breast height (DBH) and species information were recorded. Each point collected is counted as one individual tree or shrub. The USACE clump count methodology was applied to each polygon to determine number of individuals, wherein the number of individuals within a polygon corresponds to the square footage of the stand at a ratio of 1 square foot per individual shrub.

2.1 INVENTORY RESULTS

While the inventory was conducted across the entire 60-foot-wide easement, ONEOK's proposal covers tree and shrub removal across a 10-foot-wide corridor over existing pipeline centerline for the purpose of conducting aerial surveys.

Eight species of trees and shrubs were identified within the 60-foot-wide easement, with five of those species being identified within the 10-foot-wide corridor. Table 2.1-1 is a summary of the species observed within the 10-foot-wide corridor, along with growth form, native status, whether or not the species is listed on the recommended/approved USACE Tree/Shrub list in SOP #14, and count of species occurrences.

Table 2.1-1 Tree and Shrub Inventory Summary					
Species	Common Name	Growth Form	Native / Introduced	Approved USACE Tree/Shrub Species	Count
<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	No	5 ^a
<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	Yes	13 ^a
<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	No	17 ^a
<i>Salix interior</i>	Sandbar Willow	Shrub	Native	Yes	28,019 ^b
<i>Symphoricarpos albus</i>	Common Snowberry	Shrub	Native	Yes	21 ^b
Total					28,075
^a	Individual count				
^b	USACE Clump County Methodology				

3. REPLACEMENT PLAN CALCULATIONS

A site plan at the scale required by SOP #14 is provided in Exhibit D; the site plan includes township, range and section information, and identifies the trees and shrubs where removal is to take place. A total of 1,398,020 square feet were surveyed for the tree and shrub inventory. Table 3-1, below, provides the total number, by size and species, of existing trees with a DBH of two inches or greater that ONEOK proposes to remove on the 10-foot-wide corridor. Also included in Table 3-1 are the replacement ratios and replacement values as defined by the USACE in SOP #14, along with replacement requirement numbers and costs as calculated using SOP #14.

Table 3-1 Proposed Tree Removal and Replacement Calculations						
DBH (Inches)	Common Name	Count	USACE Replacement Ratio¹	USACE Replacement Value¹	Replacement Requirement (#)²	Replacement Requirement (\$)²
2-4	Eastern Cottonwood	2	2:1	\$200	4	\$400
4-8	Crack Willow	12	3:1	\$400	36	\$4,800
4-8	Eastern Cottonwood	6	3:1	\$400	18	\$2,400
4-8	Green Ash	2	3:1	\$400	6	\$800
8-12	Crack Willow	5	4:1	\$800	20	\$4,000
8-12	Eastern Cottonwood	2	4:1	\$800	8	\$1,600
8-12	Green Ash	3	4:1	\$800	12	\$2,400
12-18	Eastern Cottonwood	1	5:1	\$1,000	5	\$1,000
18-24	Eastern Cottonwood	2	6:1	\$1,600	12	\$3,200
Totals		35			121	\$20,600
¹ As defined in USACE – Garrison Project Office SOP #14 – Vegetation Mitigation						
² Calculated using SOP #14 Guidelines						

Table 3-2 presents the total number, by species, of all shrubs clump counted by square foot that ONEOK proposes to remove (the inventory did not identify any trees with a DBH smaller than 2 inches within the 10-foot-wide corridor). Also included are the replacement ratios required by the USACE in SOP #14, and the revised replacement values provided to ONEOK by the USACE in October 2017¹.

¹ An email message received October 2, 2017 from USACE staff Casey Buechler revised the replacement value for trees with a DBH smaller than 2 inches and shrubs with a DBH smaller than 2 inches to \$2.50 per square foot as calculated using the clump count method (see Exhibit E).

ONEOK Rockies Midstream, L.L.C.
 12" Cherry Creek Lateral Pipeline Conversion Project
 Proposal for Tree/Vegetation Replacement on USACE-owned Land

Table 3-2 Proposed Shrub & Trees < 2 inches DBH Removal and Replacement Calculations						
DBH (Inches)	Common Name	Count	USACE Replacement Ratio¹	USACE Replacement Value¹	Replacement Requirement (#)²	Replacement Requirement (\$)²
<1	Sandbar Willow	28,019	4:1	\$2.50	112,076	\$70,048
<1	Common Snowberry	21	4:1	\$2.50	82	\$51
Totals		28,039			112,158	\$70,099
¹	As defined in email from USACE staff Casey Buechler on October 2, 2017 (see Exhibit E)					
²	Calculated using revised replacement values from Casey Buechler October 2, 2017					

4. PROPOSED VEGETATION MITIGATION OPTIONS

ONEOK has identified two potential options for mitigating trees and shrubs that will be lost due to the Project. This includes compensatory mitigation (Option #1) and direct plantings on USACE-managed lands (Option #2), as described in greater detail, below.

OPTION #1 (Preferred Option):

ONEOK will provide the USACE with compensation/restitution for the proposed tree and shrub removals using the Replacement Tree/Shrub Value Calculations calculated in Tables 3-1 and 3-2. ONEOK will work with the appropriate USACE staff to determine if the calculations as presented will be used, or if compensation will be determined on a different basis.

OPTION #2:

ONEOK will coordinate with the USACE to plant replacement trees and shrubs on USACE-managed lands to provide mitigation for the trees and shrubs, as calculated in Tables 3-1 and 3-2. ONEOK will consult with USACE to ensure that it adheres to USACE's Species Requirements, Replacement of Ground Cover, and General Maintenance Requirements as outlined in SOP #14. ONEOK will also comply with USACE's Planting Requirements, including size, grade, location & spacing, and methods of planting & support.

5. CONCLUSION

ONEOK has completed a survey of trees and shrubs within its existing 60-foot-wide easement across USACE-managed land bordering the Missouri River in Williams and McKenzie Counties, North Dakota. Within that easement corridor, ONEOK is planning to clear trees and shrubs within a 10-foot-wide corridor, centered over its existing pipeline. ONEOK has identified two options for mitigating impacts, including compensatory mitigation (\$90,699 total) or planting replacement species, of which, compensatory mitigation is ONEOK's preferred option. ONEOK requests the USACE review ONEOK's proposed mitigation options and respond with any feedback regarding the adequacy of ONEOK's plan or if additional information may be needed to review and approve ONEOK's plan.

Exhibit A

**USACE Authorization of Pipeline Installation, and USACE
Easement to ONEOK**



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
REAL ESTATE DIVISION
PO BOX 527
RIVERDALE, NORTH DAKOTA 58565

February 4, 2013

Troy Fitchner, Area Manager
Oneok Rockies Midstream LLC
16001 Bennie Pierre Road
Sidney, Montana 59270

Dear Mr. Fitchner:

Enclosed, for Oneok Rockies Midstream LLC's information and records, is a fully executed copy of Easement No. DACW45-2-13-8006, Garrison Dam/Lake Sakakawea Project North Dakota. The easement grants Oneok Rockies Midstream LLC right-of-way for two buried natural gas transmission pipelines for a 25-year term ending October 31, 2037.

Direct any questions to the undersigned at (701) 654-7752.

Sincerely,

A handwritten signature in black ink that reads "Timothy D. Kolke".

Timothy D. Kolke
Senior Realty Specialist
Civil Branch, Real Estate Division

Enclosure

DEPARTMENT OF THE ARMY
EASEMENT FOR NATURAL GAS PIPELINE RIGHT-OF-WAY
LOCATED ON
GARRISON DAM/LAKE SAKAKAWEA PROJECT
MCKENZIE and WILLIAMS COUNTIES, NORTH DAKOTA

THE SECRETARY OF THE ARMY under and by virtue of the authority vested in the Secretary by Title 10 United States Code, Section 2668, having found that the granting of this easement will not be against the public interest, hereby grants to **Oneok Rockies Midstream, LLC, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, with its principal office at 2700 Lincoln Avenue SE Sidney, Montana 59270** hereinafter referred to as the grantee, an easement for the installation, operation and maintenance of a **buried twelve inch (12") diameter steel and buried sixteen inch (16") diameter steel natural gas transmission pipelines**, hereinafter referred to as the facilities, over, across, in and upon lands of the United States as identified in **Exhibits "A-1", "A-2" and "A-3"**, hereinafter referred to as the premises, and which are attached hereto and made a part hereof.

This easement is issued in conjunction with Regulatory Permit No. NWO-2011-0481-BIS

THIS EASEMENT is granted subject to the following conditions.

1. TERM

This easement is hereby granted for a term of **twenty-five (25) years** beginning **November 1, 2012** and ending **October 31, 2037**.

2. CONSIDERATION

The grantee shall provide the United States **in-kind consideration** in the amount of **One Hundred Seventy Five Thousand Eight Hundred Seventy Five and No/100 Dollars (\$175,875.00)** in full for the term hereof. **The in-kind consideration shall consist of the grantee's payment to a Government contractor for the cost of the materials and labor to refurbish a Government owned Restroom/Shower building located in Loop 2 of the Corps of Engineers' Downstream Campground; for the purchase of an Alpine Single Vault Restroom facility for the Corps of Engineers Wolf Creek Campground; and for the purchase of 956 square feet of Brown GT- Impax Shredded Rubber Safety Surfacing, as more particularly described in Exhibits "C-1", "C-2" and "C-3", attached hereto and made a part hereof.**

**GARRSION PROJECT, NORTH DAKOTA
EASEMENT DACW45-2-13-8006**

3. NOTICES

All correspondence and notices to be given pursuant to this easement shall be addressed, if to the grantee, to **Oneok Rockies Midstream, LLC, 2700 Lincoln Avenue SE Sidney, Montana 59270**, and, if to the United States, to the District Commander, Attention: Chief, Real Estate Division, 1616 Capitol Avenue, Suite 9000, Omaha, Nebraska 68102-4901, or as may from time to time otherwise be directed by the parties. Notice shall be deemed to have been duly given if and when enclosed in a properly sealed envelope or wrapper addressed as aforesaid, and deposited postage prepaid in a post office regularly maintained by the United States Postal Service.

4. AUTHORIZED REPRESENTATIVES

Except as otherwise specifically provided, any reference herein to "Secretary", "District Commander", or "said officer" shall include their duly authorized representatives. Any reference to "grantee" shall include assignees, transferees and their duly authorized representatives.

5. SUPERVISION BY THE DISTRICT COMMANDER

The construction, operation, maintenance, repair, or replacement of said facilities, including culverts and other drainage facilities, shall be performed at no cost or expense to the United States and subject to the approval of the District Commander, Omaha District, hereinafter referred to as said officer. Upon the completion of any of the above activities, the Grantee shall immediately restore the premises to the satisfaction of said officer. The use and occupation of the premises for the purposes herein granted shall be subject to such rules and regulations as said officer prescribes in writing from time to time.

6. APPLICABLE LAWS AND REGULATIONS

The grantee shall comply with all applicable Federal, state, county and municipal laws, ordinances, and regulations wherein the premises are located.

7. CONDITION OF PREMISES

The grantee acknowledges that it has inspected the premises, knows the condition, and understands that the same is granted without any representation or warranties whatsoever and without any obligation on the part of the United States.

8. INSPECTION AND REPAIRS

The grantee shall inspect the facilities at reasonable intervals and immediately repair any defects found by such inspection or when required by said officer to repair any such defects.

9. PROTECTION OF GOVERNMENT PROPERTY

The grantee shall be responsible for any damage that may be caused to the property of the United States by the activities of the grantee under this easement and shall exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States damaged or destroyed by the grantee incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the grantee to a condition satisfactory to said officer, or at the election of said officer, reimbursement made therefore by the grantee in an amount necessary to restore or replace the property to a condition satisfactory to said officer.

10. RIGHT TO ENTER

The right is reserved to the United States, its officers, agents, and employees to enter upon the premises at any time and for any purpose necessary or convenient in connection with government purposes; to make inspections; to remove timber or other material, except property of the grantee; to flood the premises; to manipulate the level of the lake or pool in any manner whatsoever; and/or to make any other use of the lands as may be necessary in connection with government purposes, and the grantee shall have no claim for damages on account thereof against the United States or any officer, agent, or employee thereof.

11. TRANSFERS AND ASSIGNMENTS

Without prior written approval by said District Commander, the grantee shall neither transfer nor assign this easement or any part thereof nor grant any interest, privilege or license whatsoever in connection with this easement. The provisions and conditions of this easement shall extend to and be binding upon and shall inure to the benefit of the representatives, successors, and assigns of the grantee.

12. INDEMNITY

The United States shall not be responsible for damages to property or injuries to persons which may arise from or be incident to the exercise of the privileges herein granted, or for damages to the property or injuries to the person of the grantee's officers, agents, or employees or others who may be on the premises at their invitation or the invitation of any one of them, and the grantee shall hold the United States harmless from any and all such claims not including damages due to the fault or negligence of the United States or its contractors.

13. SUBJECT TO EASEMENTS

This easement is subject to all other existing easements, or those subsequently granted as well as established access routes for roadways and utilities located, or to be located, on the premises, provided that the proposed grant of any new easement or route will be coordinated with the grantee, and easements will not be granted which will, in the opinion of said officer, interfere with the use of the premises by the grantee.

**GARRSION PROJECT, NORTH DAKOTA
EASEMENT DACW45-2-13-8006**

14. REQUIRED SERVICES

The grantee shall furnish through said facilities such services as may be required from time to time for governmental purposes, provided that payment for such service will be made by the United States at rates which shall be mutually agreeable but which shall never exceed the most favorable rates granted by the grantee for similar service.

15. RELOCATION OF FACILITIES

In the event all or any portion of the premises occupied by the said facilities shall be needed by the United States, or in the event the existence of said facilities is determined to be detrimental to governmental activities, the grantee shall from time to time, upon notice to do so, and as often as so notified, remove said facilities to such other location on the premises as may be designated by said officer. In the event said facilities shall not be removed or relocated within ninety (90) days after such notice, the United States may cause such relocation at the sole expense of the grantee.

16. TERMINATION

This easement may be terminated by the Secretary upon 30 days written notice to the grantee if the Secretary shall determine that the right-of-way hereby granted interferes with the use or disposal of said land by the United States, or it may be revoked by the Secretary for failure of the grantee to comply with any or all of the conditions of this easement, or for non-use for a period of two (2) years, or for abandonment.

17. SOIL AND WATER CONSERVATION

The grantee shall maintain, in a manner satisfactory to said officer, all soil and water conservation structures that may be in existence upon said premises at the beginning of or that may be constructed by the grantee during the term of this easement, and the grantee shall take appropriate measures to prevent or control soil erosion within the right-of-way herein granted. Any soil erosion occurring outside the premises resulting from the activities of the grantee shall be corrected by the grantee as directed by said officer.

18. ENVIRONMENTAL PROTECTION

a. Within the limits of their respective legal powers, the parties hereto shall protect the premises against pollution of its air, ground, and water. The grantee shall promptly comply with any laws, regulations, conditions or instructions affecting the activity hereby authorized if and when issued by the Environmental Protection Agency, or any Federal, state, interstate or local governmental agency having jurisdiction to abate or prevent pollution. The disposal of any toxic or hazardous materials within the premises is strictly prohibited. Such regulations, conditions, or instructions in effect or prescribed by the said Environmental Protection Agency or any Federal, state, interstate or local governmental agency are hereby made a condition of this easement. The grantee shall not discharge waste or effluent from the premises in such a manner that the

**GARRSION PROJECT, NORTH DAKOTA
EASEMENT DACW45-2-13-8006**

discharge will contaminate streams or other bodies of water or otherwise become a public nuisance.

b. The use of any pesticides or herbicides within the premises shall be in conformance with all applicable Federal, state and local laws and regulations. The grantee must obtain approval in writing from said officer before any pesticides or herbicides are applied to the premises.

c. The grantee will use all reasonable means available to protect the environment and natural resources, and where damage nonetheless occurs arising from the grantee's activities, the grantee shall be liable to restore the damaged resources.

19. HISTORIC PRESERVATION

The grantee shall not remove or disturb, or cause or permit to be removed or disturbed, any historical, archeological, architectural or other cultural artifacts, relics, remains or objects of antiquity. In the event such items are discovered on the premises, the grantee shall immediately notify said officer and protect the site and material from further disturbance until said officer gives clearance to proceed.

20. NON-DISCRIMINATION

The grantee shall not discriminate against any person or persons because of race, color, age, sex, handicap, national origin, or religion in the conduct of operations on the premises.

21. RESTORATION

On or before the expiration or termination of this easement, the grantee shall, without expense to the United States, and within such time as said officer may indicate, remove said facilities and restore the premises to the satisfaction of said officer. In the event the grantee shall fail to remove said facilities and restore the premises, the United States shall have the option to take over said facilities without compensation, or to remove said facilities and perform the restoration at the expense of the grantee, and the grantee shall have no claim for damages against the United States or its officers or agents for such action.

22. DISCLAIMER

This instrument is effective only insofar as the rights of the United States in the property are concerned, and the grantee shall obtain such permission as may be required on account of any other existing rights. It is understood that the granting of this easement does not eliminate the necessity of obtaining any Department of the Army permit which may be required pursuant to the provisions of Section 10 of the Rivers and Harbors Act of 3 March 1899 (30 Stat. 1151; 33 U.S.C. § 403), Section 404 of the Clean Water Act (33 U.S.C. § 1344) or any other permit or license which may be required by Federal, state or local statute in connection with use of the premises.

**GARRSION PROJECT, NORTH DAKOTA
EASEMENT DACW45-2-13-8006**

Prior to the execution of this easement, the following site specific Conditions Nos. 23, 24, 25, 26 and 27 were added hereto and made a part hereof.

23. USE OF THE PREMISES

No structures, power lines, pipelines or ground disturbance other than that herein authorized may be constructed or pursued upon the premises unless and until the type, use, design and proposed location has been approved in writing by said officer. Improvements constructed in accordance with plans approved by said officer shall remain the property of the grantee, or subsequent assignees, subject, however, to the provisions of the Condition on **RESTORATION**.

24. VEGETATION PROTECTION

The grantee shall not unnecessarily remove or damage any trees or shrubs within the premises or in any manner substantially change the contour or condition of the premises herein granted. Within ninety (90) days of completion of construction, the grantee shall restore all disturbed land within the granted premises to a condition like or equal to that which existed prior to the work herein authorized. The grantee shall replace removed or damaged vegetation in accordance with the Garrison Project Tree/Vegetation Mitigation Plan and all subsequent written agreements derived from that plan. The grantee shall reseed all disturbed ground with a grass and forbs seed mixture approved by the Corps of Engineers or North Dakota Game and Fish Department, to conform with the surrounding vegetation. Reseeding dates will be determined by the Corps of Engineers. The grantee shall ensure survival of the reseeded area for a period of two (2) years from the planting date. The grantee shall replace all removed or damaged woody vegetation and ensure survival of the replaced trees and shrubs for a period of five (5) years from the planting date. The grantee will be required to control all noxious weeds within the right-of-way for the term of the easement. The grantee shall reseed and restore the disturbed area after termination of this right-of-way easement and ensure plant survival for a period of two years from the termination date.

25. CONSTRUCTION AND SITE SPECIFIC CONDITIONS

a. Prior to accessing federal lands, all construction equipment must be pressure washed or air blasted to remove all existing soils and/or vegetation to prevent the introduction of noxious weeds or other undesirable vegetation. The grantee must provide proof of the cleaning to the Garrison Project Natural Resource Office within three (3) days of the cleaning.

b. The grantee shall insure that all equipment associated with the construction of the facilities shall be staged or stored only on those lands located within the granted easement area. Major maintenance of construction vehicles or equipment is not permitted on federal lands. The refueling of vehicles and pipeline construction equipment, and storage of two (2) 1000 gallon fuel tanks is permitted on federal lands as shown in **Exhibit "B"**. The grantee may refuel the stationary HDD drill rig and associated equipment, pipe fusing machine, heater and light plant on federal lands. This equipment must be contained within an impervious containment system that is capable of containing a minimum 110% of the total fuel capacity of the equipment fuel system. All spills of petroleum, oils and lubricants greater than one (1) gallon must be reported

**GARRISON PROJECT, NORTH DAKOTA
EASEMENT DACW45-2-13-8006**

to the Corps of Engineers. The grantee will be required to clean up all spills in accordance with instructions provided by the Corps of Engineers or ND State Health Department or the Environmental Protection Agency.

c. The grantee will be required to directionally bore the wetland and Missouri River crossings. The grantee shall collect all mud, tailings, earthen materials, liquids and soaping agents from the pipeline bore sites in bore pits lined with impervious polyethylene plastic. The pits, drilling fluids, drill cuttings and plastic liner must be removed from the bore site and shall be properly disposed of off federal lands immediately upon completion of pipeline boring.

d. In the event roads, fences, gates, habitat or other infrastructure are damaged during construction, they must be immediately repaired by the grantee at no cost to the United States or its lessees. Erosion control measures must be implemented during and after construction to minimize entry of sediments into Lake Sakakawea and wetland areas.

e. All rocks ten (10) inches in diameter or larger displaced during the construction of the pipeline shall be removed from the property and be properly disposed of off federal lands immediately upon completion of pipeline construction.

f. Upon completion of pipeline construction, the grantee shall contact the Garrison Project Natural Resource Office of the U.S. Army Corps of Engineers to schedule a final inspection of the right-of-way to ensure all restoration, damages and deficiencies have been completed or corrected.

g. No fresh water will be obtained from Lake Sakakawea without the consent of the Corps of Engineers.

h. The grantee must comply with the following site specific conditions:

(1) Prior to any construction commencing, the grantee shall contact the Garrison Project Natural Resource Office to schedule a pre-construction on-site meeting.

(2) No construction is permitted between April 15 and September 1.

(3) The grantee's agents, employees and contractors must wear high visibility clothing for safety purposes when working at the Lewis and Clark Wildlife Management Area.

26. RIGHT-OF-WAY LOCATION

The grantee shall provide the Corps of Engineers, Riverdale Real Estate Office, the Global Positioning System (GPS) coordinates or Geographical Information System (GIS) shape files of the entire portion of the right-of-way located on federal lands within thirty (30) days following completion of pipeline construction. In addition, the grantee shall install a location tracer wire on or above the pipelines to aid in locating the pipelines.

GARRSION PROJECT, NORTH DAKOTA
EASEMENT DACW45-2-13-8006

27. ACCESS

The installation of said facilities by the grantee shall not interfere with or obstruct access to and exit from the water areas by the general public for fishing, boating, and recreational purposes.

THIS EASEMENT is not subject to Title 10, United States Code, Section 2662, as amended.

IN WITNESS WHEREOF, I have hereunto set my hand by authority of the Secretary of the Army, this 27th day of December, 2012.



Lon G. Larson
Chief, Real Estate Division
Real Estate Contracting Officer

THIS EASEMENT is also executed by the grantee this 10th day of December, 2012.

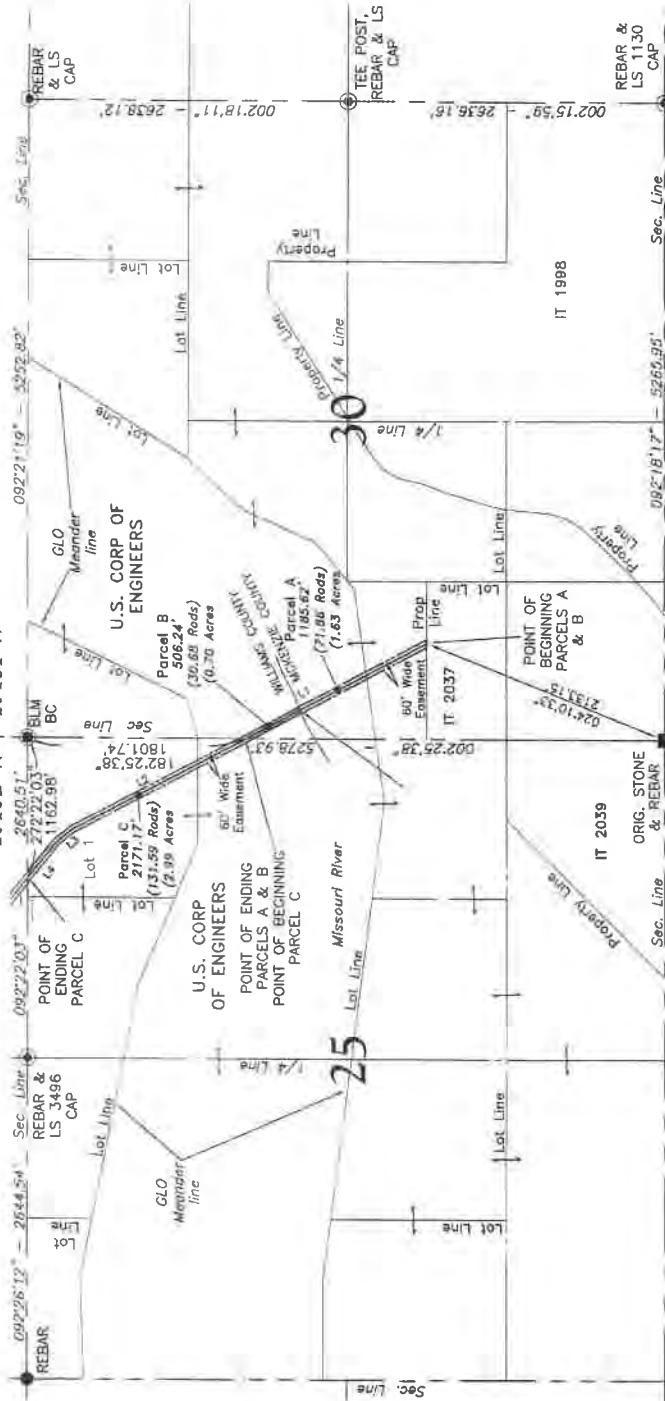
~~ONEOK ROCKY~~ ^{ROCKIES} MIDSTREAM, L.L.C.

By:



GEOFFREY A. SANDS
VICE PRESIDENT - NATURAL GAS
Title: GATHERING & PROCESSING OPERATIONS

5TH PRINCIPAL MERIDIAN
R 102 W | R 101 W



PARCEL C

LINE NUMBER	DIRECTION	DISTANCE
L2	334°34'33"	1625.77'
L3	322°59'26"	164.33'
L4	310°43'31"	381.07'

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONBOK ROCKES MIDSTREAM, LLC
STATELINE TO RAMSON PRELIMINARY PIPELINE

A tract of land located in the Southeast Quarter of the Northeast Quarter of Section 25 on the 5th Principal Meridian, Williams County, North Dakota, being more specifically described as a strip of land sixty (60) feet in width, lying thirty (30) feet on each side of the following described centerline:

Commencing at the northeast corner of said Section 25, thence along the east line of said Section 25 on an azimuth of 162°23'30" a distance of 1801.74 feet to the POINT OF BEGINNING; thence on an azimuth of 334°34'33" a distance of 1625.77 feet; thence on an azimuth of 322°59'26" a distance of 164.33 feet; thence on an azimuth of 310°43'31" a distance of 381.07 feet to the northwest corner of said Section 25. Said point being located on an azimuth of 272°22'03" a distance of 1162.98 feet from the northeast corner of said Section 25.

Said tract contains 2171.17 feet or 131.89 rods (2.90 acres).

Survey is based on North Dakota State Plane System, NAD83 (60), North Zone, U.S. Foot. Azimuths shown are grid azimuths, distances shown are grid distances. Combined scale factor = 1.0001502 to go from grid distance to ground distance.

PARCEL B

LINE NUMBER	DIRECTION	DISTANCE
L1	334°34'33"	1691.86'

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONBOK ROCKES MIDSTREAM, LLC
STATELINE TO RAMSON PRELIMINARY PIPELINE

A tract of land located in the West Half of the West Half (NW1/2NW1/2) of Section 30; Township 153 North, Range 101 West of the 5th Principal Meridian, Williams County, North Dakota, being more specifically described as a strip of land sixty (60) feet in width, lying thirty (30) feet on each side of the following described centerline:

Commencing at the southwest corner of said Section 30, thence on an azimuth of 024°10'33" a distance of 2133.15 feet to a point on the northerly line of IT 2037 and the POINT OF BEGINNING; thence on an azimuth of 334°34'33" a distance of 1691.86 feet to the POINT OF ENDING on the west line of said Section 30. Said point being located on an azimuth of 162°23'30" a distance of 1801.74 feet from the northwest corner of said Section 30.

Said tract contains 508.24 feet or 30.88 rods (0.70 acres).

Survey is based on North Dakota State Plane System, NAD83 (60), North Zone, U.S. Foot. Azimuths shown are grid azimuths, distances shown are grid distances. Combined scale factor = 1.0001502 to go from grid distance to ground distance.

PARCEL A

LINE NUMBER	DIRECTION	DISTANCE
L1	334°34'33"	1691.86'

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONBOK ROCKES MIDSTREAM, LLC
STATELINE TO RAMSON PRELIMINARY PIPELINE

A tract of land located in the West Half of the West Half (NW1/2NW1/2) of Section 30; Township 153 North, Range 101 West of the 5th Principal Meridian, Williams County, North Dakota, being more specifically described as a strip of land sixty (60) feet in width, lying thirty (30) feet on each side of the following described centerline:

Commencing at the southwest corner of said Section 30, thence on an azimuth of 024°10'33" a distance of 2133.15 feet to a point on the northerly line of IT 2037 and the POINT OF BEGINNING; thence on an azimuth of 334°34'33" a distance of 1691.86 feet to the POINT OF ENDING on the west line of said Section 30. Said point being located on an azimuth of 162°23'30" a distance of 1801.74 feet from the northwest corner of said Section 30.

Said tract contains 1165.92 feet or 71.89 rods (1.63 acres).

Survey is based on North Dakota State Plane System, NAD83 (60), North Zone, U.S. Foot. Azimuths shown are grid azimuths, distances shown are grid distances. Combined scale factor = 1.0001502 to go from grid distance to ground distance.

I, William J. Haddick, A Professional Land Surveyor, N.D. PLS No. 6234, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is a true and correct copy of the best of my knowledge and belief. This field survey was performed by Andrew Melton on December 9, 2011.

William J. Haddick, Professional Land Surveyor
N.D. PLS No. 6234



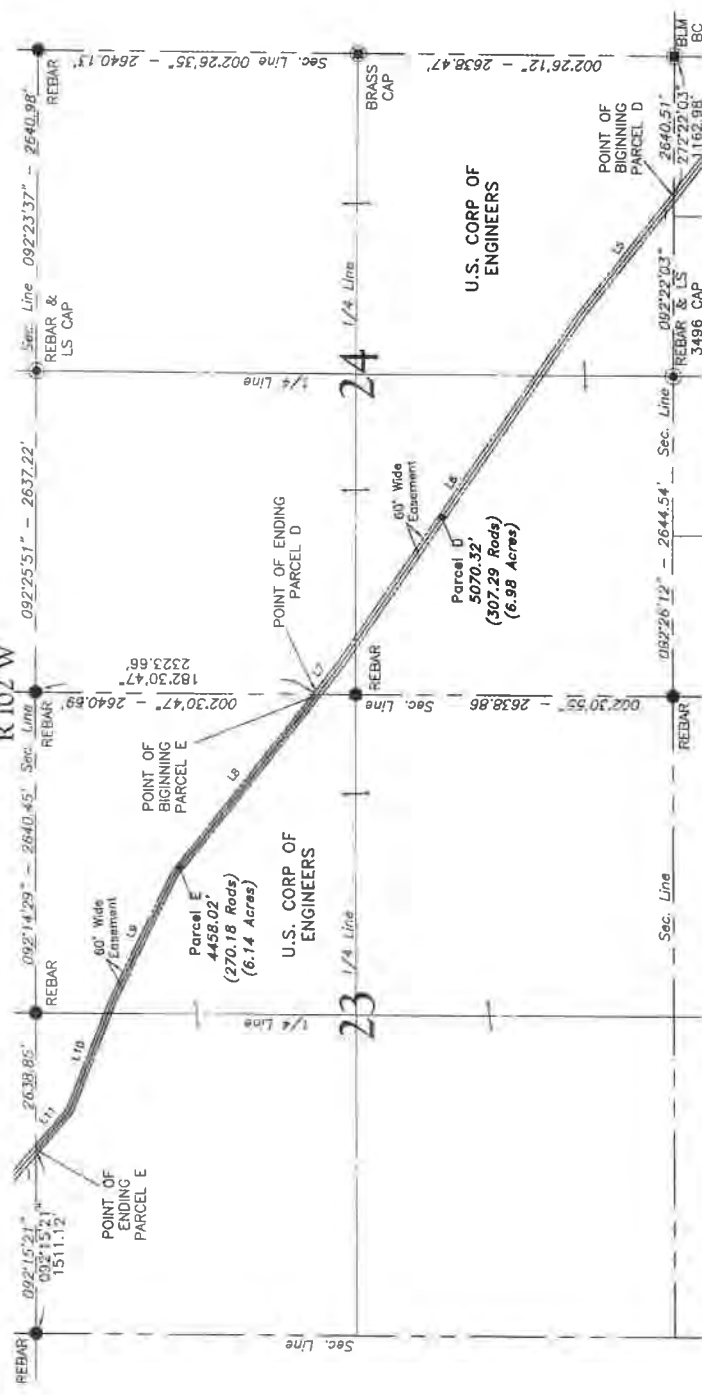
RIGHT OF WAY PLAT

Stabling to Rowson 12" & 16" Steel Line
Section 25, 153N, 101W, Section 30, 153N, 101W

ONBOK ROCKES MIDSTREAM
Kudrins Lee & Jackson
Business Surveyors
1719 2nd St. SW
Billings, MT 59102
Tel: 406.251.2722
Fax: 406.251.2723
www.onbokrockes.com

EXHIBIT "A-1" ATTACHED TO AND MADE PART OF EASEMENT DACW45-2-13-8006

5TH PRINCIPAL MERIDIAN
R 102 W



PARCEL D

LINE NUMBER	DIRECTION	DISTANCE
L5	310°43'31"	1222.53'
L6	308°57'53"	3553.05'
L7	310°44'31"	294.74'

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONKOK ROCKIES MIDSTREAM, LLC
STAIRLINE TO RAMSON PRELIMINARY PIPELINE

A tract of land located in the South Half (S1/2) and in the Southwest Quarter of the Northwest Quarter (SW1/4) of Section 24, Township 23 North, Range 102 West being more specifically described as a strip of land sixty (60) feet in width, lying thirty (30) feet on each side of the following described centerline:

Commencing at the southeast corner of said Section 24, thence along the south line of said Section 24 on an azimuth of 272°22'03" a distance of 1162.98 feet to the POINT OF BEGINNING, thence on an azimuth of 310°43'31" a distance of 1222.53 feet thereon on an azimuth of 308°57'53" a distance of 3553.05 feet, thence on an azimuth of 310°44'31" a distance of 294.74 feet to the POINT OF BEGINNING, thence on an azimuth of 182°30'47" a distance of 2323.66 feet from the northwest corner of said Section 24,

Said tract contains 5070.32 feet or 307.29 rods (6.98 acres).

PARCEL E

LINE NUMBER	DIRECTION	DISTANCE
L8	310°44'31"	1904.65'
L9	298°07'33"	1150.89'
L10	293°43'03"	977.38'
L11	313°04'33"	425.09'

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONKOK ROCKIES MIDSTREAM, LLC
STAIRLINE TO RAMSON PRELIMINARY PIPELINE

A tract of land located in the North Half (N1/2) of Section 23, Township 153 North, Range 102 West of the 5th Principal Meridian, Williams County, State of North Dakota, being more specifically described as a strip of land sixty (60) feet in width, lying thirty (30) feet on each side of the following described centerline:

Commencing at the northeast corner of said Northeast Quarter of Section 23, thence on an azimuth of 182°30'47" a distance of 2323.66 feet to the POINT OF BEGINNING, thence on an azimuth of 310°44'31" a distance of 1904.65 feet, thence on an azimuth of 298°07'33" a distance of 1150.89 feet, thence on an azimuth of 293°43'03" a distance of 977.38 feet, thence on an azimuth of 313°04'33" a distance of 425.09 feet to the POINT OF BEGINNING, thence on an azimuth of 182°30'47" a distance of 1511.12 feet from the northwest corner of said Section 23.

Said tract contains 4458.02 feet or 270.18 rods (6.14 acres).

I, William J. Haddick, a Professional Land Surveyor, N.D. PLS No. 6294, do hereby certify that the survey plat shown hereon was made under my direction and from notes made in the field and of the same by me or my assistants, to my knowledge and belief. The field survey was performed by Andrew Minton on December 5, 2011.

William J. Haddick
Professional Land Surveyor
N.D. PLS No. 6294



RIGHT OF WAY PLAT

Stairline to Ranson 12" & 16" Steel Line
Sections 23 & 24, T153N, R102W

2

Kadmas
Lee St.
Jackson
Williams County
North Dakota

ONEOK
ROCKIES MIDSTREAM

DATE: 2-23-2012

FILE NO: 20110201

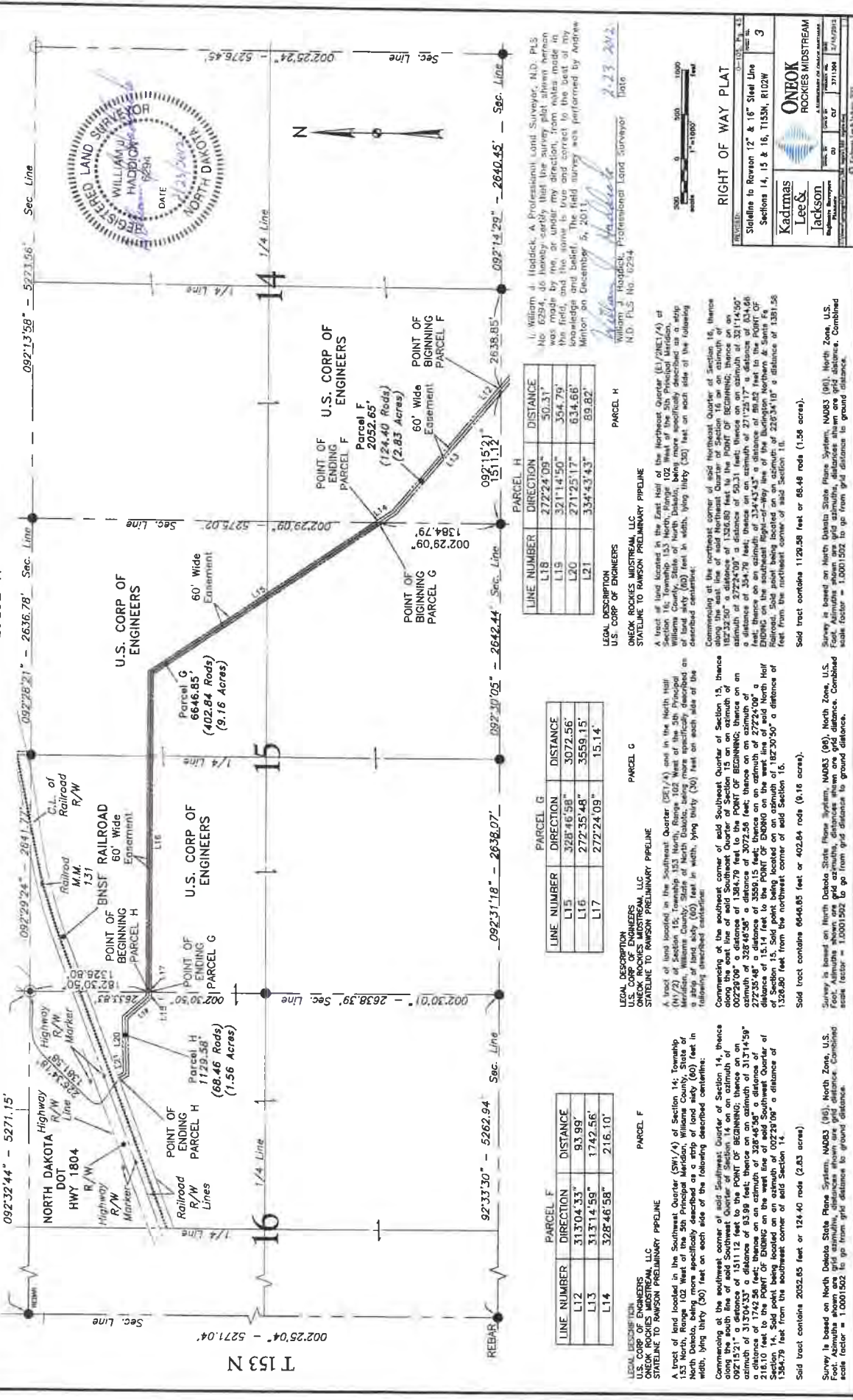
DATE OF SURVEY: 12/05/2011

DATE OF RECORDING: 1/15/2012

Q. Software: L&L Software, 2012

EXHIBIT "A-2" ATTACHED TO AND MADE PART OF EASEMENT DACW45-2-13-8006

5TH PRINCIPAL MERIDIAN R 102 W



T 153 N

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONEOK ROCKIES MIDSTREAM, LLC
STATELINE TO RAWSON PRELIMINARY PIPELINE

Parcel F

LINE NUMBER	DIRECTION	DISTANCE
L12	313°04'33"	93.99'
L13	313°14'58"	1742.56'
L14	328°46'58"	216.10'

Parcel F contains 123.40 rods (2.83 acres)

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONEOK ROCKIES MIDSTREAM, LLC
STATELINE TO RAWSON PRELIMINARY PIPELINE

Parcel G

LINE NUMBER	DIRECTION	DISTANCE
L15	328°46'58"	3072.56'
L16	272°35'48"	3559.15'
L17	272°24'09"	15.14'

Parcel G contains 6646.85 feet or 402.84 rods (9.16 acres)

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONEOK ROCKIES MIDSTREAM, LLC
STATELINE TO RAWSON PRELIMINARY PIPELINE

Parcel H

LINE NUMBER	DIRECTION	DISTANCE
L18	272°24'09"	50.31'
L19	321°14'50"	354.79'
L20	271°25'17"	634.66'
L21	334°43'43"	89.82'

Parcel H contains 1120.56 feet or 66.48 rods (1.36 acres)

LEGAL DESCRIPTION
U.S. CORP OF ENGINEERS
ONEOK ROCKIES MIDSTREAM, LLC
STATELINE TO RAWSON PRELIMINARY PIPELINE

Parcel I

LINE NUMBER	DIRECTION	DISTANCE
L22	092°15'21"	1511.12'
L23	092°14'29"	2640.45'

Parcel I contains 4151.57 feet or 259.47 rods (5.91 acres)

Survey is based on North Dakota State Plane System, NAD83 (90), North Zone, U.S. scale factor = 1.0001502. To go from grid distance to ground distance, Combined scale factor = 1.0001502 to go from grid distance to ground distance.

Survey is based on North Dakota State Plane System, NAD83 (90), North Zone, U.S. scale factor = 1.0001502. To go from grid distance to ground distance, Combined scale factor = 1.0001502 to go from grid distance to ground distance.

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Survey is based on North Dakota State Plane System, NAD83 (90), North Zone, U.S. scale factor = 1.0001502. To go from grid distance to ground distance, Combined scale factor = 1.0001502 to go from grid distance to ground distance.

REGISTERED LAND SURVEYOR FOR NORTH DAKOTA
WILLIAM J. HADDOCK
DATE: 2/23/2012

William J. Haddock, Professional Land Surveyor
N.D. PLS No. 223242

Parcel H

Parcel G

Parcel F

Parcel I

RIGHT OF WAY PLAT
Stake line to Return 12" & 16" Steel Line
Sections 14, 15 & 16, T153N, R102W
3

Kadmas
Lee & Jackson
Professional Surveyors
1001 14th Street SW
Minneapolis, MN 55415
Phone: 612-338-1111
Fax: 612-338-1112
www.kadmaslee.com

ONEOK
ROCKIES MIDSTREAM
A MEMBER OF ONEOK ENERGY
1001 14th Street SW
Minneapolis, MN 55415
Phone: 612-338-1111
Fax: 612-338-1112
www.oneok.com

FEB 23 2012 - 10:47am - C:\Users\Wjhadock\Documents\2012\153N\102W\153N102W153N102W153N102W153N102W.dwg

EXHIBIT "A-3" ATTACHED TO AND MADE PART OF EASEMENT DACW45-2-13-8006

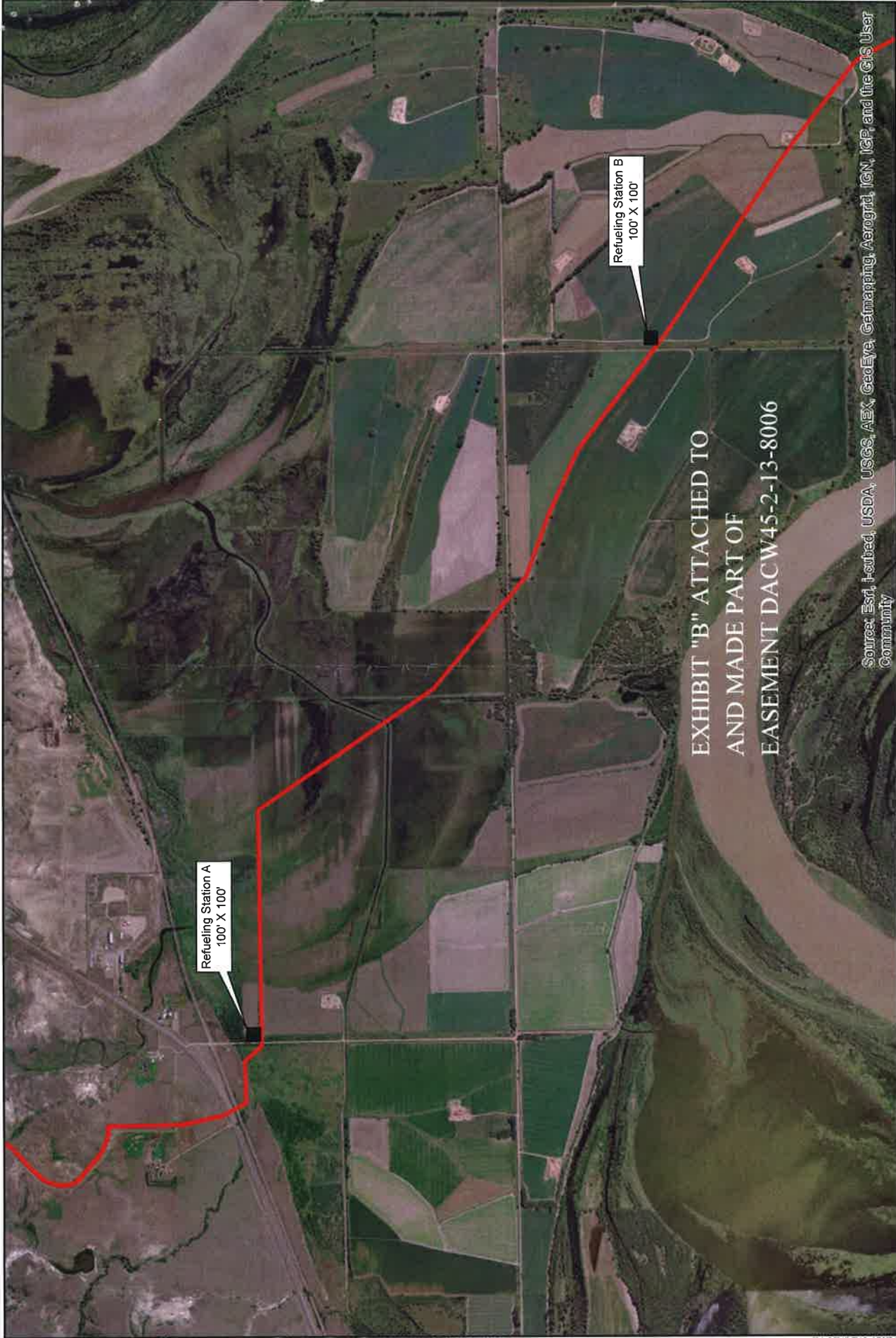


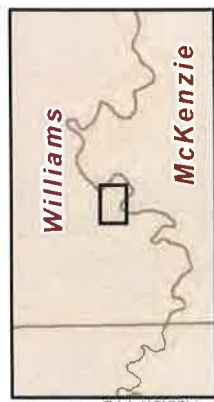
EXHIBIT "B" ATTACHED TO
AND MADE PART OF
EASEMENT DACW45-2-13-8006

Source: Esri, Intel, USDA, USGS, AEX, GeoEye, Geomapping, AeroGrid, IGN, IGP, and the GIS User Community

**ONEOK Rockies Midstream
StateLine COE EA**
Refueling Stations

1:24,000

Source: ESRI Online
 Map is not to scale. Intended for environmental review purposes only



**IN-KIND CONSIDERATION
FOR TWO NATURAL GAS PIPELINES
ONEOK ROCKY MIDSTREAM**

The grantee shall pay to **Alan K. Westman**, hereinafter referred to as the contractor, the sum of **One Hundred Forty Five Thousand and No/100 Dollars (\$145,000.00)** to fund materials and labor provided by the contractor for the refurbishment of a Government owned Restroom/Shower building located in Loop 2 of the Corps of Engineers' Downstream Campground, Riverdale North Dakota. This project is subject to the following requirements:

1. The Corps of Engineers (Corps) will provide a refurbishing plan that will determine the scope of work to be performed.
2. The Corps and contractor will jointly determine and agree upon a start date. All work must be completed by April 15, 2013.
3. The Corps will provide construction oversight and determine satisfactory performance by the contractor.
4. The grantee shall deliver the \$145,000.00 payment to Alan K Westman immediately upon receipt of this easement.
5. Upon completion of the project and acceptance by the Corps, the restroom/shower building shall become property of the United States.

Alan K. Westman's contact information is:

Alan K Westman
2171 29th Street NW
Benedict, North Dakota 58716
Telephone numbers: (701) 679-2569 Home
(701) 337-6080 cell

Contractor License # 36537
Federal Tax ID # 27-3741278

**EXHIBIT "C-1" ATTACHED TO AND MADE A PART OF
EASEMENT NO. DACW45-2-13-8006**

**IN-KIND CONSIDERATION
FOR TWO NATURAL GAS PIPELINES
ONEOK ROCKY MIDSTREAM**

The grantee shall pay to, **Park and Restroom Structures Inc.**, hereinafter referred to as the contractor, the sum of \$24,655.00 for the purchase of an Alpine Single Vault Restroom facility for the Corps of Engineers Wolf Creek Campground, Riverdale North Dakota. This project is subject to the following requirements:

1. The Corps of Engineers (Corps) will compile a manufacturing instruction sheet that will determine the exact construction details for the manufacturing of the vault restroom.
2. The Corps and Park and Restroom Structures Inc. will jointly determine a delivery date, with all work associated with the vault restroom completed by April 15, 2013.
3. The Corps will provide delivery, placement and final construction oversight, and determine satisfactory performance by the contractor.
4. The grantee shall deliver the \$24,655.00 payment to Park and Restroom Structures Inc. immediately upon receipt of this easement.
5. Upon completion of the project and acceptance by the Corps, the restroom building shall become property of the United States.

Park and Restroom Structures Inc. contact information is:

Nick Bianco
Park and Restroom Structures, Inc.
P.O. Box 13280
Spokane Valley, Washington 99213-3280
Telephone numbers: (509)-922-2422 Office
(509)-979-5003 Cell Phone
Email nick@parkandrestroomstructures.com

Federal Tax ID # 20-4854636

**EXHIBIT "C-2" ATTACHED TO AND MADE A PART OF
EASEMENT NO. DACW45-2-13-8006**

**IN-KIND CONSIDERATION
FOR TWO NATURAL GAS PIPELINES
ONEOK ROCKY MIDSTREAM**

The grantee shall pay to, Cunningham Recreation, hereinafter referred to as the contractor, the sum of \$6,220.00 for the purchase of 956 square feet of Brown GT- Impax Shredded Rubber Safety Surfacing for the Corps of Engineers Downstream Campground, Riverdale North Dakota. This project is subject to the following requirements:

1. Delivery of the safety surfacing shall be made to the Downstream Maintenance Facility (below the dam)
2. To be delivered no later than January 18th, 2013
3. The grantee shall deliver the \$6,220.00 payment to Cunningham Recreation immediately upon receipt of this easement.
4. Upon delivery of the safety surfacing said material shall become property of the United States.

Cunningham Recreation contact information is:

Diane Willis
Cunningham Recreation.
P.O. Box 240981
Charlotte, North Carolina 28224-0981
Telephone numbers: (800)-942-1062 ext. 201

Email diane@cunninghamrec.com

Federal Tax ID # 54-0883979

**EXHIBIT "C-3" ATTACHED TO AND MADE A PART OF
EASEMENT NO. DACW45-2-13-8006**

Exhibit B

USACE Garrison Project Office SOP #14 – Vegetation Mitigation

MEMORANDUM FOR: All Garrison Project Employees

SUBJECT: Garrison Project Office SOP #14 – Vegetation Mitigation

1. Purpose: To control and regulate the indiscriminate or excessive removal, large-scale, clear-cutting and destruction of trees/vegetation and to control, standardize and prevent conditions such as: degradation of sensitive areas or wanton destruction which cause an increase in storm water runoff, sedimentation, soil erosion, loss of wildlife habitat, air or noise pollution or inhibit aquifer recharge or impair the ambiance or physical appearance of the property. The guidance contained in this SOP is designed to limit such adverse impact while not interfering with the right of an entity to appropriately remove trees/vegetation in accordance with the guidance set forth herein below.
2. Policy: It is the policy of the Garrison Project Office to seek restitution and/or mitigation for any vegetation removed, destroyed, or damaged on USACE lands managed by the Garrison Project Office.
3. Applicability:
 - a. The terms and provisions of this SOP shall apply to real property located on Garrison Project lands, in all cases of parcels upon which new activities will take place, cases of maintenance or demolition of existing structures, cases of environmental spills/contamination, and/or any other destruction of public property otherwise not stated above.
 - b. Unless specifically exempted herein, it shall be prohibited for any person to remove/damage or cause to be removed/ damaged any vegetation, under the circumstances set forth in paragraph a. above without first having obtained documented project permission to do so. Definition of vegetation includes but is not limited to grasses, forbs, crop cover, shrubs, and trees.
 - c. The removal of vegetation by a private party for the purpose of View Management is prohibited. This SOP will not be used as a mitigation plan to remove vegetation for View Management, but may be used in conjunction with Title 36 authority for restitution and mitigation of any View Management violations.
4. Vegetation Mitigation Plan: A vegetation mitigation plan shall be submitted by the applicant and consist of the following:
 - a. A site plan, survey or plot plan of one (1) inch equals twenty (20) feet or less, showing the location of existing vegetation and clearly marked property boundaries. There shall be a list identifying the number and species of trees/shrubs inventoried and a description of species of grasses, forbs, or crop cover affected with corresponding acreage. The site plan shall include the legal land survey description.
 - b. The location(s) on the parcel where vegetation removal is to take place or where damaged vegetation is located. Shape files of the location are highly encouraged.
 - c. The total square footage of the area being utilized or affected.
 - d. Vegetation Inventory: Trees shall be inventoried using diameter breast height (DBH) measurement, which is the tree's diameter, measured approximately 54" from ground level. Trees with a DBH of two (2) inches or larger shall be individually counted and trees with a DBH smaller than two (2) inches and all shrubs shall be

clump counted by square foot. Clump count by square foot is defined as taking the complete square footage of an area of small trees or shrubs and the count equals 1 small tree or shrub per square foot. To obtain the measurement for a multi-stem tree, each stem is to be tallied separately having its own DBH measurement.

- i. Inventory of the total number of existing trees/shrubs, by size and species, with a DBH of two (2) inches or greater, which are to be mitigated.
 - ii. Inventory of the total number of existing trees listed by species with a DBH smaller than two (2) inches which are to be mitigated, clump counted by square foot.
 - iii. Inventory of the total number of existing shrubs listed by species with a DBH smaller than two (2) inches which are to be mitigated, clump counted by square foot.
- e. A planting detail and description for replacement of vegetation.
- f. All specific plans for mitigation of affected vegetation shall be based on the following requirements:
- i. The replacement vegetation shall be planted on the property where the vegetation was removed or damaged, or planted in a location designated by the USACE.
 - ii. All inventories/informational documents must be provided to the USACE and approval must be obtained prior to commencement of work.
 - iii. Should a road be constructed a specific seed mix will have to be applied to the ditches.
 - iv. The use of erosion control methods will be required as needed.
 - v. Replacement vegetation must be planted within one year after the applicant's project has been completed.

5. Replacement Tree/Shrub Value Calculations:

- a. Pre-existing dead and diseased trees/shrubs as determined by the USACE shall not be included in the mitigation plan.
- b. The USACE may elect, in lieu of planting replacement trees/shrubs, to have the applicant provide compensation/restitution (a sum of money for each tree/shrub that is to be removed or was damaged). These monies will either be sent to the Omaha District, check payable to "USAED-FAO, Omaha District", or placed towards an In Lieu project determined by the USACE.
- c. Tree/shrub vegetation affected by an environmental spill/contamination or likewise injured shall be assessed after one growing season after cleanup procedures have been completed. If tree/shrub displays approximately 50% or more crown decline after one growing season, each tree/shrub shall be inventoried and mitigated for according to this SOP. All other ground vegetation shall be inventoried and shall be restored according to this SOP.
- d. The replacement value of all trees and shrubs that are removed or damaged will be as follows:

Ratio/Value of Replacement Trees

Size of Tree/Shrub Removed (Inches DBH)	Replacement Ratio	Replacement Value
Two, but not more than four (2"-4")	2:1	\$200.00
More than four, but less than eight (4"-8")	3:1	\$400.00
More than eight, but less than twelve (8"-12")	4:1	\$800.00
More than twelve, but less than eighteen (12"-18")	5:1	\$1000.00
More than eighteen, but less than twenty-four (18"-24")	6:1	\$1600.00
More than twenty-four (24" +)	7:1	\$2000.00
Trees with a DBH smaller than 2" clump counted by square foot	4:1	\$200.00
Shrubs with a DBH smaller than 2" clump counted by square foot	4:1	\$200.00

6. Replacement of Ground Cover: Any disturbed ground cover (e.g. crop cover, forbs, grasses) are to be reclaimed to its original state or as determined acceptable by the USACE. Reclamation requirements may include, but are not limited to, the following:

- a. Redistribute soil materials in a manner similar to the original vertical profile.
- b. Reduce compaction to an appropriate depth (generally below the root zone) prior to redistribution of topsoil, to accommodate desired plant species.
- c. Provide suitable surface and subsurface physical, chemical, and biological properties to support the long term establishment and viability of the desired plant community.
- d. Protect seed and seedling establishment (e.g. erosion control matting, mulching, hydro-seeding, surface roughening, fencing, etc.)

7. Species Requirements: The recommended and approved USACE Tree/Shrub list, USACE Grass Species list, and Wildflower Species list contains species or their varieties acceptable for planting on USACE property. The chief objective of the replacement plantings is to enhance habitat for wildlife. Other vegetative species or their varieties not listed may be planted on USACE owned property at USACE discretion, but only desirable vegetation of good appearance, health, and suitability that are generally free from injurious insects, diseases, or other limitations. Where certain planting sites have been assigned a particular species or variety, only that designated species or variety shall be planted on such sites, unless an alternative plan is approved by the USACE.

8. Planting Requirements:

- a. Size - All small trees and their cultivars or varieties shall be in the minimum age classes of: 1-2, 2-1, 3-0, or 2-2 with a top height no less than (8) inches. (The number preceding the hyphen relates to the years the tree spent in a seed bed and the number following the hyphen is the years the tree spent in a nursery field. As such, a 2-2 would be a 4 year old tree.) In some instances, USACE may recommend or require 1-3" DBH trees to be planted as replacements instead of the smaller 3-4 year-old tree saplings, thus reducing the replacement ratio by two according to the chart above, but not less than a 2:1 ratio. (e.g. an 18"-24" DBH tree replacement ratio will be 4:1, and a 4"-8" DBH tree replacement ratio will be 2:1)

b. Grade - Unless otherwise allowed for specific reasons, all trees shall have comparatively straight trunks, well developed leaders and tops, and the roots should be characteristic of the species. They shall have acceptable balance between top and root. At the time of planting, all trees must be free of objectionable features that tend to affect the future health, growth, strength, form and beauty of the plant such as root bound, mechanical injuries, and crown decline. Replacement stock must be purchased from USDA Plant Hardiness zones 3b and 4a.

c. Location and Spacing - No tree shall be planted within a utility easement or closer than thirty (30) feet from overhead utility lines to allow room for line maintenance. No shrubs shall be planted under utilities if its eventual height will interfere with said utility lines. Selection of planting site and species will be approved by the USACE. Spacing of trees shall be determined by the USACE in accordance with local environmental conditions; the species, cultivars or varieties used, and their mature height, spread and form. Generally, all large and medium sized trees, at maturity, shall be spaced a minimum of ten (10) to twelve (12) feet apart, center-to-center, and all small trees shall be spaced a minimum of six (6) to eight (8) feet apart, center-to-center.

d. Methods of Planting and Support - Most small trees and shrubs may be moved bare-rooted unless otherwise indicated. Roots of bare-rooted trees and shrubs must be protected against drying out. All coniferous trees shall be moved balled and burlap. Balled roots should be prevented from drying out at the surface of the ball and they should be protected against freezing. Pits for the planting of bare-root and balled root plants shall be at least two to three times larger in diameter than the diameter of the root system in order to accommodate the roots without crowding and provide room for proper backfill. Small bare root trees/shrubs may also be planted in rows utilizing a mechanical tree planter for the planting of large numbers of trees/shrubs. Plants shall be planted no deeper than previously grown, with due allowance for settling. When planting balled and bur lapped trees, wire baskets and non-degradable strings shall be removed completely, and degradable string and burlap shall be removed from the top 1/3 of the root ball. When the planting is completed, the entire root area shall be thoroughly saturated with water. Any 1-3" DBH tree replacements shall have 4" depth of hardwood mulch applied to the extent of crown width, have their trunks suitably wrapped, and guyed, or supported in an upright position, according to accepted arboricultural practices. The guys or supports shall be installed so that they will neither girdle or cause serious injury to the tree nor endanger public safety.

9. General Maintenance Requirements:

- a. A minimum of 80% of the replacement vegetation must be living at the end of 3 growing seasons in order to meet the mitigation requirements.
- b. The use of tree fabric greatly increases tree survivability and reduces the amount of moisture needed for survival. In some instances USACE may recommend or require that fabric is utilized for a large tree/shrub plantings, thus reducing the replacement ratio by two according to the chart above, but not less than a 2:1 ratio. (e.g. an 18"-24" DBH tree replacement ratio with fabric will be 4:1, and a 4"-8" DBH tree replacement ratio with fabric will be 2:1)

10. Penalty for Non-notification:

a. If vegetation is removed without prior approval, the following protocol will be followed:

- i. If the DBH can be calculated, use the chart above for mitigation or restitution purposes.
- ii. If cut tree or shrub stumps are only visible, each stump will be marked, tallied, and measured at ground level. The following chart shows the value per stump diameter inch. If a cut stump measures 1" or less, the value is set at \$20/stem.

Stump Diameter (in)	Value per Inch
1.1 – 5.0	\$40
5.1 – 10.0	\$55
10.1 – 15.0	\$70
15.1 – 20.0	\$85
20.1 +	\$100

iii. In the event that it is unknown how many trees/shrubs were removed, the number of trees requiring replacement shall be computed by assuming ten (10) trees having twelve (12) – eighteen (18) inches DBH per half acre of disturbed area were removed. The number of shrubs shall be computed by assuming twenty-five (25) shrubs per half acre of disturbed area were removed.

iv. Crop cover, grasses, and forbs will be reclaimed to prior condition at USACE discretion.

b. Any person who violates, or fails, or refuses to comply with this SOP, shall be liable to a penalty set forth in the USACE Title 36 CFR 327.14(a) "Public Property" of not less than two hundred fifty (\$250.00) dollars.



TODD J. LINDQUIST
Operations Project Manager

USACE Tree List

American Linden (<i>Tilia americana</i>) --- Jamestown	http://www.ag.ndsu.edu/trees/handbook/th-3-123.pdf
Balsam Poplar (<i>Populus balsamifera</i>)	http://plants.usda.gov/java/profile?symbol=POBA2
Black Hills Spruce (<i>Picea glauca</i> var. <i>densata</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-175.pdf
Box Elder (<i>Acer negundo</i>)	http://plants.usda.gov/java/profile?symbol=ACNE2
Bur Oak (<i>Quercus macrocarpa</i>)	http://plants.usda.gov/java/profile?symbol=QUMA2
Common Hackberry (<i>Celtis occidentalis</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-119.pdf
Colorado Blue Spruce (<i>Picea pungens</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-177.pdf
Cottonwood (<i>Populus</i>)	http://plants.usda.gov/java/profile?symbol=POPUL
Honeylocust (<i>Gleditsia triacanthos</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-121.pdf
Laurel Willow (<i>Salix pentandra</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-141.pdf
Peachleaf Willow (<i>Salix amygdaloides</i> Andersson)	http://plants.usda.gov/java/nameSearch
Ponderosa Pine (<i>Pinus ponderosa</i>)	http://plants.usda.gov/java/profile?symbol=PIPO
Quaking Aspen (<i>Populus tremuloides</i>)	
http://plants.usda.gov/java/profile?symbol=POTR5&mapType=nativity&photoID=potr5_002_avp.jpg	
Rocky Mountain Juniper (<i>Juniperus scopulorum</i>)	
http://plants.usda.gov/java/profile?symbol=JUSC2&mapType=nativity&photoID=jusc2_001_avp.tif	
Sandbar Willow (<i>Salix interior</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-65.pdf
Silver Maple (<i>Acer saccharinum</i>)	http://plants.usda.gov/java/profile?symbol=ACSA2

USACE Shrub List

American Plum (<i>Prunus Americana</i>)	
http://plants.usda.gov/java/profile?symbol=PRAM&mapType=nativity&photoID=pram_002_ahp.jpg	
American Cranberry Bush (<i>Viburnum trilobum</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-17.pdf
Black Currant (<i>Ribes americanum</i>)	http://plants.usda.gov/java/profile?symbol=RIAM2
Common Chokecherry (<i>Prunus virginiana</i>)	
http://plants.usda.gov/java/profile?symbol=PRVI&mapType=nativity&photoID=prvi_001_avp.jpg	
Elderberry (<i>Sambucus</i>)	http://plants.usda.gov/java/profile?symbol=SAMBU
Freedom Honeysuckle (<i>Lonicera</i> x 'Freedom')	http://www.ag.ndsu.edu/trees/handbook/th-3-29.pdf
False Indigo (<i>Amorpha fruticosa</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-31.pdf
Golden Currant (<i>Ribes odoratum</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-19.pdf
Hawthorn (<i>Crataegus arnoldiana</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-79.pdf
Juneberry (<i>Amelanchier alnifolia</i>)	
http://plants.usda.gov/java/profile?symbol=AMAL2&mapType=nativity&photoID=amal2_002_ahp.tif	
Redosier Dogwood (<i>Cornus sericea</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-21.pdf
Silverberry (<i>Elaeagnus commutata</i>)	
http://plants.usda.gov/java/profile?symbol=ELCO&mapType=nativity&photoID=elco_001_avp.tif	
Silver Buffaloberry (<i>Shepherdia argentea</i>)	
http://plants.usda.gov/java/profile?symbol=SHAR&mapType=nativity&photoID=shar_001_ahp.tif	
Skunkbush Sumac (<i>Rhus trilobata</i>)	
http://plants.usda.gov/java/profile?symbol=RHTR&mapType=nativity&photoID=rhtr_001_ahp.tif	
Smooth Sumac (<i>Rhus glabra</i>)	http://plants.usda.gov/java/profile?symbol=RHGL
Snowberry (<i>Symphoricarpos occidentalis</i>)	http://plants.usda.gov/java/profile?symbol=SYOC
Western Sandcherry (<i>Prunus besseyi</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-45.pdf
Woods Rose (<i>Rosa woodsii</i>)	http://plants.usda.gov/java/profile?symbol=ROWO

USACE Grass Species Mix NO. 1	PLS
Canada wild rye	15%
Blue grama (bad river)	20%
June grass	5%
Big bluestem	10%
Little bluestem	25%
Indian grass	5%
Switchgrass	5%
Side oats grama	15%

Seeding dates: May 1 – June 15

USACE Grass Species Mix NO. 2

Species	Variety	Common Name	% of Mix	Actual PLS Mix Po/Acre	Broadcast Actual PLS Lbs/Acre
Grasses Cool Season:					
Agropyron smithii	Rodan	Western wheatgrass	40%	4.00	8.00
Stipa viridula	Lodorm	Green needlegrass	30%	3.00	6.00
Grasses Warm Season					
Calamovilfa longifolia	Goshen	Prairie sandreed	30%	3.00	6.00
Total of All Species			100%	10.00	20.00
Cover Crop: 1 of 3				4.00	8.00
Total Pounds per Type				14.00	28.00

Seeding dates: May 1 – June 15

The recommended seeding rate would be 12 lbs PLS/acre if broadcasted or if drilled a seed rate of 8-10 lbs PLS/acre will be used.

Use of Pure Live Seed (PLS) for calculating seed mixtures

All of the seed mixtures in this guide give the rate of pure live seed (PLS) for each species per acre. These rates were derived using three basic figures: percent of each species desired by composition, number of seeds per pound according to species, and total number of PLS per square foot.

The following equation should be used to calculate how much seed is needed to provide the required pounds of PLS needed.

$$\% \text{ purity} \times \text{germination rate} \% = \% \text{ PLS}$$

$$\text{pounds of PLS desired divided by } \% \text{ PLS} = \text{Pounds of Seed Required}$$

An example of this is: 10 pounds of PLS is required. The given seed lot for this species has a purity of 95% and a germination rate of 85%. How many pounds of seed will be necessary to have 10 PLS?

$$.95 \text{ (purity)} \times .85 \text{ (germination rate)} = .81 \text{ (\% PLS)}$$

$$10 \text{ (required poundage)} \text{ divided by } .81 \text{ (\% PLS)} = 12.3$$

12.3 pounds of seed will be necessary to provide 10 pounds PLS of seed.

USACE Wildflower Species

- | | |
|---|---|
| Purple coneflower (<i>Ratibida columnifera</i>) | Yarrow (<i>Achillea millefolium</i>) |
| Upland goldenrod (<i>Solidago ptarmicoides</i>) | Stiff sunflower (<i>Helianthus rigidus</i>) |
| Wild lupine (<i>Lupinus perennis</i>) | Wild bergamot (<i>Monarda fistulosa</i>) |
| White prairie clover (<i>Petalostemum candidum</i>) | Purple prairie clover (<i>Petalostemum purpureum</i>) |
| Fragrant giant hyssop (<i>Agastache foeniculum</i>) | Gray goldenrod (<i>Solidago nemoralis</i>) |

*Any species not included on our approved lists that is considered non-native or invasive will NOT be deemed as an option for replacement or reseeding stock.

Exhibit C

Tree and Shrub Inventory Field Survey Report



ONEOK Rockies Midstream, L.L.C.

Tree and Shrub Inventory Field Survey Report

PRESENTED BY MERJENT, INC.
November 22, 2017

TABLE OF CONTENTS

1.0 INTRODUCTION..... 1
2.0 METHODS 3
3.0 RESULTS 3

LIST OF TABLES

Table 3.0-1 Tree and Shrub Inventory Results Summary

LIST OF FIGURES

Figure 1.1-1 Project Overview

APPENDICES

- Appendix A USACE Garrison Project Office SOP #14 – Vegetation Mitigation
- Appendix B Tree / Shrub Inventory – Map Index
- Appendix C Tree / Shrub Inventory – Survey Results Map
- Appendix D Tree / Shrub Inventory Features Table
- Appendix E Representative Photos

1.0 INTRODUCTION

Merjent, Inc. (Merjent), on behalf of ONEOK Rockies Midstream, L.L.C. (ONEOK), conducted a tree and shrub inventory on United States Army Corps of Engineers (USACE) and North Dakota Game and Fish Department (NDGF) owned and managed properties along ONEOK's existing 12" natural gas pipeline (Project). The USACE and NDGF properties consist of an approximate 4.4-mile-long segment of the pipeline located in McKenzie and Williams Counties and intersects the Missouri River approximately 8.0 miles southwest of Williston, North Dakota (see Figure 1.0-1).

The purpose of this inventory was to locate and characterize the trees and shrubs located within a 60-foot survey corridor (Corridor) that follows the existing Project centerline. All trees and singular shrubs were individually documented, and all shrub stands were documented using the USACE clump count methodology (Appendix A).

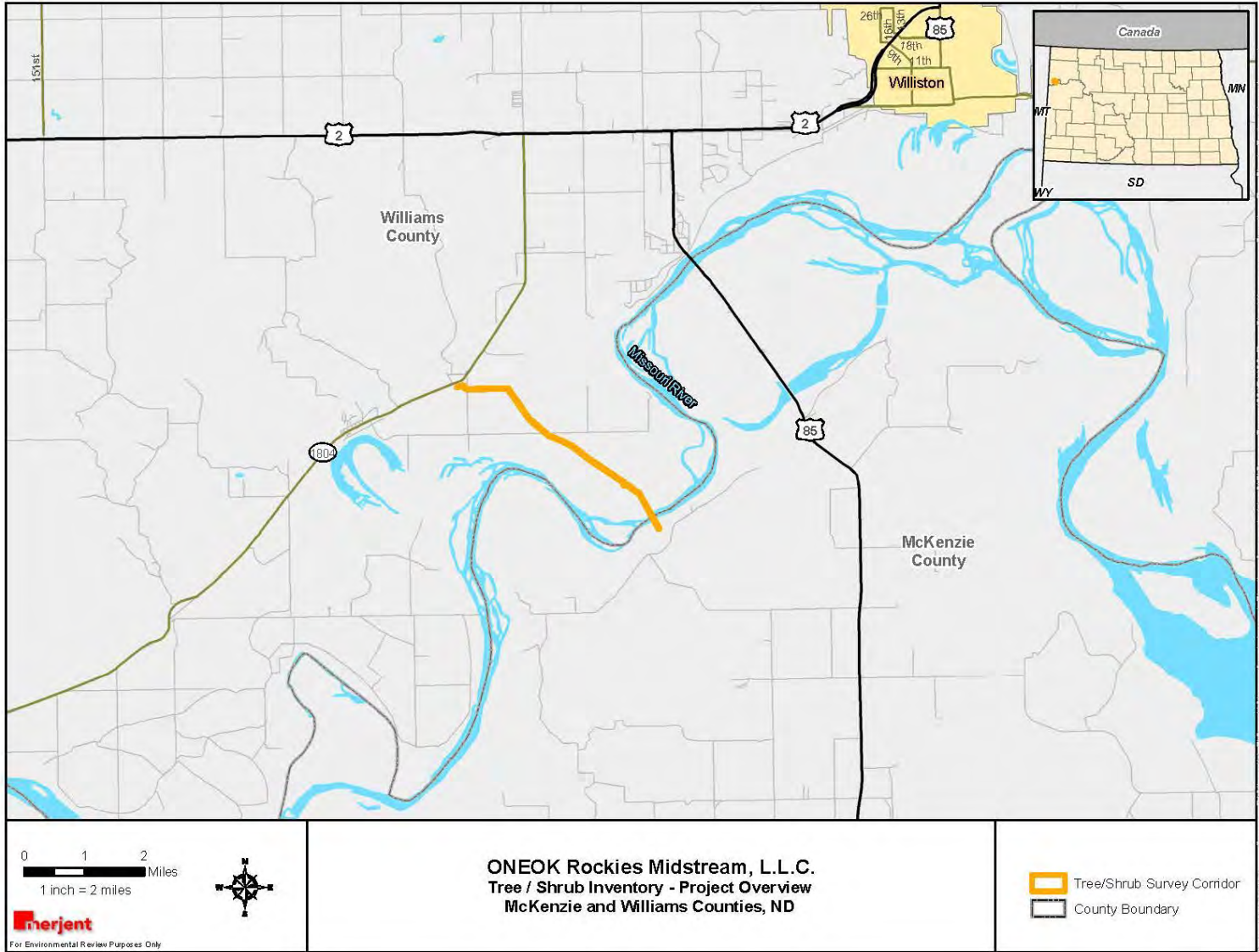


Figure 1.0-1: Project Overview

2.0 METHODS

On October 9-11, 2017, Merjent conducted a pedestrian survey using visual observations of the Corridor to inventory all trees and shrubs. A sub-meter global positioning system (GPS) unit was used to document the location of observed trees and shrubs. An individual point was collected for each tree and individually growing shrub. In circumstances of multiple trunks, each trunk was identified as one tree. A polygon was collected for each discrete stand of shrubs. Unique identifiers were given to each point and polygon collected. For each point, the following information was collected: diameter at breast height (DBH), species, and if the individual looked stressed or not. For each polygon, the following information was collected: species, and if the stand looked stressed or not. Each point collected is counted as one individual tree or shrub. The USACE clump count (Appendix A) methodology was applied to each polygon to determine number of individuals, wherein the number of individuals within a polygon corresponds to the square footage of the stand at a ratio of 1 square foot per individual shrub.

3.0 RESULTS

Merjent identified eight species of trees and shrubs within the Corridor. All documented trees and shrubs appeared to be naturally occurring. Table 3.0-1 includes a summary of the species observed, along with growth form, native status, and count of species occurrences. Appendices B and C illustrate collected location data and Appendix D provides detailed feature data.

Table 3.0-1 Tree and Shrub Inventory Summary				
Species	Common Name	Growth Form	Native / Introduced	Count
<i>Acer negundo</i>	Boxelder	Tree	Native	3
<i>Crataegus chrysocarpa</i>	Fireberry Hawthorn	Shrub	Native	2
<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	6
<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	86
<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	97
<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	103
<i>Salix interior</i>	Sandbar Willow	Shrub	Native	139,462
<i>Symphoricarpos albus</i>	Common Snowberry	Shrub	Native	1147
Totals				140,906

Appendix A

USACE Garrison Project Office SOP #14 - Vegetation Mitigation

MEMORANDUM FOR: All Garrison Project Employees

SUBJECT: Garrison Project Office SOP #14 – Vegetation Mitigation

1. Purpose: To control and regulate the indiscriminate or excessive removal, large-scale, clear-cutting and destruction of trees/vegetation and to control, standardize and prevent conditions such as: degradation of sensitive areas or wanton destruction which cause an increase in storm water runoff, sedimentation, soil erosion, loss of wildlife habitat, air or noise pollution or inhibit aquifer recharge or impair the ambiance or physical appearance of the property. The guidance contained in this SOP is designed to limit such adverse impact while not interfering with the right of an entity to appropriately remove trees/vegetation in accordance with the guidance set forth herein below.

2. Policy: It is the policy of the Garrison Project Office to seek restitution and/or mitigation for any vegetation removed, destroyed, or damaged on USACE lands managed by the Garrison Project Office.

3. Applicability:

a. The terms and provisions of this SOP shall apply to real property located on Garrison Project lands, in all cases of parcels upon which new activities will take place, cases of maintenance or demolition of existing structures, cases of environmental spills/contamination, and/or any other destruction of public property otherwise not stated above.

b. Unless specifically exempted herein, it shall be prohibited for any person to remove/damage or cause to be removed/ damaged any vegetation, under the circumstances set forth in paragraph a. above without first having obtained documented project permission to do so. Definition of vegetation includes but is not limited to grasses, forbs, crop cover, shrubs, and trees.

c. The removal of vegetation by a private party for the purpose of View Management is prohibited. This SOP will not be used as a mitigation plan to remove vegetation for View Management, but may be used in conjunction with Title 36 authority for restitution and mitigation of any View Management violations.

4. Vegetation Mitigation Plan: A vegetation mitigation plan shall be submitted by the applicant and consist of the following:

a. A site plan, survey or plot plan of one (1) inch equals twenty (20) feet or less, showing the location of existing vegetation and clearly marked property boundaries. There shall be a list identifying the number and species of trees/shrubs inventoried

and a description of species of grasses, forbs, or crop cover affected with corresponding acreage. The site plan shall include the legal land survey description.

b. The location(s) on the parcel where vegetation removal is to take place or where damaged vegetation is located. Shape files of the location are highly encouraged.

c. The total square footage of the area being utilized or affected.

d. Vegetation Inventory: Trees shall be inventoried using diameter breast height (DBH) measurement, which is the tree's diameter, measured approximately 54" from ground level. Trees with a DBH of two (2) inches or larger shall be individually counted and trees with a DBH smaller than two (2) inches and all shrubs shall be

clump counted by square foot. Clump count by square foot is defined as taking the complete square footage of an area of small trees or shrubs and the count equals 1 small tree or shrub per square foot. To obtain the measurement for a multi-stem tree, each stem is to be tallied separately having its own DBH measurement.

- i. Inventory of the total number of existing trees/shrubs, by size and species, with a DBH of two (2) inches or greater, which are to be mitigated.
 - ii. Inventory of the total number of existing trees listed by species with a DBH smaller than two (2) inches which are to be mitigated, clump counted by square foot.
 - iii. Inventory of the total number of existing shrubs listed by species with a DBH smaller than two (2) inches which are to be mitigated, clump counted by square foot.
- e. A planting detail and description for replacement of vegetation.
- f. All specific plans for mitigation of affected vegetation shall be based on the following requirements:
- i. The replacement vegetation shall be planted on the property where the vegetation was removed or damaged, or planted in a location designated by the USACE.
 - ii. All inventories/informational documents must be provided to the USACE and approval must be obtained prior to commencement of work.
 - iii. Should a road be constructed a specific seed mix will have to be applied to the ditches.
 - iv. The use of erosion control methods will be required as needed.
 - v. Replacement vegetation must be planted within one year after the applicant's project has been completed.

5. Replacement Tree/Shrub Value Calculations:

- a. Pre-existing dead and diseased trees/shrubs as determined by the USACE shall not be included in the mitigation plan.
- b. The USACE may elect, in lieu of planting replacement trees/shrubs, to have the applicant provide compensation/restitution (a sum of money for each tree/shrub that is to be removed or was damaged). These monies will either be sent to the Omaha District, check payable to "USAED-FAO, Omaha District", or placed towards an In Lieu project determined by the USACE.
- c. Tree/shrub vegetation affected by an environmental spill/contamination or likewise injured shall be assessed after one growing season after cleanup procedures have been completed. If tree/shrub displays approximately 50% or more crown decline after one growing season, each tree/shrub shall be inventoried and mitigated for according to this SOP. All other ground vegetation shall be inventoried and shall be restored according to this SOP.
- d. The replacement value of all trees and shrubs that are removed or damaged will be as follows:

Ratio/Value of Replacement Trees

Size of Tree/Shrub Removed (Inches DBH)	Replacement Ratio	Replacement Value
Two, but not more than four (2"-4")	2:1	\$200.00
More than four, but less than eight (4"-8")	3:1	\$400.00
More than eight, but less than twelve (8"-12")	4:1	\$800.00
More than twelve, but less than eighteen (12"-18")	5:1	\$1000.00
More than eighteen, but less than twenty-four (18"-24")	6:1	\$1600.00
More than twenty-four (24" +)	7:1	\$2000.00
Trees with a DBH smaller than 2" clump counted by square foot	4:1	\$200.00
Shrubs with a DBH smaller than 2" clump counted by square foot	4:1	\$200.00

6. Replacement of Ground Cover: Any disturbed ground cover (e.g. crop cover, forbs, grasses) are to be reclaimed to its original state or as determined acceptable by the USACE. Reclamation requirements may include, but are not limited to, the following:

- a. Redistribute soil materials in a manner similar to the original vertical profile.
- b. Reduce compaction to an appropriate depth (generally below the root zone) prior to redistribution of topsoil, to accommodate desired plant species.
- c. Provide suitable surface and subsurface physical, chemical, and biological properties to support the long term establishment and viability of the desired plant community.
- d. Protect seed and seedling establishment (e.g. erosion control matting, mulching, hydro-seeding, surface roughening, fencing, etc.)

7. Species Requirements: The recommended and approved USACE Tree/Shrub list, USACE Grass Species list, and Wildflower Species list contains species or their varieties acceptable for planting on USACE property. The chief objective of the replacement plantings is to enhance habitat for wildlife. Other vegetative species or their varieties not listed may be planted on USACE owned property at USACE discretion, but only desirable vegetation of good appearance, health, and suitability that are generally free from injurious insects, diseases, or other limitations. Where certain planting sites have been assigned a particular species or variety, only that designated species or variety shall be planted on such sites, unless an alternative plan is approved by the USACE.

8. Planting Requirements:

- a. Size - All small trees and their cultivars or varieties shall be in the minimum age classes of: 1-2, 2-1, 3-0, or 2-2 with a top height no less than (8) inches. (The number preceding the hyphen relates to the years the tree spent in a seed bed and the number following the hyphen is the years the tree spent in a nursery field. As such, a 2-2 would be a 4 year old tree.) In some instances, USACE may recommend or require 1-3" DBH trees to be planted as replacements instead of the smaller 3-4 year-old tree saplings, thus reducing the replacement ratio by two according to the chart above, but not less than a 2:1 ratio. (e.g. an 18"-24" DBH tree replacement ratio will be 4:1, and a 4"-8" DBH tree replacement ratio will be 2:1)

b. Grade - Unless otherwise allowed for specific reasons, all trees shall have comparatively straight trunks, well developed leaders and tops, and the roots should be characteristic of the species. They shall have acceptable balance between top and root. At the time of planting, all trees must be free of objectionable features that tend to affect the future health, growth, strength, form and beauty of the plant such as root bound, mechanical injuries, and crown decline. Replacement stock must be purchased from USDA Plant Hardiness zones 3b and 4a.

c. Location and Spacing - No tree shall be planted within a utility easement or closer than thirty (30) feet from overhead utility lines to allow room for line maintenance. No shrubs shall be planted under utilities if its eventual height will interfere with said utility lines. Selection of planting site and species will be approved by the USACE. Spacing of trees shall be determined by the USACE in accordance with local environmental conditions; the species, cultivars or varieties used, and their mature height, spread and form. Generally, all large and medium sized trees, at maturity, shall be spaced a minimum of ten (10) to twelve (12) feet apart, center-to-center, and all small trees shall be spaced a minimum of six (6) to eight (8) feet apart, center-to-center.

d. Methods of Planting and Support - Most small trees and shrubs may be moved bare-rooted unless otherwise indicated. Roots of bare-rooted trees and shrubs must be protected against drying out. All coniferous trees shall be moved balled and burlap. Balled roots should be prevented from drying out at the surface of the ball and they should be protected against freezing. Pits for the planting of bare-root and balled root plants shall be at least two to three times larger in diameter than the diameter of the root system in order to accommodate the roots without crowding and provide room for proper backfill. Small bare root trees/shrubs may also be planted in rows utilizing a mechanical tree planter for the planting of large numbers of trees/shrubs. Plants shall be planted no deeper than previously grown, with due allowance for settling. When planting balled and bur lapped trees, wire baskets and non-degradable strings shall be removed completely, and degradable string and burlap shall be removed from the top 1/3 of the root ball. When the planting is completed, the entire root area shall be thoroughly saturated with water. Any 1-3" DBH tree replacements shall have 4" depth of hardwood mulch applied to the extent of crown width, have their trunks suitably wrapped, and guyed, or supported in an upright position, according to accepted arboricultural practices. The guys or supports shall be installed so that they will neither girdle or cause serious injury to the tree nor endanger public safety.

9. General Maintenance Requirements:

a. A minimum of 80% of the replacement vegetation must be living at the end of 3 growing seasons in order to meet the mitigation requirements.

b. The use of tree fabric greatly increases tree survivability and reduces the amount of moisture needed for survival. In some instances USACE may recommend or require that fabric is utilized for a large tree/shrub plantings, thus reducing the replacement ratio by two according to the chart above, but not less than a 2:1 ratio. (e.g. an 18"-24" DBH tree replacement ratio with fabric will be 4:1, and a 4"-8" DBH tree replacement ratio with fabric will be 2:1)

10. Penalty for Non-notification:

a. If vegetation is removed without prior approval, the following protocol will be followed:

i. If the DBH can be calculated, use the chart above for mitigation or restitution purposes.

ii. If cut tree or shrub stumps are only visible, each stump will be marked, tallied, and measured at ground level. The following chart shows the value per stump diameter inch. If a cut stump measures 1" or less, the value is set at \$20/stem.

Stump Diameter (in)	Value per Inch
1.1 – 5.0	\$40
5.1 – 10.0	\$55
10.1 – 15.0	\$70
15.1 – 20.0	\$85
20.1 +	\$100

iii. In the event that it is unknown how many trees/shrubs were removed, the number of trees requiring replacement shall be computed by assuming ten (10) trees having twelve (12) – eighteen (18) inches DBH per half acre of disturbed area were removed. The number of shrubs shall be computed by assuming twenty-five (25) shrubs per half acre of disturbed area were removed.

iv. Crop cover, grasses, and forbs will be reclaimed to prior condition at USACE discretion.

b. Any person who violates, or fails, or refuses to comply with this SOP, shall be liable to a penalty set forth in the USACE Title 36 CFR 327.14(a) "Public Property" of not less than two hundred fifty (\$250.00) dollars.



TODD J. LINDQUIST
Operations Project Manager

USACE Tree List

American Linden (<i>Tilia americana</i>) — Jamestown	http://www.ag.ndsu.edu/trees/handbook/th-3-123.pdf
Balsam Poplar (<i>Populus balsamifera</i>)	http://plants.usda.gov/java/profile?symbol=POBA2
Black Hills Spruce (<i>Picea glauca</i> var. <i>densata</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-175.pdf
Box Elder (<i>Acer negundo</i>)	http://plants.usda.gov/java/profile?symbol=ACNE2
Bur Oak (<i>Quercus macrocarpa</i>)	http://plants.usda.gov/java/profile?symbol=QUMA2
Common Hackberry (<i>Celtis occidentalis</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-119.pdf
Colorado Blue Spruce (<i>Picea pungens</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-177.pdf
Cottonwood (<i>Populus</i>)	http://plants.usda.gov/java/profile?symbol=POPUL
Honeylocust (<i>Gleditsia triacanthos</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-121.pdf
Laurel Willow (<i>Salix pentandra</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-141.pdf
Peachleaf Willow (<i>Salix amygdaloides</i> Andersson)	http://plants.usda.gov/java/nameSearch
Ponderosa Pine (<i>Pinus ponderosa</i>)	http://plants.usda.gov/java/profile?symbol=PIPO
Quaking Aspen (<i>Populus tremuloides</i>)	http://plants.usda.gov/java/profile?symbol=POTR5&mapType=nativity&photoID=potr5_002_avp.jpg
Rocky Mountain Juniper (<i>Juniperus scopulorum</i>)	http://plants.usda.gov/java/profile?symbol=JUSC2&mapType=nativity&photoID=jusc2_001_avp.tif
Sandbar Willow (<i>Salix interior</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-65.pdf
Silver Maple (<i>Acer saccharinum</i>)	http://plants.usda.gov/java/profile?symbol=ACSA2

USACE Shrub List

American Plum (<i>Prunus Americana</i>)	http://plants.usda.gov/java/profile?symbol=PRAM&mapType=nativity&photoID=pram_002_ahp.jpg
American Cranberry Bush (<i>Viburnum trilobum</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-17.pdf
Black Currant (<i>Ribes americanum</i>)	http://plants.usda.gov/java/profile?symbol=RIAM2
Common Chokecherry (<i>Prunus virginiana</i>)	http://plants.usda.gov/java/profile?symbol=PRVI&mapType=nativity&photoID=prvi_001_avp.jpg
Elderberry (<i>Sambucus</i>)	http://plants.usda.gov/java/profile?symbol=SAMBU
Freedom Honeysuckle (<i>Lonicera</i> x 'Freedom')	http://www.ag.ndsu.edu/trees/handbook/th-3-29.pdf
False Indigo (<i>Amorpha fruticosa</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-31.pdf
Golden Currant (<i>Ribes odoratum</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-19.pdf
Hawthorn (<i>Crataegus arnoldiana</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-79.pdf
Juneberry (<i>Amelanchier alnifolia</i>)	http://plants.usda.gov/java/profile?symbol=AMAL2&mapType=nativity&photoID=amal2_002_ahp.tif
Redosier Dogwood (<i>Cornus sericea</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-21.pdf
Silverberry (<i>Elaeagnus commutata</i>)	http://plants.usda.gov/java/profile?symbol=ELCO&mapType=nativity&photoID=elco_001_avp.tif
Silver Buffaloberry (<i>Shepherdia argentea</i>)	http://plants.usda.gov/java/profile?symbol=SHAR&mapType=nativity&photoID=shar_001_ahp.tif
Skunkbush Sumac (<i>Rhus trilobata</i>)	http://plants.usda.gov/java/profile?symbol=RHTR&mapType=nativity&photoID=rhtr_001_ahp.tif
Smooth Sumac (<i>Rhus glabra</i>)	http://plants.usda.gov/java/profile?symbol=RHGL
Snowberry (<i>Symphoricarpos occidentalis</i>)	http://plants.usda.gov/java/profile?symbol=SYOC
Western Sandcherry (<i>Prunus besseyi</i>)	http://www.ag.ndsu.edu/trees/handbook/th-3-45.pdf
Woods Rose (<i>Rosa woodsii</i>)	http://plants.usda.gov/java/profile?symbol=ROWO

USACE Grass Species Mix NO. 1	PLS
Canada wild rye	15%
Blue grama (bad river)	20%
June grass	5%
Big bluestem	10%
Little bluestem	25%
Indian grass	5%
Switchgrass	5%
Side oats grama	15%

Seeding dates: May 1 – June 15

USACE Grass Species Mix NO. 2

Species	Variety	Common Name	% of Mix	Actual PLS Mix Po/Acre	Broadcast Actual PLS Lbs/Acre
Grasses Cool Season:					
Agropyron smithii	Rodan	Western wheatgrass	40%	4.00	8.00
Stipa viridula	Lodorm	Green needlegrass	30%	3.00	6.00
Grasses Warm Season					
Calamovilfa longifolia	Goshen	Prairie sandreed	30%	3.00	6.00
Total of All Species			100%	10.00	20.00
Cover Crop: 1 of 3				4.00	8.00
	Mandan	Oats or Barley or Canadian Wild Rye			
Total Pounds per Type				14.00	28.00

Seeding dates: May 1 – June 15

The recommended seeding rate would be 12 lbs PLS/acre if broadcasted or if drilled a seed rate of 8-10 lbs PLS/acre will be used.

Use of Pure Live Seed (PLS) for calculating seed mixtures

All of the seed mixtures in this guide give the rate of pure live seed (PLS) for each species per acre. These rates were derived using three basic figures: percent of each species desired by composition, number of seeds per pound according to species, and total number of PLS per square foot.

The following equation should be used to calculate how much seed is needed to provide the required pounds of PLS needed.

$$\% \text{ purity} \times \text{germination rate} \% = \% \text{ PLS}$$

$$\text{pounds of PLS desired divided by } \% \text{ PLS} = \text{Pounds of Seed Required}$$

An example of this is: 10 pounds of PLS is required. The given seed lot for this species has a purity of 95% and a germination rate of 85%. How many pounds of seed will be necessary to have 10 PLS?

$$.95 \text{ (purity)} \times .85 \text{ (germination rate)} = .81 \text{ (\% PLS)}$$

$$10 \text{ (required poundage)} \text{ divided by } .81 \text{ (\% PLS)} = 12.3$$

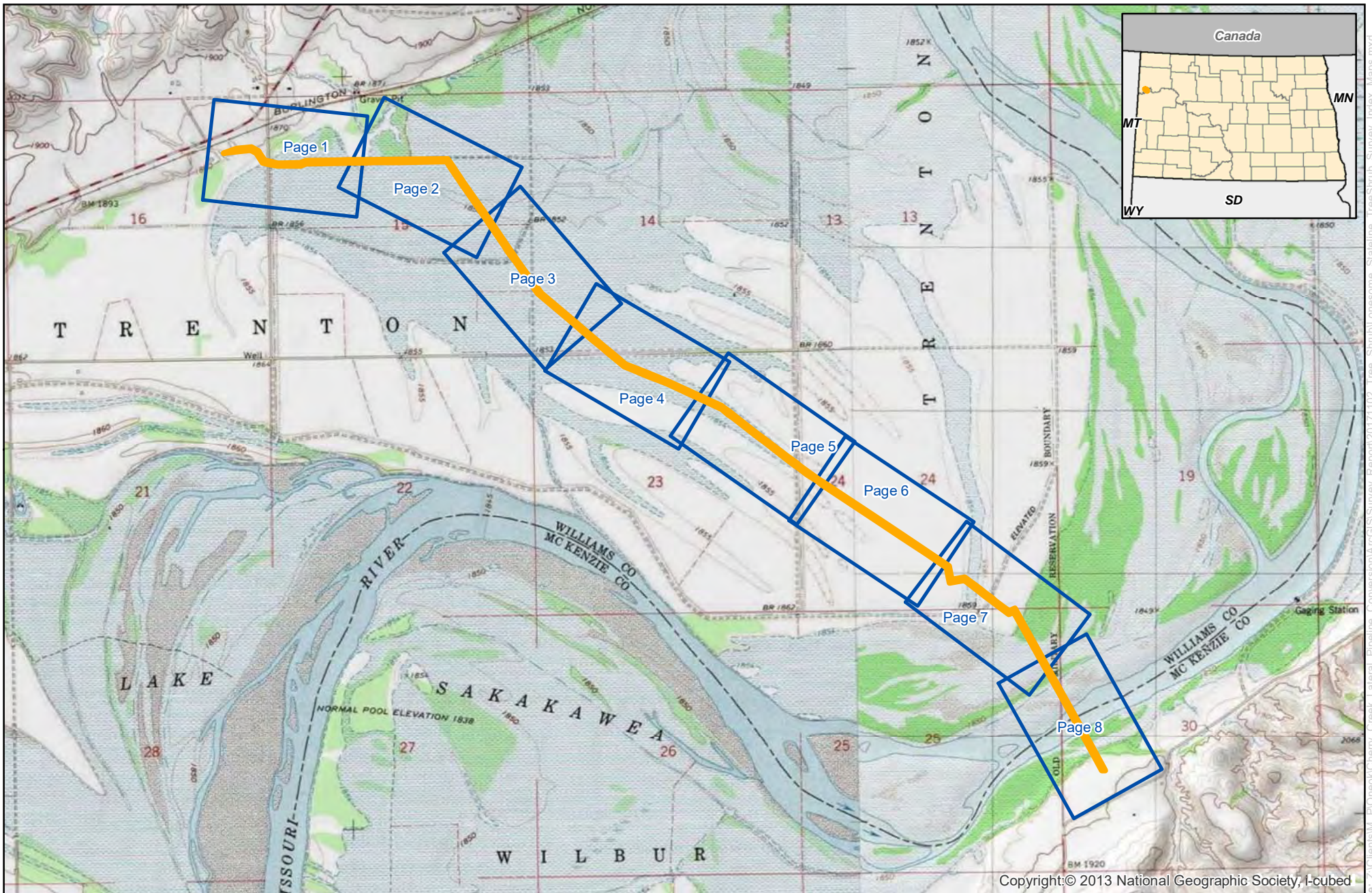
12.3 pounds of seed will be necessary to provide 10 pounds PLS of seed.

USACE Wildflower Species

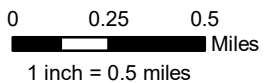
Purple coneflower (<i>Ratibida columnifera</i>)	Yarrow (<i>Achillea millefolium</i>)
Upland goldenrod (<i>Solidago ptarmicoides</i>)	Stiff sunflower (<i>Helianthus rigidus</i>)
Wild lupine (<i>Lupinus perennis</i>)	Wild bergamot (<i>Monarda fistulosa</i>)
White prairie clover (<i>Petalostemum candidum</i>)	Purple prairie clover (<i>Petalostemum purpureum</i>)
Fragrant giant hyssop (<i>Agastache foeniculum</i>)	Gray goldenrod (<i>Solidago nemoralis</i>)

*Any species not included on our approved lists that is considered non-native or invasive will NOT be deemed as an option for replacement or reseeding stock.

Appendix B
Tree/Shrub Inventory - Map Index



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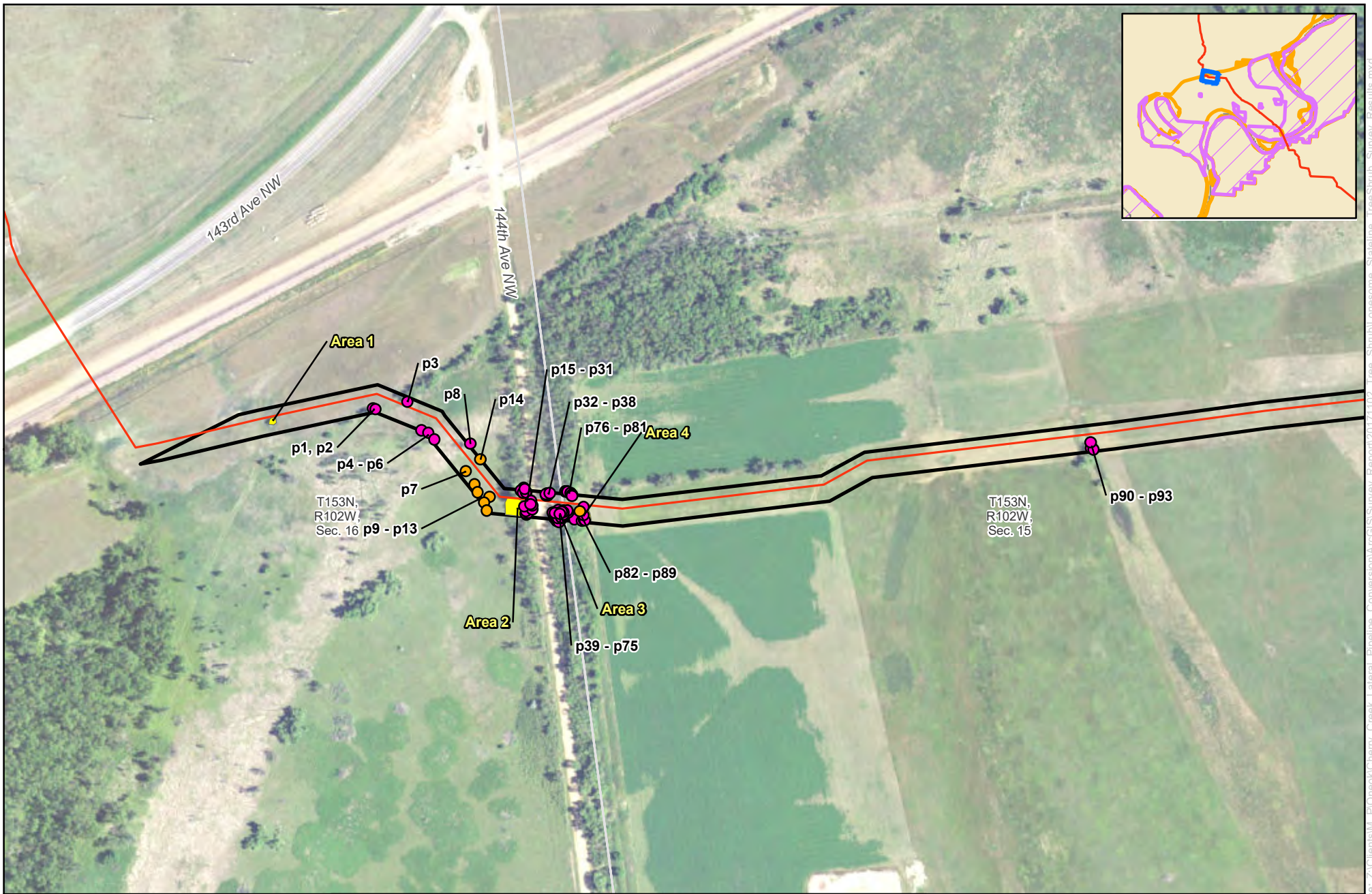
Appendix B
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Map Index
McKenzie and Williams Counties, ND

- Tree/Shrub Survey Corridor
- 1:3600 Map Index

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Appendix C

Tree/Shrub Inventory Survey Results Map



Appendix C
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Survey Results Map
McKenzie and Williams Counties, ND

0 150 300
 Feet
 1 inch = 300 feet



For Environmental Review Purposes Only

Page 1 of 8

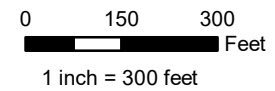
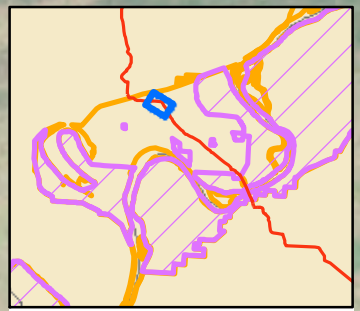
- | | |
|----------------------------|-------------------------|
| Project Centerline | Clump Count |
| Tree/Shrub Survey Corridor | Individual Count |
| | Shrub |
| | Tree |

Date: (11/17/2017) Source: Z:\Clients\W\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017102_1tree_ShrubInventory_Survey_Results.mxd








T153N, R102W,
Sec. 15

p94
p95
p96
p97 - p99



Appendix C
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Survey Results Map
McKenzie and Williams Counties, ND

-  Project Centerline
-  Tree/Shrub Survey Corridor
-  Clump Count
- Individual Count**
-  Shrub
-  Tree



T153N,
R102W,
Sec. 14

T153N,
R102W,
Sec. 15

45th S/NW
T153N,
R102W,
Sec. 22
T153N,
R102W,
Sec. 23

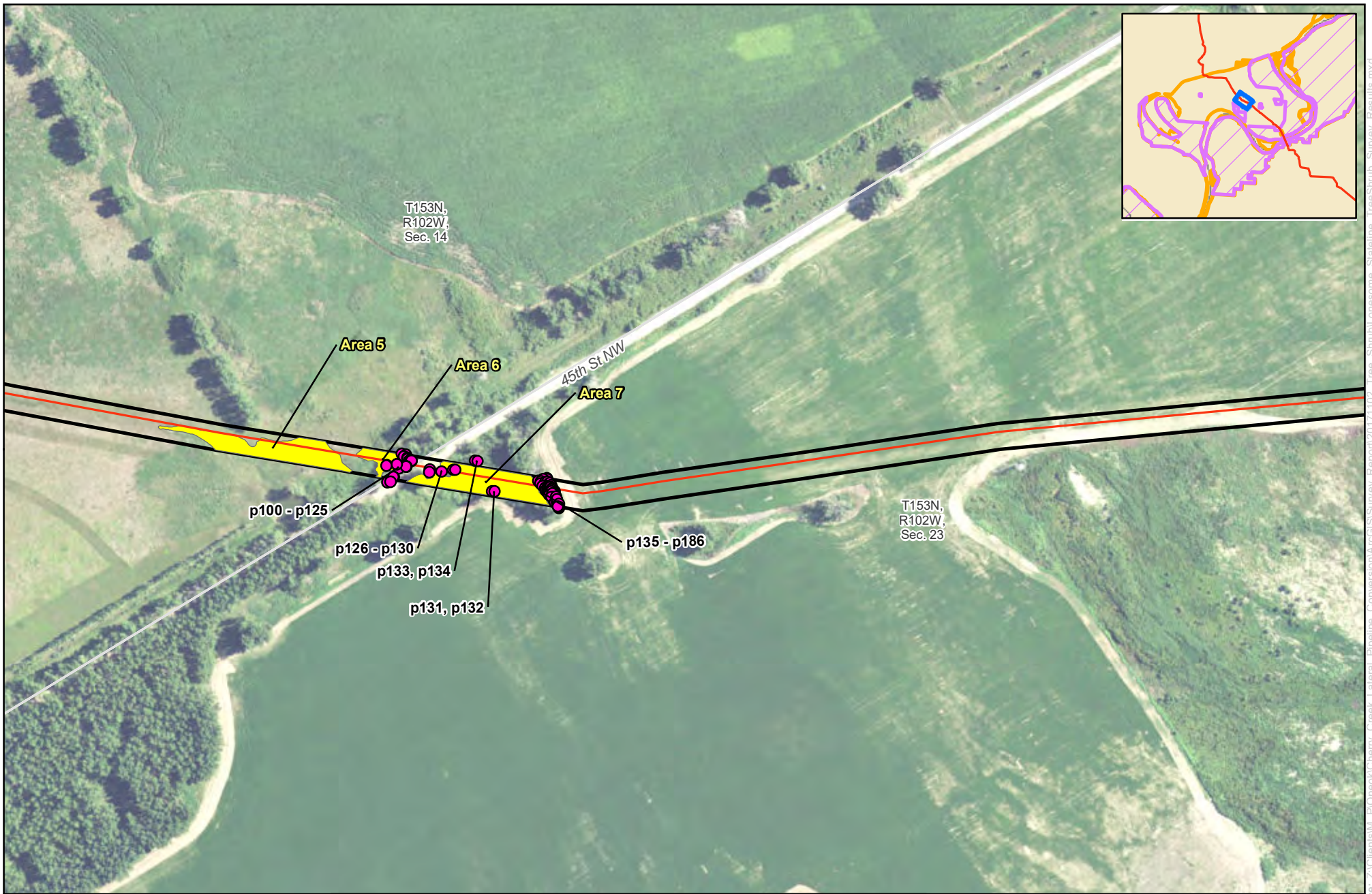
Appendix C
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Survey Results Map
McKenzie and Williams Counties, ND

- Project Centerline
- Tree/Shrub Survey Corridor
- Clump Count
- Individual Count**
- Shrub
- Tree

0 150 300
 Feet
 1 inch = 300 feet



Source: Z:\Clients\W\P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171102_Tree_ShrubInventory_StateLine_Tree_Shrub_Survey_Results.mxd
 Date: 11/17/2017



Appendix C
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Survey Results Map
McKenzie and Williams Counties, ND

0 150 300
 Feet
 1 inch = 300 feet



For Environmental Review Purposes Only

- | | |
|----------------------------|-------------------------|
| Project Centerline | Clump Count |
| Tree/Shrub Survey Corridor | Individual Count |
| | Shrub |
| | Tree |

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T153N, R102W,
Sec. 24

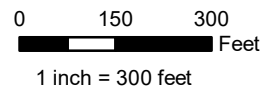
Area 8

Area 9

T153N,
R102W,
Sec. 23

142nd Ave NW

p187



Appendix C
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Survey Results Map
McKenzie and Williams Counties, ND

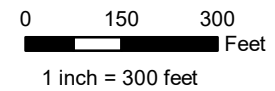
- Project Centerline
- Tree/Shrub Survey Corridor
- Clump Count
- Shrub
- Tree

Date: (11/17/2017) Source: Z:\Clients\NW_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcSols\Survey_Report\20171102_Tree_Shrub\Oneok_Some_StateLine_TreeShrub_Survey_Results.mxd








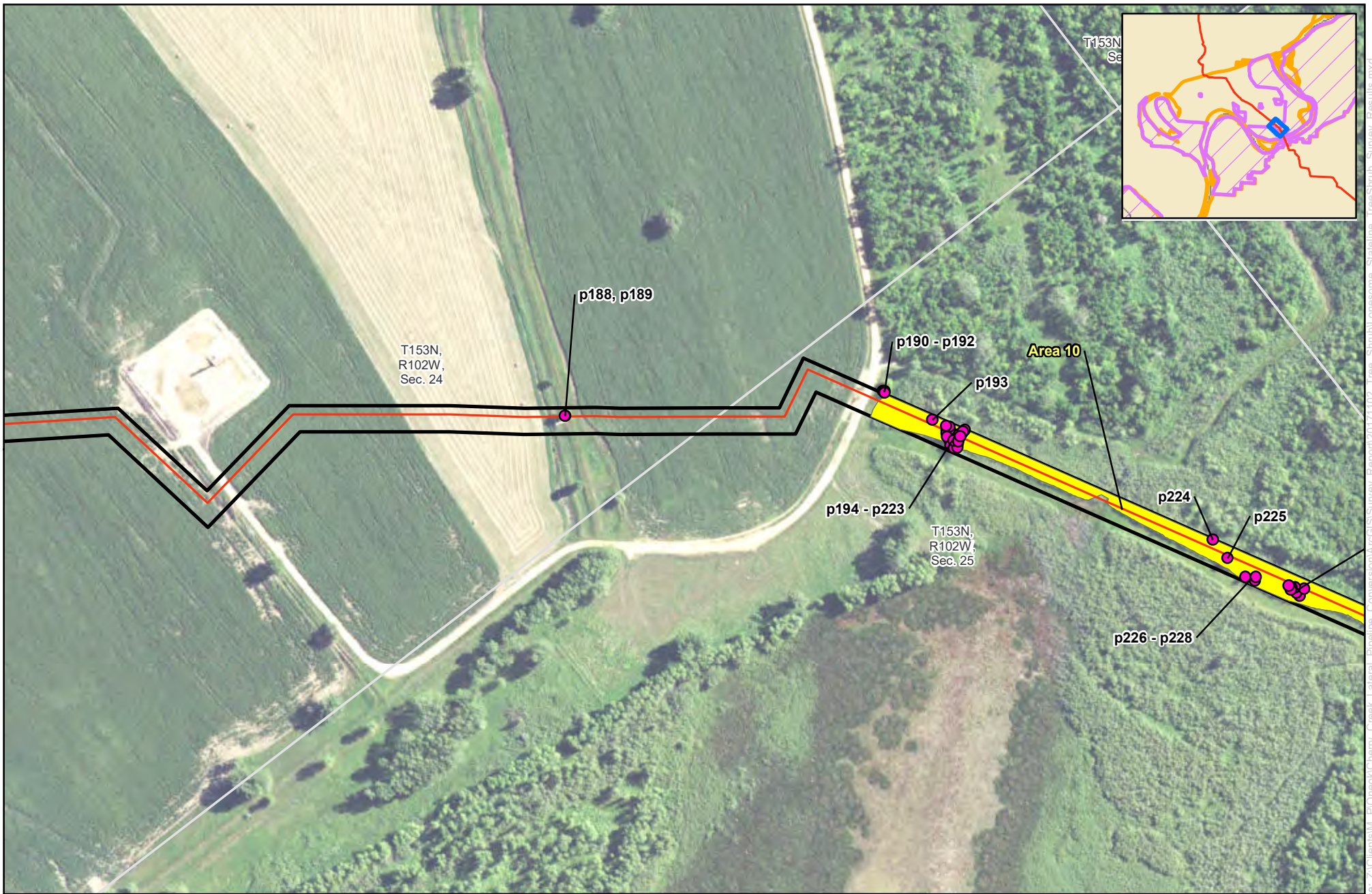
T153N,
R102W,
Sec. 24

W2nd Ave NW



Appendix C
ONEOK Rockies Midstream, L.L.C.
Tree / Shrub Inventory - Survey Results Map
McKenzie and Williams Counties, ND

-  Project Centerline
-  Tree/Shrub Survey Corridor
-  Clump Count
- Individual Count**
 -  Shrub
 -  Tree



0 150 300 Feet
1 inch = 300 feet

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For Environmental Review Purposes Only

Page 7 of 8

Appendix C

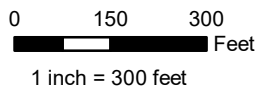
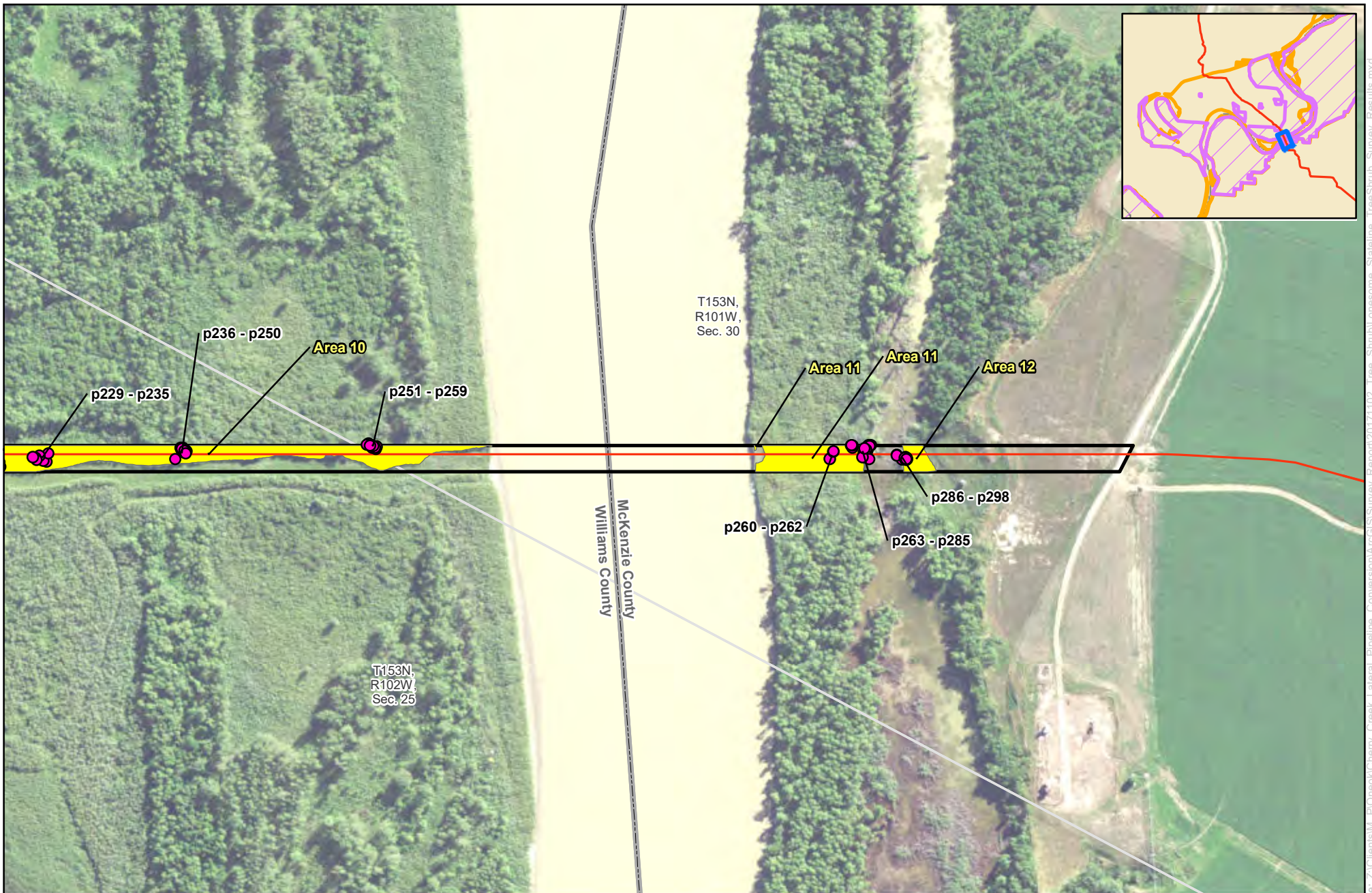
ONEOK Rockies Midstream, L.L.C.

Tree / Shrub Inventory - Survey Results Map

McKenzie and Williams Counties, ND

Project Centerline	Clump Count
Tree/Shrub Survey Corridor	Individual Count
	Shrub
	Tree

Date: (11/17/2017) Source: Z:\Clients\W_F\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171102_Tree_ShrubInventory_StateLine_TreeShrub_Survey_Results.mxd



Appendix C

ONEOK Rockies Midstream, L.L.C.

Tree / Shrub Inventory - Survey Results Map

McKenzie and Williams Counties, ND

- Project Centerline
- Tree/Shrub Survey Corridor
- Clump Count
- Individual Count**
- Shrub
- Tree

Appendix D
Tree/Shrub Inventory Features Table

ID	Species	Common Name	Growth Form	Native / Introduced	DBH (Inches)	Health	County	Count
Area 01	<i>Symphoricarpos albus</i>	Common Snowberry	Shrub	Native	< 1	Alive	Williams	250.36351
Area 02	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	2103.786049
Area 03	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	1145.613153
Area 04	<i>Symphoricarpos albus</i>	Common Snowberry	Shrub	Native	< 1	Alive	Williams	897.012426
Area 05	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	15648.31504
Area 06	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	3611.243068
Area 07	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	15035.24886
Area 08	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	2773.753019
Area 09	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	165.998132
Area 10	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	Williams	81275.86355
Area 11	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	McKenzie	14140.86943
Area 12	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	< 1	Alive	McKenzie	3560.521953
p001	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	14.5	Stressed	Williams	1
p002	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	15	Alive	Williams	1
p003	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	7	Stressed	Williams	1
p004	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Stressed	Williams	1
p005	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	7	Alive	Williams	1
p006	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	8	Stressed	Williams	1
p007	<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	0.25	Alive	Williams	1
p008	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	15	Alive	Williams	1
p009	<i>Crataegus chrysoarpa</i>	Fireberry Hawthorn	Shrub	Native	0.25	Alive	Williams	1
p010	<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	0.25	Alive	Williams	1
p011	<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	0.75	Alive	Williams	1
p012	<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	0.75	Alive	Williams	1
p013	<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	0.5	Alive	Williams	1
p014	<i>Elaeagnus angustifolia</i>	Russian Olive	Shrub	Introduced	0.5	Alive	Williams	1
p015	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	18.5	Alive	Williams	1
p016	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3	Alive	Williams	1
p017	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2	Alive	Williams	1
p018	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Alive	Williams	1
p019	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3	Alive	Williams	1
p020	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2	Alive	Williams	1
p021	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3	Stressed	Williams	1
p022	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	18	Alive	Williams	1
p023	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	20	Alive	Williams	1
p024	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3	Alive	Williams	1
p025	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2	Alive	Williams	1
p026	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Alive	Williams	1
p027	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Alive	Williams	1
p028	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Alive	Williams	1
p029	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	11	Alive	Williams	1
p030	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Alive	Williams	1
p031	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	10.5	Alive	Williams	1
p032	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	9	Stressed	Williams	1
p033	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	8	Stressed	Williams	1
p034	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Stressed	Williams	1
p035	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	8	Stressed	Williams	1
p036	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2	Stressed	Williams	1
p037	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2	Stressed	Williams	1
p038	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	13	Alive	Williams	1
p039	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3	Stressed	Williams	1
p040	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p041	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Stressed	Williams	1
p042	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3.25	Stressed	Williams	1
p043	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p044	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p045	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p046	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.25	Stressed	Williams	1
p047	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p048	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.5	Stressed	Williams	1
p049	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2.75	Stressed	Williams	1

ID	Species	Common Name	Growth Form	Native / Introduced	DBH (Inches)	Health	County	Count
p050	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5.25	Stressed	Williams	1
p051	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.25	Stressed	Williams	1
p052	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p053	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3	Stressed	Williams	1
p054	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p055	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3.5	Stressed	Williams	1
p056	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p057	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p058	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p059	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.75	Stressed	Williams	1
p060	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.5	Stressed	Williams	1
p061	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.25	Stressed	Williams	1
p062	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.5	Stressed	Williams	1
p063	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p064	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p065	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p066	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Stressed	Williams	1
p067	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2.5	Stressed	Williams	1
p068	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p069	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.25	Stressed	Williams	1
p070	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3.5	Stressed	Williams	1
p071	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Stressed	Williams	1
p072	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p073	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	3.75	Stressed	Williams	1
p074	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p075	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4.5	Stressed	Williams	1
p076	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	11	Alive	Williams	1
p077	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	12	Alive	Williams	1
p078	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Alive	Williams	1
p079	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Alive	Williams	1
p080	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	2	Alive	Williams	1
p081	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Alive	Williams	1
p082	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	10.5	Alive	Williams	1
p083	<i>Crataegus chrysoarpa</i>	Fireberry Hawthorn	Shrub	Native	0.75	Alive	Williams	1
p084	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Alive	Williams	1
p085	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Alive	Williams	1
p086	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Alive	Williams	1
p087	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Alive	Williams	1
p088	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Alive	Williams	1
p089	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	33	Alive	Williams	1
p090	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1
p091	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1
p092	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9	Alive	Williams	1
p093	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p094	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	18.5	Alive	Williams	1
p095	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	4	Stressed	Williams	1
p096	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	7	Stressed	Williams	1
p097	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	9.25	Alive	Williams	1
p098	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	9.5	Alive	Williams	1
p099	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	8	Stressed	Williams	1
p100	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10.75	Alive	Williams	1
p101	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	17	Alive	Williams	1
p102	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6.5	Alive	Williams	1
p103	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1
p104	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	11.75	Alive	Williams	1
p105	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10.75	Alive	Williams	1
p106	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	12.5	Alive	Williams	1
p107	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1
p108	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7	Alive	Williams	1
p109	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	5	Alive	Williams	1
p110	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1

ID	Species	Common Name	Growth Form	Native / Introduced	DBH (Inches)	Health	County	Count
p111	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	1	Alive	Williams	1
p112	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10.5	Alive	Williams	1
p113	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	12.75	Alive	Williams	1
p114	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5	Alive	Williams	1
p115	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5.5	Alive	Williams	1
p116	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5.5	Alive	Williams	1
p117	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	15	Alive	Williams	1
p118	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10	Alive	Williams	1
p119	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	4.5	Stressed	Williams	1
p120	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9.5	Alive	Williams	1
p121	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6	Alive	Williams	1
p122	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5.5	Alive	Williams	1
p123	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7	Alive	Williams	1
p124	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	2.5	Alive	Williams	1
p125	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5	Alive	Williams	1
p126	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	10	Alive	Williams	1
p127	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	22	Alive	Williams	1
p128	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	19.5	Alive	Williams	1
p129	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	5	Alive	Williams	1
p130	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	6	Alive	Williams	1
p131	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	16	Alive	Williams	1
p132	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	18	Alive	Williams	1
p133	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	18	Alive	Williams	1
p134	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	18	Alive	Williams	1
p135	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8.5	Alive	Williams	1
p136	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	14.75	Alive	Williams	1
p137	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p138	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6	Alive	Williams	1
p139	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7	Alive	Williams	1
p140	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	9.25	Alive	Williams	1
p141	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	15.5	Alive	Williams	1
p142	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10	Alive	Williams	1
p143	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	15.5	Alive	Williams	1
p144	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p145	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.5	Alive	Williams	1
p146	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	14.25	Alive	Williams	1
p147	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	2.75	Alive	Williams	1
p148	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	11.5	Alive	Williams	1
p149	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	16	Alive	Williams	1
p150	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	15.75	Alive	Williams	1
p151	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	12	Alive	Williams	1
p152	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.75	Alive	Williams	1
p153	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8.5	Alive	Williams	1
p154	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p155	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10.25	Alive	Williams	1
p156	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.75	Alive	Williams	1
p157	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6	Alive	Williams	1
p158	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.25	Alive	Williams	1
p159	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.75	Alive	Williams	1
p160	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	13.75	Alive	Williams	1
p161	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	10	Alive	Williams	1
p162	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6	Alive	Williams	1
p163	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5.5	Alive	Williams	1
p164	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5	Alive	Williams	1
p165	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6.75	Alive	Williams	1
p166	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.75	Alive	Williams	1
p167	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8	Alive	Williams	1
p168	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5.5	Alive	Williams	1
p169	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3.75	Alive	Williams	1
p170	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7	Alive	Williams	1
p171	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6.75	Alive	Williams	1

ID	Species	Common Name	Growth Form	Native / Introduced	DBH (Inches)	Health	County	Count
p172	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	12	Alive	Williams	1
p173	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4.5	Alive	Williams	1
p174	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	9.5	Alive	Williams	1
p175	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3.75	Alive	Williams	1
p176	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p177	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	2	Alive	Williams	1
p178	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5.75	Alive	Williams	1
p179	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8	Alive	Williams	1
p180	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	12	Alive	Williams	1
p181	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8	Alive	Williams	1
p182	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6	Alive	Williams	1
p183	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	12	Alive	Williams	1
p184	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	30.5	Alive	Williams	1
p185	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	31.5	Alive	Williams	1
p186	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	9	Alive	Williams	1
p187	<i>Salix interior</i>	Sandbar Willow	Shrub	Native	0.5	Alive	Williams	1
p188	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	9.25	Alive	Williams	1
p189	<i>Fraxinus pennsylvanica</i>	Green Ash	Tree	Native	10	Alive	Williams	1
p190	<i>Acer negundo</i>	Boxelder	Tree	Native	6	Alive	Williams	1
p191	<i>Acer negundo</i>	Boxelder	Tree	Native	4.5	Alive	Williams	1
p192	<i>Acer negundo</i>	Boxelder	Tree	Native	6.5	Alive	Williams	1
p193	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p194	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.5	Alive	Williams	1
p195	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.25	Alive	Williams	1
p196	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	Williams	1
p197	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	Williams	1
p198	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.75	Alive	Williams	1
p199	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.75	Alive	Williams	1
p200	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p201	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	Williams	1
p202	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p203	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.5	Alive	Williams	1
p204	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p205	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p206	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p207	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.75	Alive	Williams	1
p208	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1
p209	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p210	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.25	Alive	Williams	1
p211	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.5	Alive	Williams	1
p212	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.5	Alive	Williams	1
p213	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	Williams	1
p214	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.75	Alive	Williams	1
p215	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.25	Alive	Williams	1
p216	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.5	Alive	Williams	1
p217	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.75	Alive	Williams	1
p218	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.75	Alive	Williams	1
p219	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p220	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p221	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	Williams	1
p222	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p223	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.25	Alive	Williams	1
p224	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	11	Alive	Williams	1
p225	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	11	Alive	Williams	1
p226	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	Williams	1
p227	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3.5	Alive	Williams	1
p228	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	5	Alive	Williams	1
p229	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	2.5	Alive	Williams	1
p230	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8.5	Alive	Williams	1
p231	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	8	Alive	Williams	1
p232	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1

ID	Species	Common Name	Growth Form	Native / Introduced	DBH (Inches)	Health	County	Count
p233	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p234	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	7.5	Alive	Williams	1
p235	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	6	Alive	Williams	1
p236	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9.5	Alive	Williams	1
p237	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	5.5	Alive	Williams	1
p238	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.25	Alive	Williams	1
p239	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.5	Alive	Williams	1
p240	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.5	Alive	Williams	1
p241	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.5	Alive	Williams	1
p242	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p243	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.75	Alive	Williams	1
p244	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p245	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p246	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p247	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	Williams	1
p248	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.75	Alive	Williams	1
p249	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.25	Alive	Williams	1
p250	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.2	Alive	Williams	1
p251	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3	Alive	Williams	1
p252	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3.75	Alive	Williams	1
p253	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p254	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p255	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3	Alive	Williams	1
p256	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3.5	Alive	Williams	1
p257	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	3.75	Alive	Williams	1
p258	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	2	Alive	Williams	1
p259	<i>Populus deltoides</i>	Eastern Cottonwood	Tree	Native	4	Alive	Williams	1
p260	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9.5	Alive	McKenzie	1
p261	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9	Alive	McKenzie	1
p262	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9	Alive	McKenzie	1
p263	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	4	Alive	McKenzie	1
p264	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	11	Alive	McKenzie	1
p265	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	10	Alive	McKenzie	1
p266	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p267	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9	Alive	McKenzie	1
p268	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p269	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7.5	Alive	McKenzie	1
p270	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	12	Alive	McKenzie	1
p271	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p272	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	12	Alive	McKenzie	1
p273	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6.5	Alive	McKenzie	1
p274	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p275	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p276	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	McKenzie	1
p277	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	8	Alive	McKenzie	1
p278	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	12	Alive	McKenzie	1
p279	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	11	Alive	McKenzie	1
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p282	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p283	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	7	Alive	McKenzie	1
p284	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	5	Alive	McKenzie	1
p285	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	2	Alive	McKenzie	1
p286	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	5	Alive	McKenzie	1
p287	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	10.5	Alive	McKenzie	1
p288	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	2	Alive	McKenzie	1
p289	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	4.5	Alive	McKenzie	1
p290	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	2	Alive	McKenzie	1
p291	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	9.5	Alive	McKenzie	1
p292	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	5	Alive	McKenzie	1
p293	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	4	Alive	McKenzie	1

ID	Species	Common Name	Growth Form	Native / Introduced	DBH (Inches)	Health	County	Count
p294	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	6	Alive	McKenzie	1
p295	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	1	Alive	McKenzie	1
p296	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	2	Alive	McKenzie	1
p297	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	4	Alive	McKenzie	1
p298	<i>Salix fragilis</i>	Crack Willow	Tree	Introduced	10	Alive	McKenzie	1

Appendix E
Representative Photos



Southeast of 142nd Ave NW - View Southeast



Missouri River Valley - View Northwest



Area10 - *Salix interior* - View Southeast



P011 - *Elaeagnus angustifolia* - View West

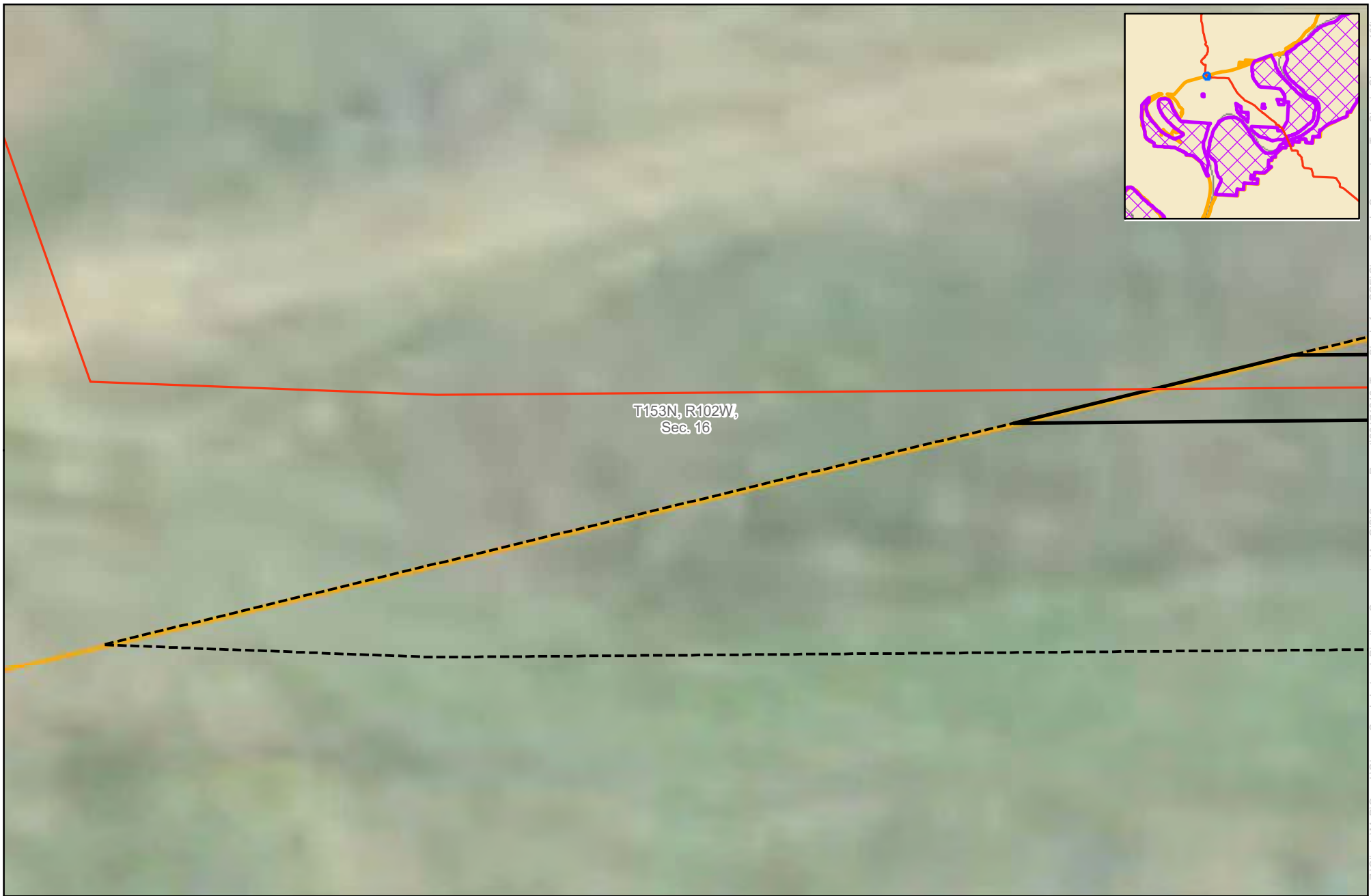


P022 - *Salix fragilis* - View East

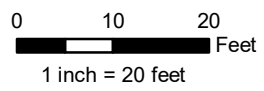


P089 - *Populus deltoides* - View West

Exhibit D
Site Plan Maps

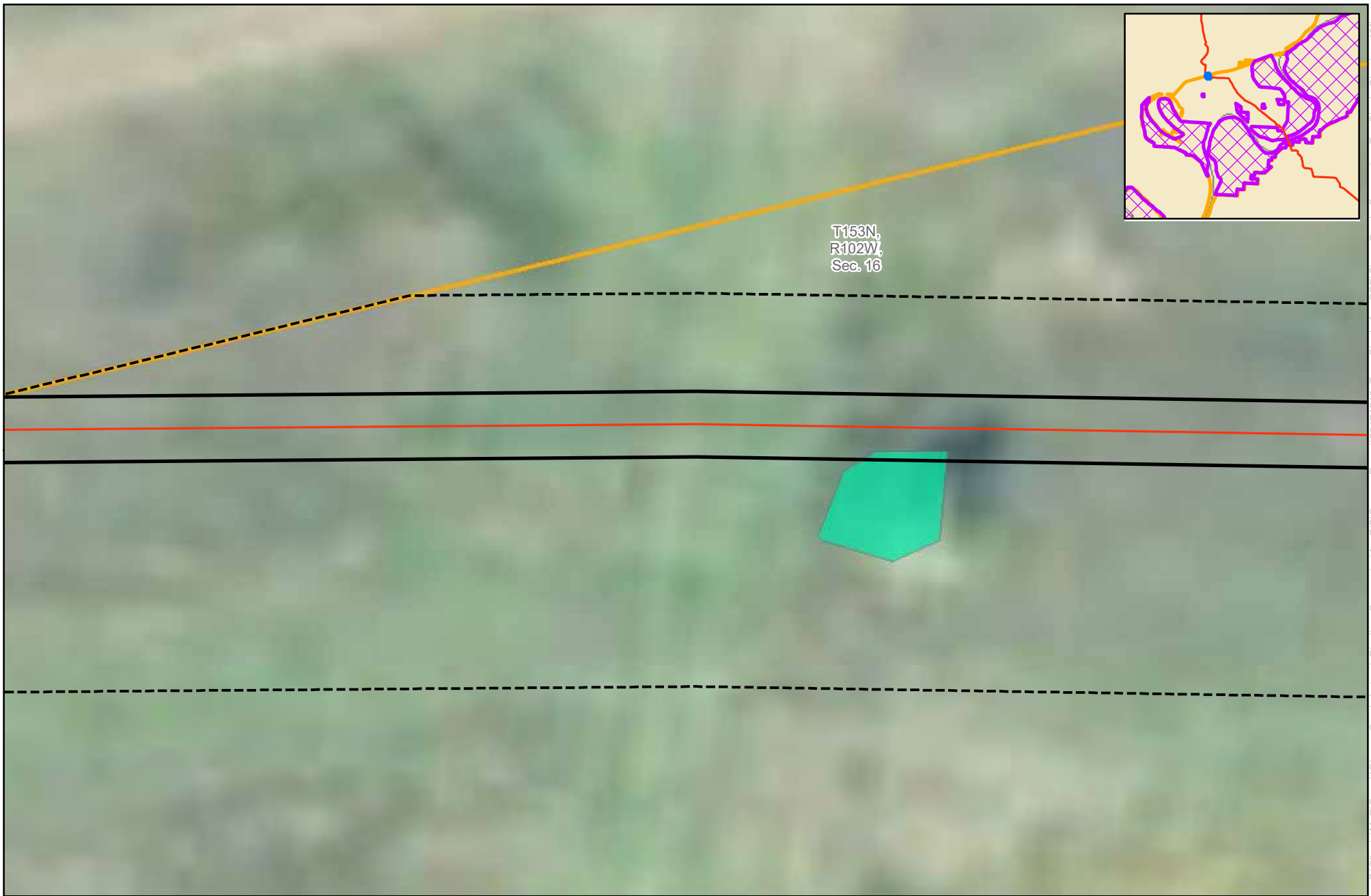


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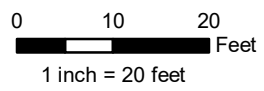


**ONEOK
12" Cherry Creek Lateral
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Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

- | | | |
|-----------------------|------------------------------------|-------------------------------|
| Project Centerline | Clump Count | <i>Elaeagnus angustifolia</i> |
| 60ft-Wide Easement | <i>Salix interior</i> | <i>Fraxinus pennsylvanica</i> |
| 10ft-Wide Corridor | <i>Symphoricarpos occidentalis</i> | <i>Populus deltoides</i> |
| Section Boundary | Individual Count | <i>Salix fragilis</i> |
| ND Game and Fish Land | <i>Acer negundo</i> | <i>Salix interior</i> |
| USACE Lands | <i>Crataegus chrysoarpa</i> | |

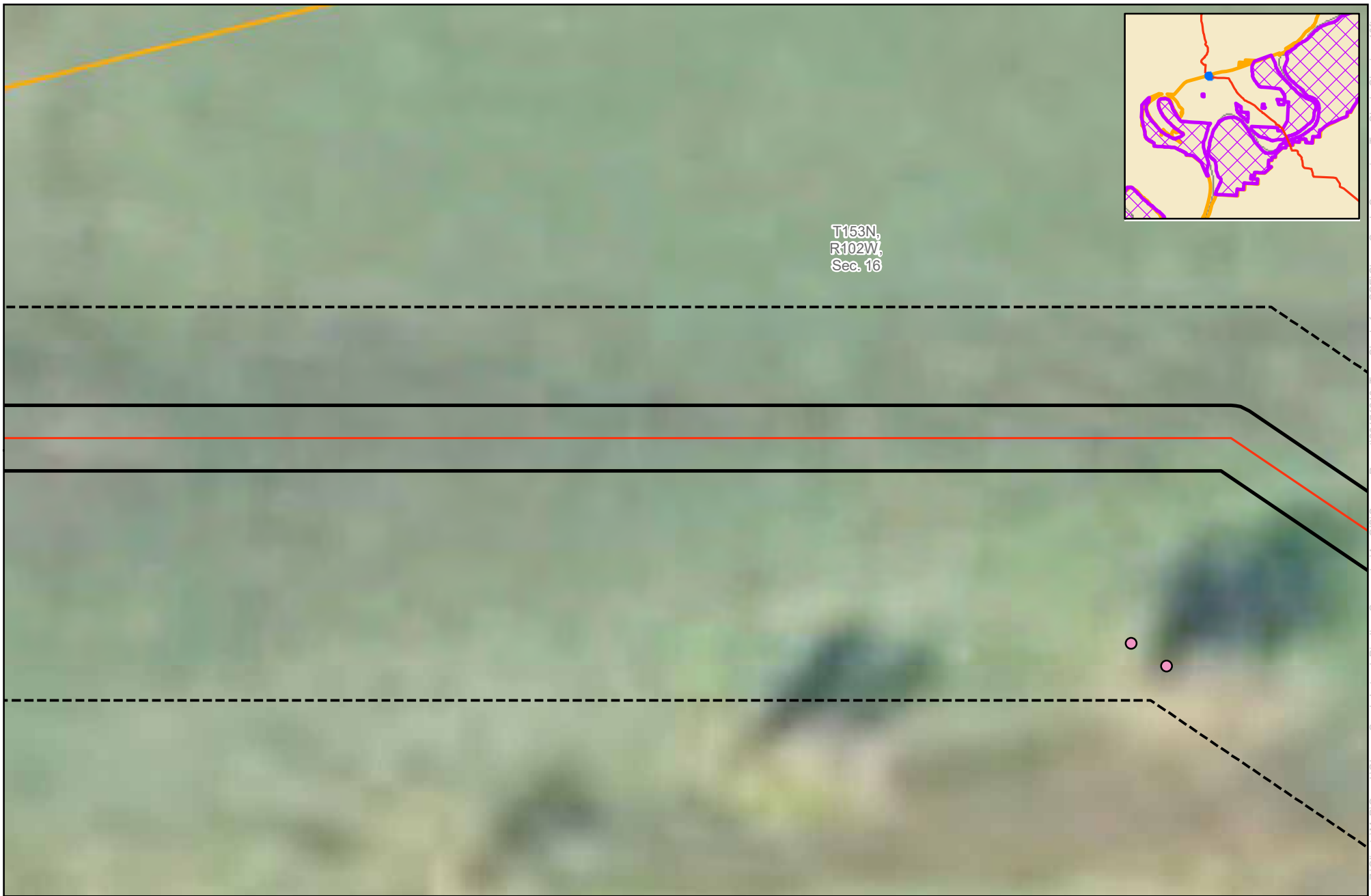


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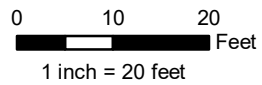


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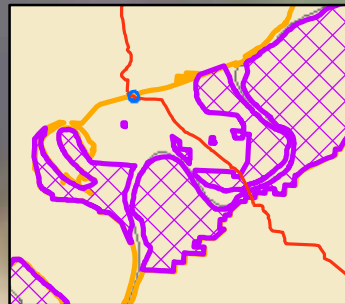
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- Individual Count**
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 -  Crataegus chrysoarpa

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-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior



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0 10 20 Feet
1 inch = 20 feet



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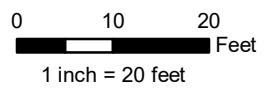
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- Populus deltoides
- Salix fragilis
- Salix interior



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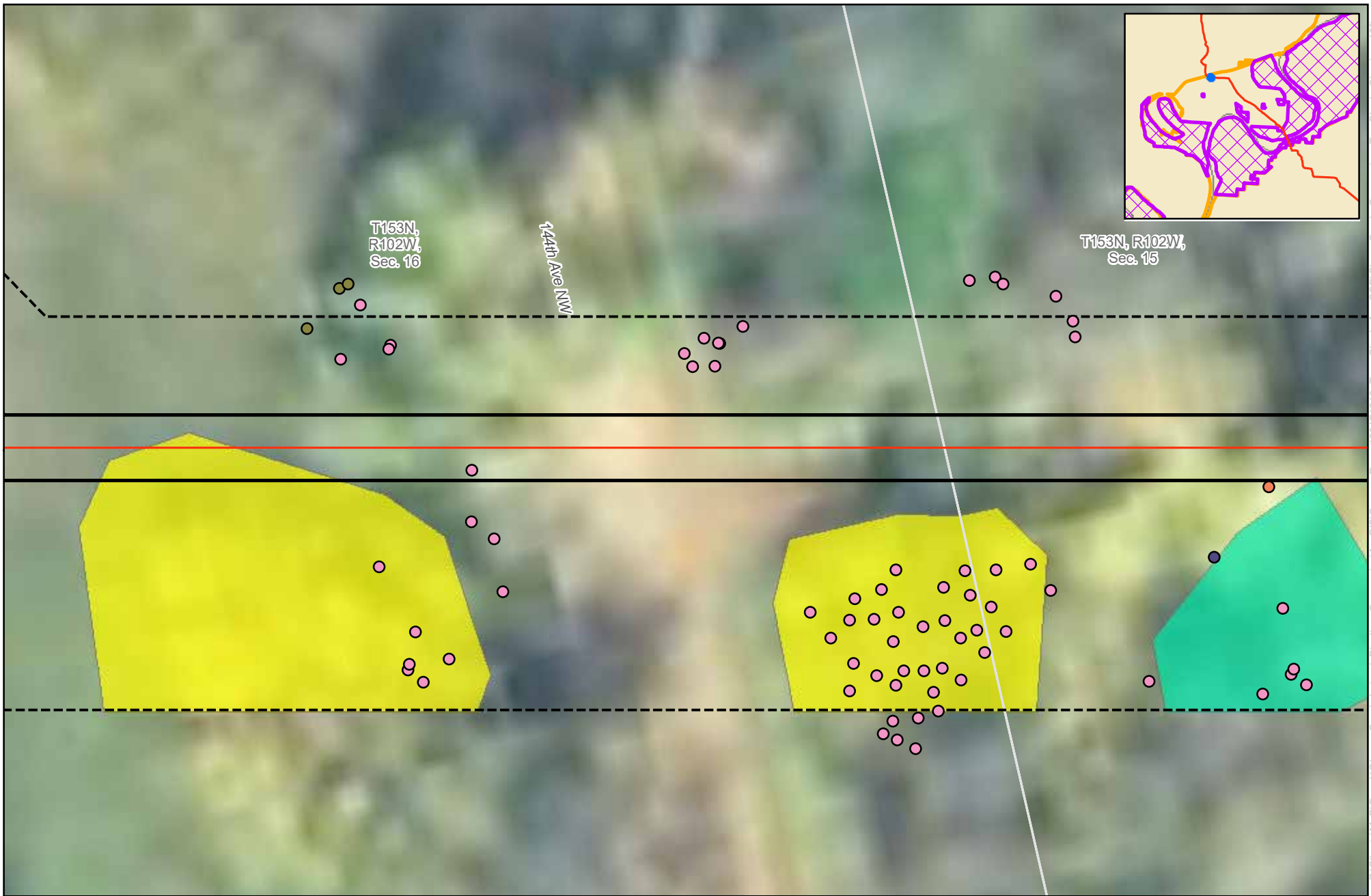


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- Populus deltoides
- Salix fragilis
- Salix interior



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Page 6 of 119

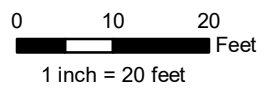
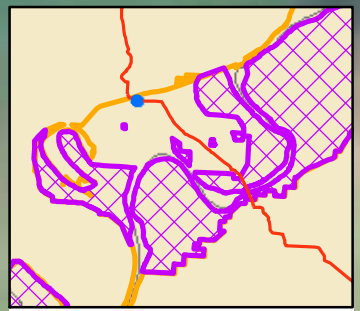
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12" Cherry Creek Lateral Pipeline Conversion
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Project Centerline	Clump Count	<i>Elaeagnus angustifolia</i>
60ft-Wide Easement	<i>Salix interior</i>	<i>Fraxinus pennsylvanica</i>
10ft-Wide Corridor	<i>Symphoricarpos occidentalis</i>	<i>Populus deltoides</i>
Section Boundary	Individual Count	<i>Salix fragilis</i>
ND Game and Fish Land	<i>Acer negundo</i>	<i>Salix interior</i>
USACE Lands	<i>Crataegus chrysoarpa</i>	







Date: (12/20/17) Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd












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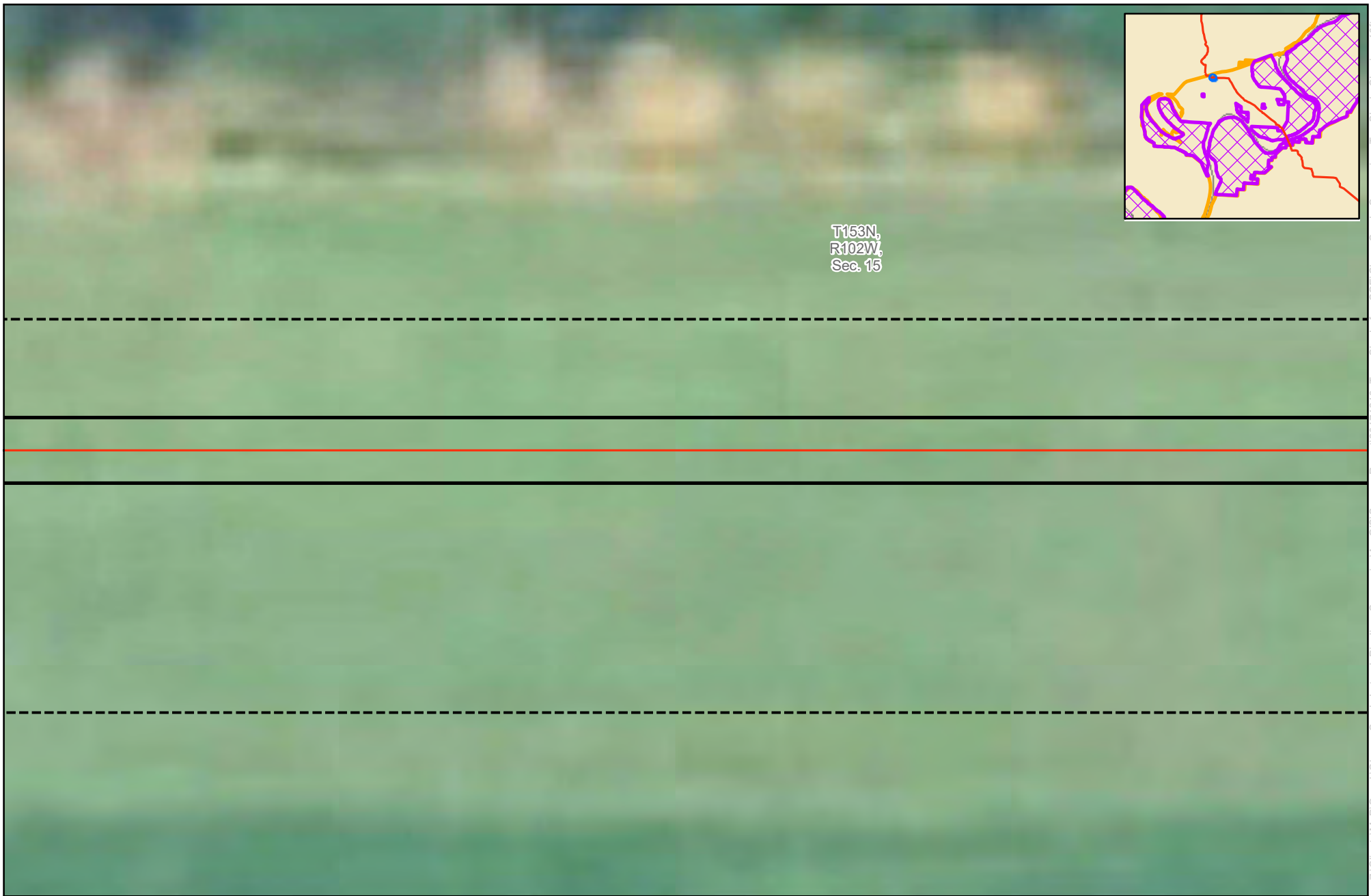


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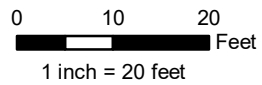
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-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior



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Sec. 15



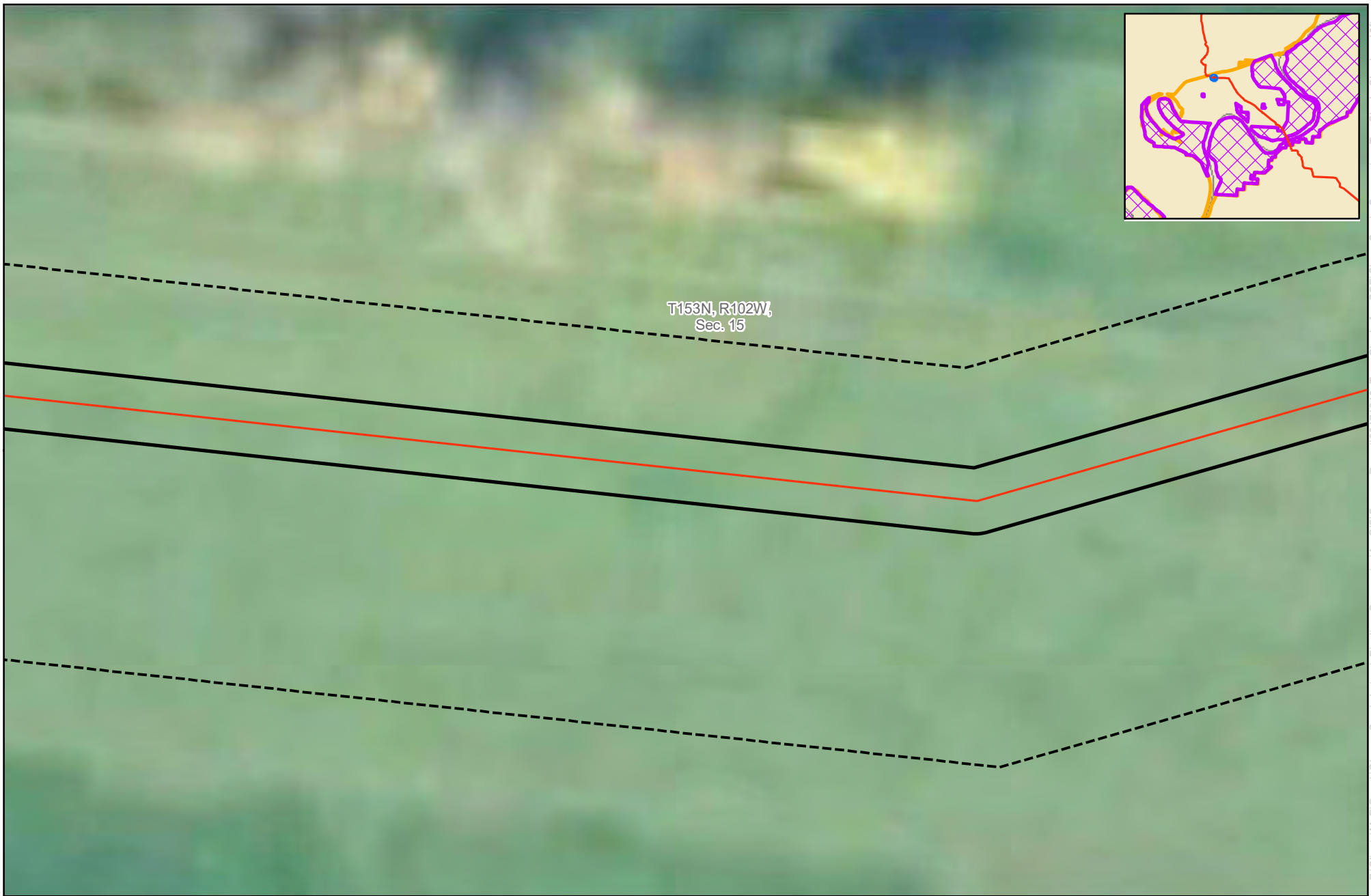
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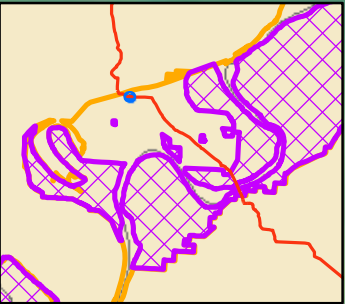
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- Salix fragilis
- Salix interior





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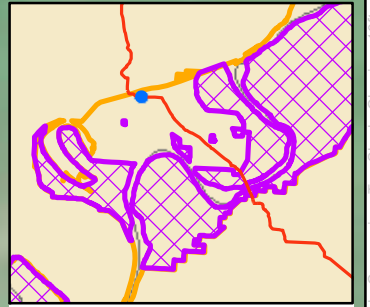
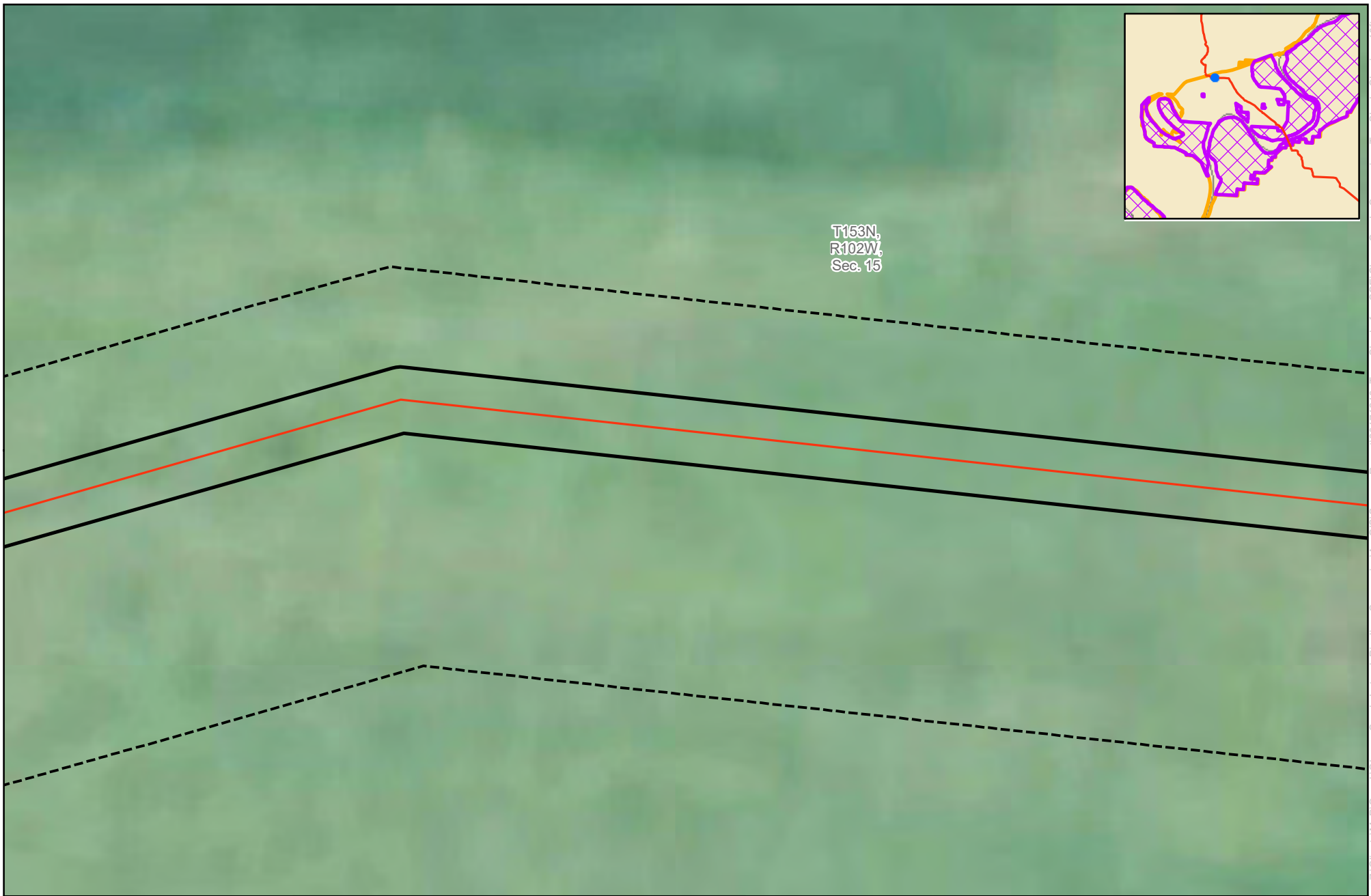
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Page 9 of 119

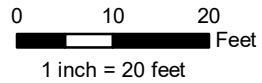
ONEOK
12" Cherry Creek Lateral Pipeline Conversion
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McKenzie and Williams Counties, ND

- | | | |
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| Project Centerline | Clump Count | <i>Elaeagnus angustifolia</i> |
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| 10ft-Wide Corridor | <i>Symphoricarpos occidentalis</i> | <i>Populus deltoides</i> |
| Section Boundary | Individual Count | <i>Salix fragilis</i> |
| ND Game and Fish Land | <i>Acer negundo</i> | <i>Salix interior</i> |
| USACE Lands | <i>Crataegus chrysoarpa</i> | |

Date: 12/28/2017 Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171218_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



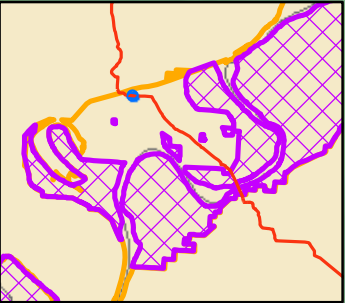
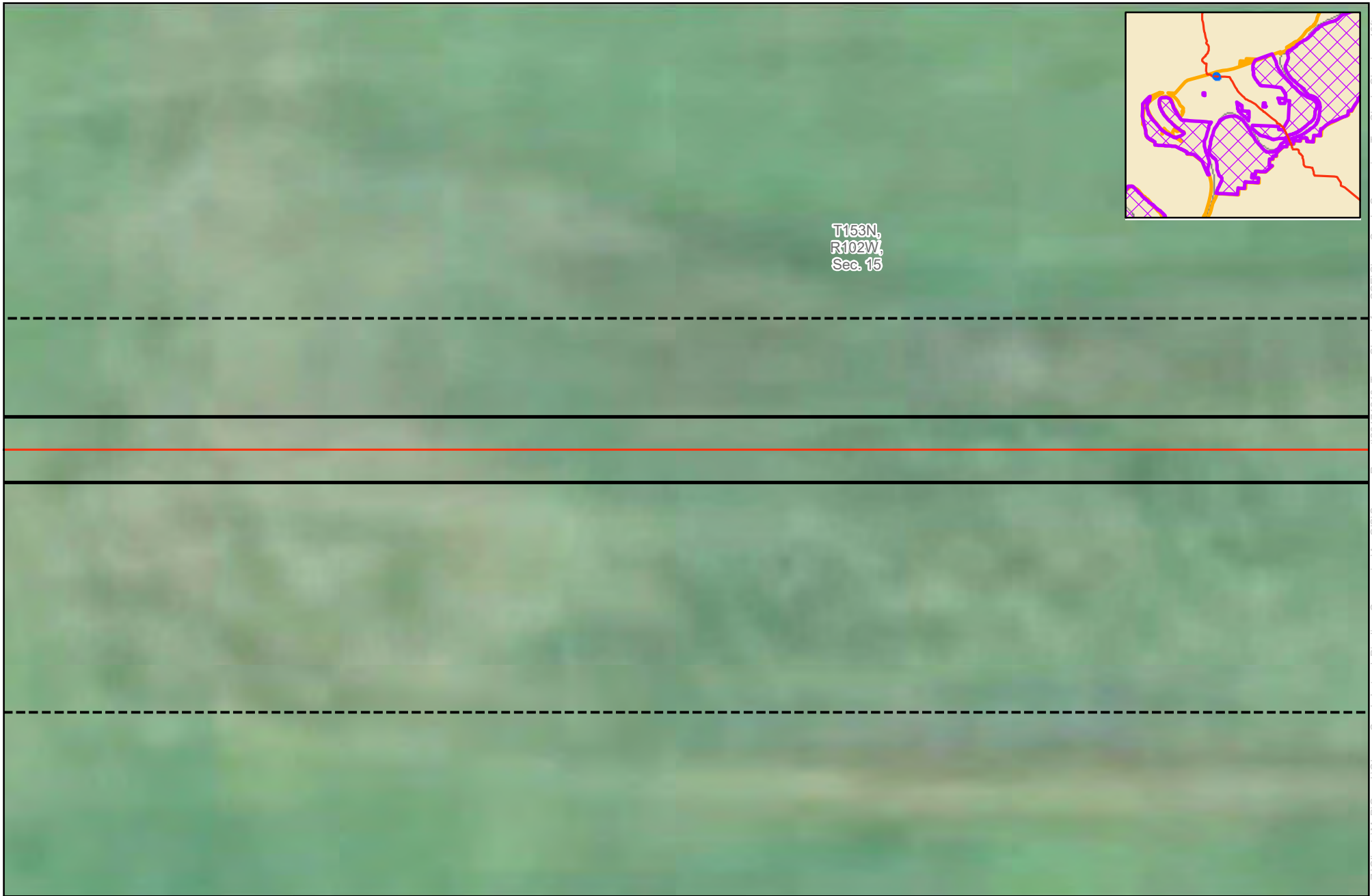
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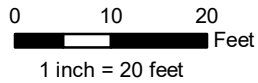
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Date: 12/28/2017 Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd












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Sec. 15



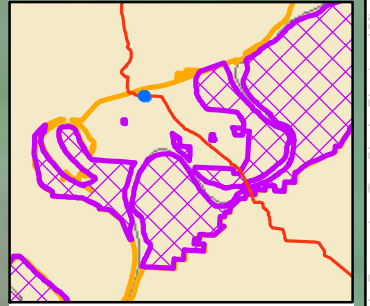
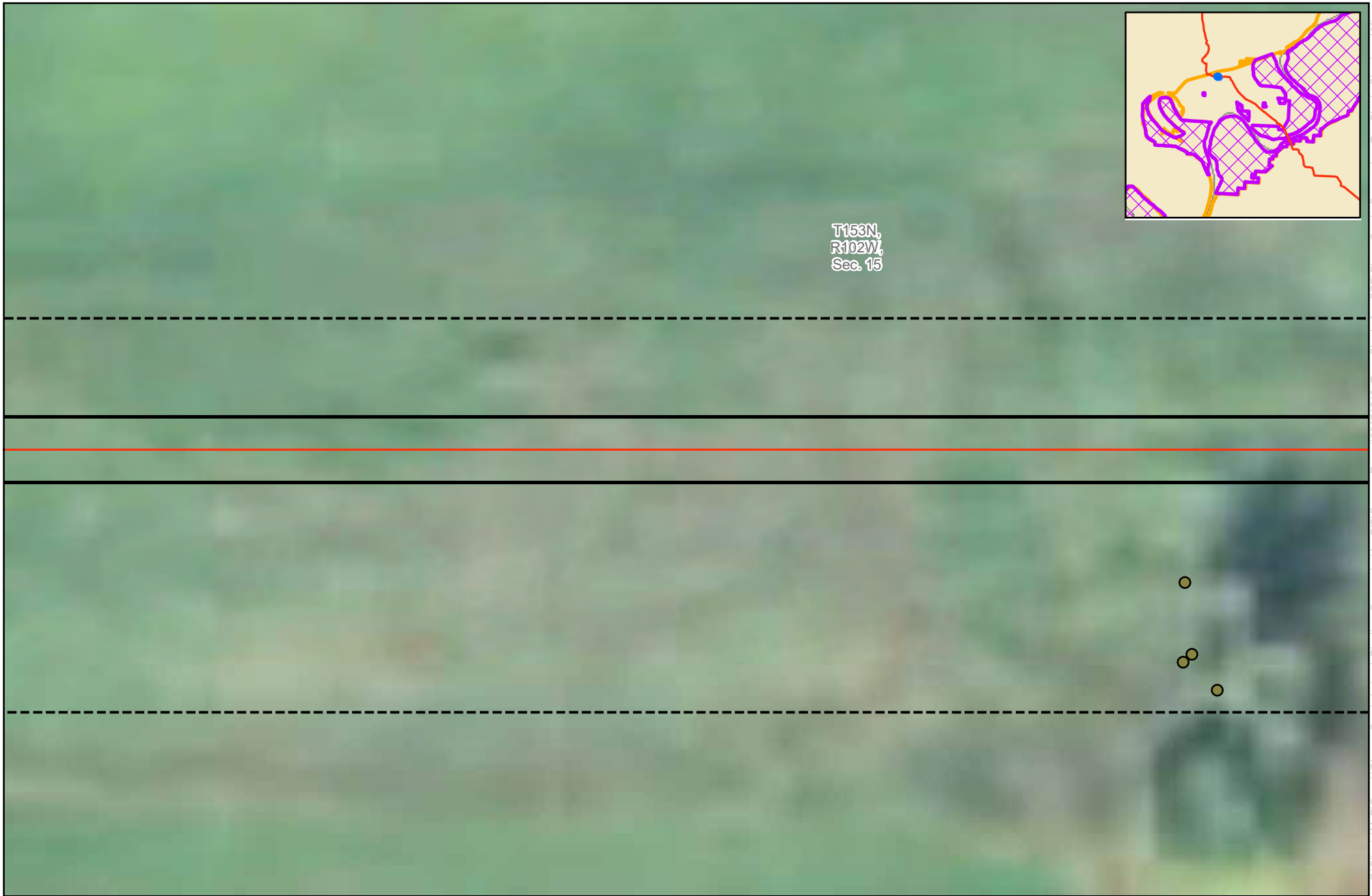
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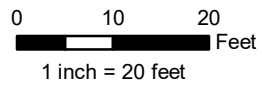
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Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/28/2017)



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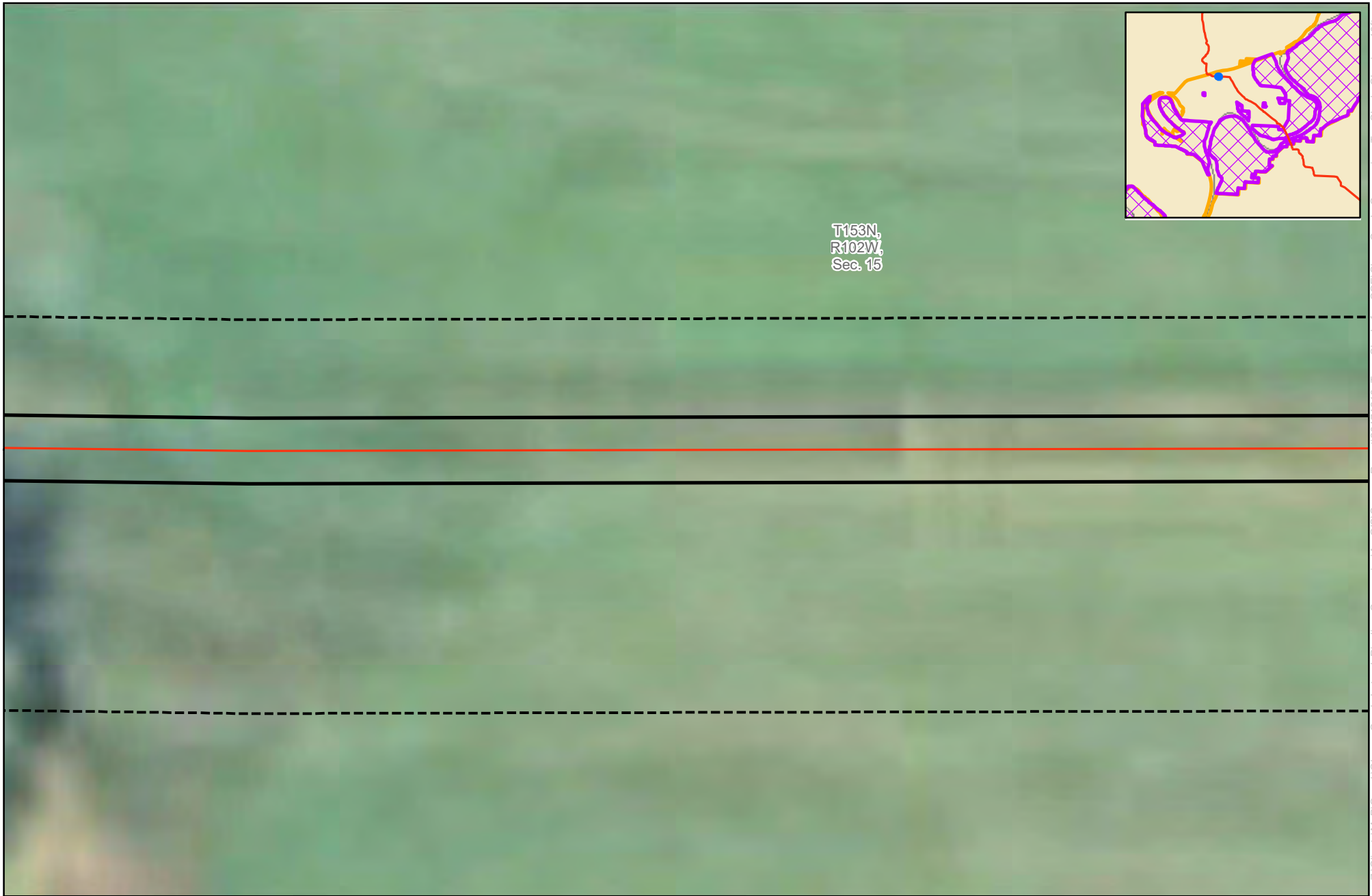


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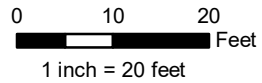
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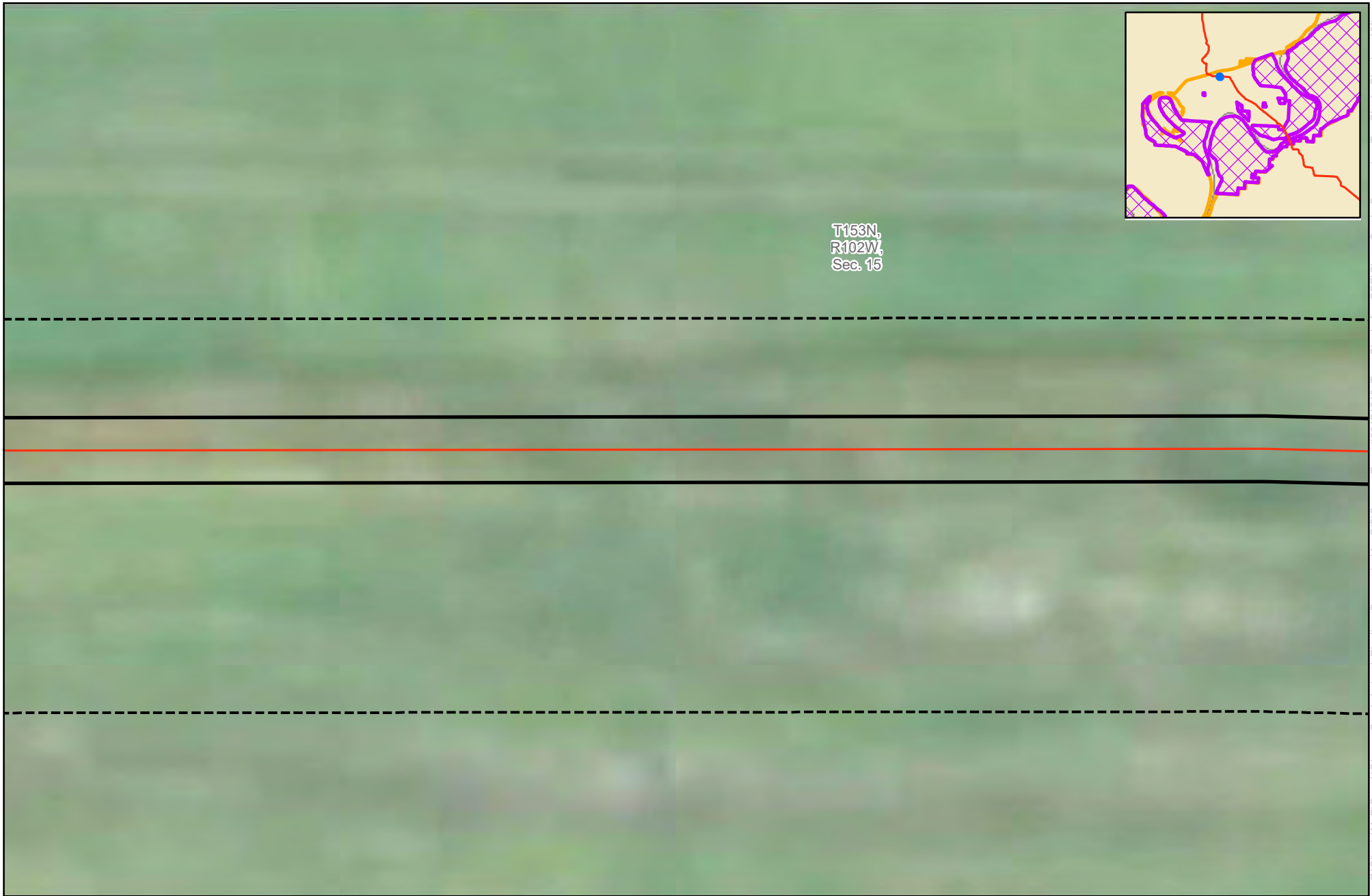
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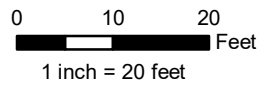
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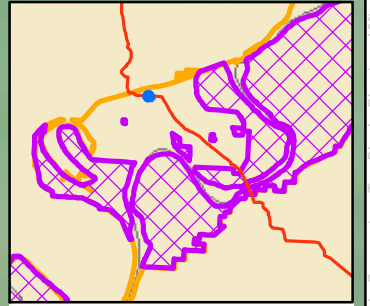
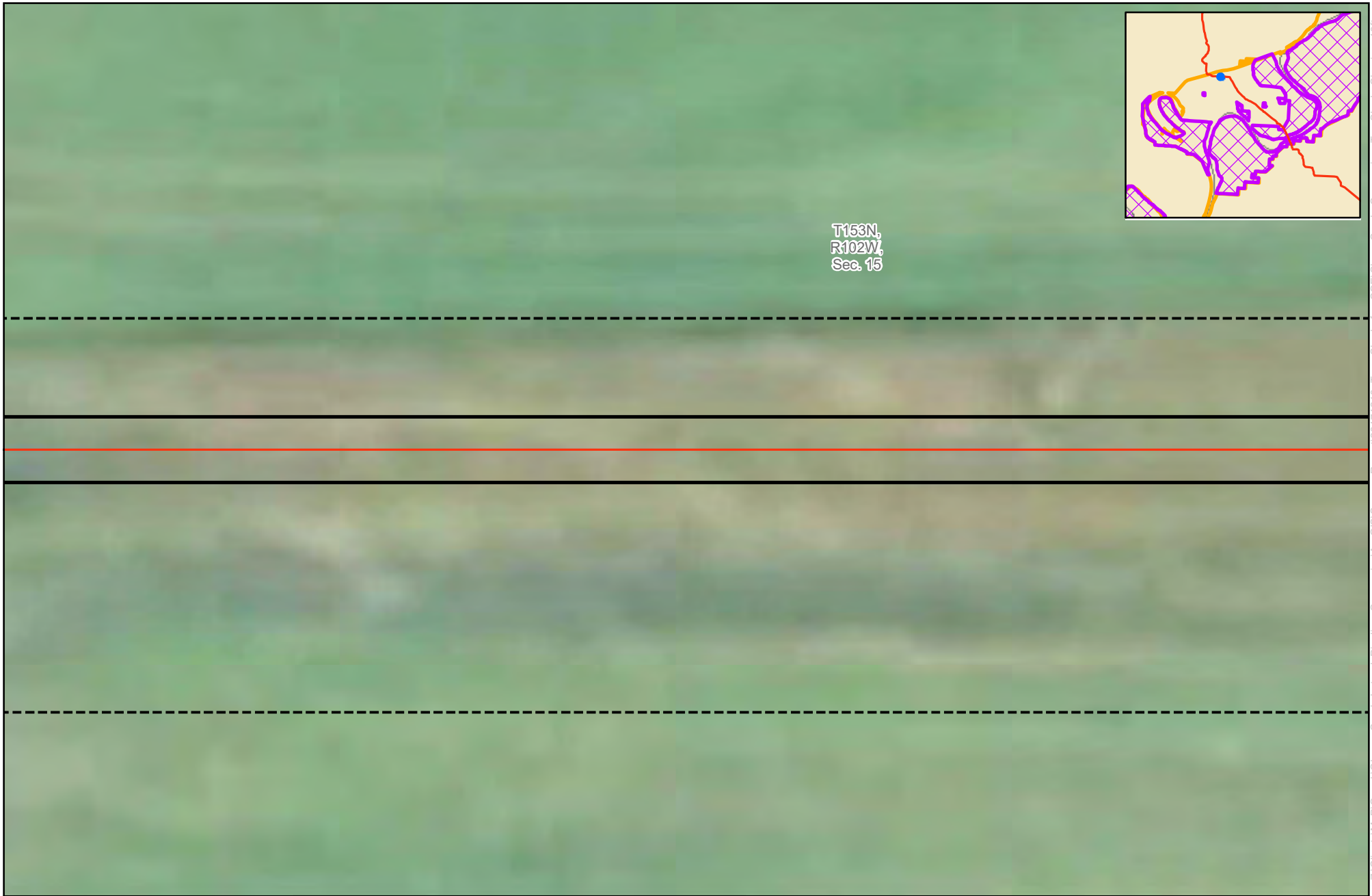
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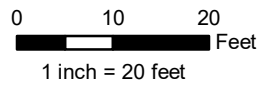
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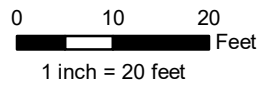
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-  Populus deltoides
-  Salix fragilis
-  Salix interior












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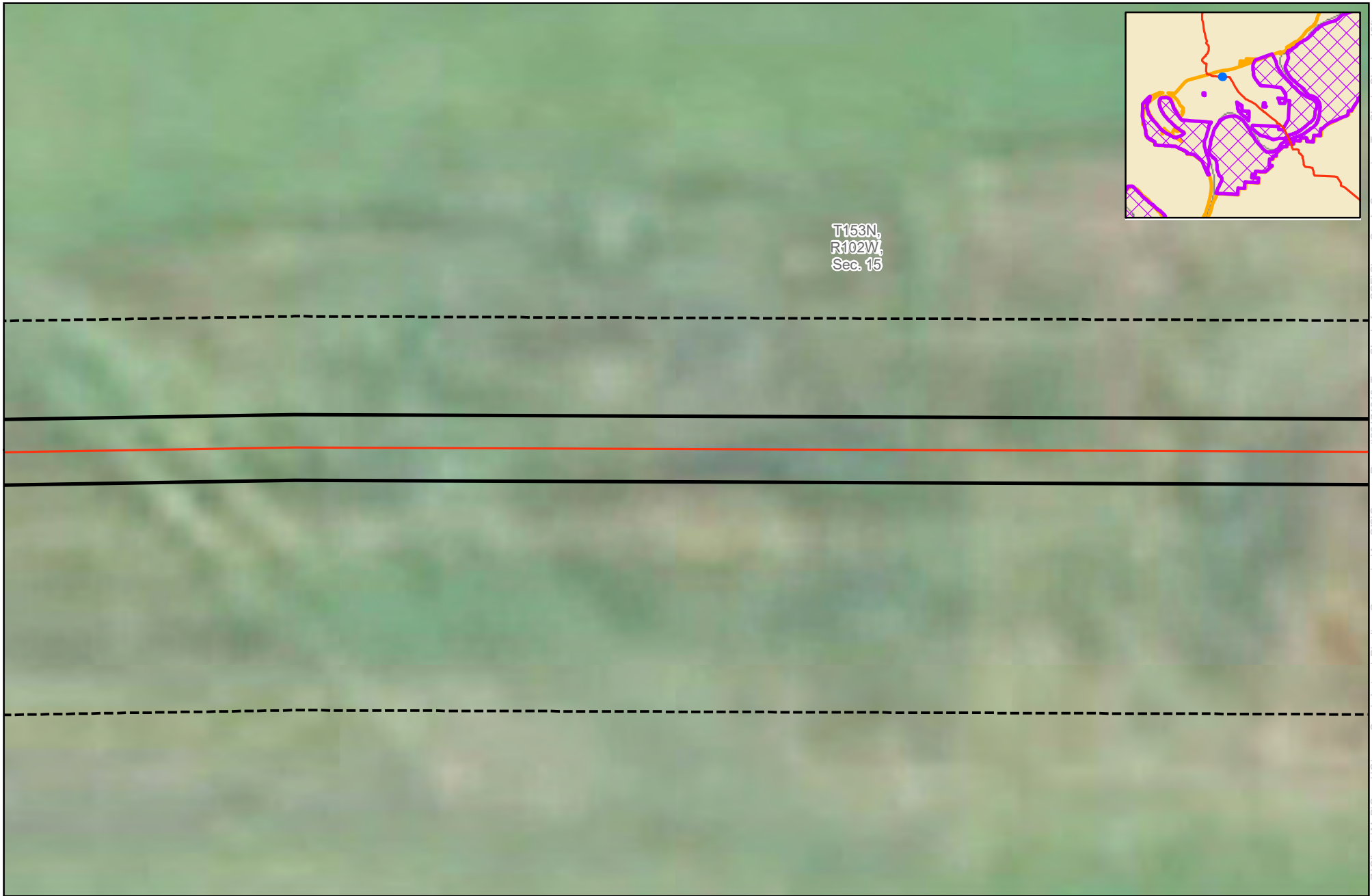
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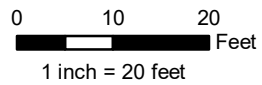
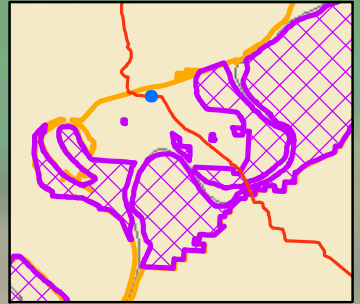
- Clump Count**
-  Salix interior
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-  Populus deltoides
-  Salix fragilis
-  Salix interior




















T153N,
R102W,
Sec. 15



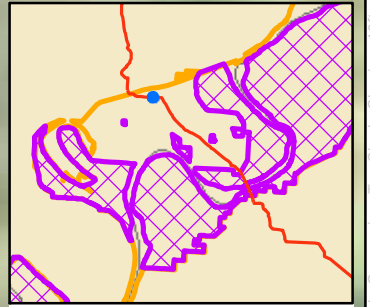
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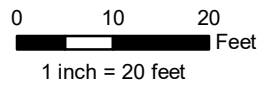
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R102W,
Sec. 15

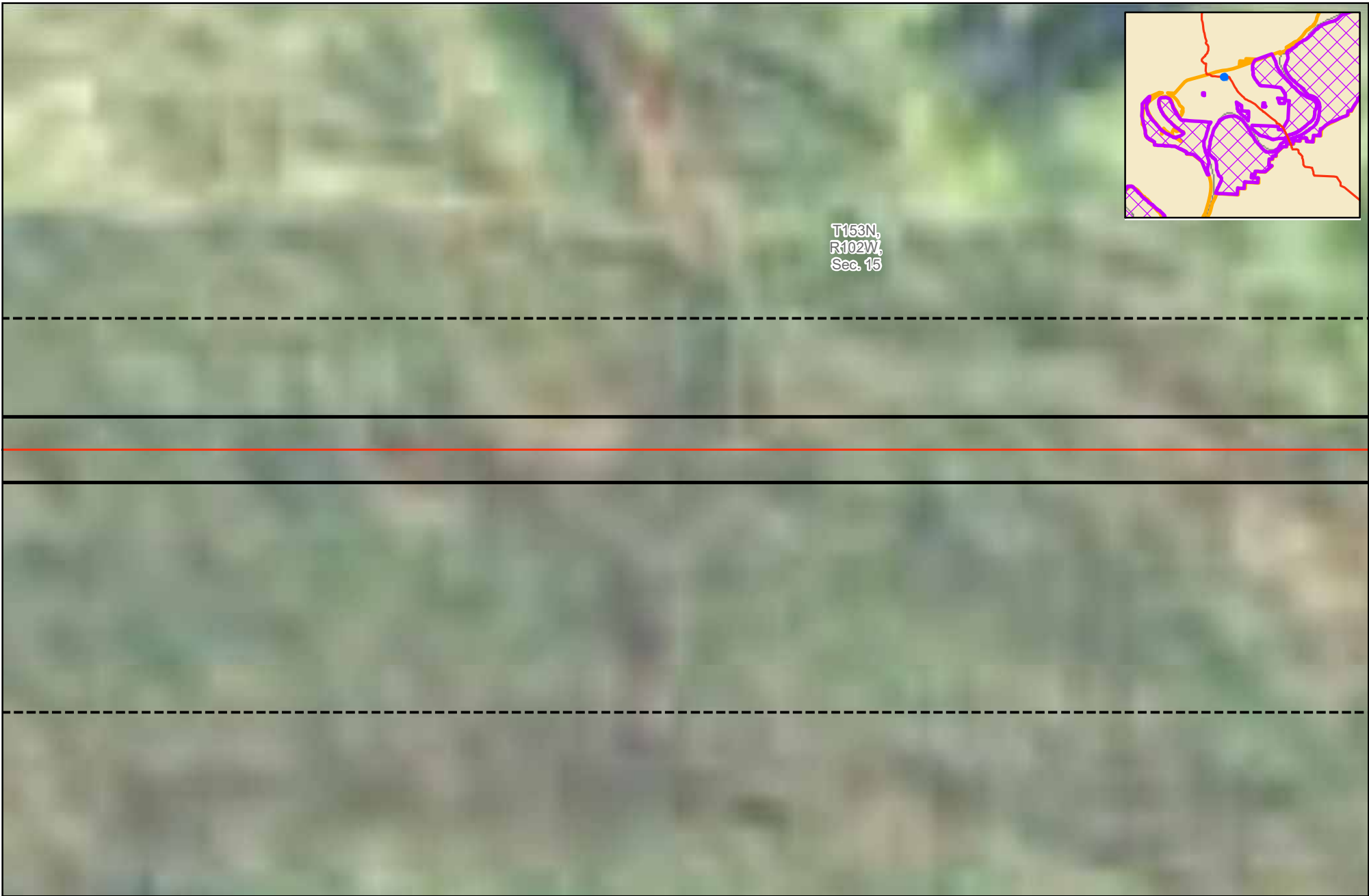


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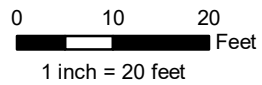
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R102W,
Sec. 15



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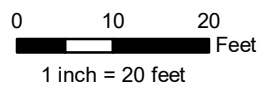
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T153N,
R102W,
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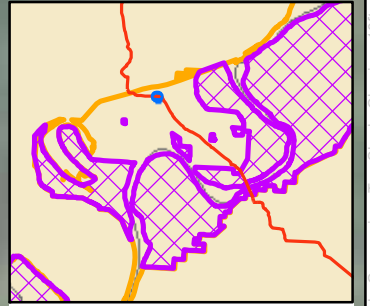
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T153N,
R102W,
Sec. 15

0 10 20 Feet
1 inch = 20 feet



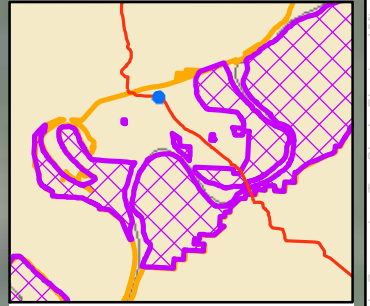
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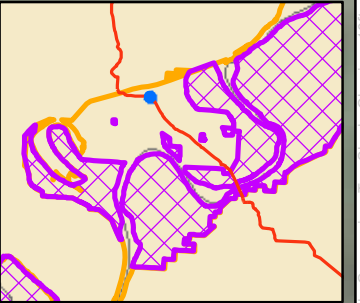
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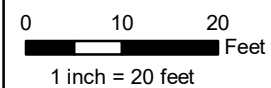
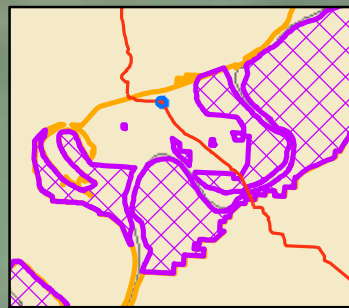
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T153N,
R102W,
Sec. 15

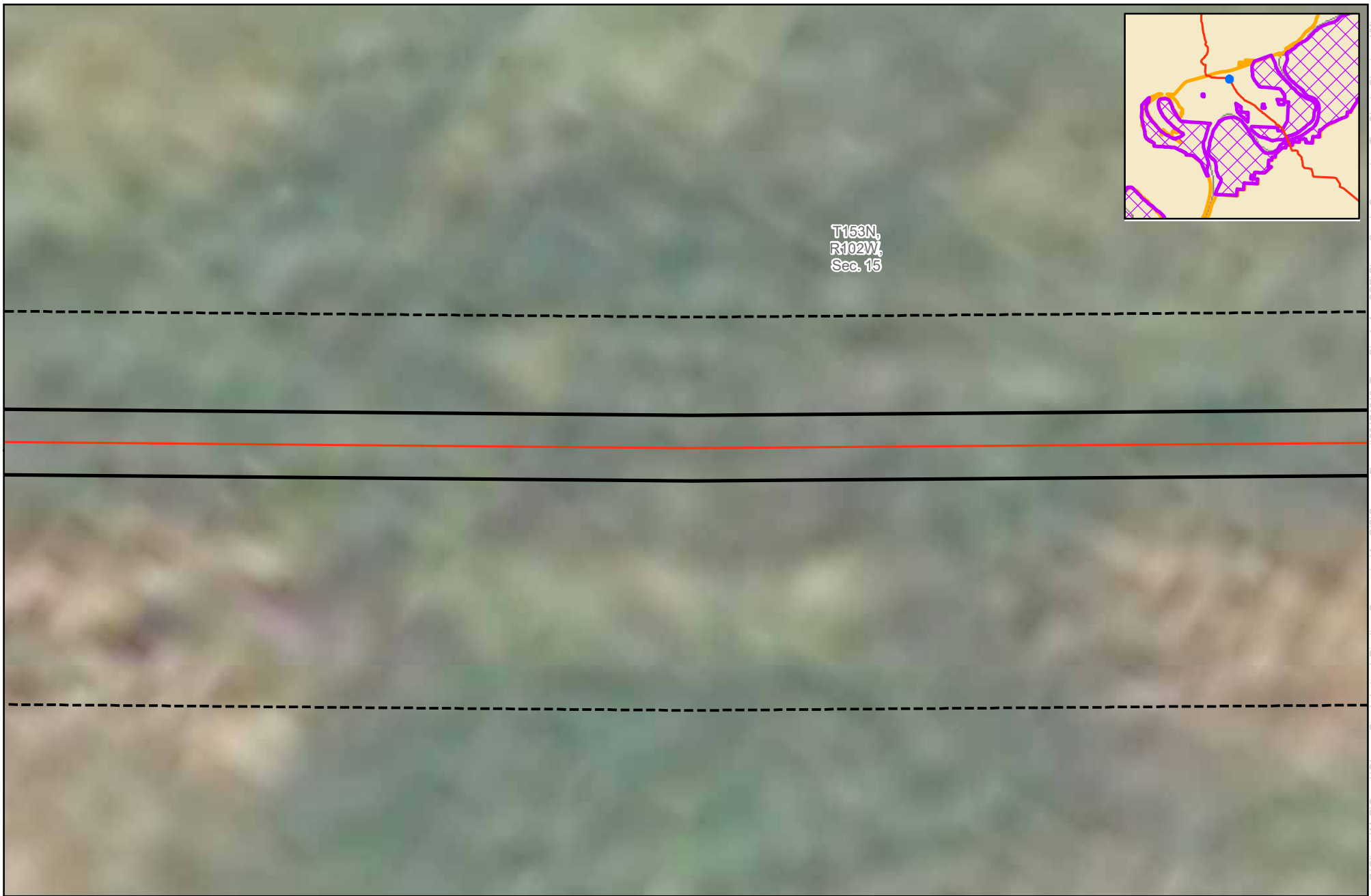


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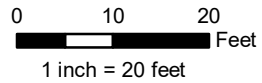
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T153N,
R102W,
Sec. 15



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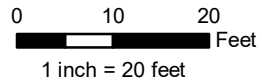
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T153N,
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Sec. 15



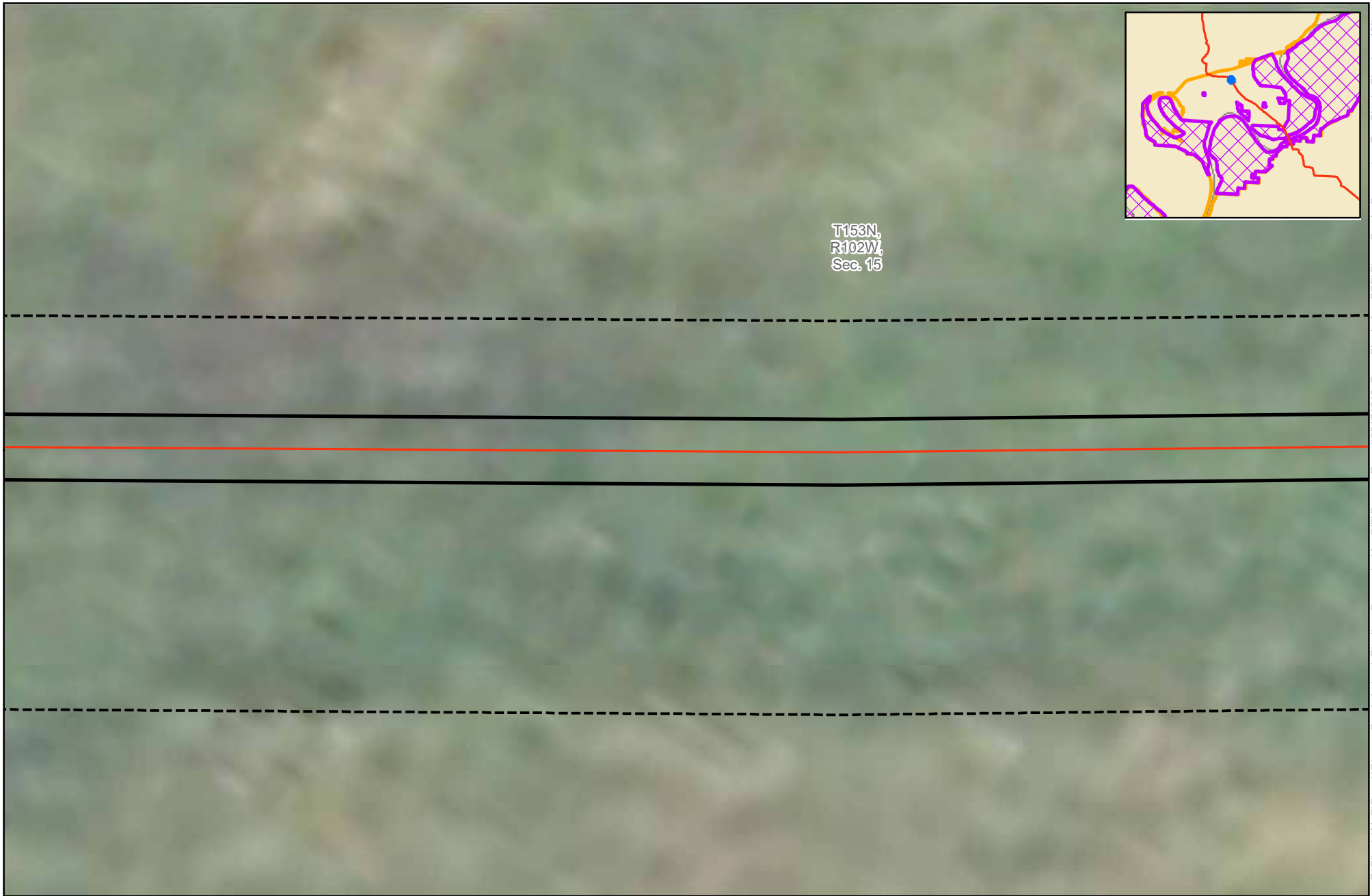
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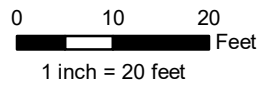
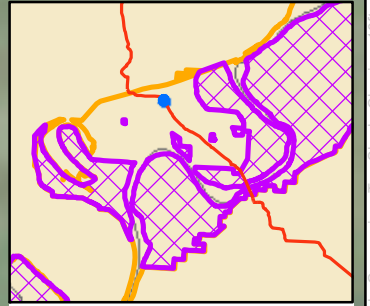
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T153N,
R102W,
Sec. 15



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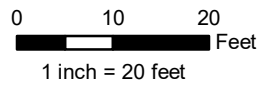
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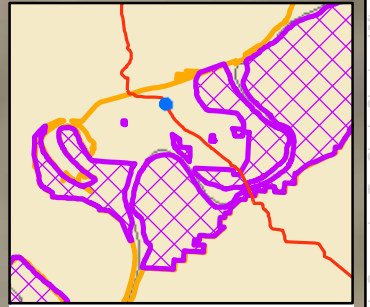
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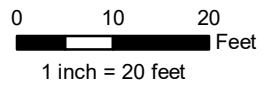
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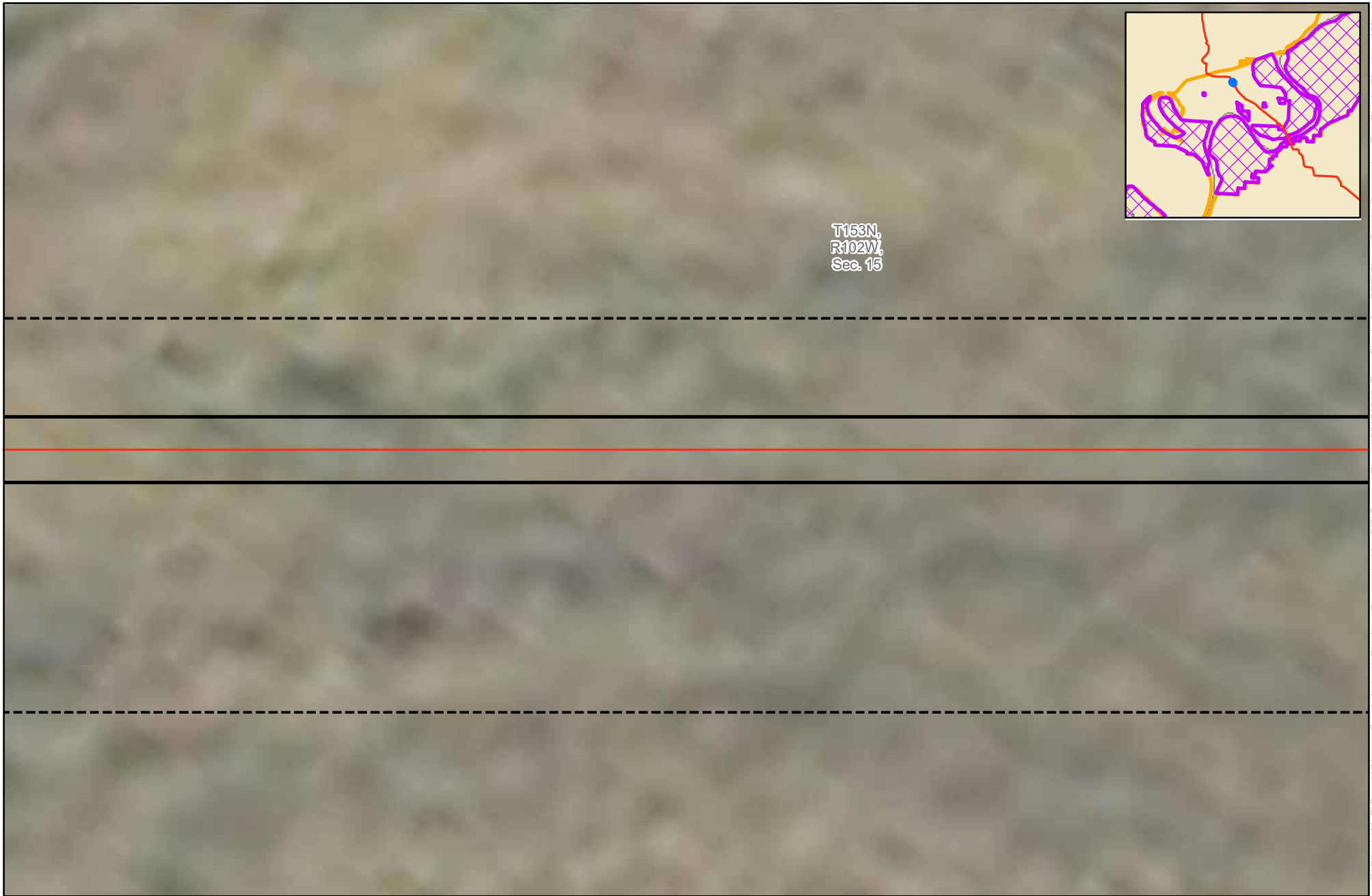


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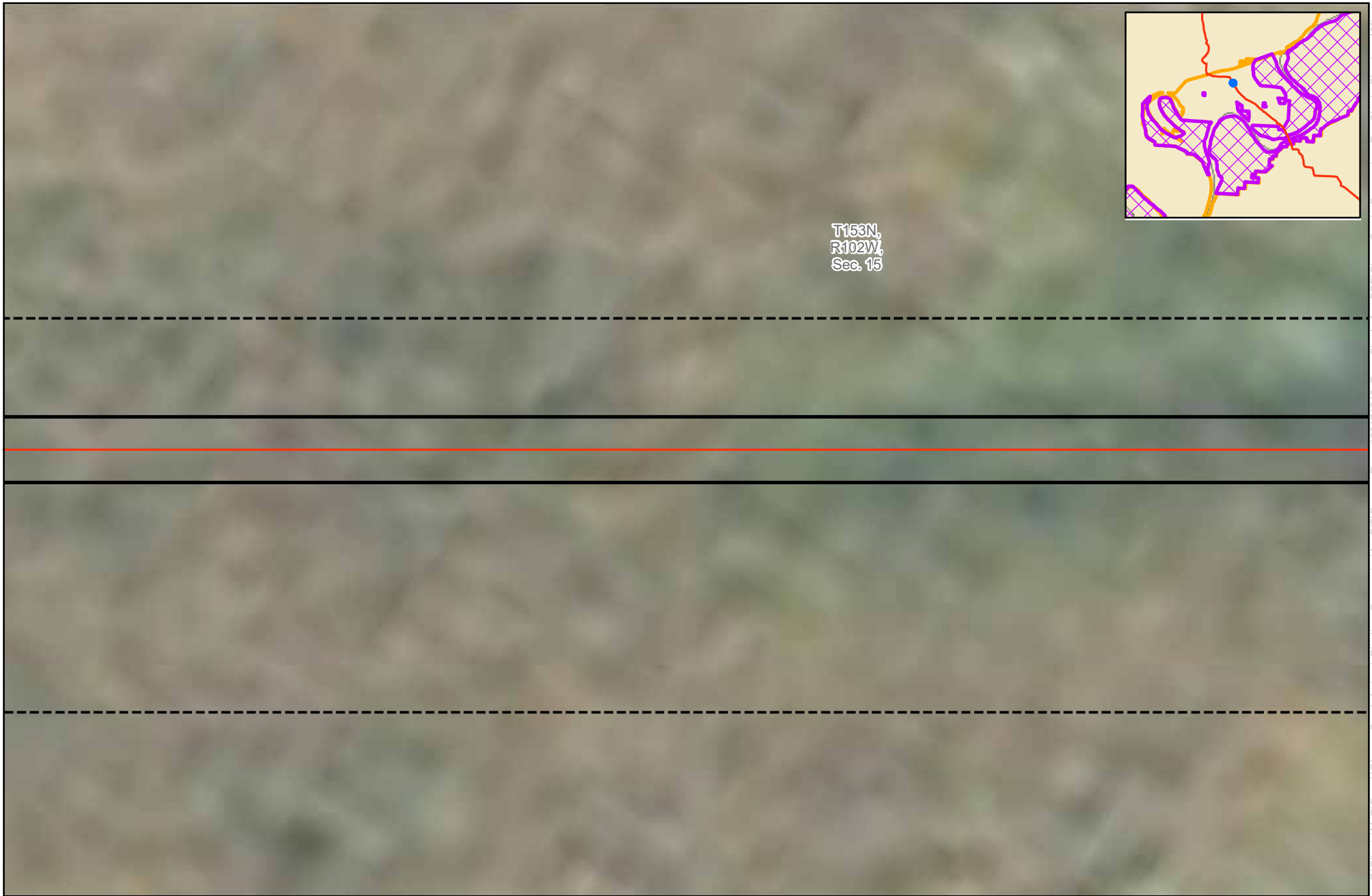


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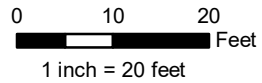
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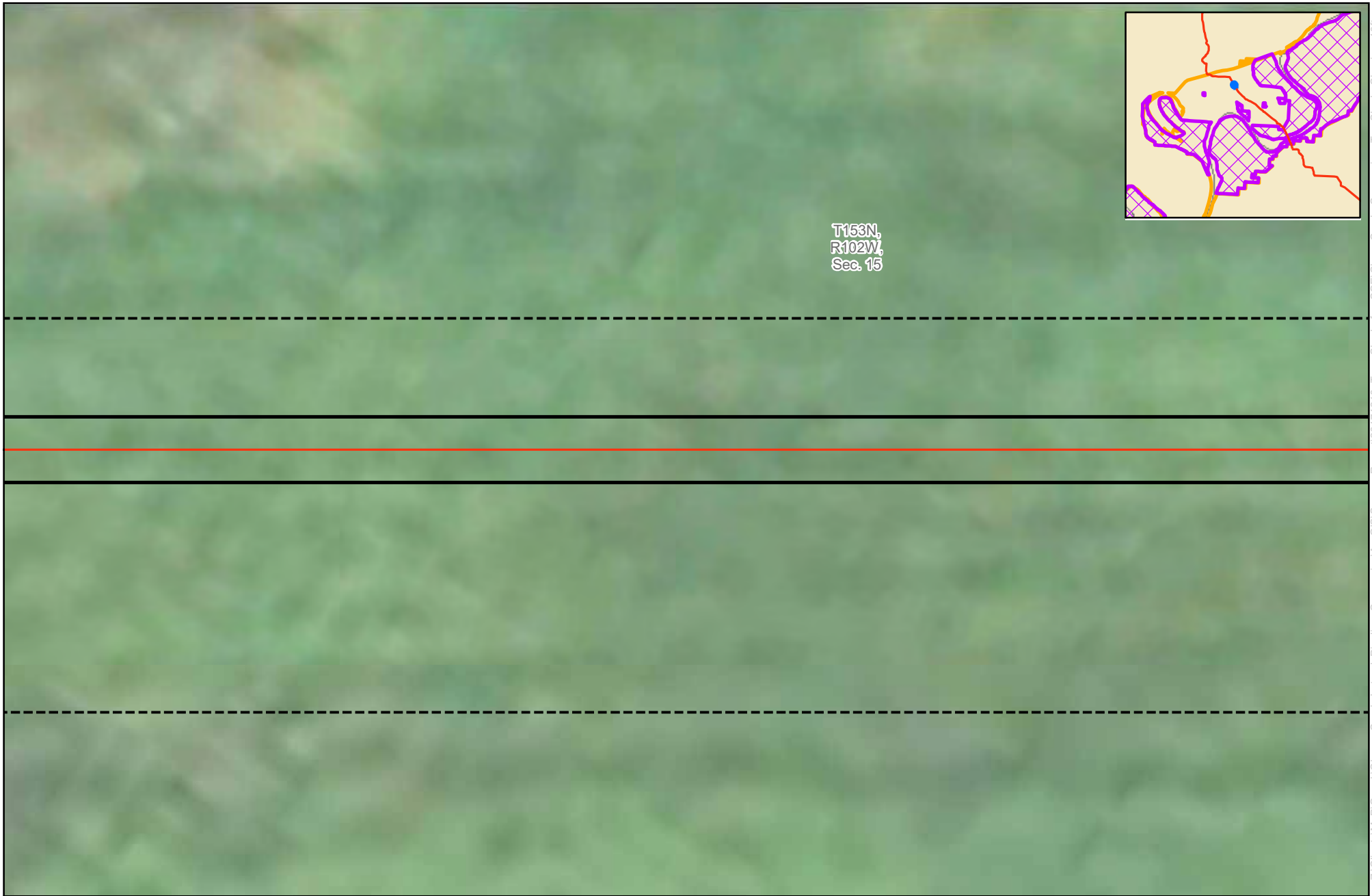
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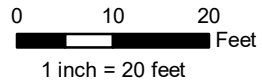
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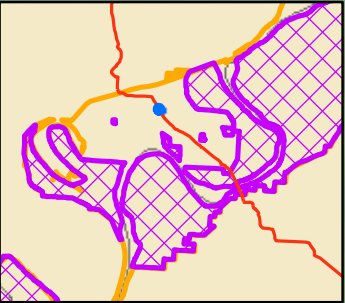
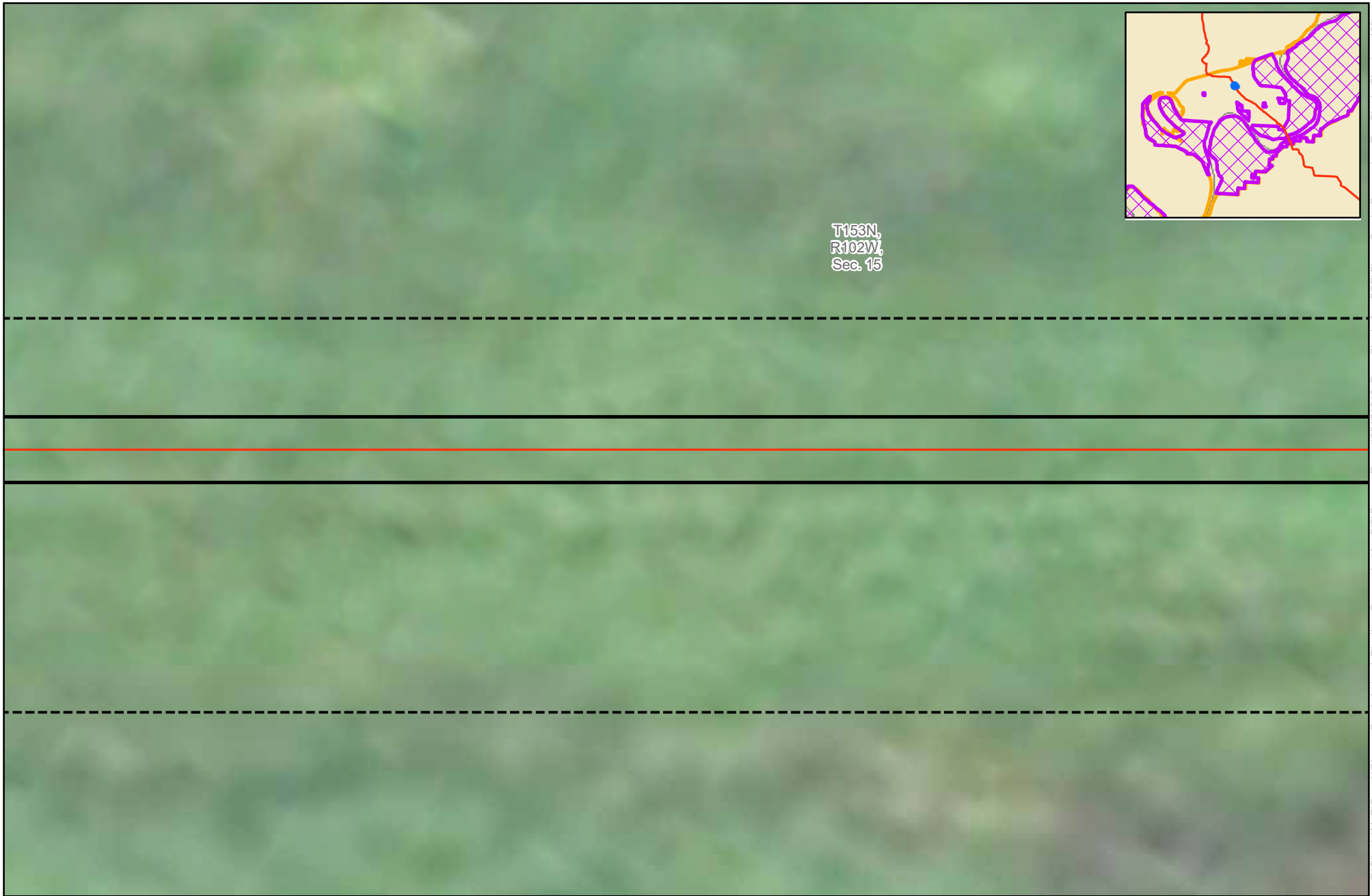
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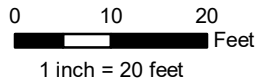
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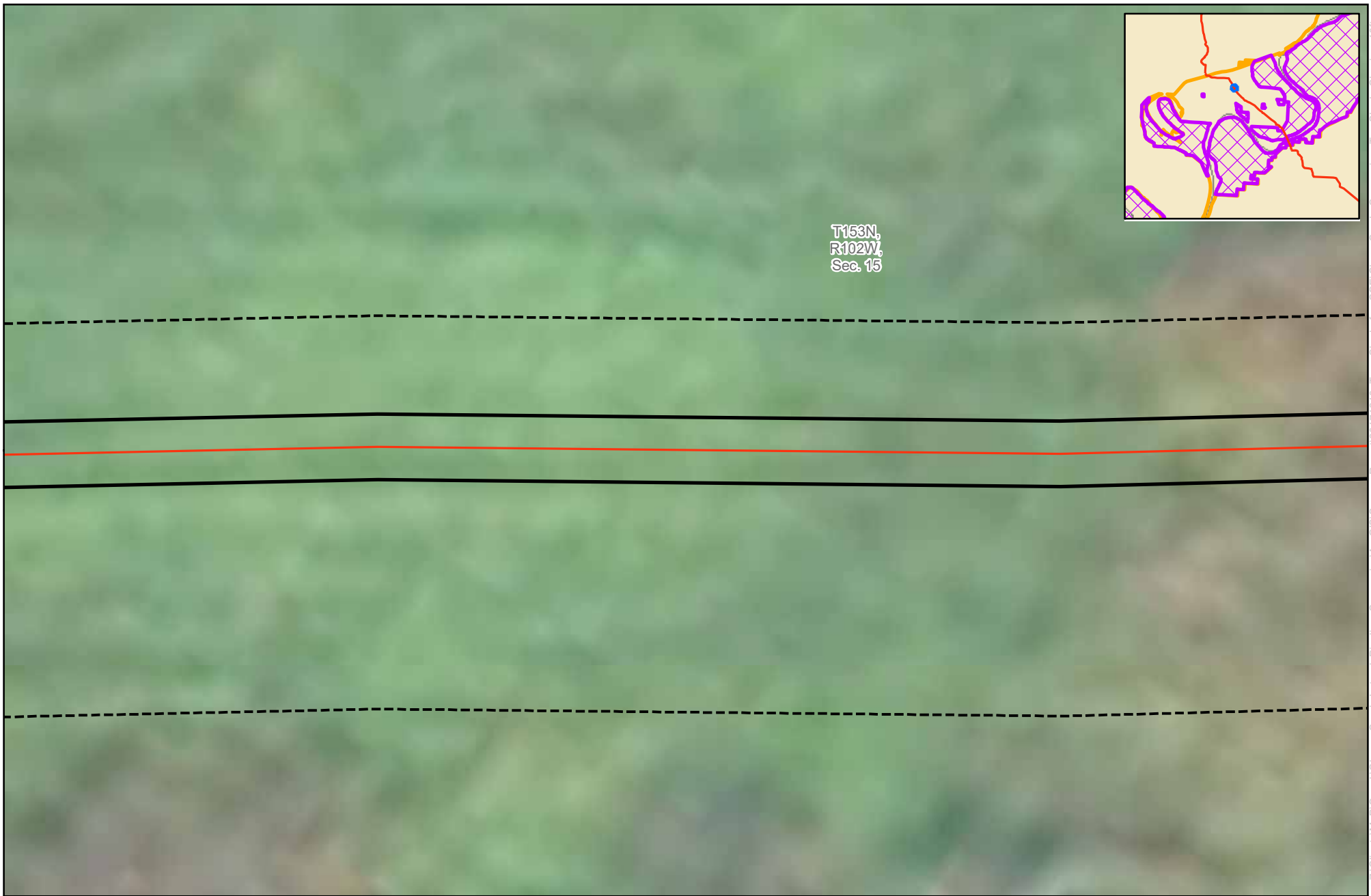
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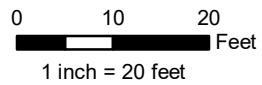
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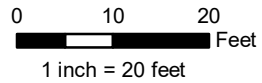
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T153N,
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Sec. 15



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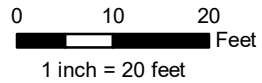
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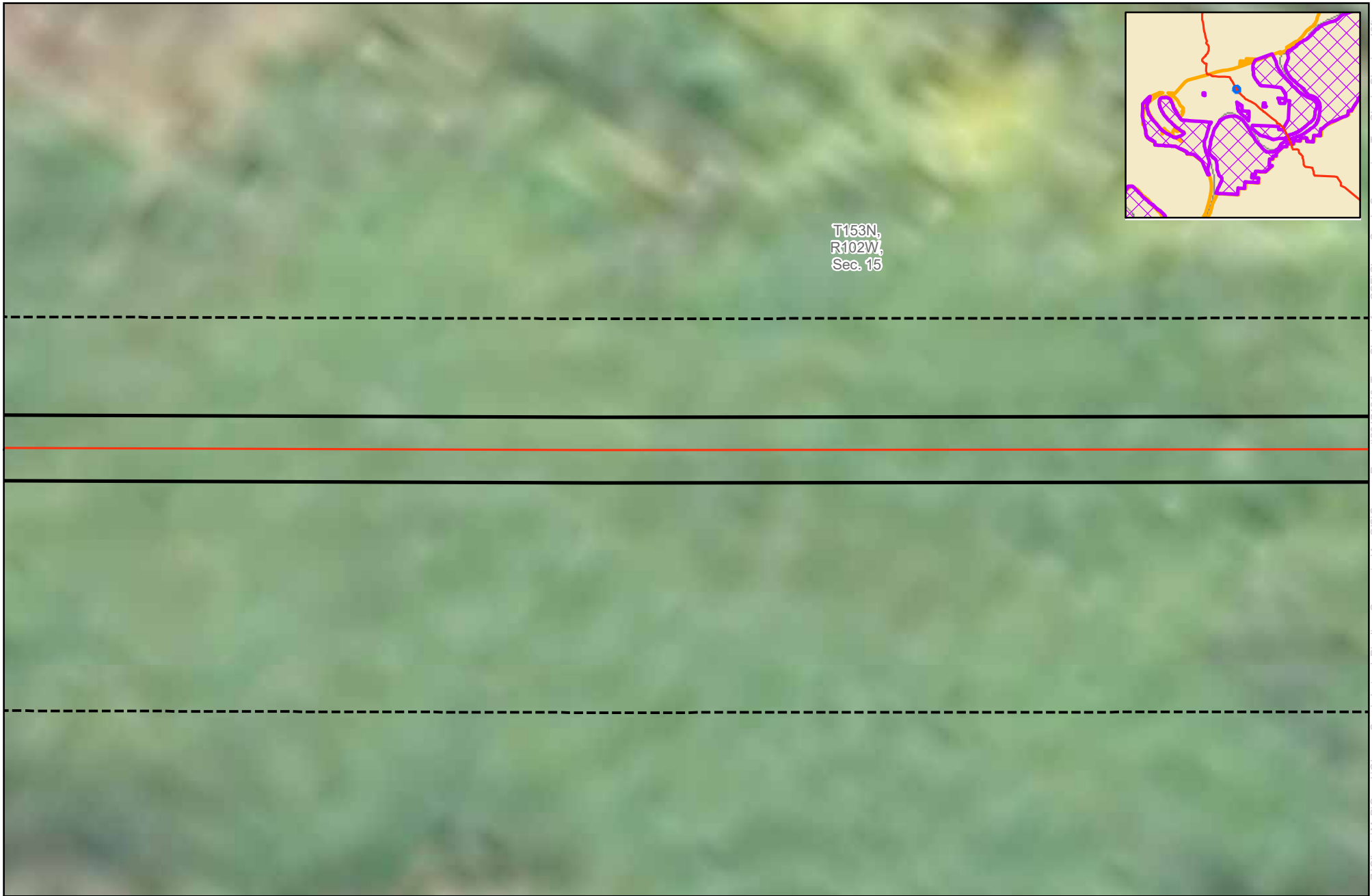
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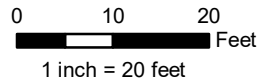
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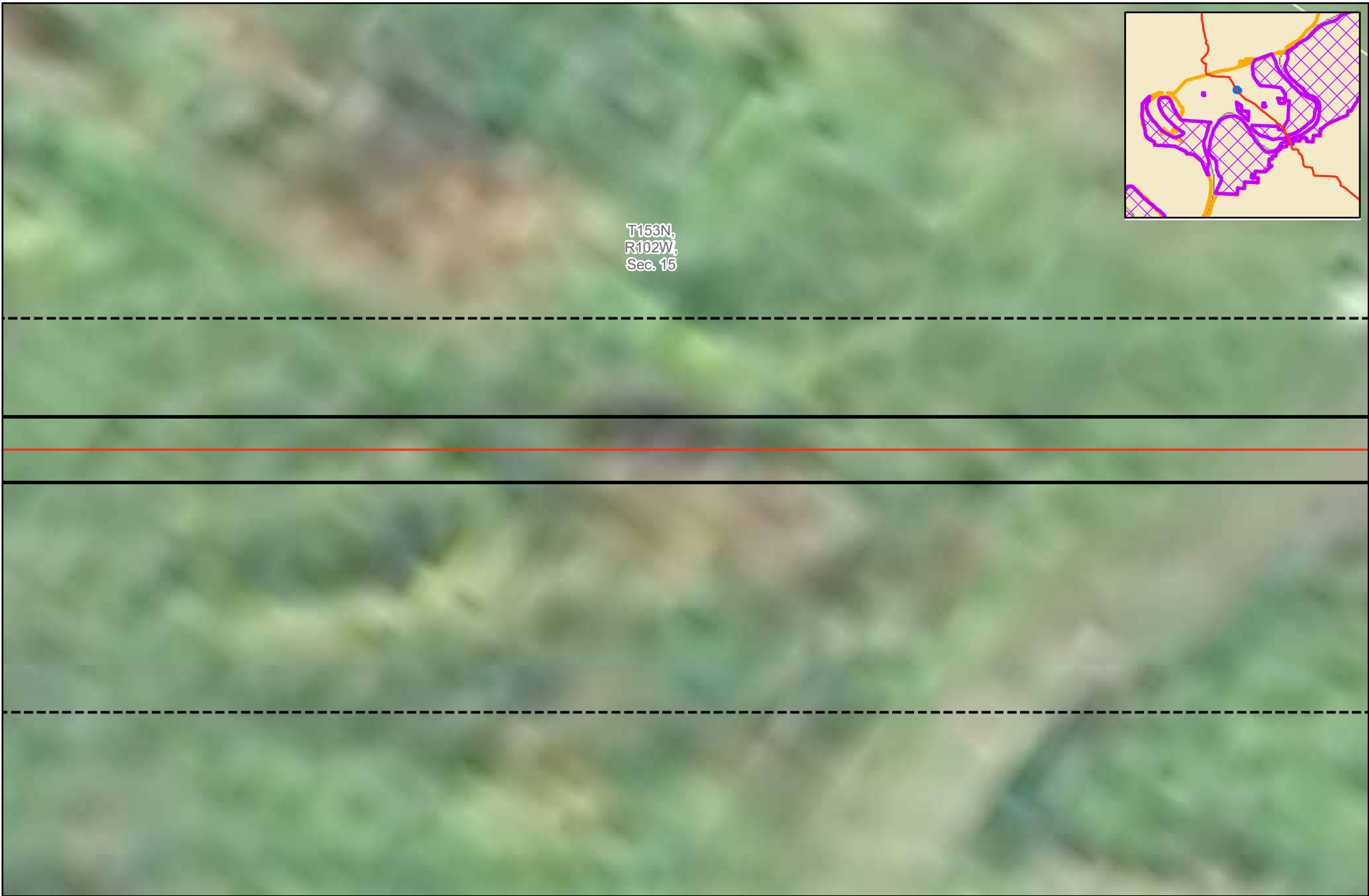
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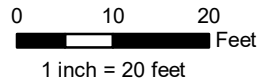
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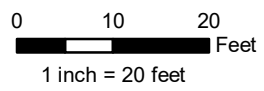
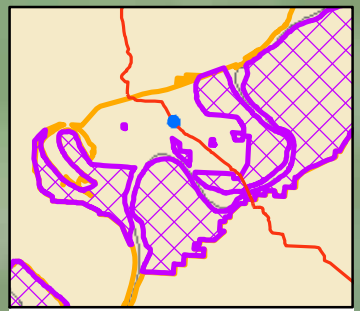
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- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior



T153N,
R102W,
Sec. 15

T153N,
R102W,
Sec. 14



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
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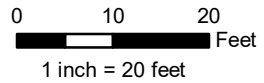
- Elaeagnus angustifolia
- Fraxinus pennsylvanica
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- Salix interior



Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_or_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/20/2017)



T153N, R102W,
Sec. 14

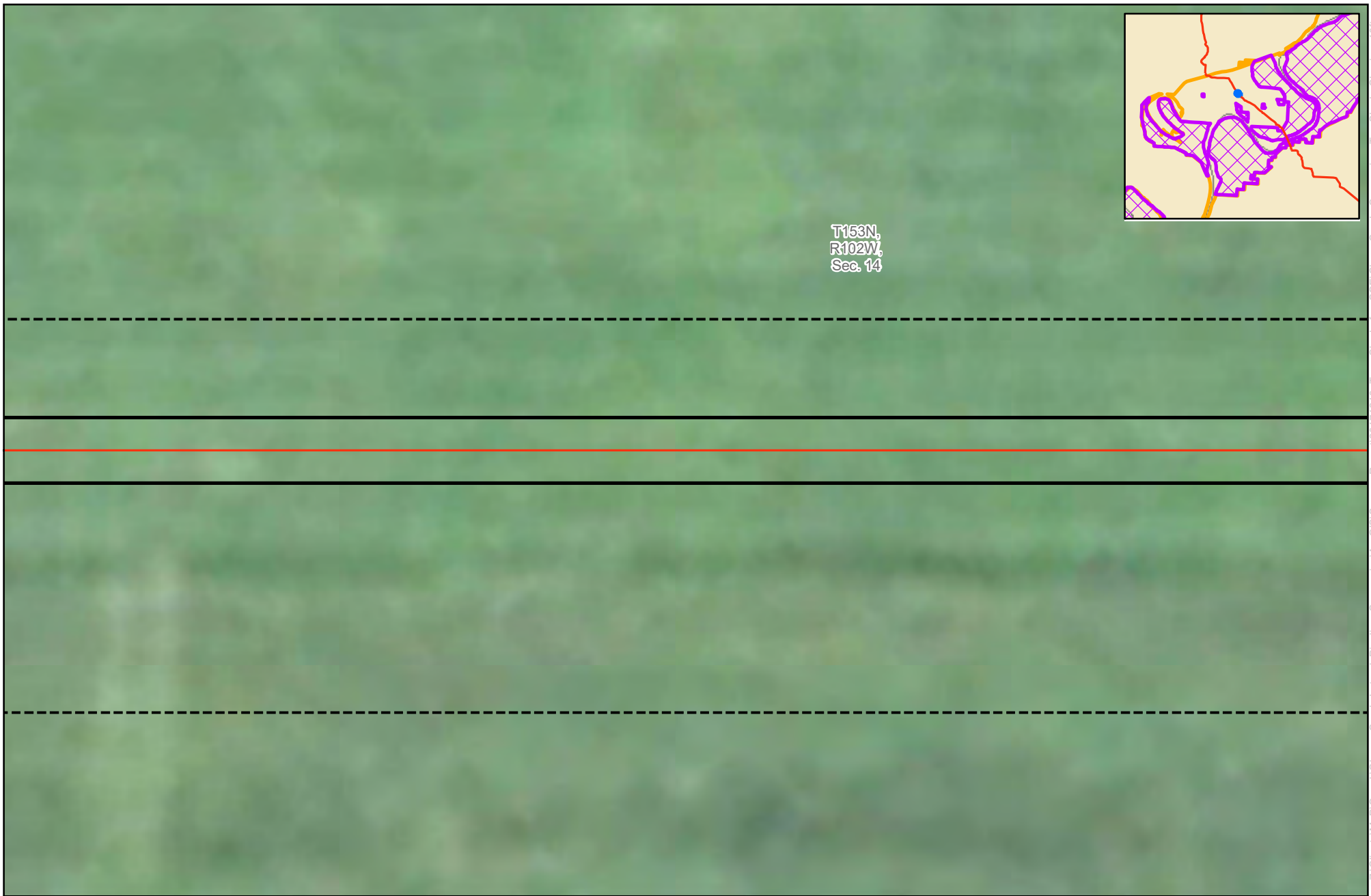


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McKenzie and Williams Counties, ND**

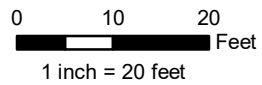
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T153N,
R102W,
Sec. 14



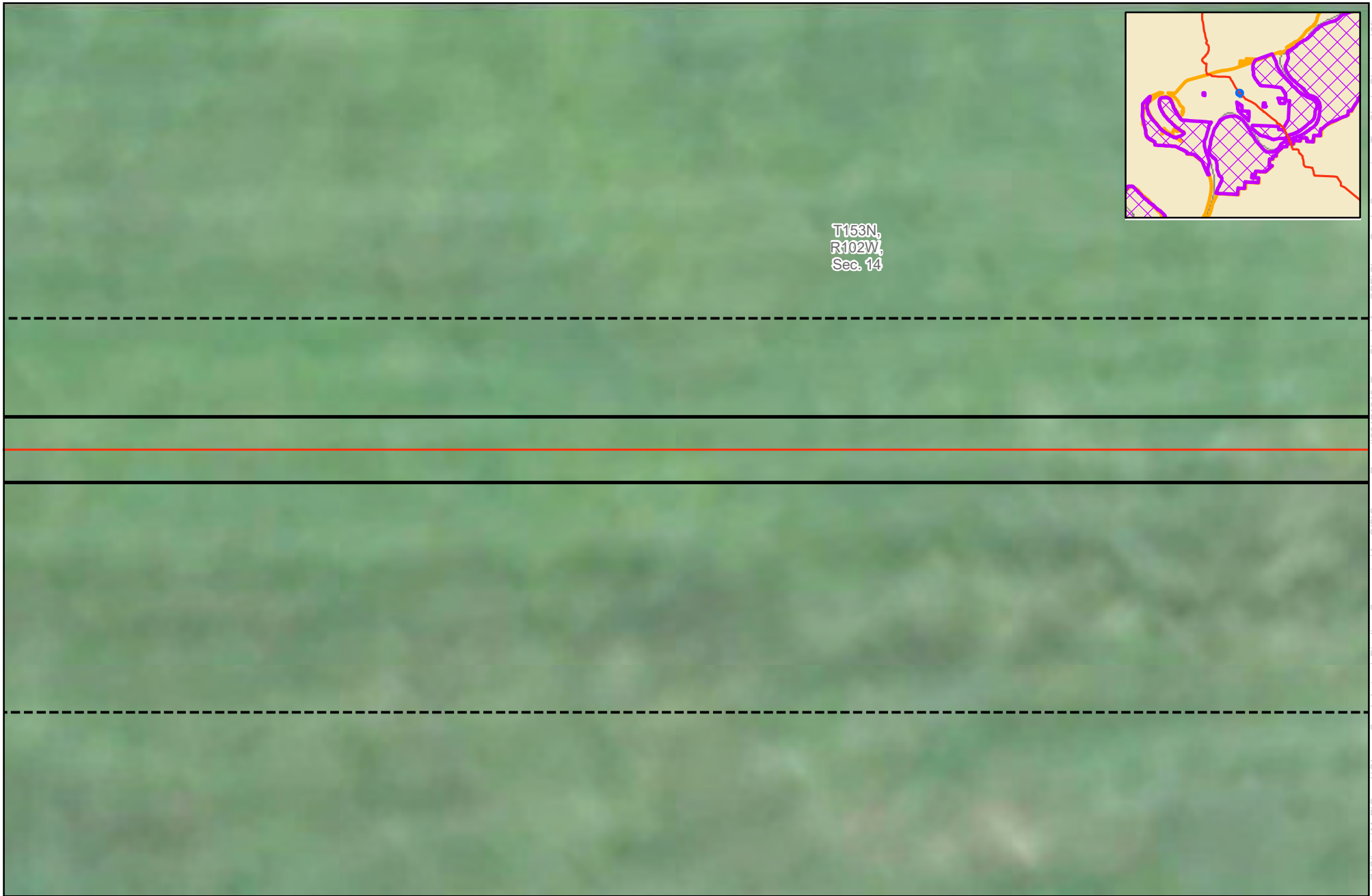
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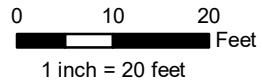
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T153N,
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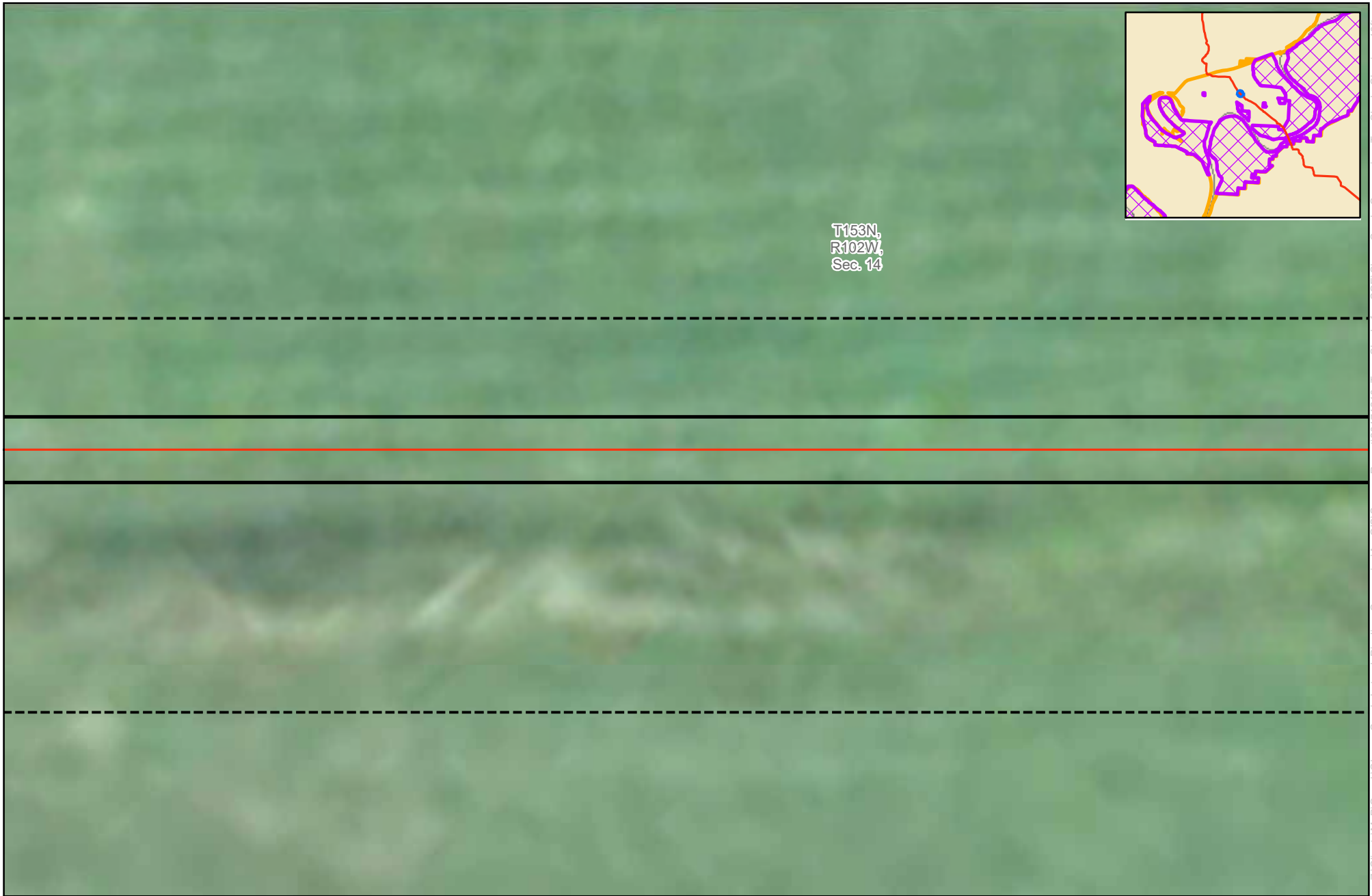
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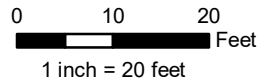
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T153N,
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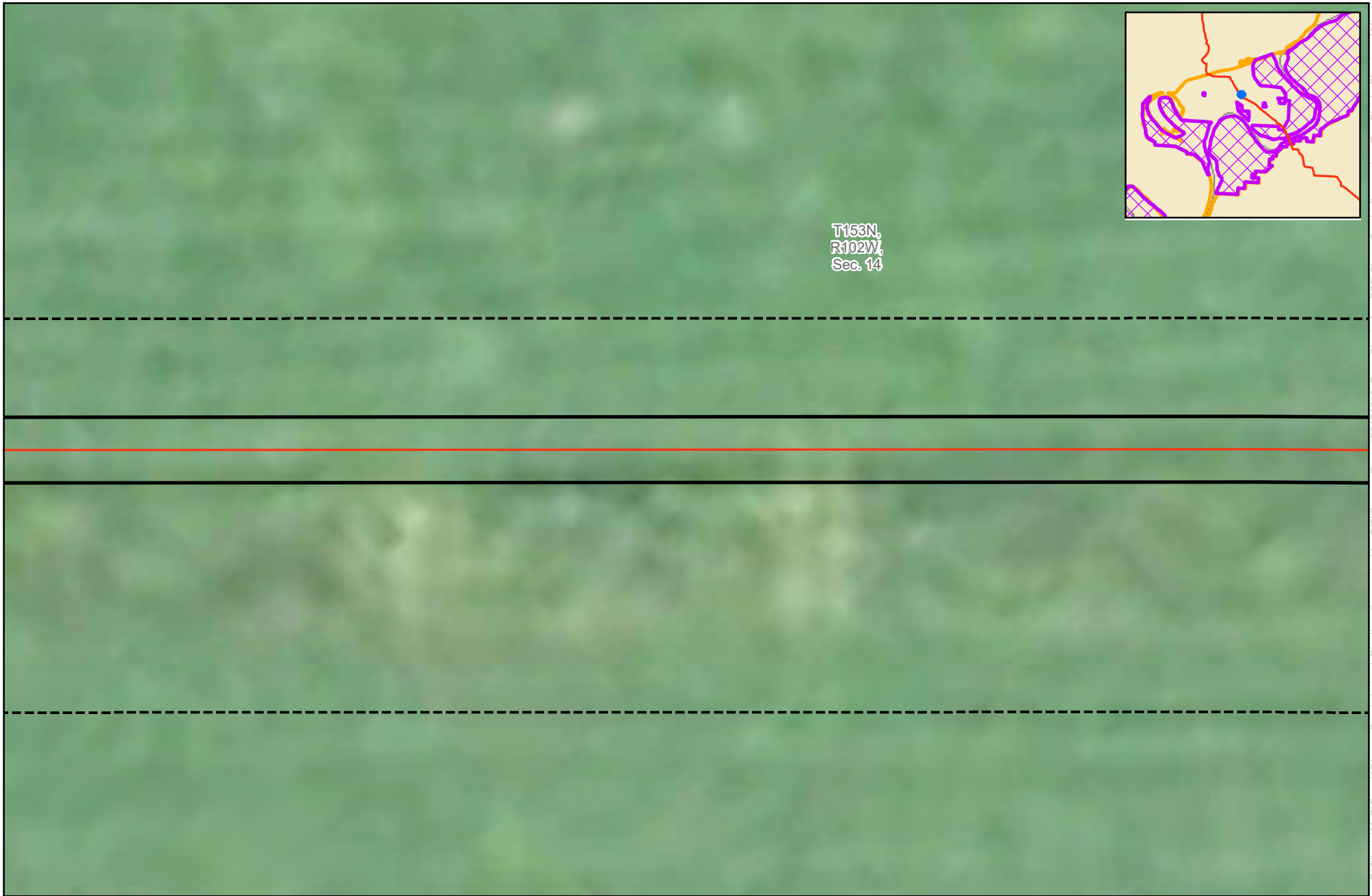
**ONEOK
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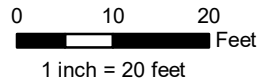
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T153N,
R102W,
Sec. 14



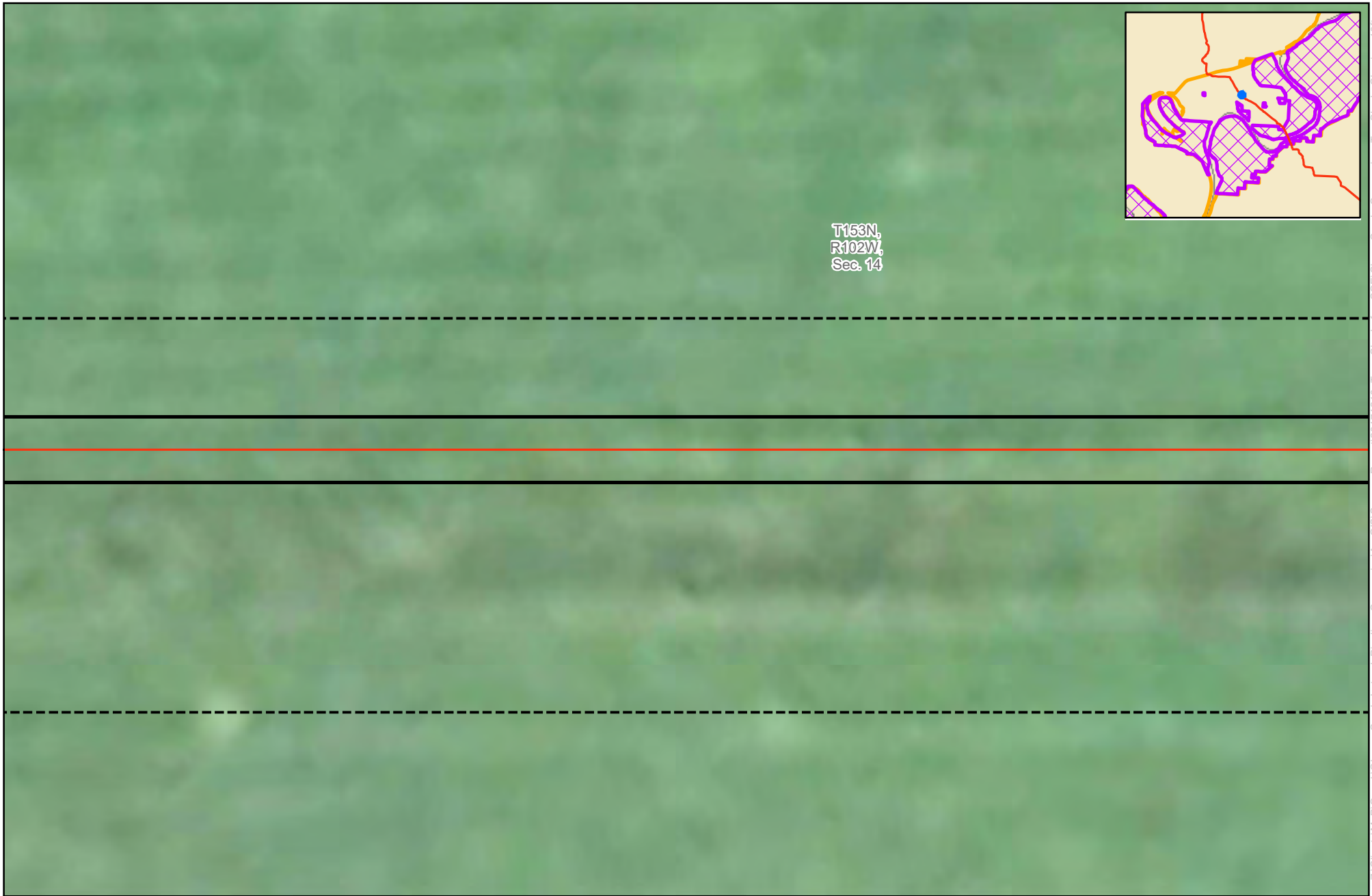
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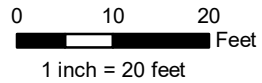
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T153N,
R102W,
Sec. 14

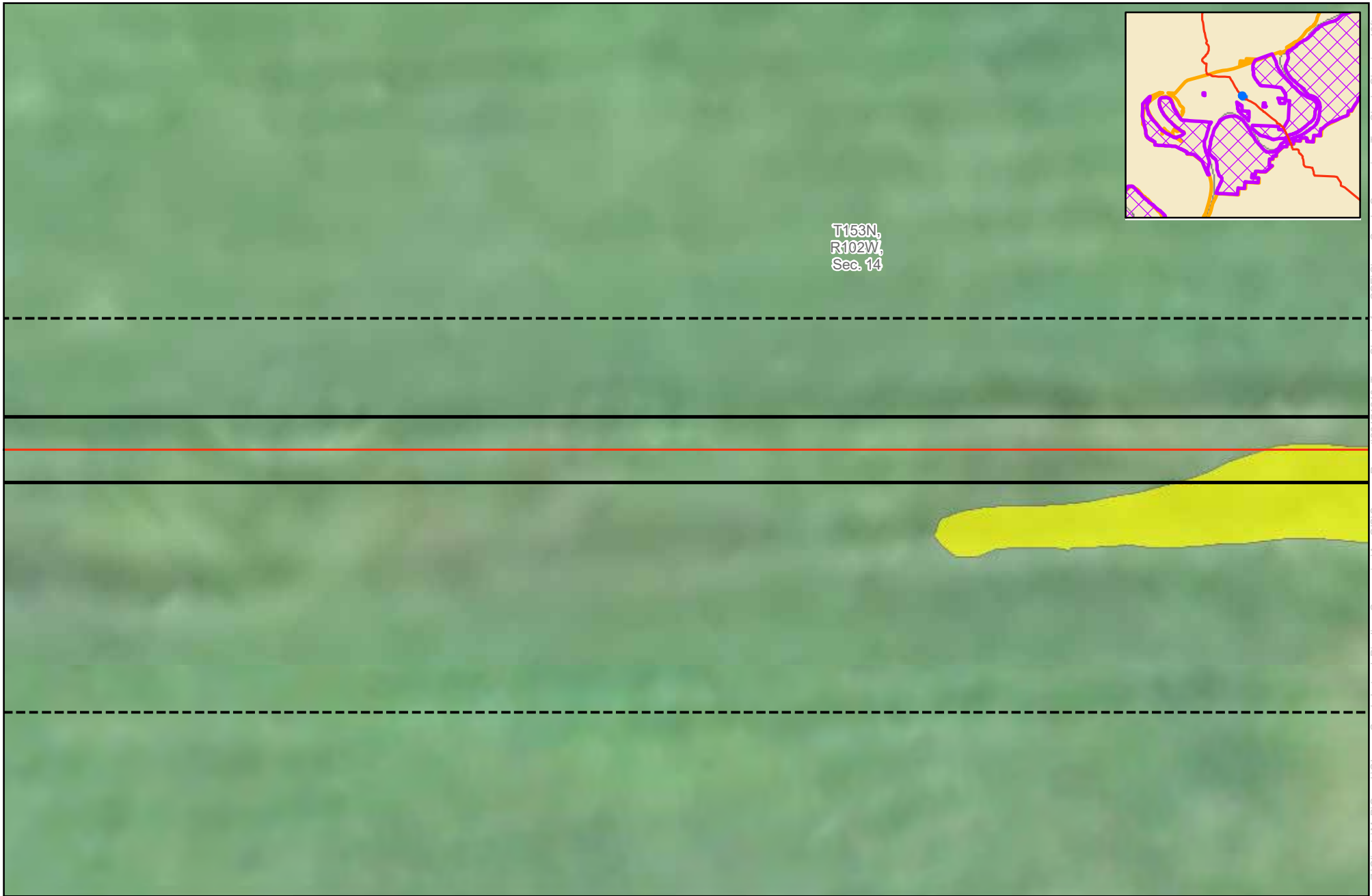


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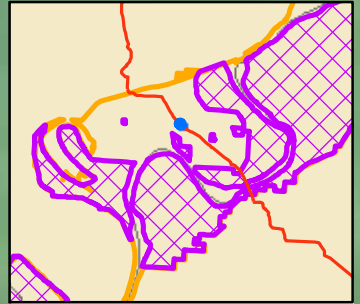
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T153N,
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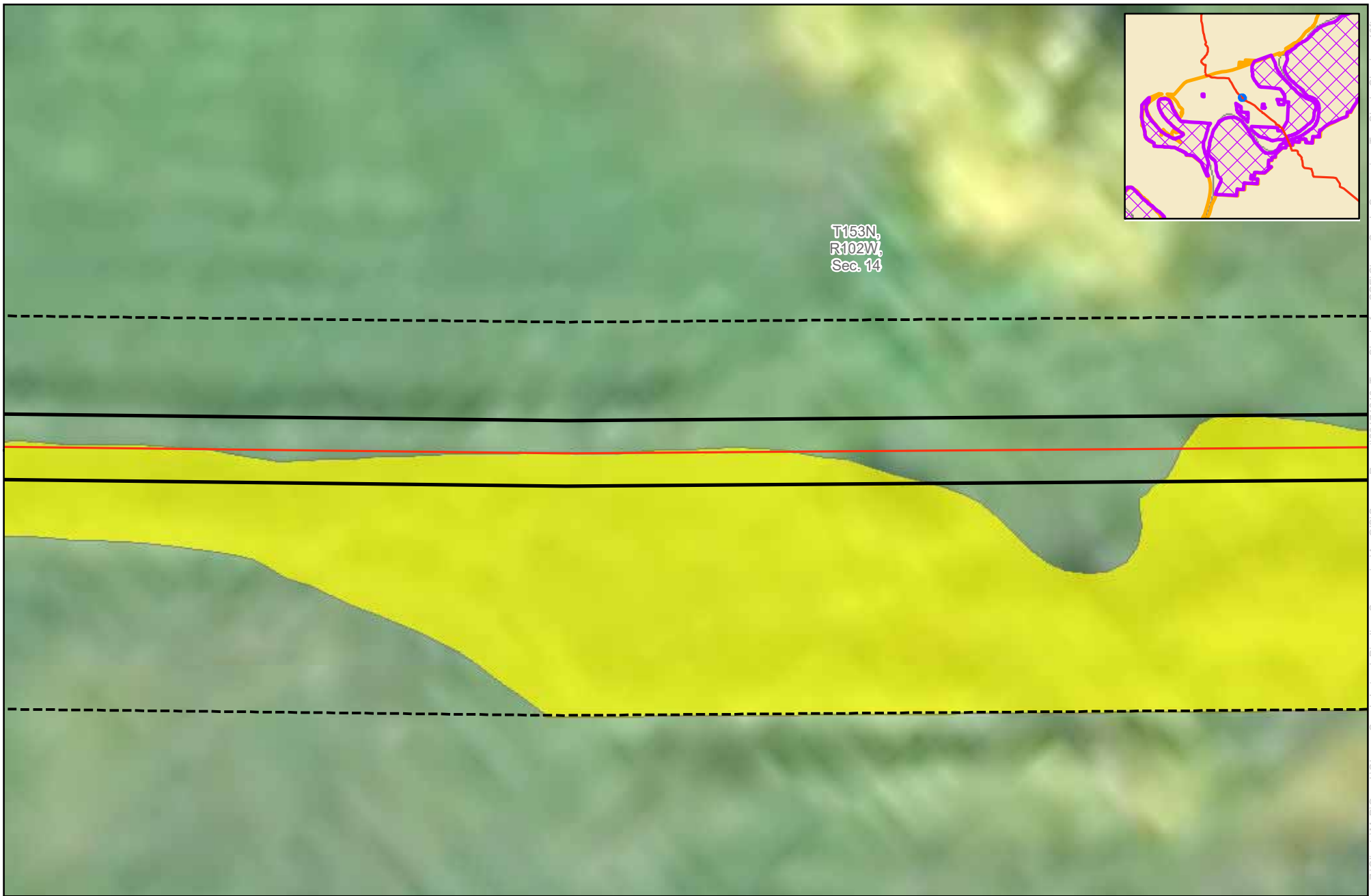
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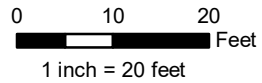
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T153N,
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Sec. 14



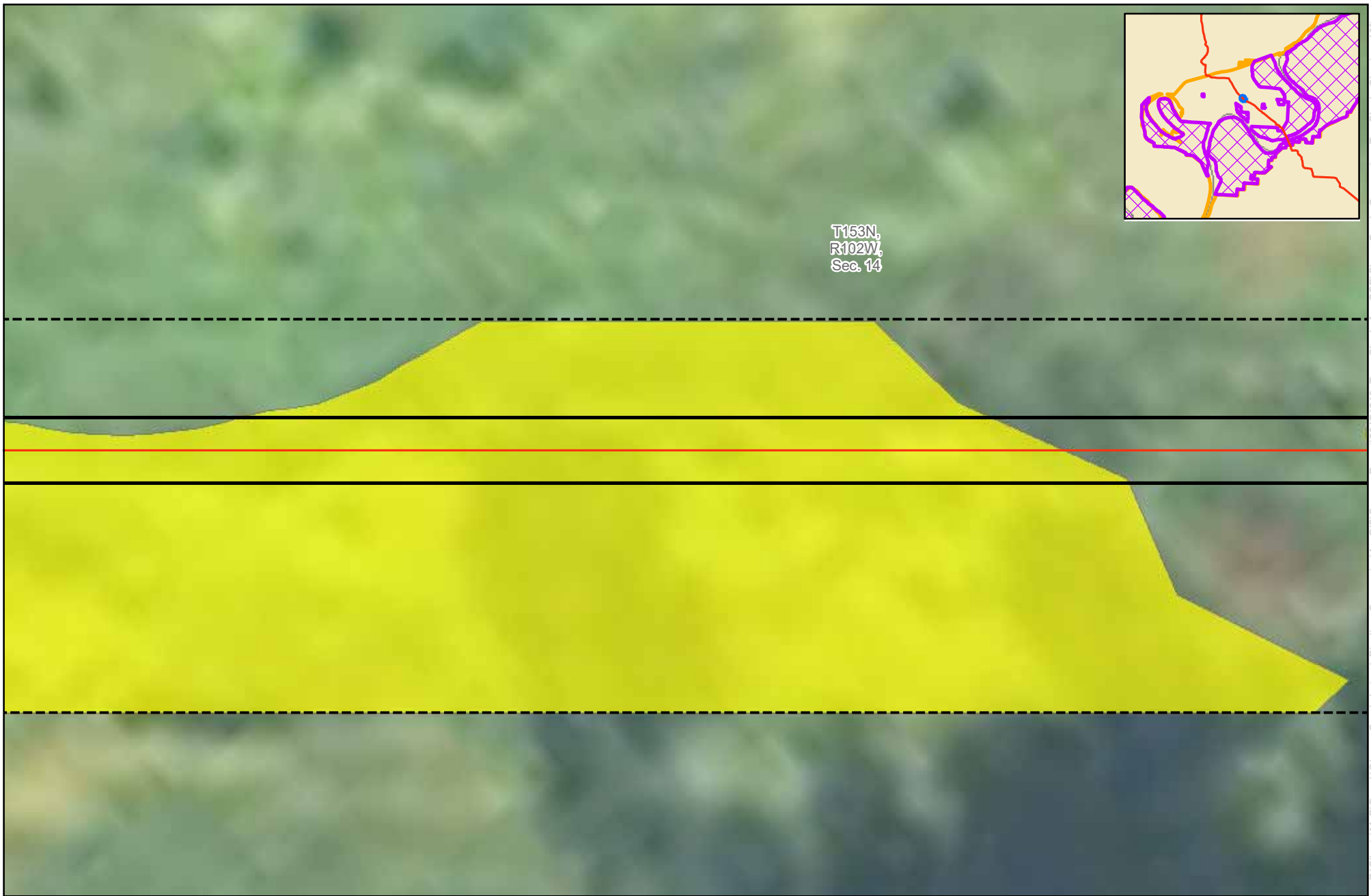
ONEOK
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McKenzie and Williams Counties, ND

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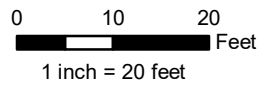
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T153N,
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Sec. 14



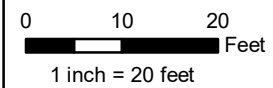
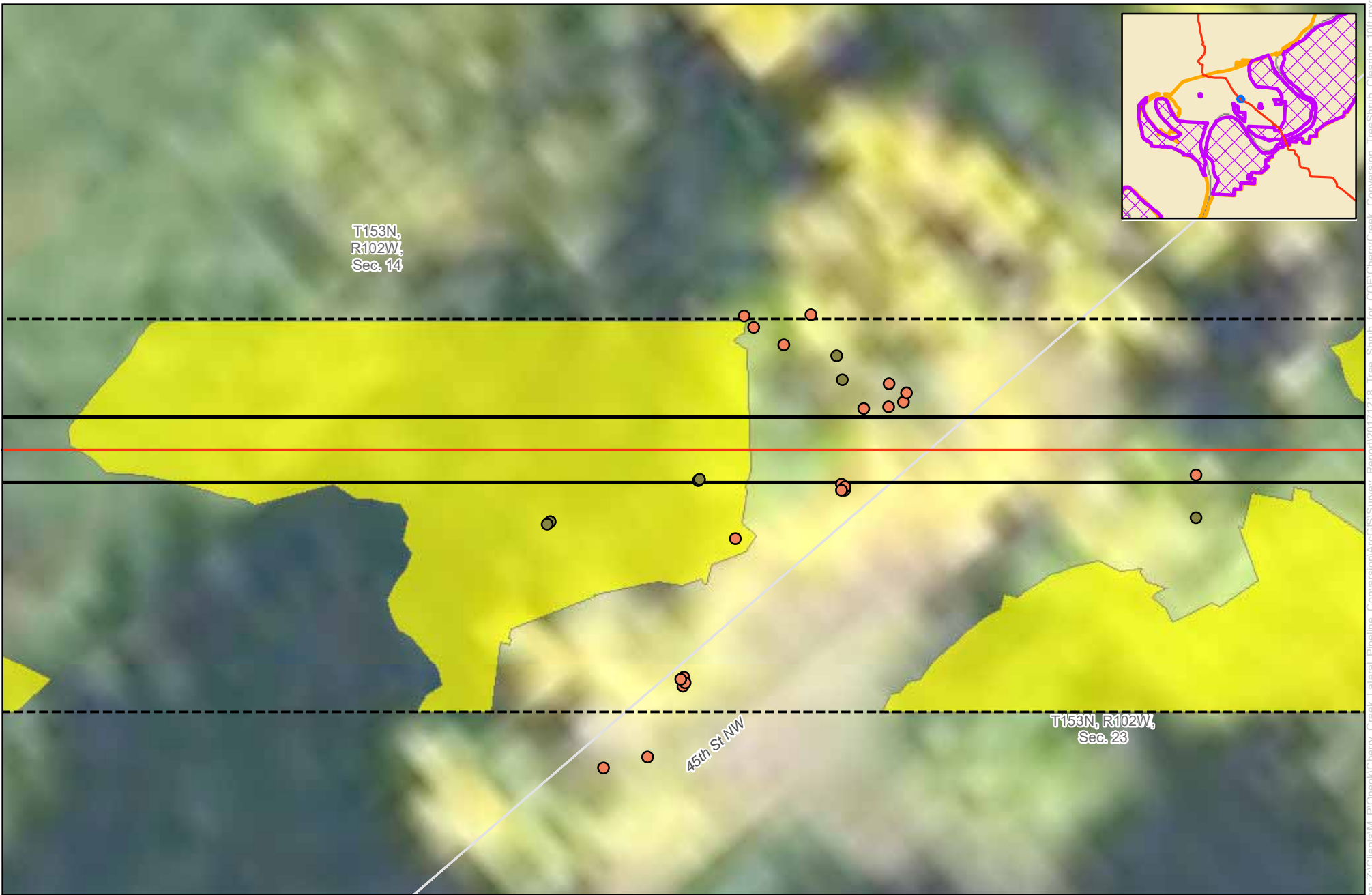
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

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ONEOK
12" Cherry Creek Lateral Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

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- Clump Count**
- Salix interior
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- Individual Count**
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 - Crataegus chrysoarpa

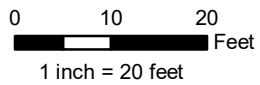
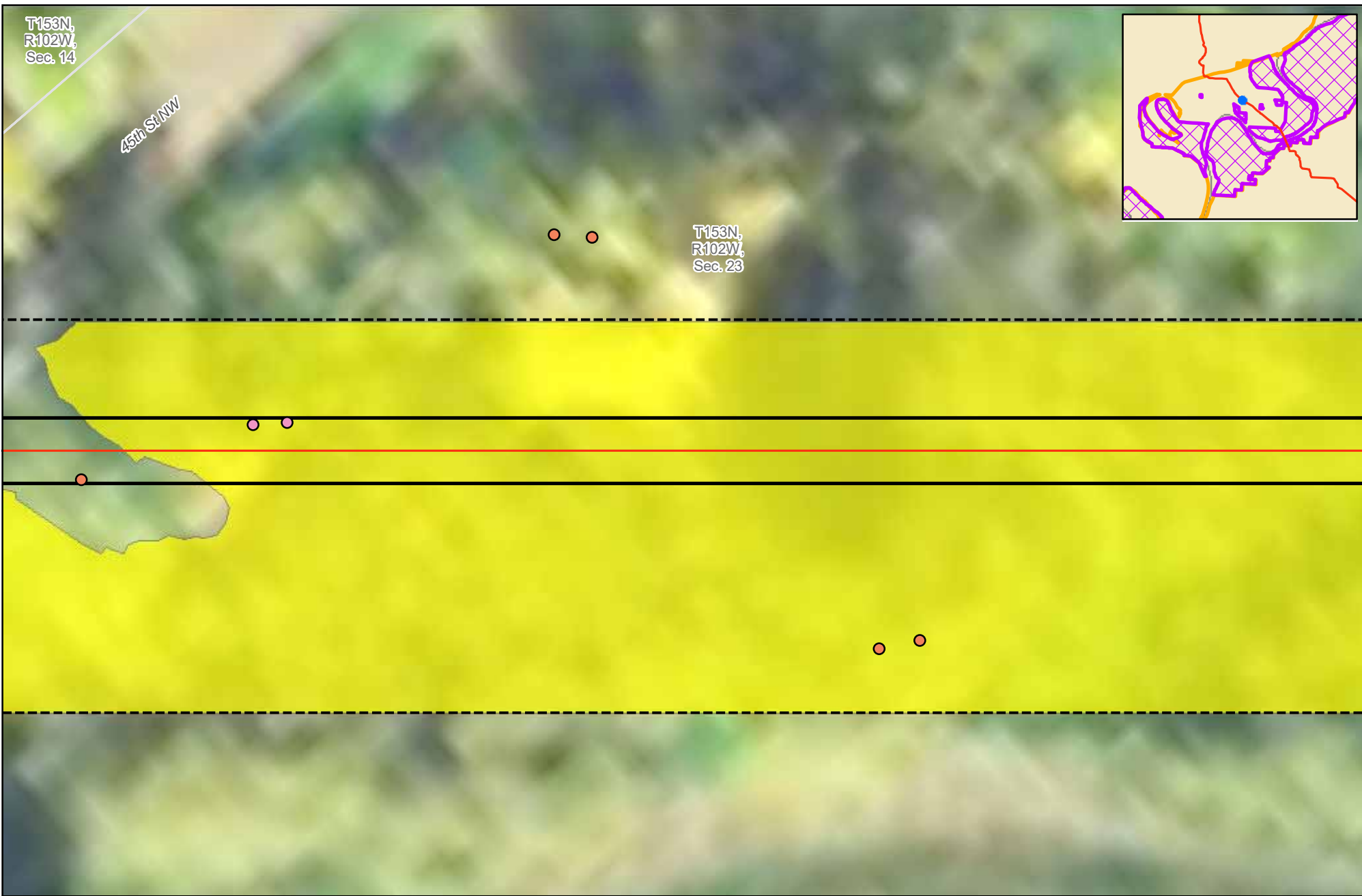
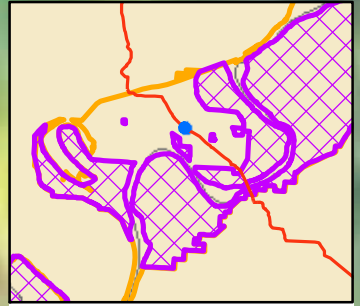
- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior

Date: (12/20/17) Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\1216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd

T153N,
R102W,
Sec. 14

45th St NW

T153N,
R102W,
Sec. 23

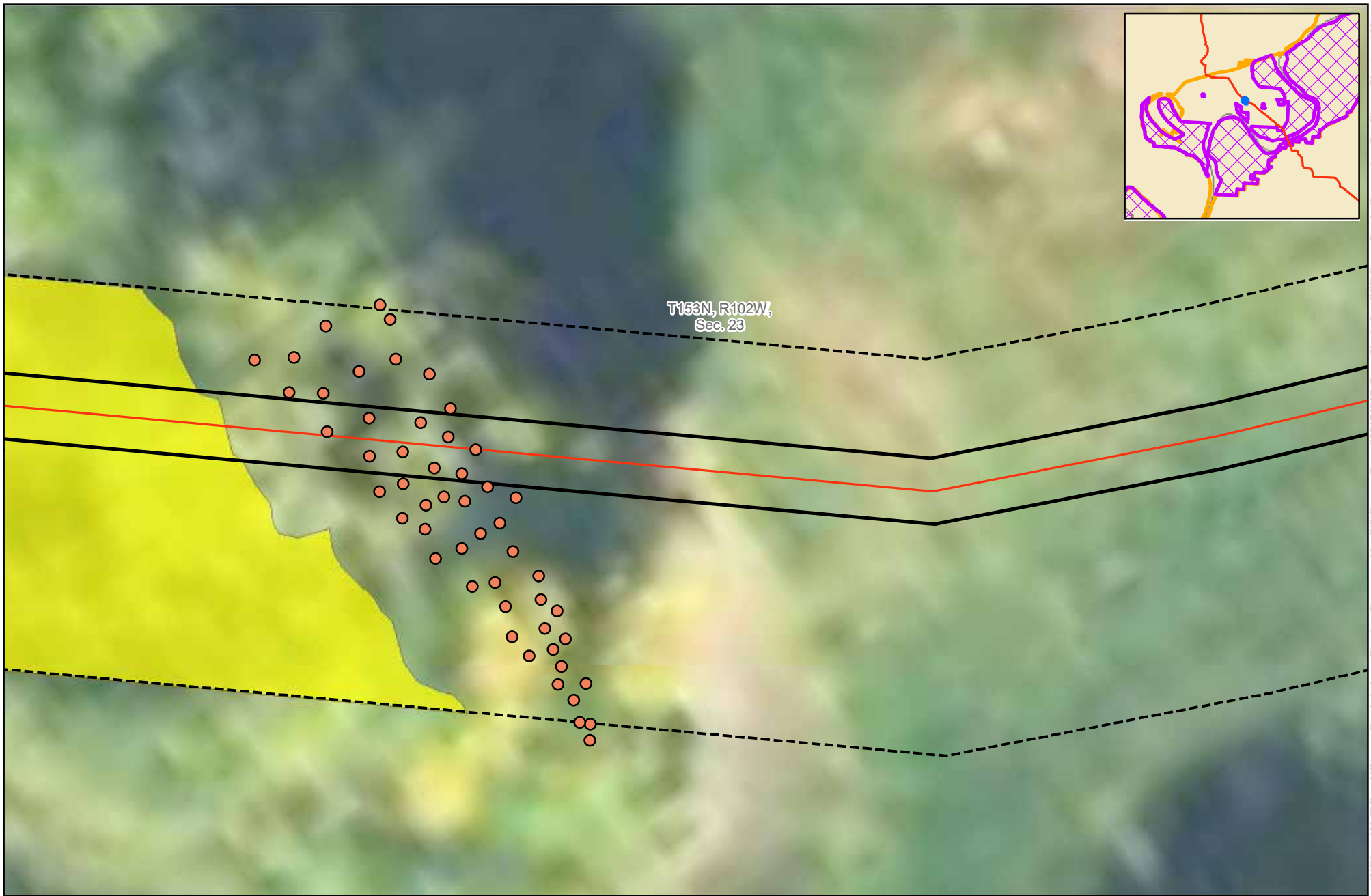


ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

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- Populus deltoides
- Salix fragilis
- Salix interior



0 10 20 Feet
1 inch = 20 feet

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Page 52 of 119

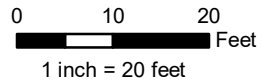
**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

Project Centerline	Clump Count	<i>Elaeagnus angustifolia</i>
60ft-Wide Easement	<i>Salix interior</i>	<i>Fraxinus pennsylvanica</i>
10ft-Wide Corridor	<i>Symphoricarpos occidentalis</i>	<i>Populus deltoides</i>
Section Boundary	Individual Count	<i>Salix fragilis</i>
ND Game and Fish Land	<i>Acer negundo</i>	<i>Salix interior</i>
USACE Lands	<i>Crataegus chrysoarpa</i>	

Source: Z:\Clients\1\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



T153N,
R102W,
Sec. 23



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
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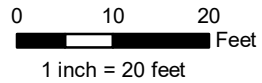
- Clump Count**
- Salix interior
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T153N,
R102W,
Sec. 23



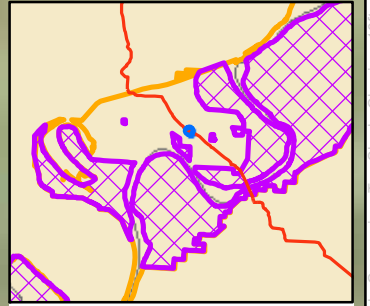
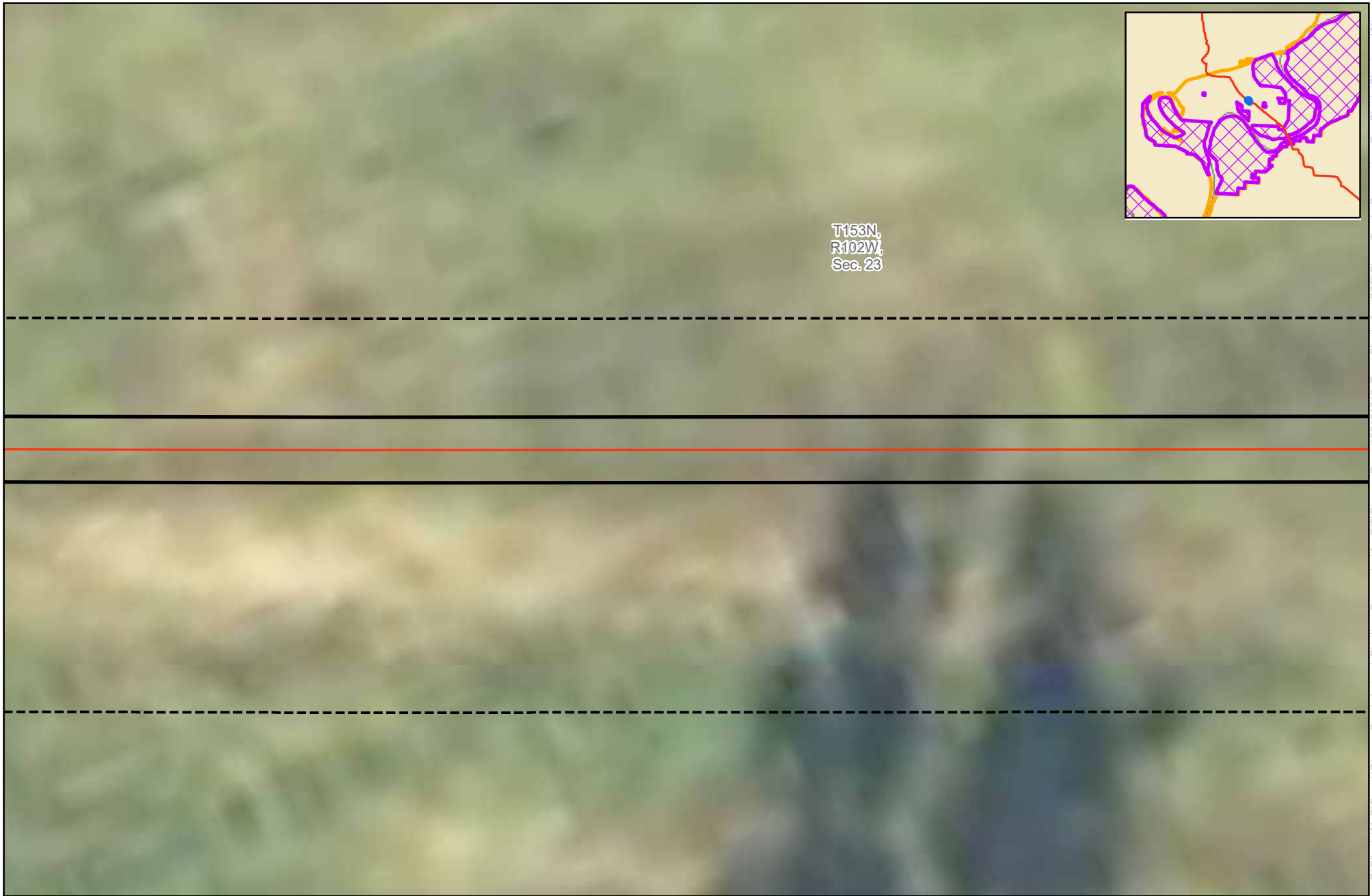
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McKenzie and Williams Counties, ND**

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T153N,
R102W,
Sec. 23

0 10 20 Feet
1 inch = 20 feet



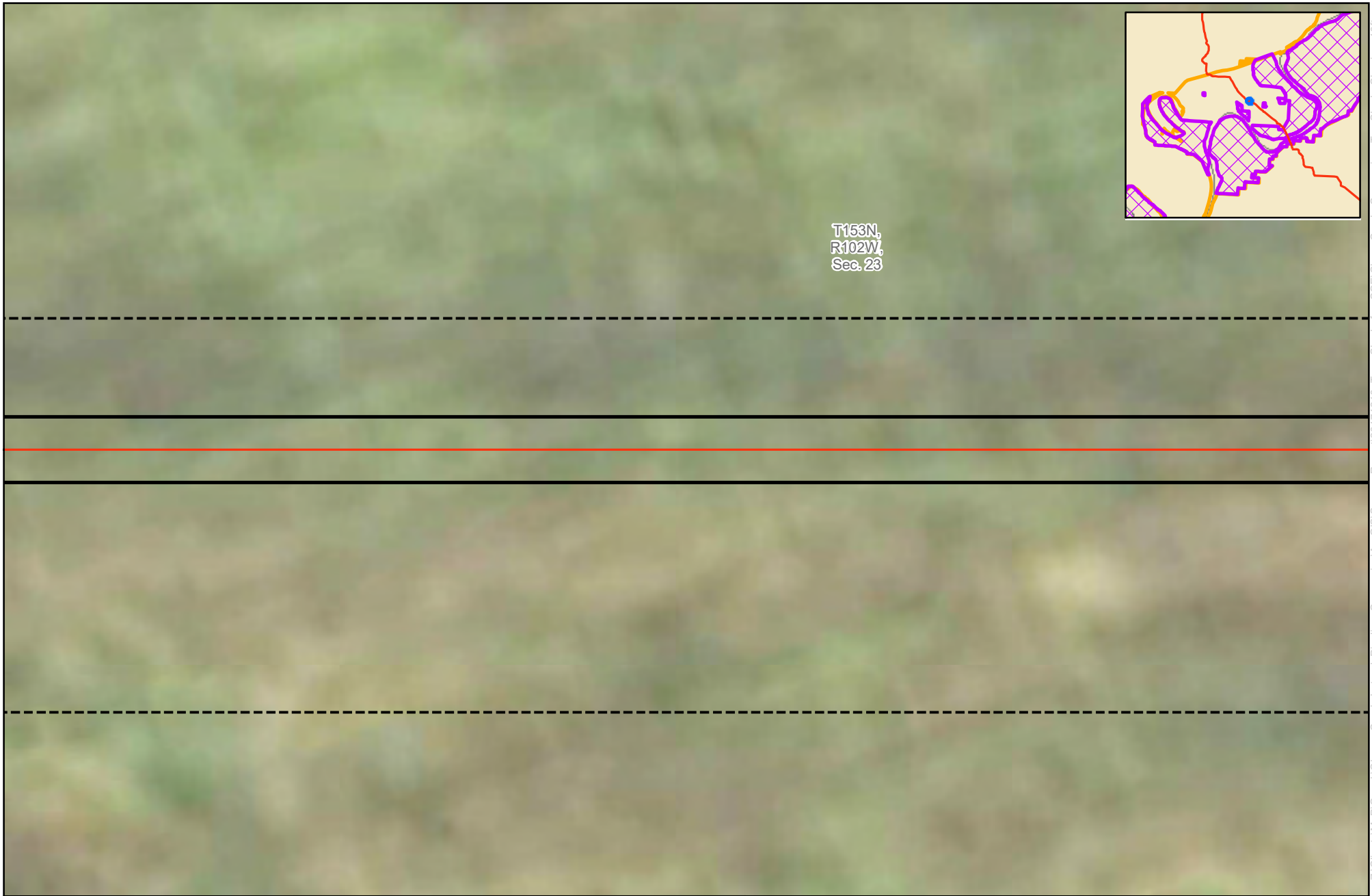
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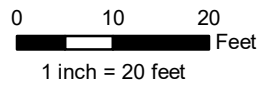
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T153N,
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Sec. 23



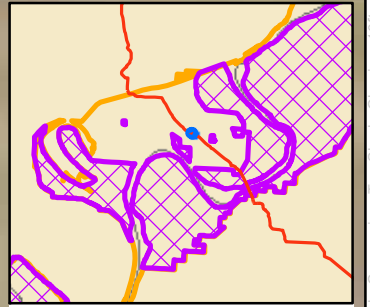
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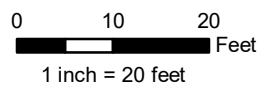
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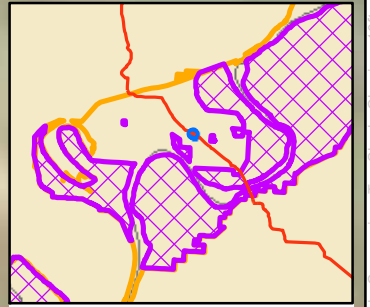
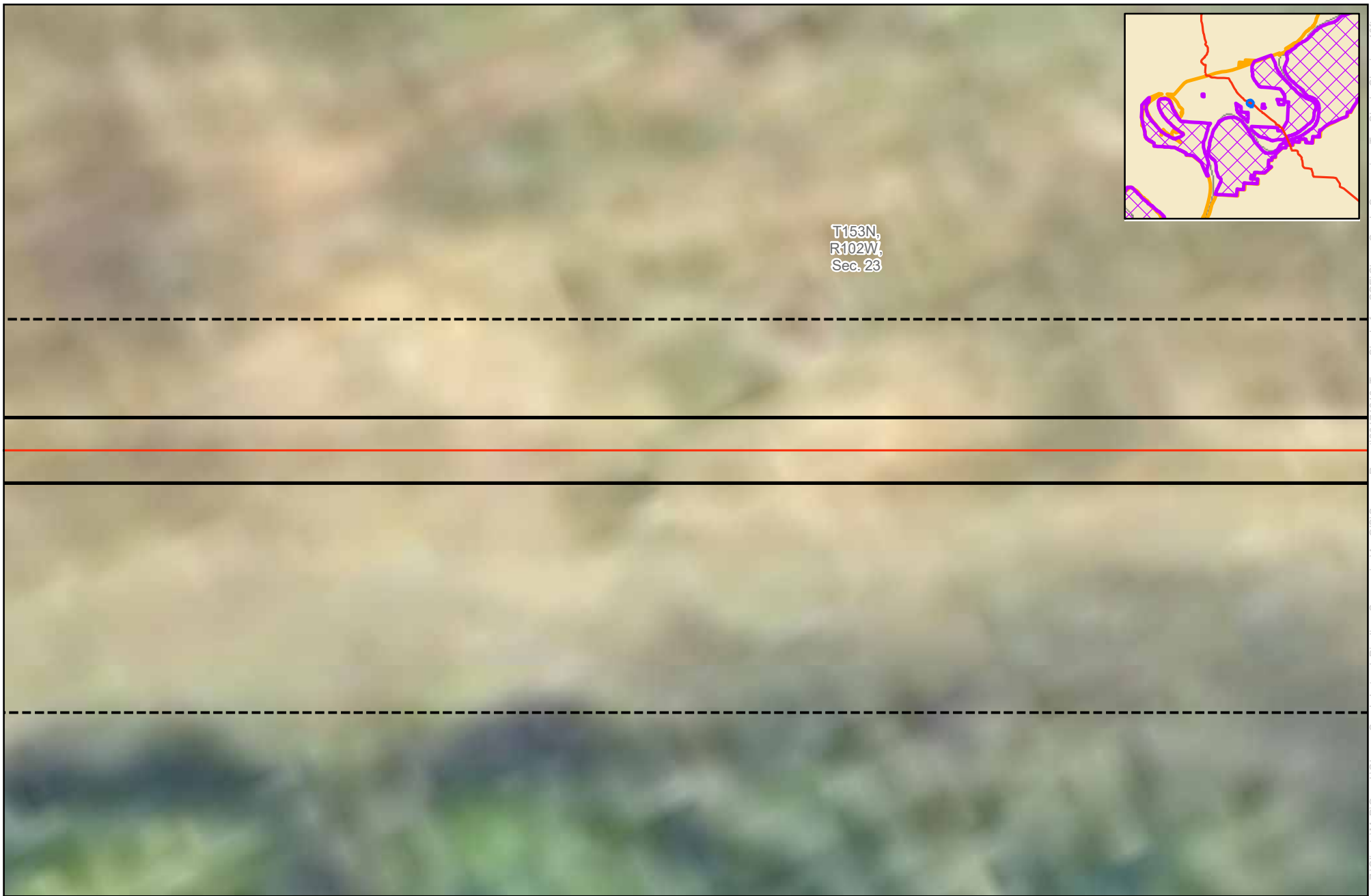
T153N,
R102W,
Sec. 23



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- | | | |
|-----------------------|------------------------------------|-------------------------------|
| Project Centerline | Clump Count | <i>Elaeagnus angustifolia</i> |
| 60ft-Wide Easement | <i>Salix interior</i> | <i>Fraxinus pennsylvanica</i> |
| 10ft-Wide Corridor | <i>Symphoricarpos occidentalis</i> | <i>Populus deltoides</i> |
| Section Boundary | Individual Count | <i>Salix fragilis</i> |
| ND Game and Fish Land | <i>Acer negundo</i> | <i>Salix interior</i> |
| USACE Lands | <i>Crataegus chrysoarpa</i> | |

Date: (12/20/2017) Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



T153N,
R102W,
Sec. 23

0 10 20 Feet
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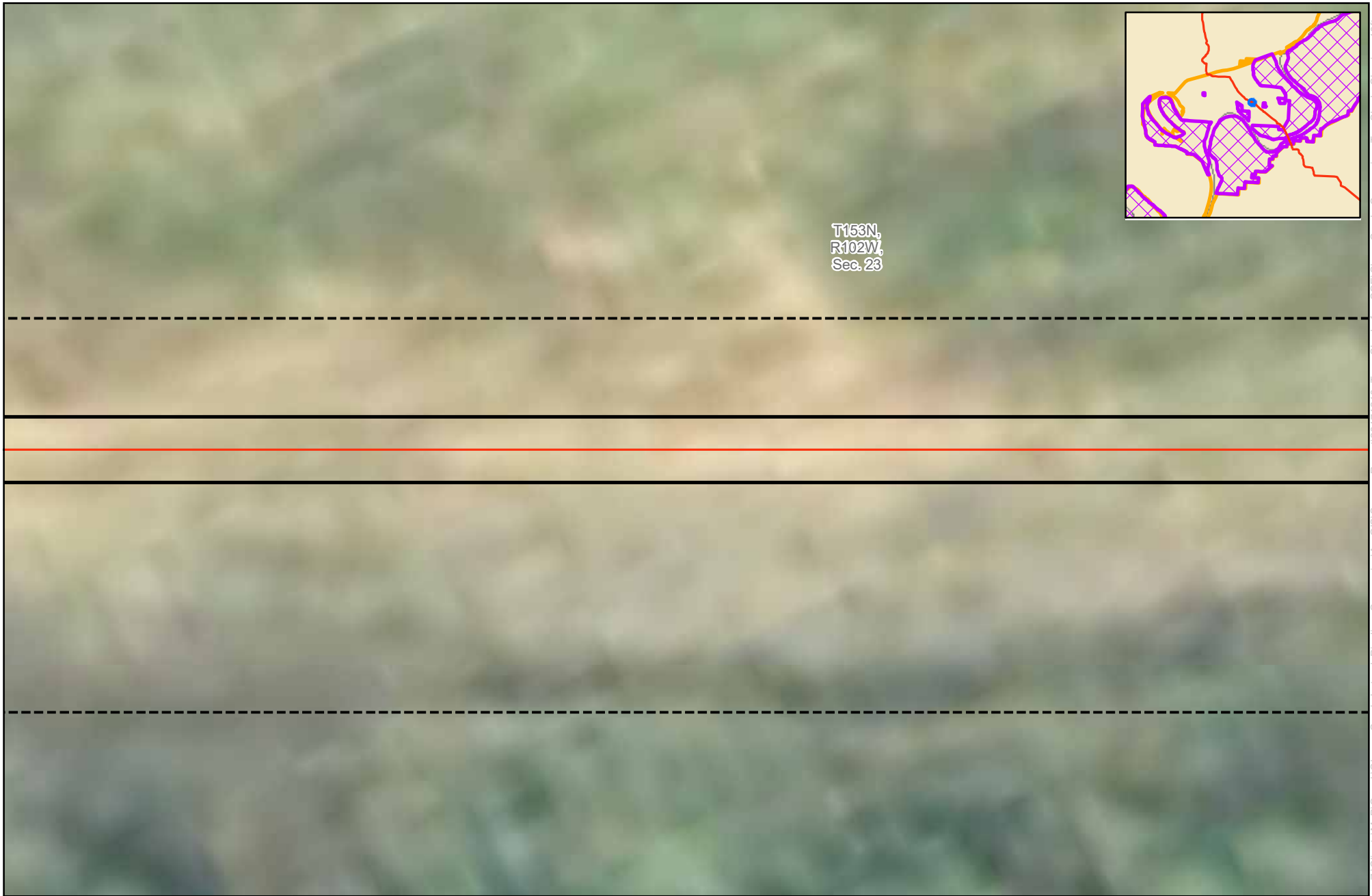
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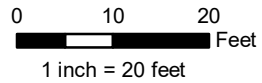
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T153N,
R102W,
Sec. 23



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Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: 12/28/2017



T153N,
R102W,
Sec. 23

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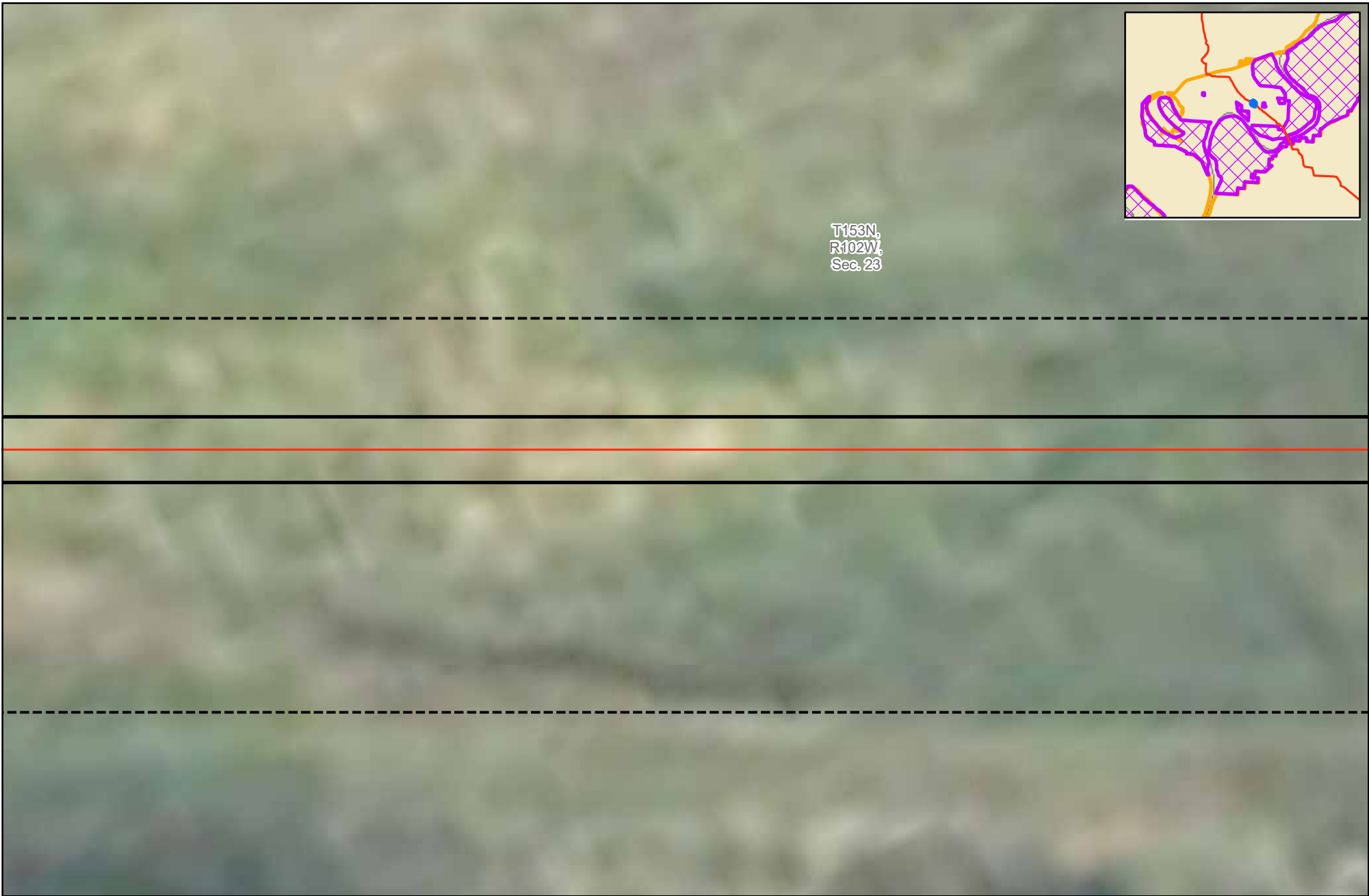
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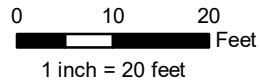
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T153N,
R102W,
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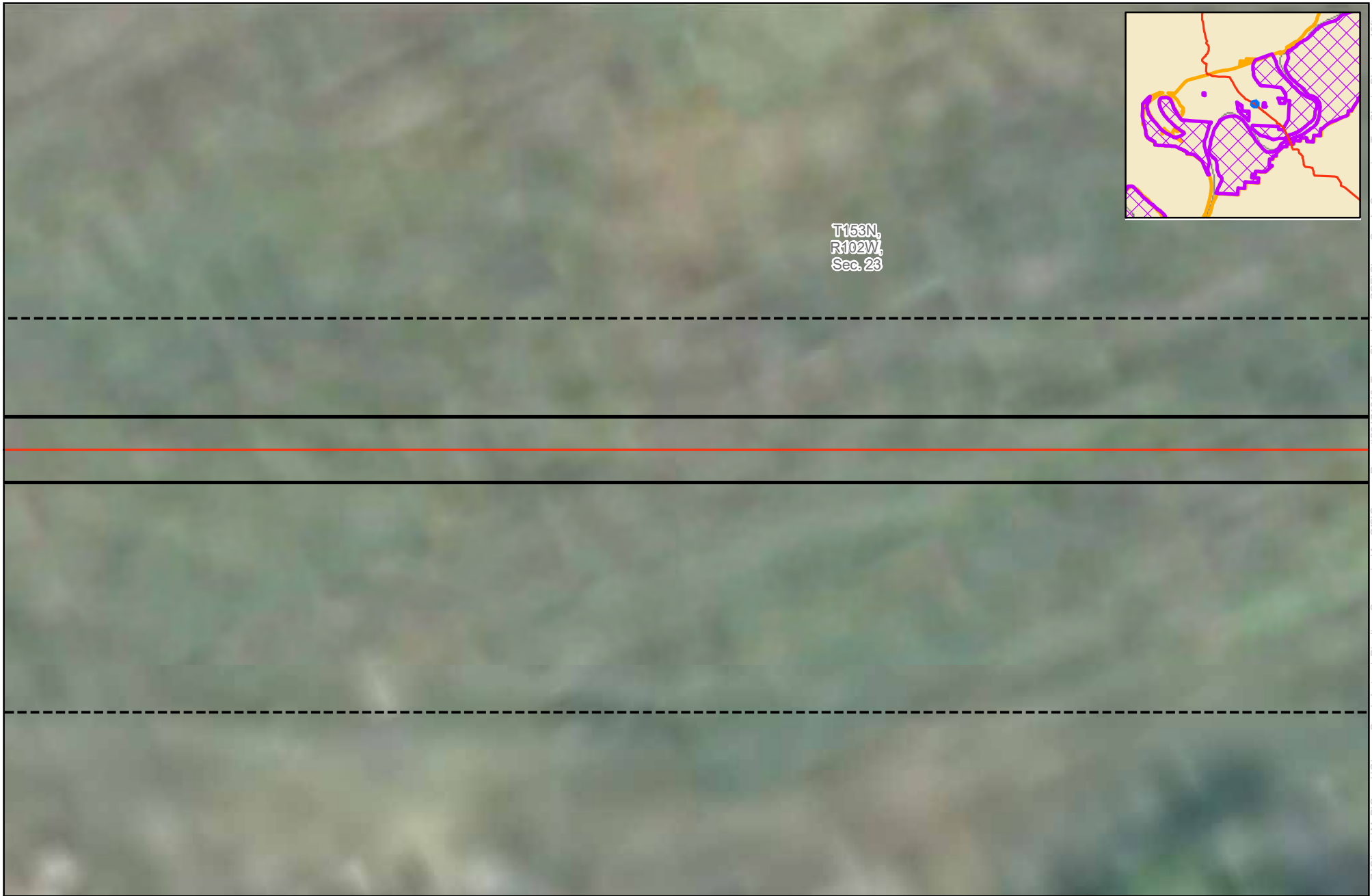
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- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior

Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/28/2017)



T153N,
R102W,
Sec. 23

0 10 20 Feet
1 inch = 20 feet



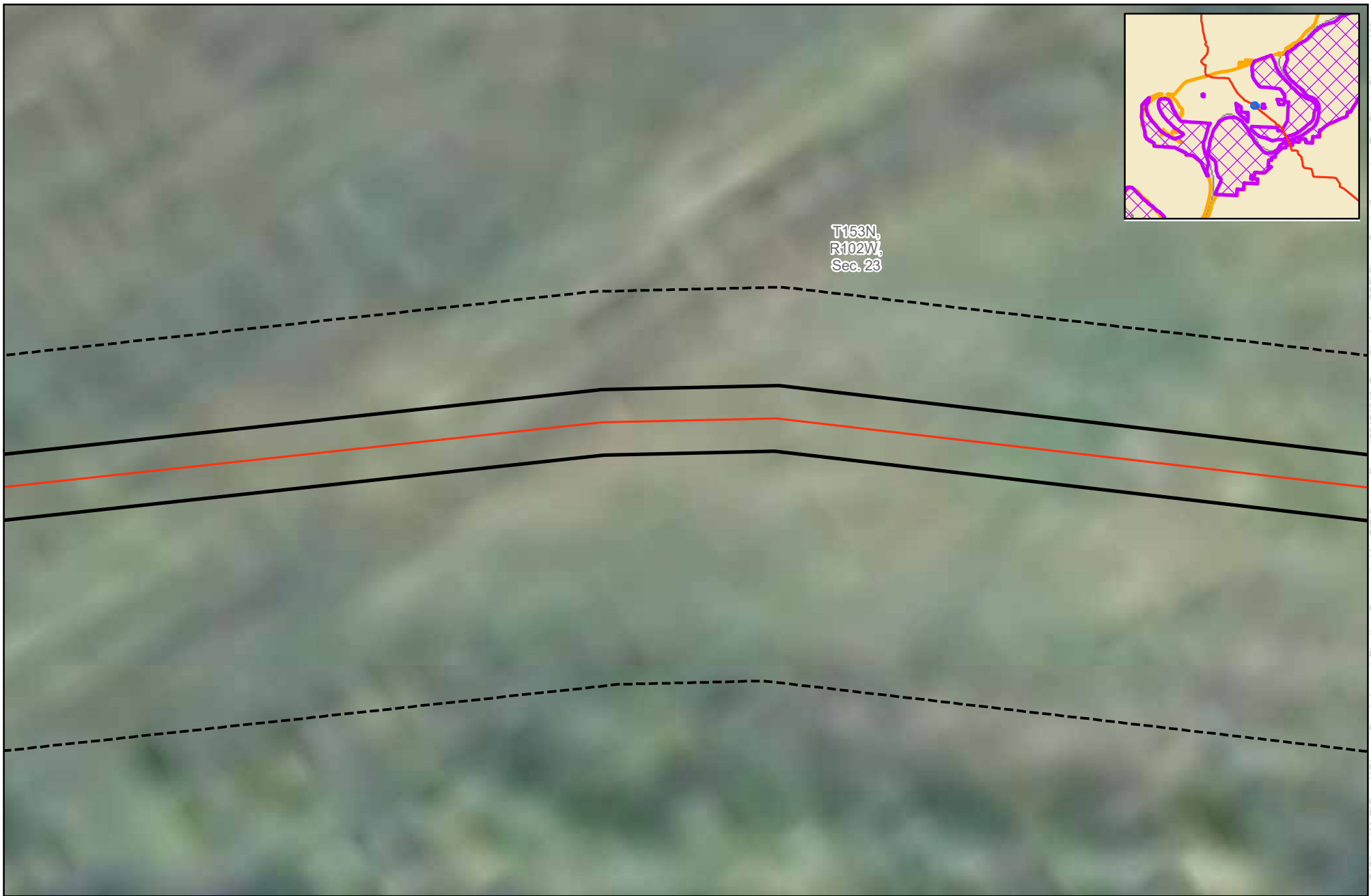
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

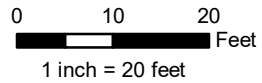
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T153N,
R102W,
Sec. 23



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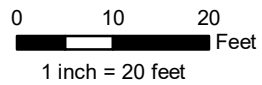
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T153N,
R102W,
Sec. 23



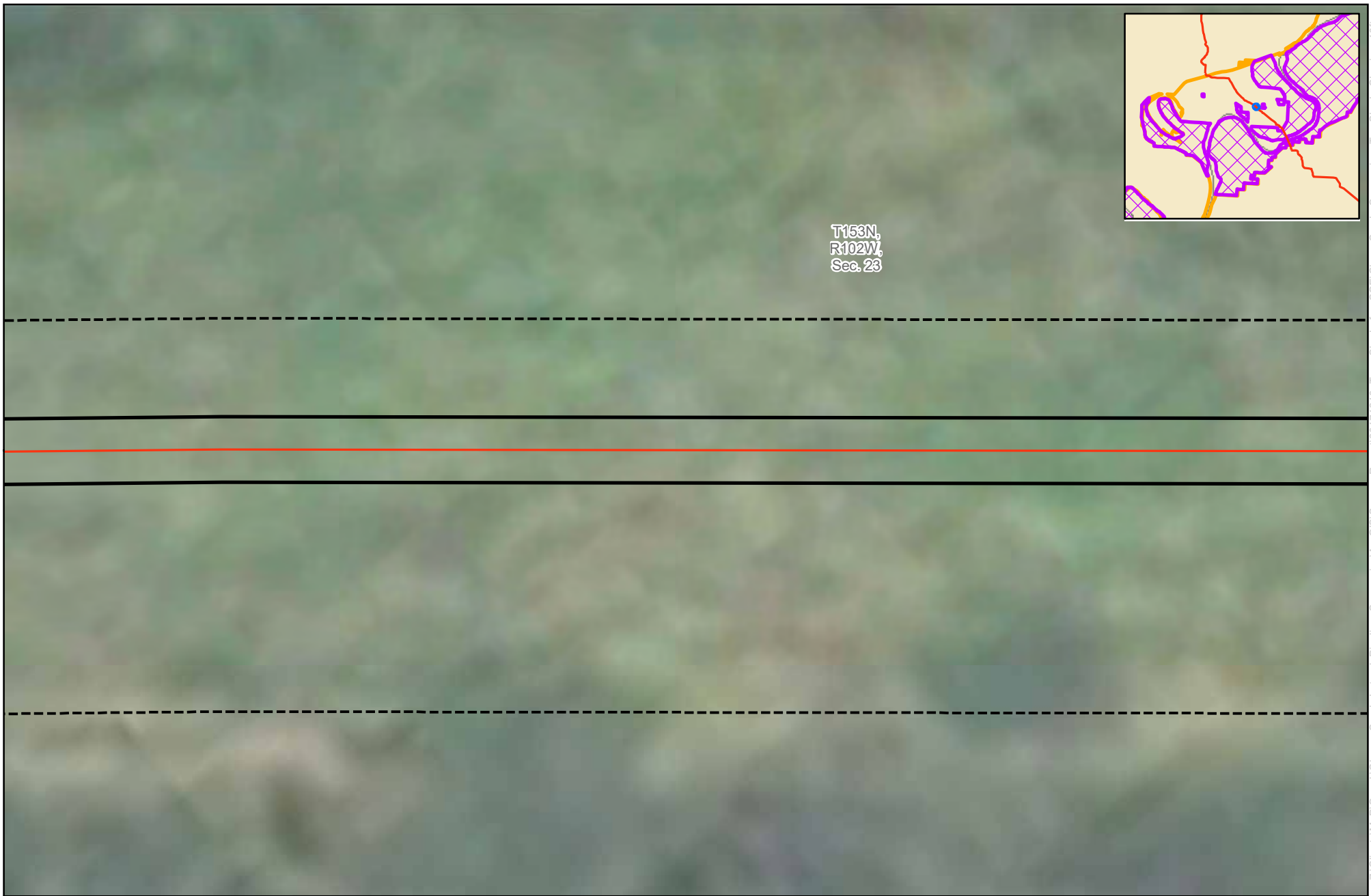
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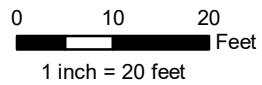
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Date: (12/28/2017) Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd












T153N,
R102W,
Sec. 23



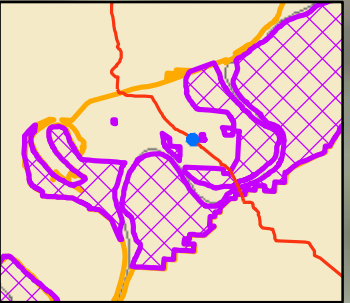
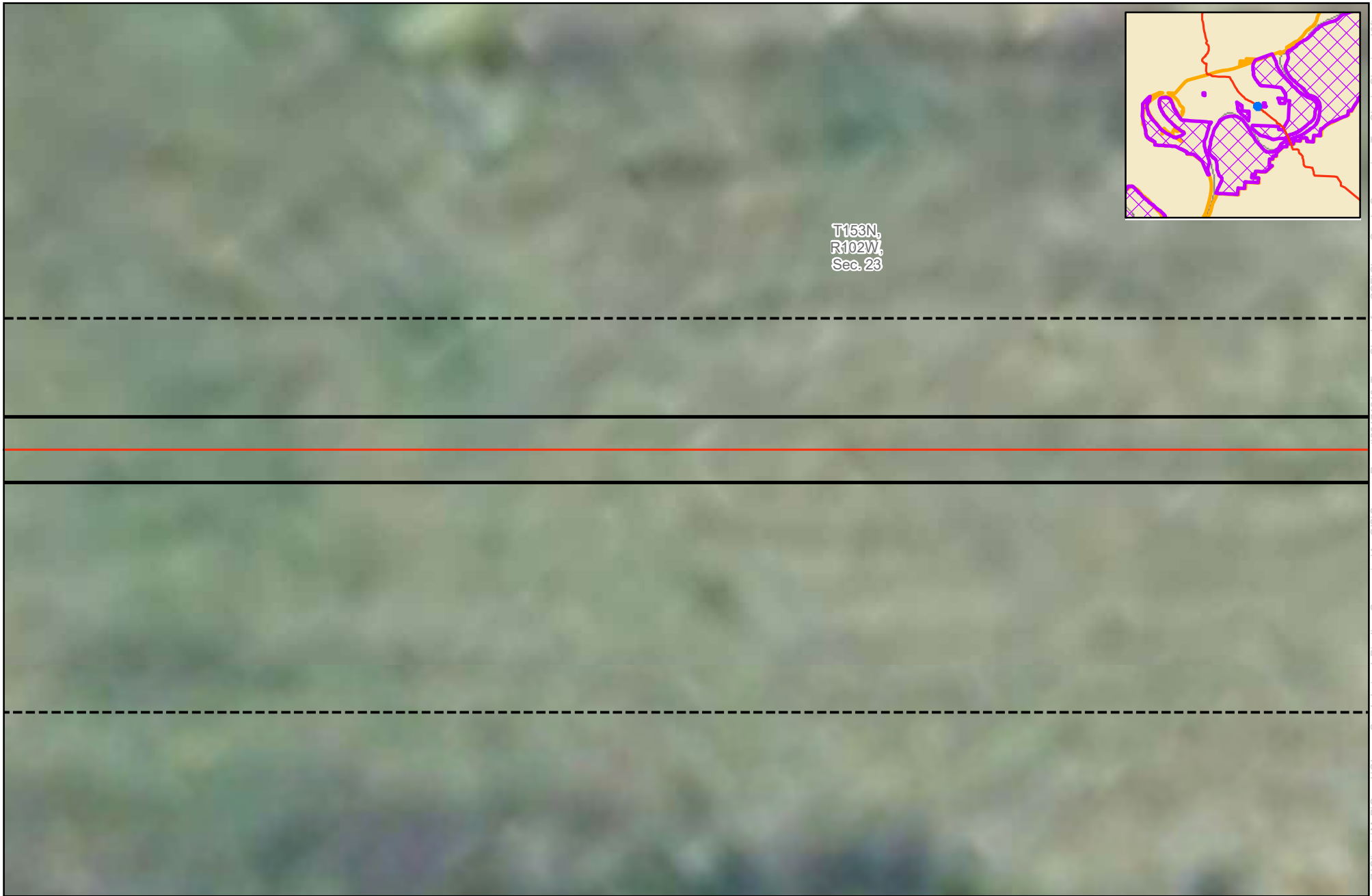
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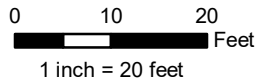
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T153N,
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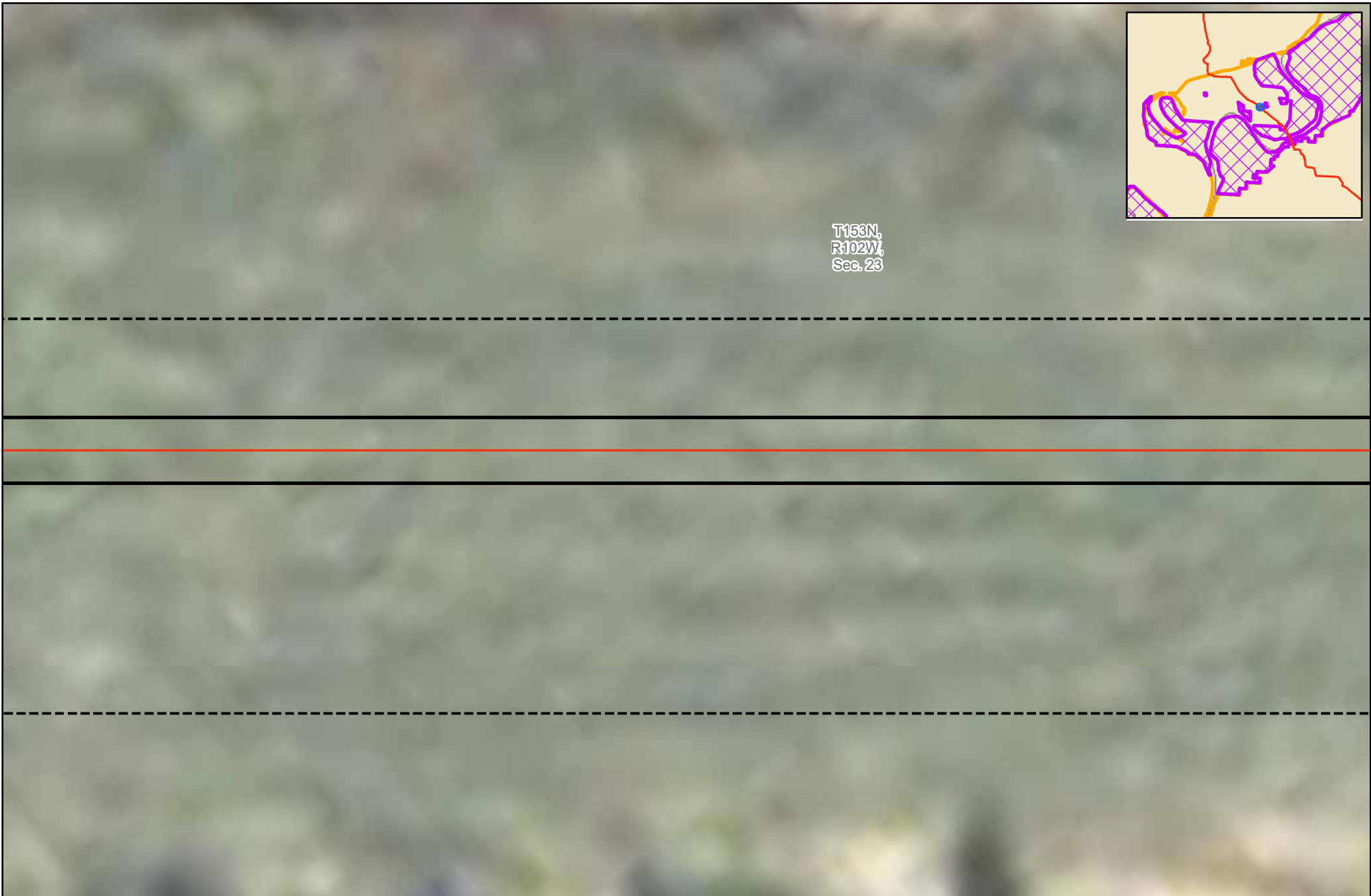
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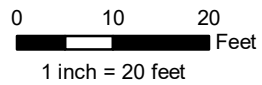
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T153N,
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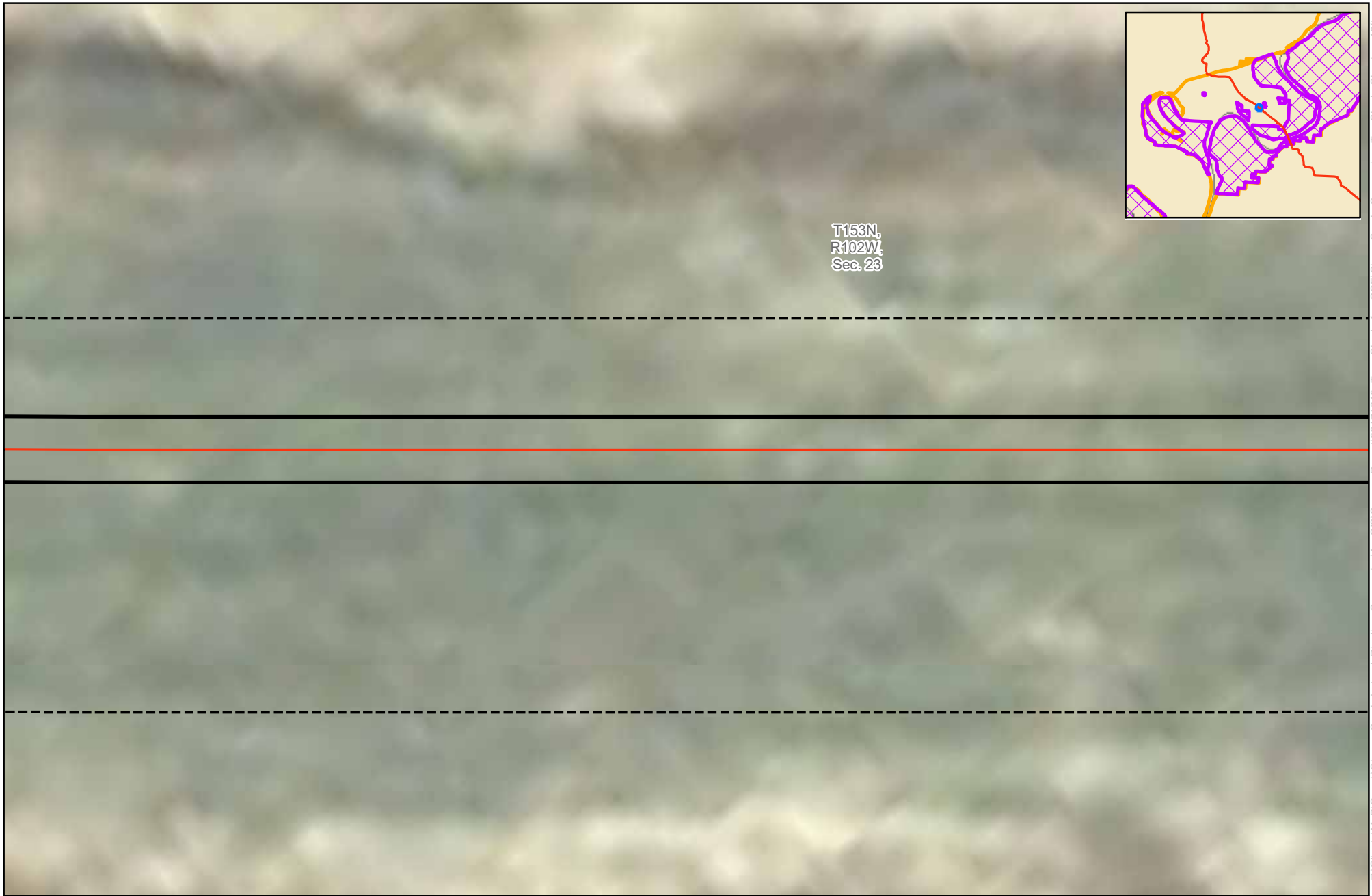


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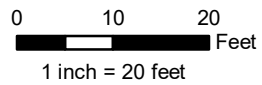
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T153N,
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Sec. 23



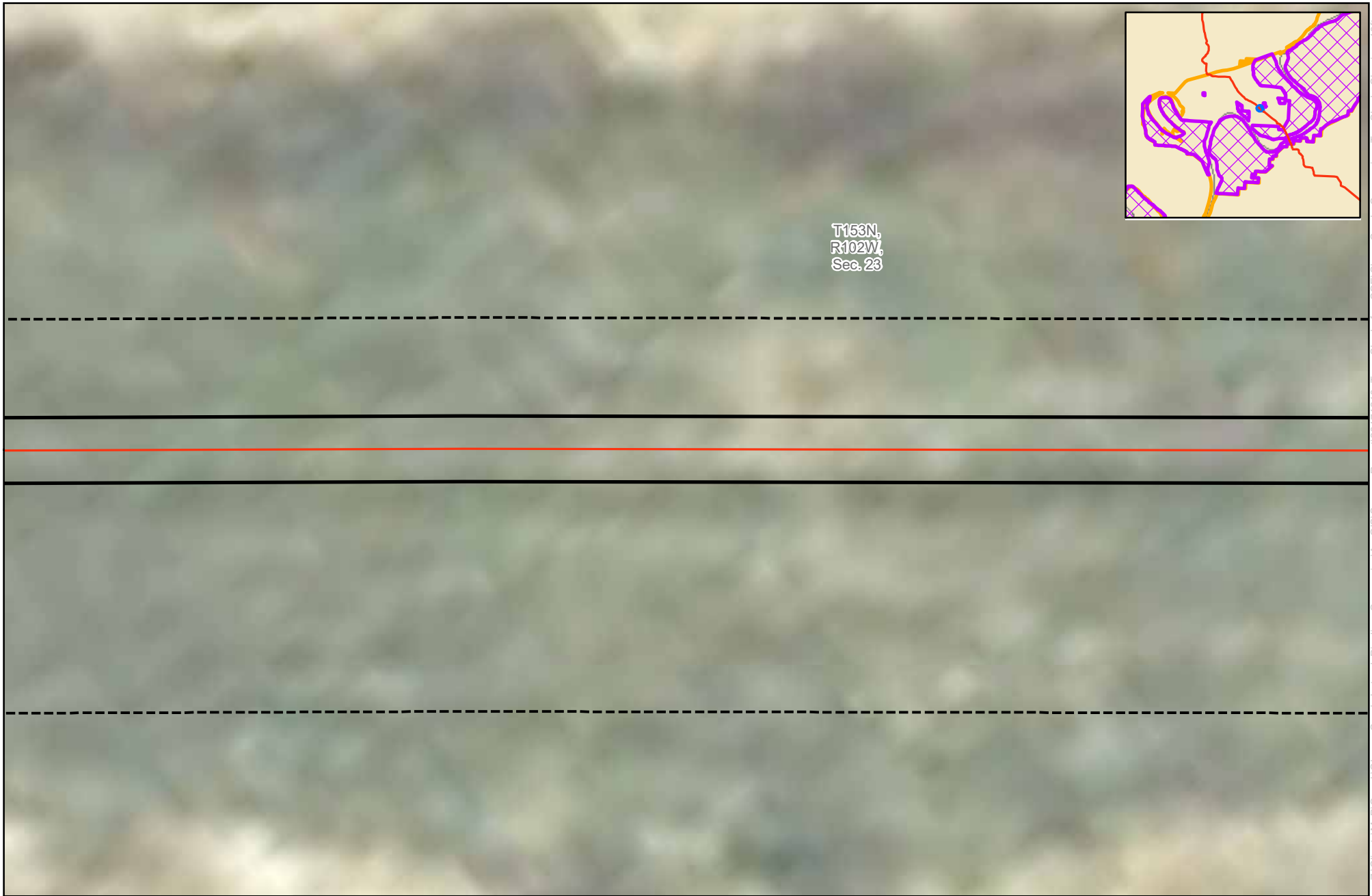
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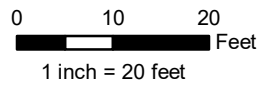
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T153N,
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Sec. 23



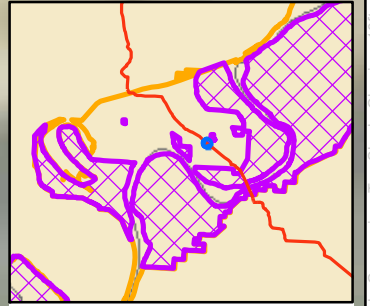
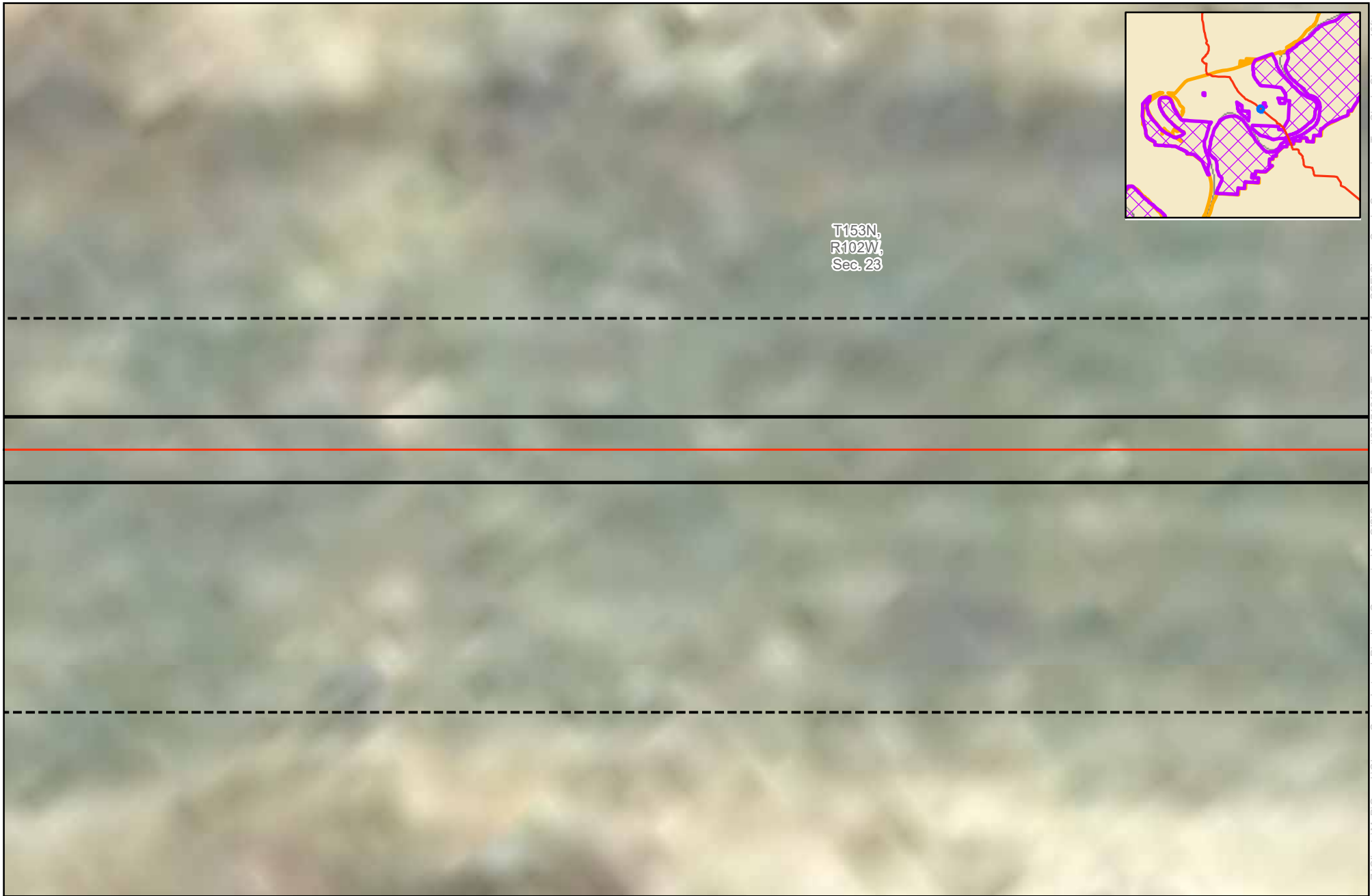
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T153N,
R102W,
Sec. 23

0 10 20 Feet
1 inch = 20 feet



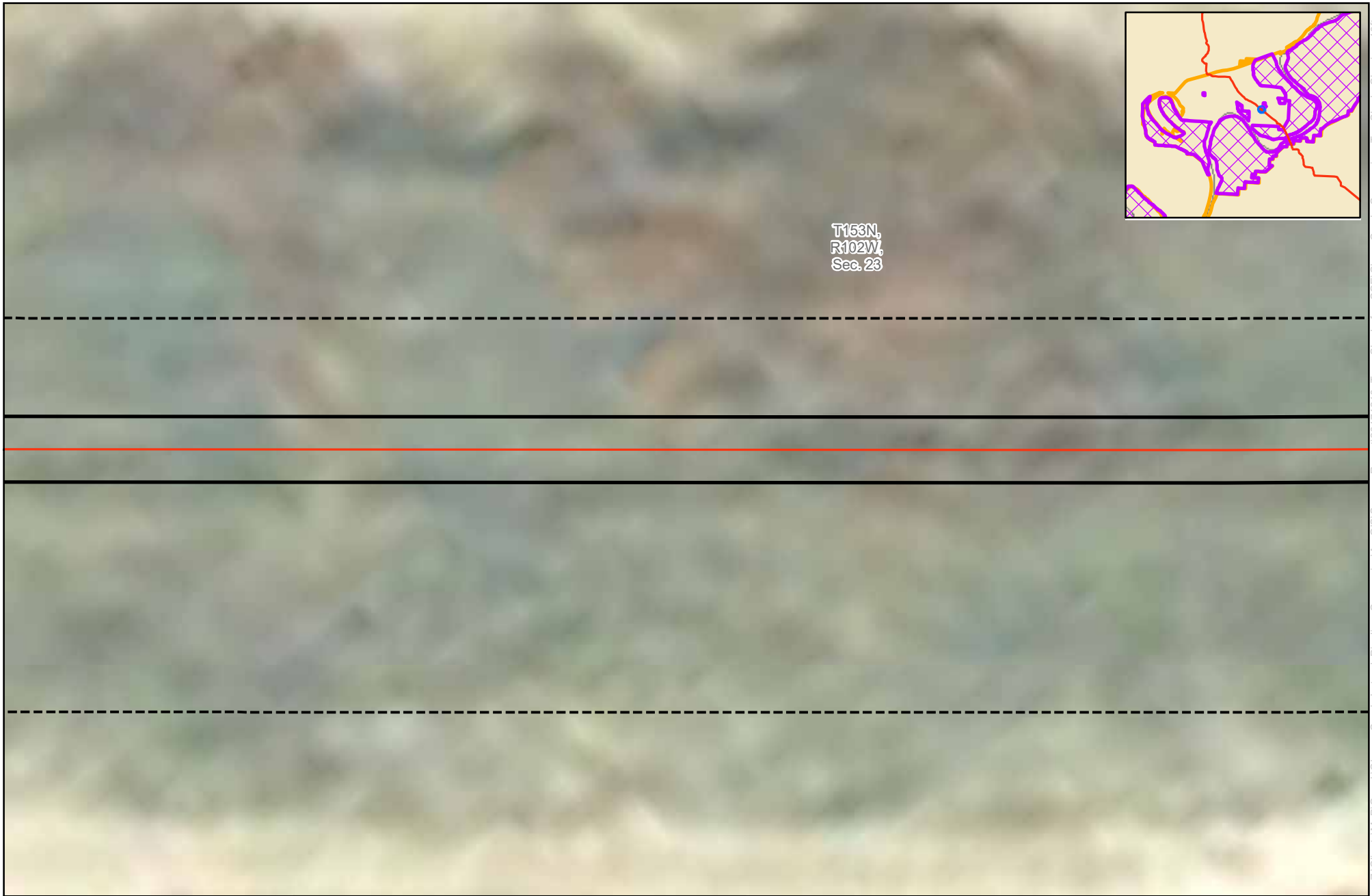
ONEOK
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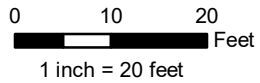
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T153N,
R102W,
Sec. 23



**ONEOK
12" Cherry Creek Lateral
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Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

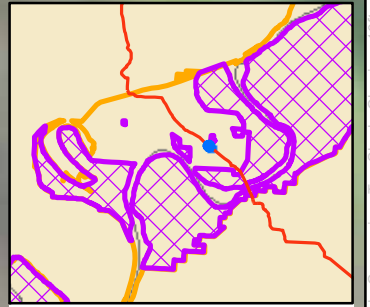
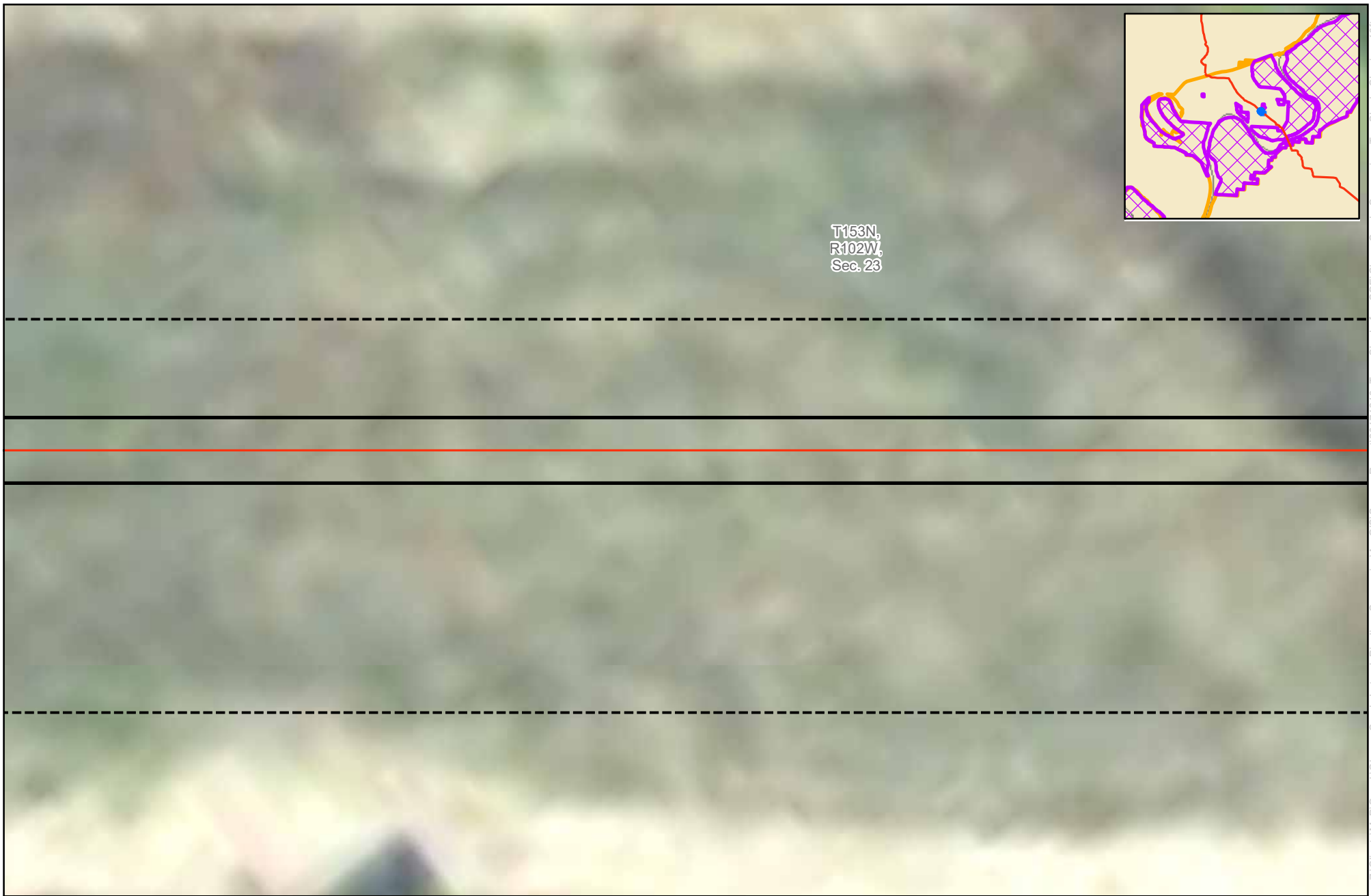
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-  Salix fragilis
-  Salix interior



Source: Z:\Clients\W\P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/20/2017)



T153N,
R102W,
Sec. 23

0 10 20 Feet
1 inch = 20 feet

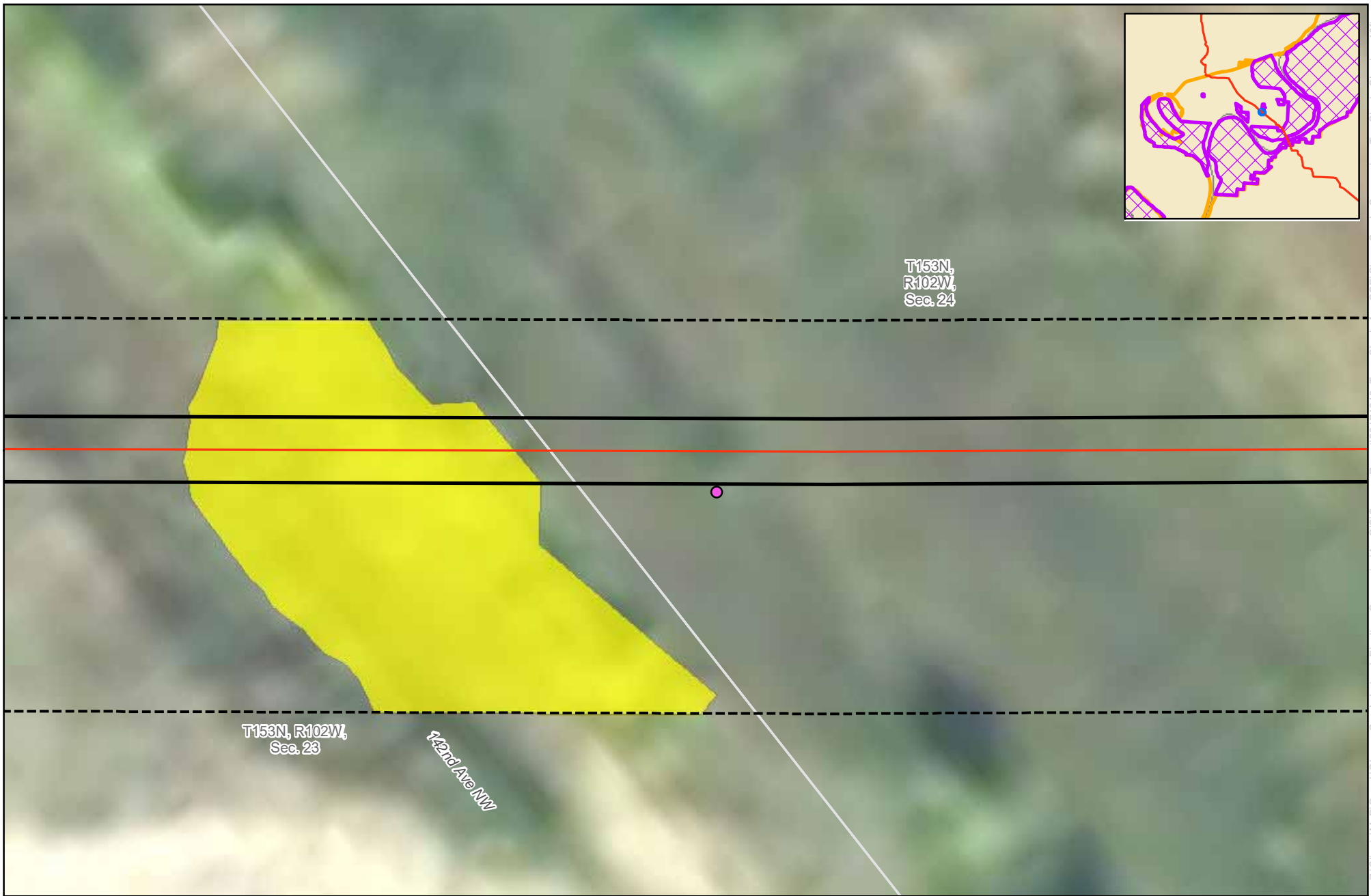


ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

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- Salix interior



0 10 20 Feet
1 inch = 20 feet

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Page 73 of 119

ONEOK
12" Cherry Creek Lateral Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

Project Centerline	Clump Count	<i>Elaeagnus angustifolia</i>
60ft-Wide Easement	<i>Salix interior</i>	<i>Fraxinus pennsylvanica</i>
10ft-Wide Corridor	<i>Symphoricarpos occidentalis</i>	<i>Populus deltoides</i>
Section Boundary	Individual Count	<i>Salix fragilis</i>
ND Game and Fish Land	<i>Acer negundo</i>	<i>Salix interior</i>
USACE Lands	<i>Crataegus chrysoarpa</i>	

Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\1216_Tree_Shrub_or_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/20/2017)



T153N,
R102W,
Sec. 24

0 10 20 Feet
1 inch = 20 feet



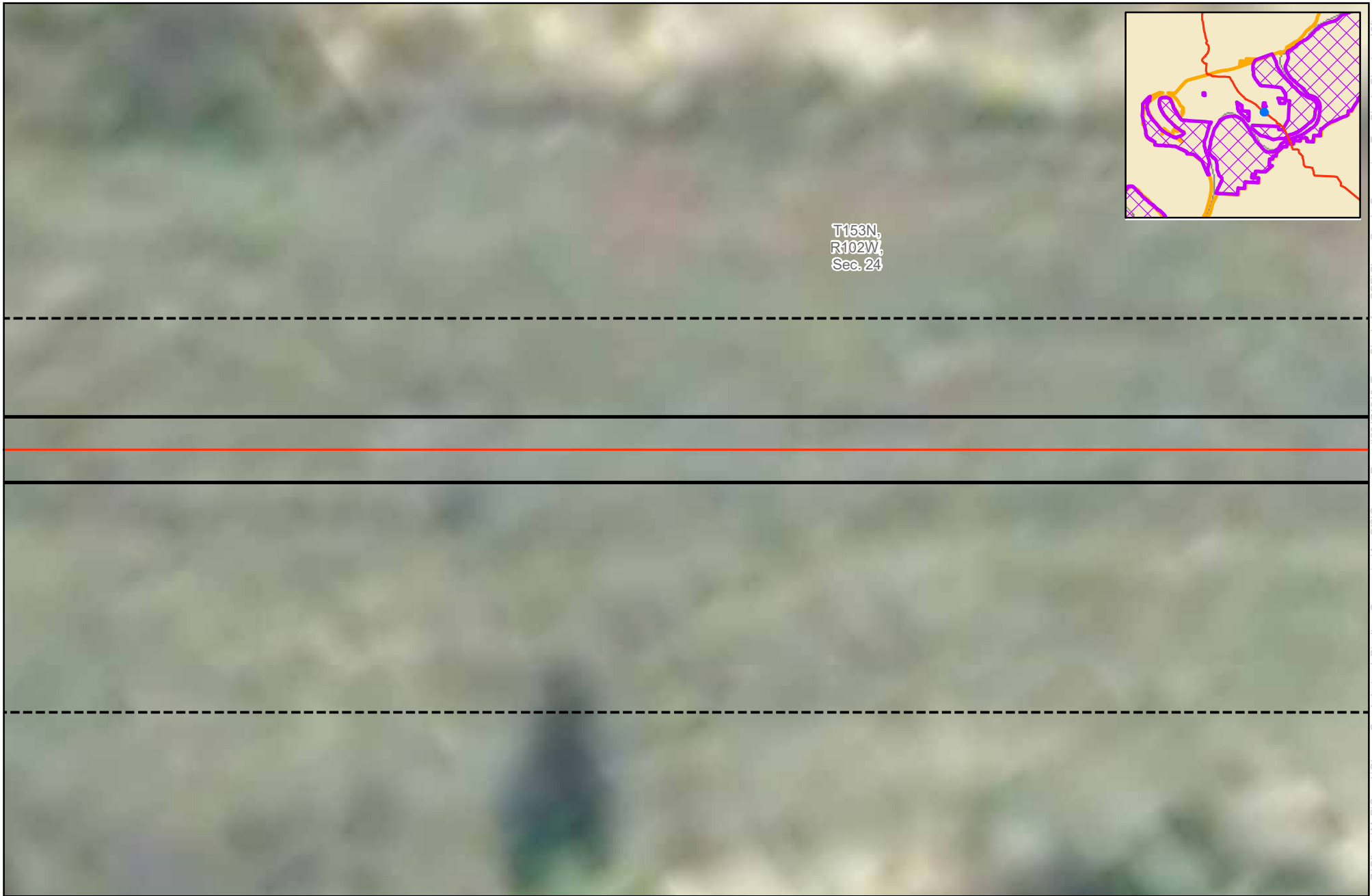
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
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T153N,
R102W,
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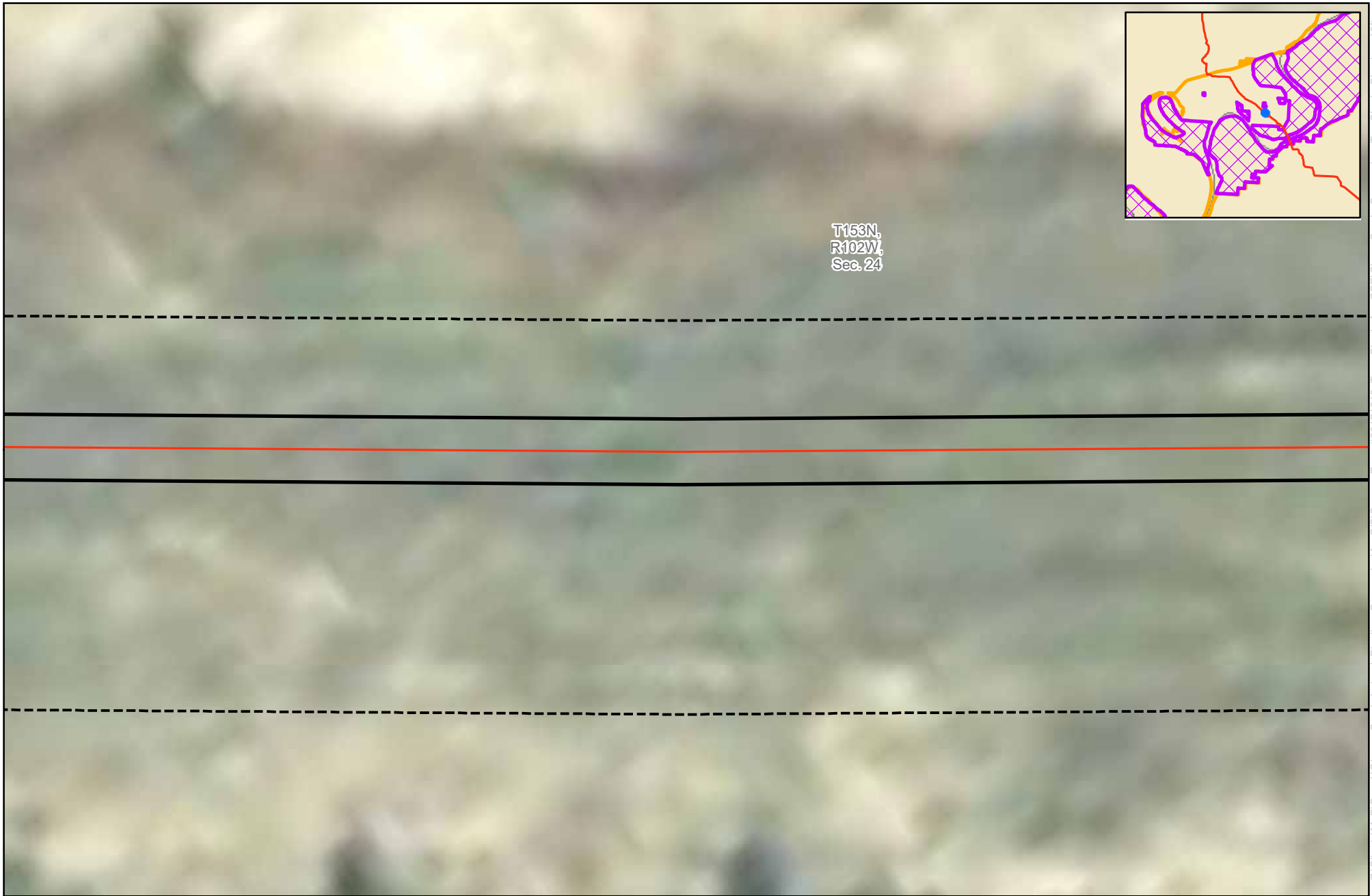
ONEOK
12" Cherry Creek Lateral
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Tree / Vegetation Replacement Proposal
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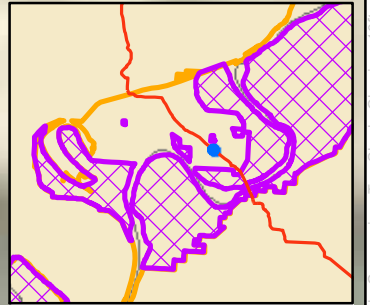
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T153N,
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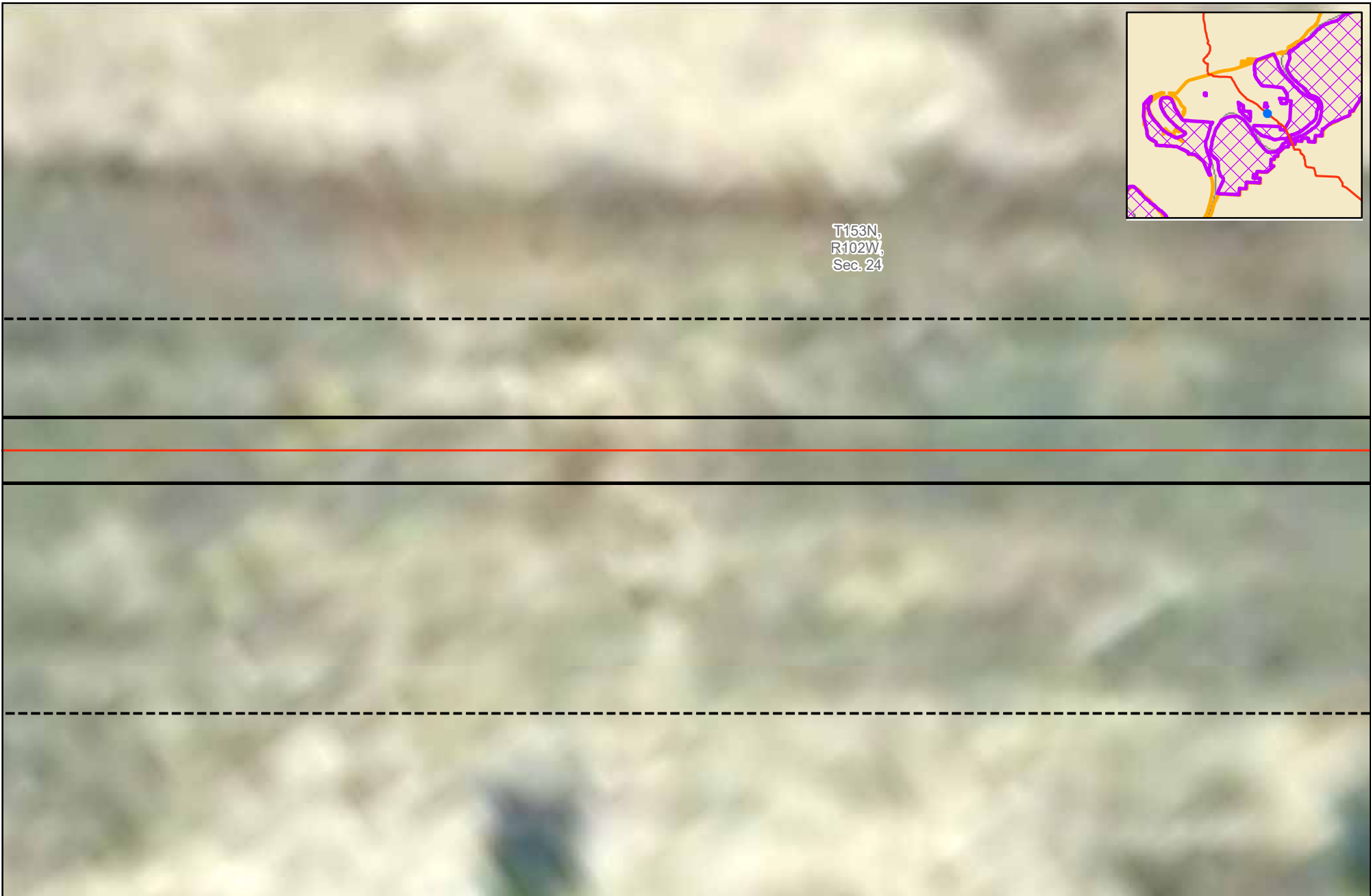
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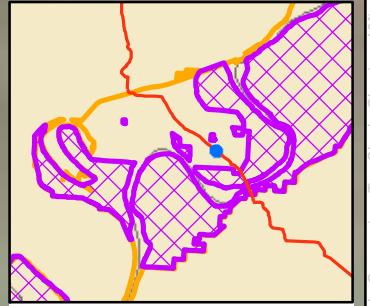
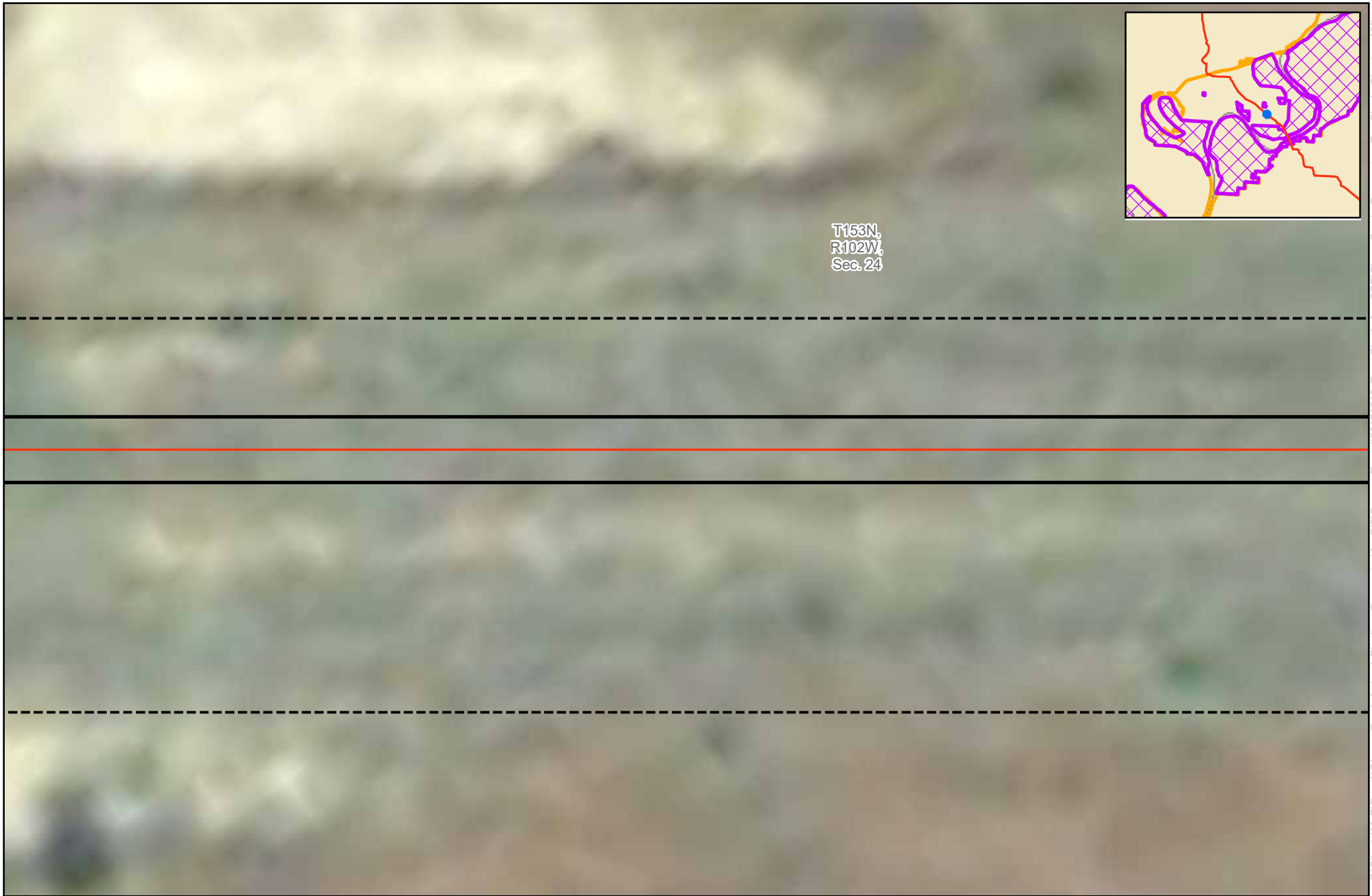


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McKenzie and Williams Counties, ND

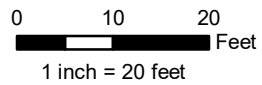
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T153N,
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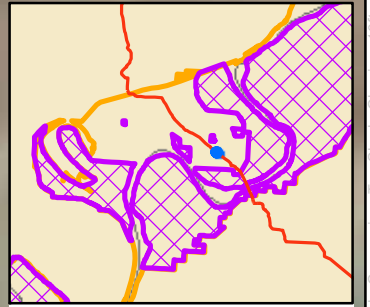
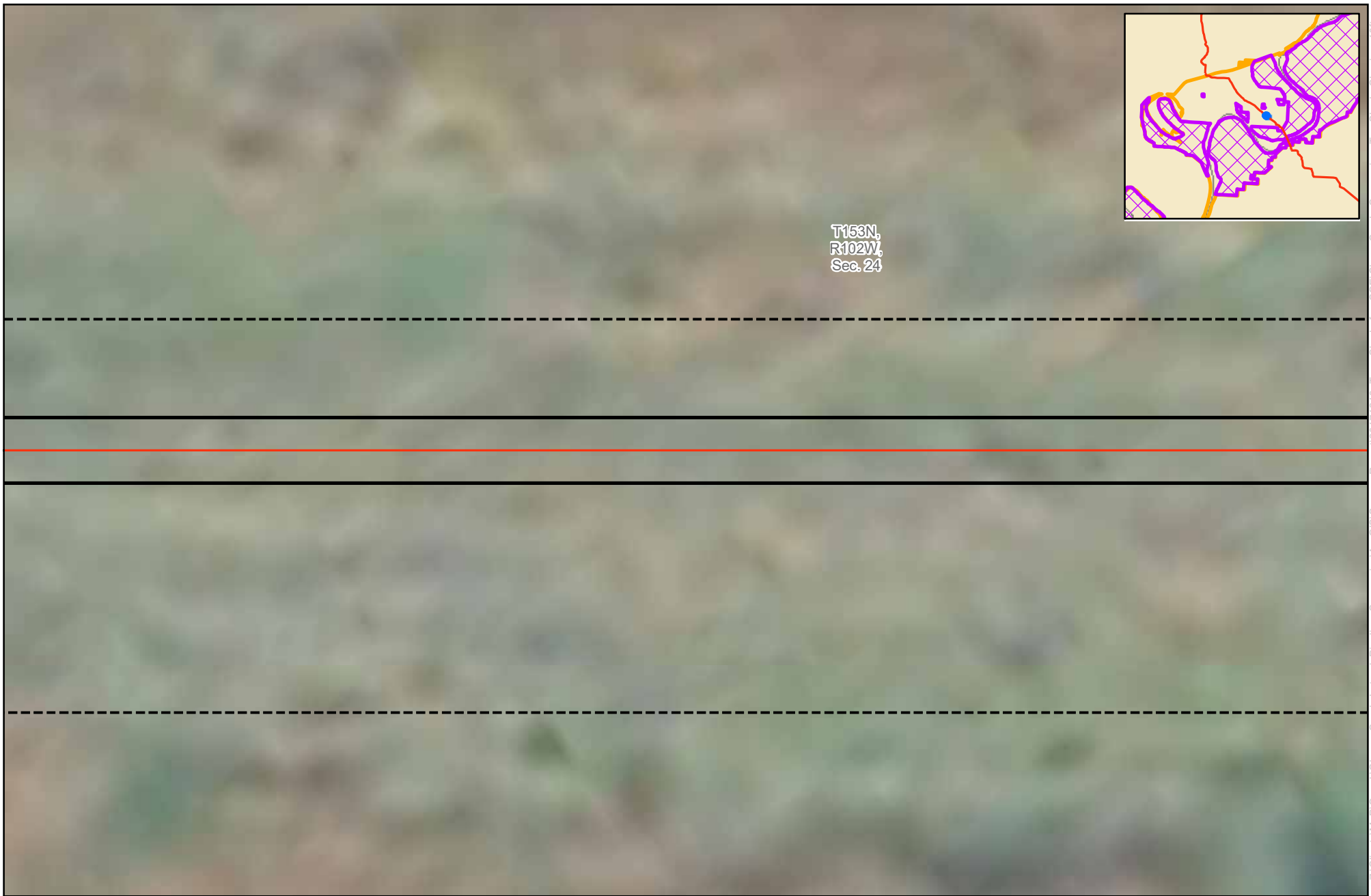


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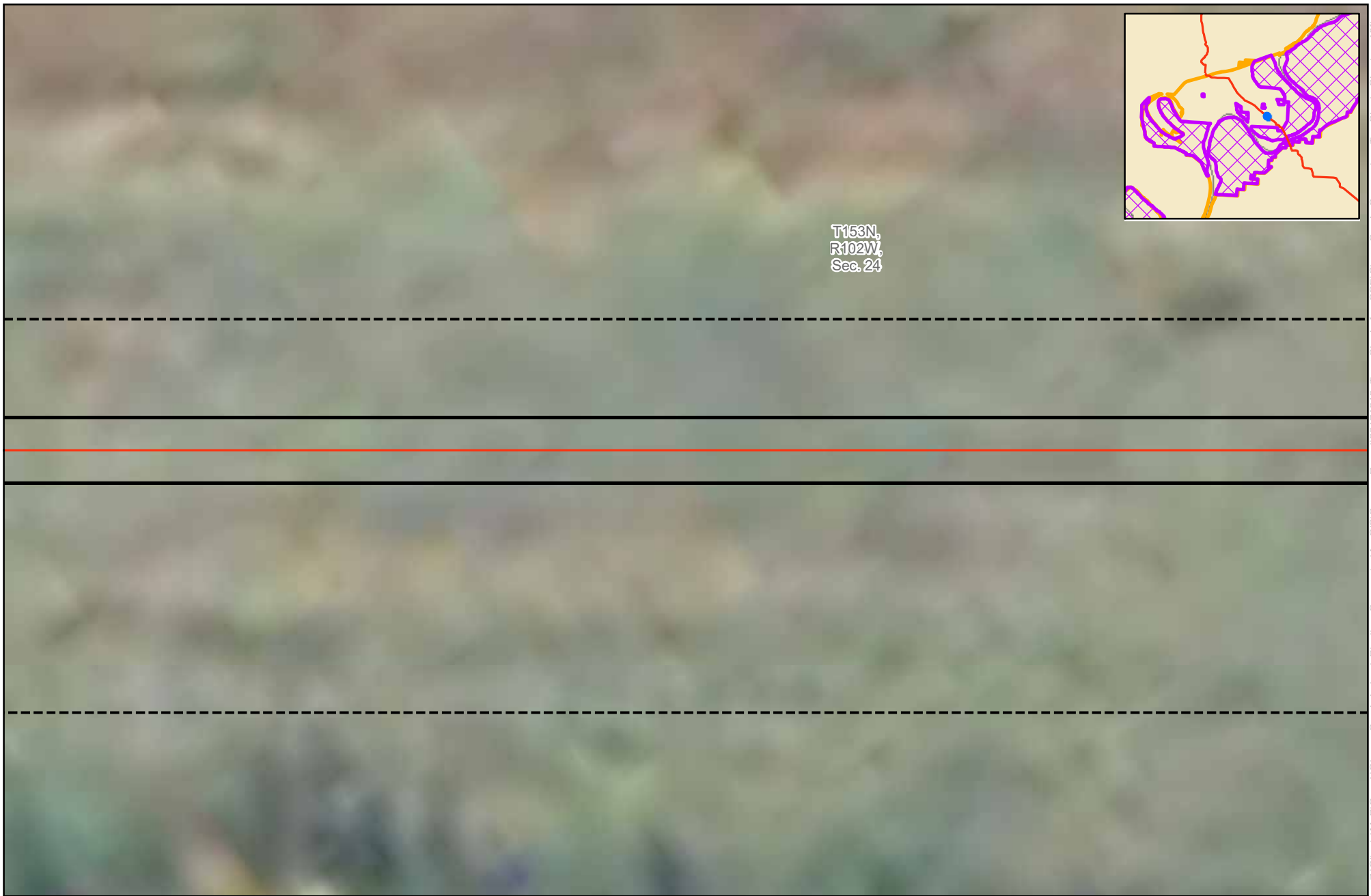
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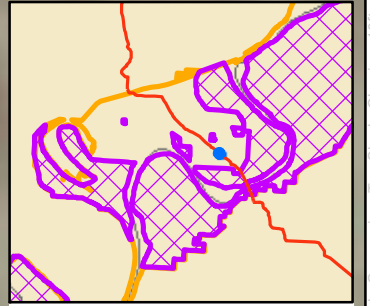
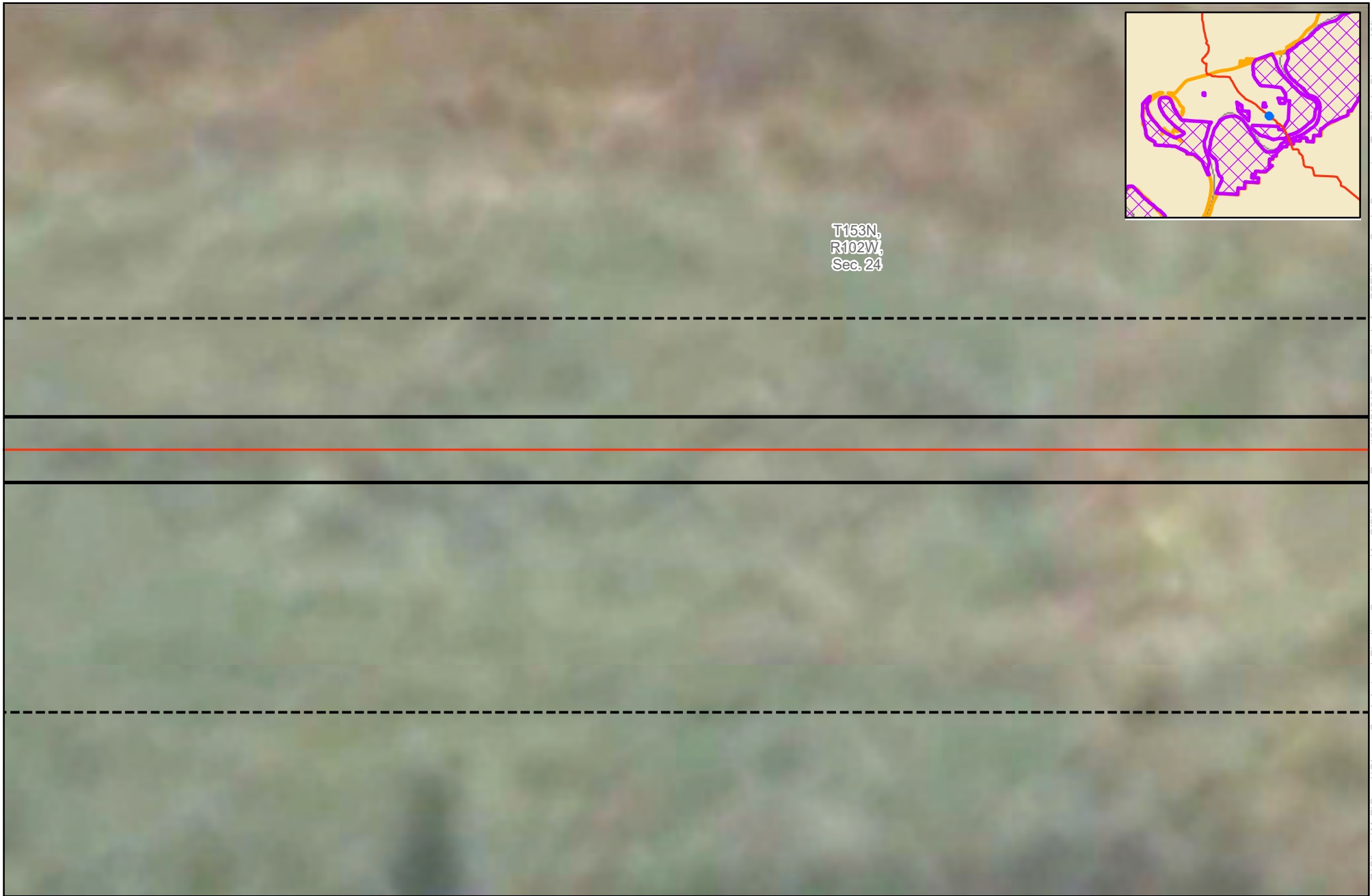


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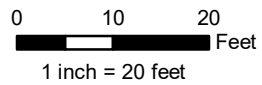
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T153N,
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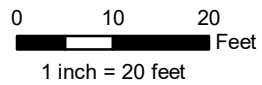
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T153N,
R102W,
Sec. 24



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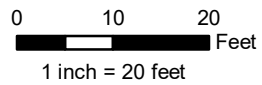
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T153N,
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Sec. 24



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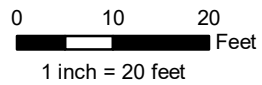
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- Individual Count**
-  Acer negundo
 -  Crataegus chrysoarpa

-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior



















T153N,
R102W,
Sec. 24



**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

-  Project Centerline
-  60ft-Wide Easement
-  10ft-Wide Corridor
-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

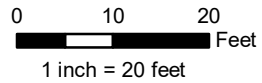
- Clump Count**
-  Salix interior
 -  Symphoricarpos occidentalis
- Individual Count**
-  Acer negundo
 -  Crataegus chrysoarpa

-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior





T153N,
R102W,
Sec. 24



**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

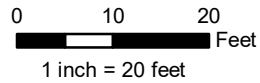
- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior



T153N,
R102W,
Sec. 24



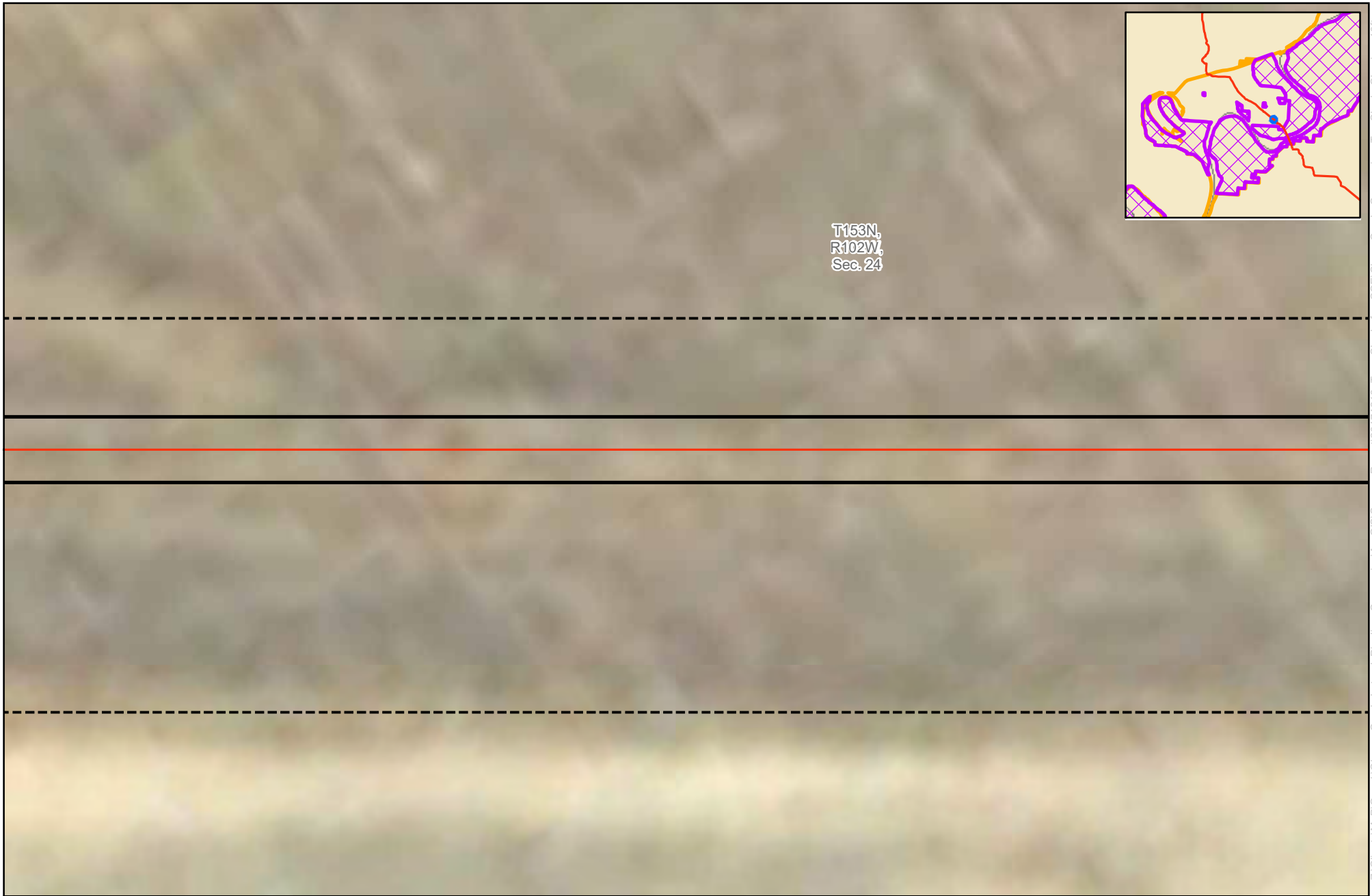
**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

- Project Centerline
- 60ft-Wide Easement
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- ND Game and Fish Land
- USACE Lands

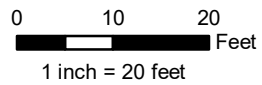
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior


















T153N,
R102W,
Sec. 24



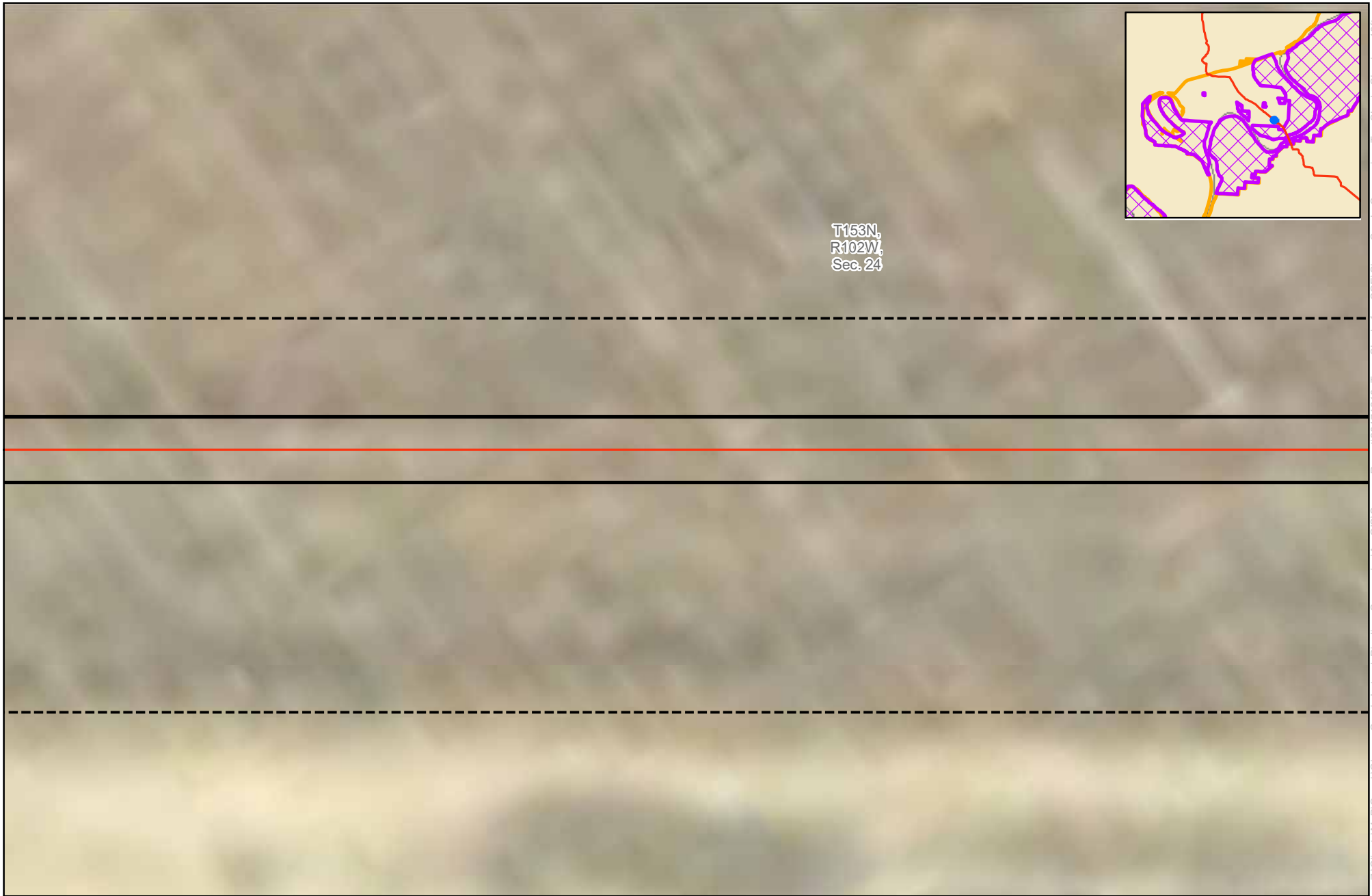
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

-  Project Centerline
-  60ft-Wide Easement
-  10ft-Wide Corridor
-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

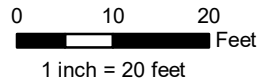
- Clump Count**
-  Salix interior
 -  Symphoricarpos occidentalis
- Individual Count**
-  Acer negundo
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T153N,
R102W,
Sec. 24



**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

-  Project Centerline
-  60ft-Wide Easement
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-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

- Clump Count**
-  Salix interior
 -  Symphoricarpos occidentalis
- Individual Count**
-  Acer negundo
 -  Crataegus chrysoarpa

-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior





T153N,
R102W,
Sec. 24

0 10 20 Feet
1 inch = 20 feet



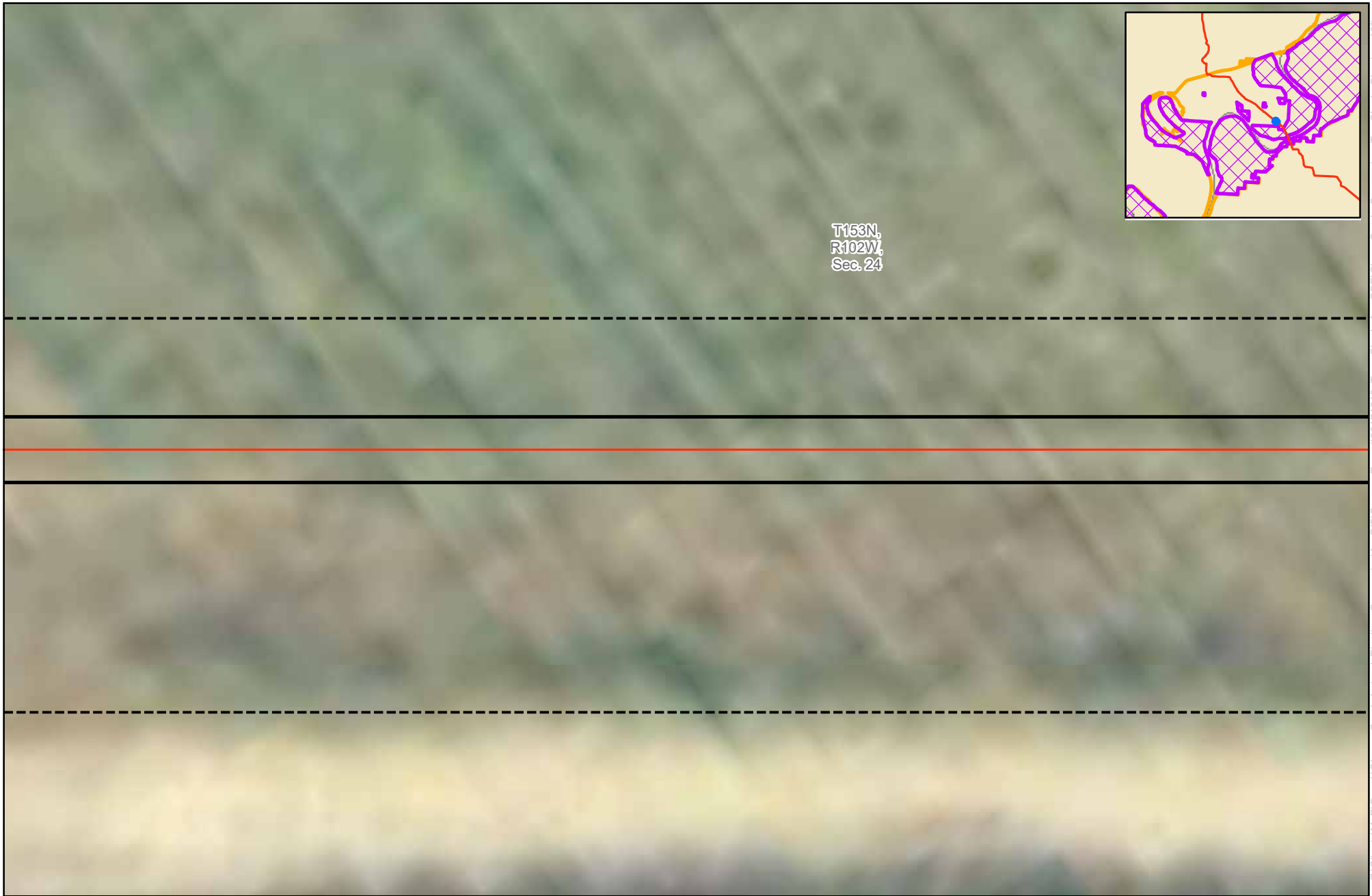
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

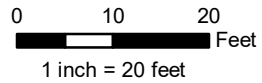
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior




















T153N,
R102W,
Sec. 24



**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

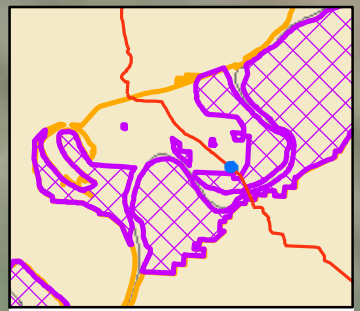
-  Project Centerline
-  60ft-Wide Easement
-  10ft-Wide Corridor
-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

- Clump Count**
-  Salix interior
 -  Symphoricarpos occidentalis
- Individual Count**
-  Acer negundo
 -  Crataegus chrysoarpa

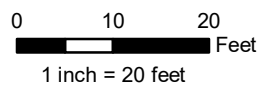
-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior



Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/28/2017)



T153N,
R102W,
Sec. 24



**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

- | | | |
|-----------------------|------------------------------------|-------------------------------|
| Project Centerline | Clump Count | <i>Elaeagnus angustifolia</i> |
| 60ft-Wide Easement | <i>Salix interior</i> | <i>Fraxinus pennsylvanica</i> |
| 10ft-Wide Corridor | <i>Symphoricarpos occidentalis</i> | <i>Populus deltoides</i> |
| Section Boundary | Individual Count | <i>Salix fragilis</i> |
| ND Game and Fish Land | <i>Acer negundo</i> | <i>Salix interior</i> |
| USACE Lands | <i>Crataegus chrysoarpa</i> | |

Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/20/2017)



T153N,
R102W,
Sec. 24

0 10 20 Feet
1 inch = 20 feet



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

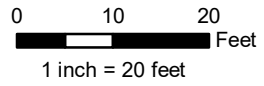
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior

Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



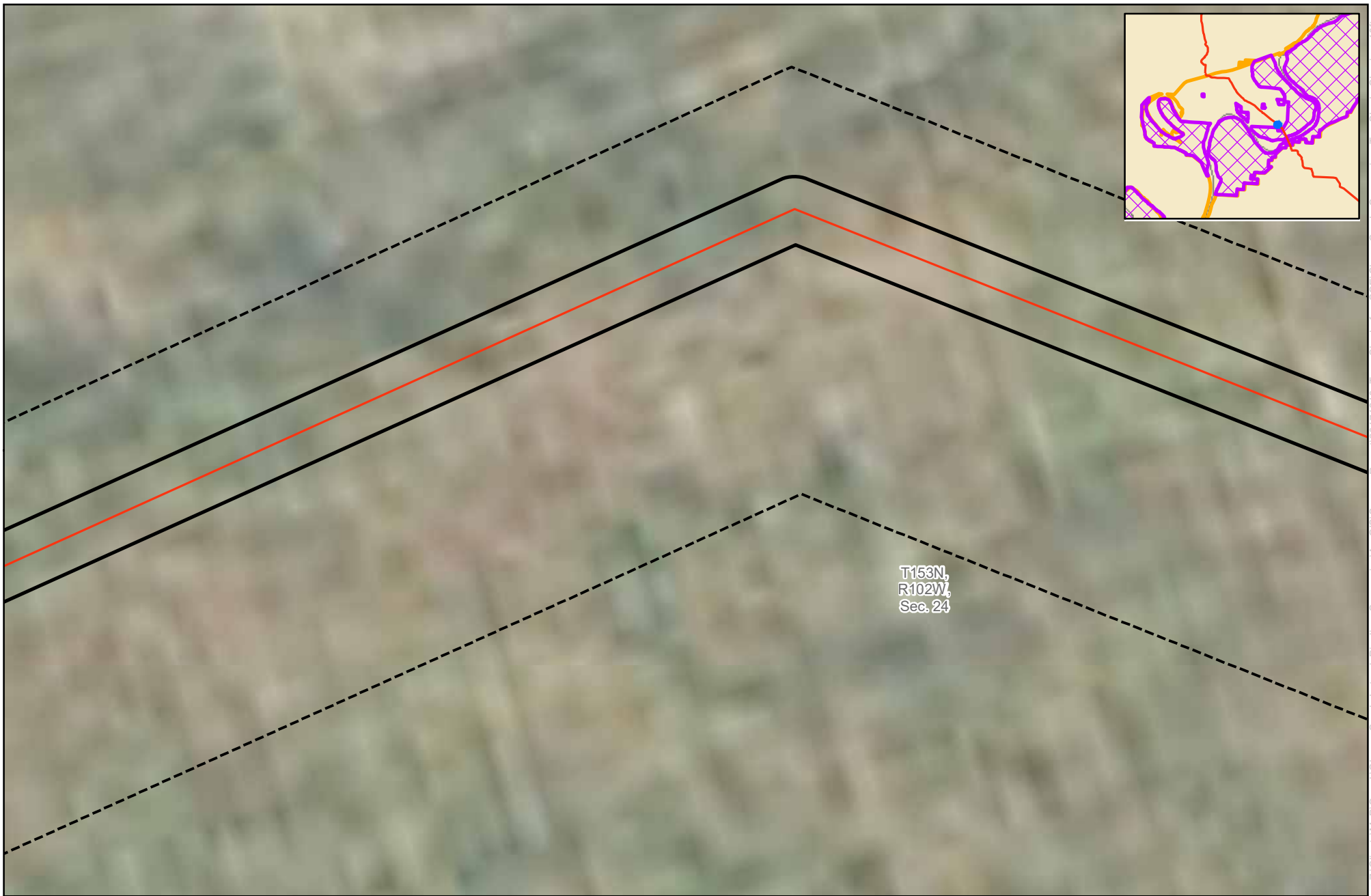
T153N, R102W,
Sec. 24



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- | | | |
|-----------------------|------------------------------------|-------------------------------|
| Project Centerline | Clump Count | <i>Elaeagnus angustifolia</i> |
| 60ft-Wide Easement | <i>Salix interior</i> | <i>Fraxinus pennsylvanica</i> |
| 10ft-Wide Corridor | <i>Symphoricarpos occidentalis</i> | <i>Populus deltoides</i> |
| Section Boundary | Individual Count | <i>Salix fragilis</i> |
| ND Game and Fish Land | <i>Acer negundo</i> | <i>Salix interior</i> |
| USACE Lands | <i>Crataegus chrysoarpa</i> | |

Date: 12/28/2017 Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



T153N,
R102W,
Sec. 24

0 10 20 Feet
1 inch = 20 feet

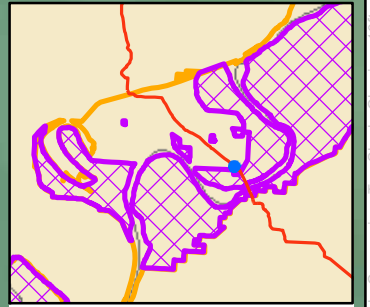
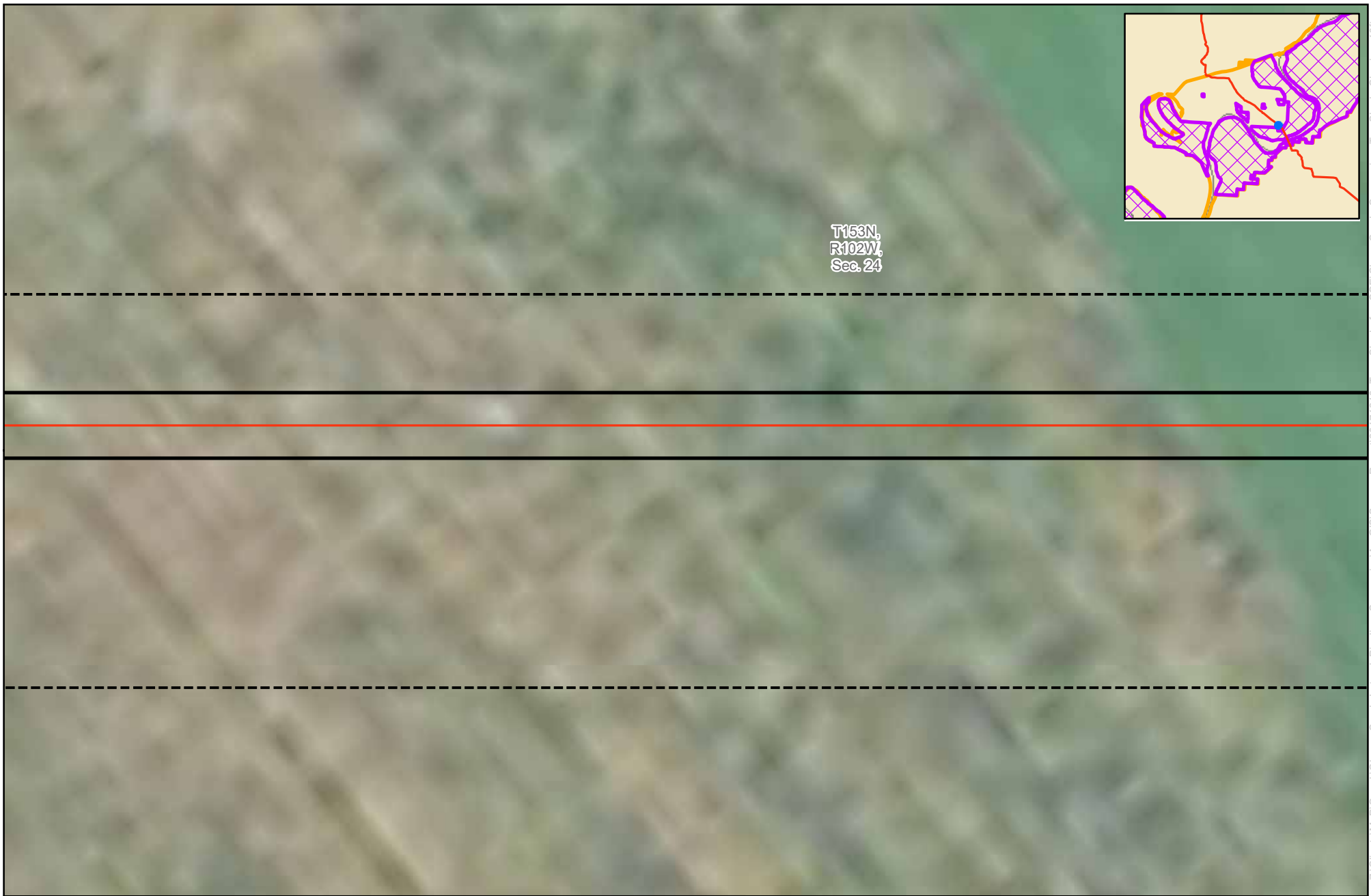
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For Environmental Review Purposes Only

Page 94 of 119

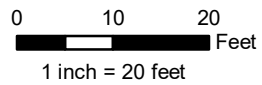
**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

Project Centerline	Clump Count	<i>Elaeagnus angustifolia</i>
60ft-Wide Easement	<i>Salix interior</i>	<i>Fraxinus pennsylvanica</i>
10ft-Wide Corridor	<i>Symphoricarpos occidentalis</i>	<i>Populus deltoides</i>
Section Boundary	Individual Count	<i>Salix fragilis</i>
ND Game and Fish Land	<i>Acer negundo</i>	<i>Salix interior</i>
USACE Lands	<i>Crataegus chrysoarpa</i>	







Date: (12/20/17) Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd












T153N,
R102W,
Sec. 24



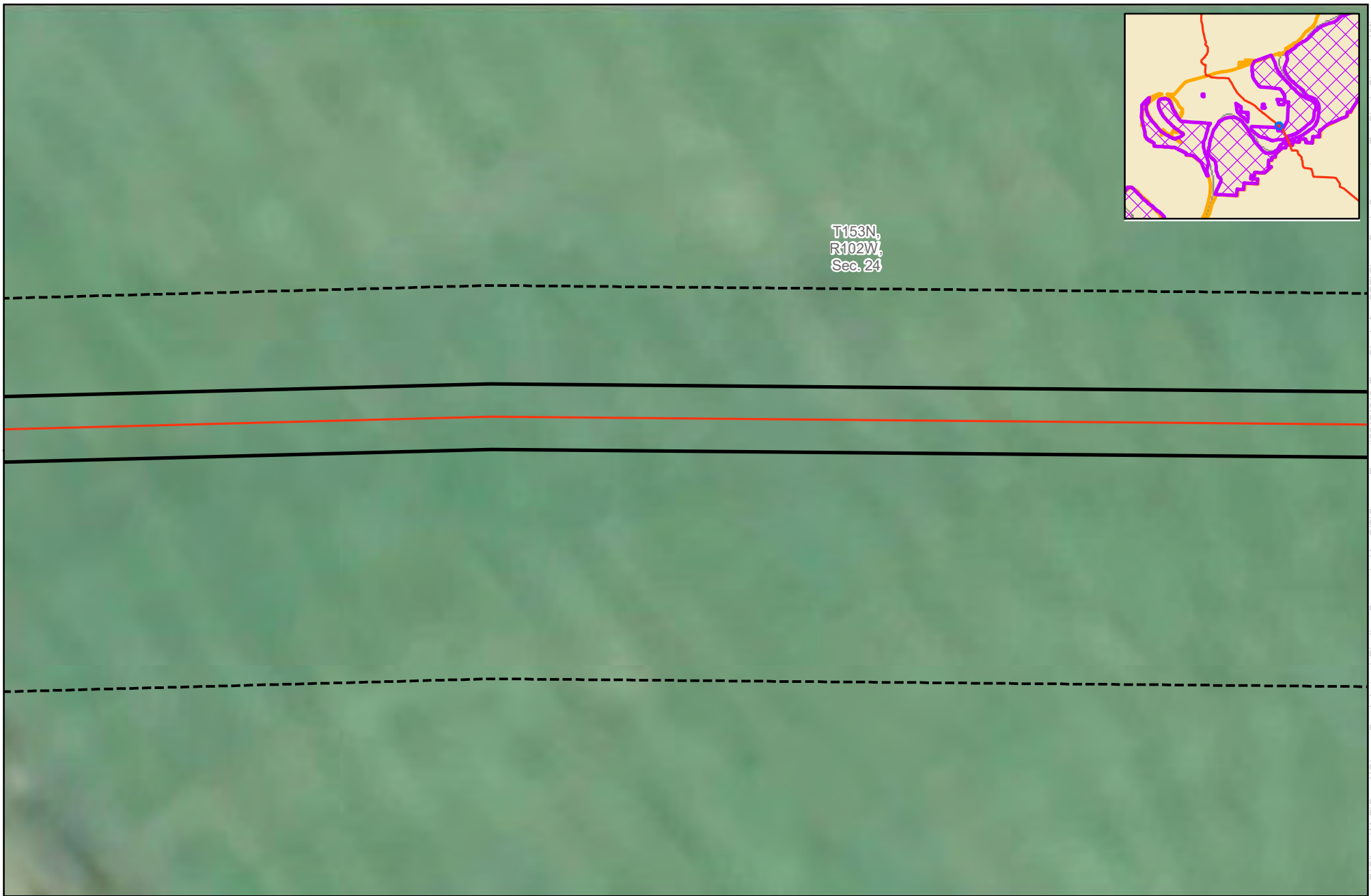
**ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
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-  Project Centerline
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-  10ft-Wide Corridor
-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

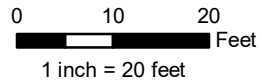
- Clump Count**
-  Salix interior
 -  Symphoricarpos occidentalis
- Individual Count**
-  Acer negundo
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-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior




















T153N,
R102W,
Sec. 24



ONEOK
12" Cherry Creek Lateral
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Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

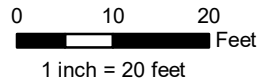
-  Project Centerline
-  60ft-Wide Easement
-  10ft-Wide Corridor
-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

- Clump Count**
-  Salix interior
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- Individual Count**
-  Acer negundo
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-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior



T153N,
R102W,
Sec. 24

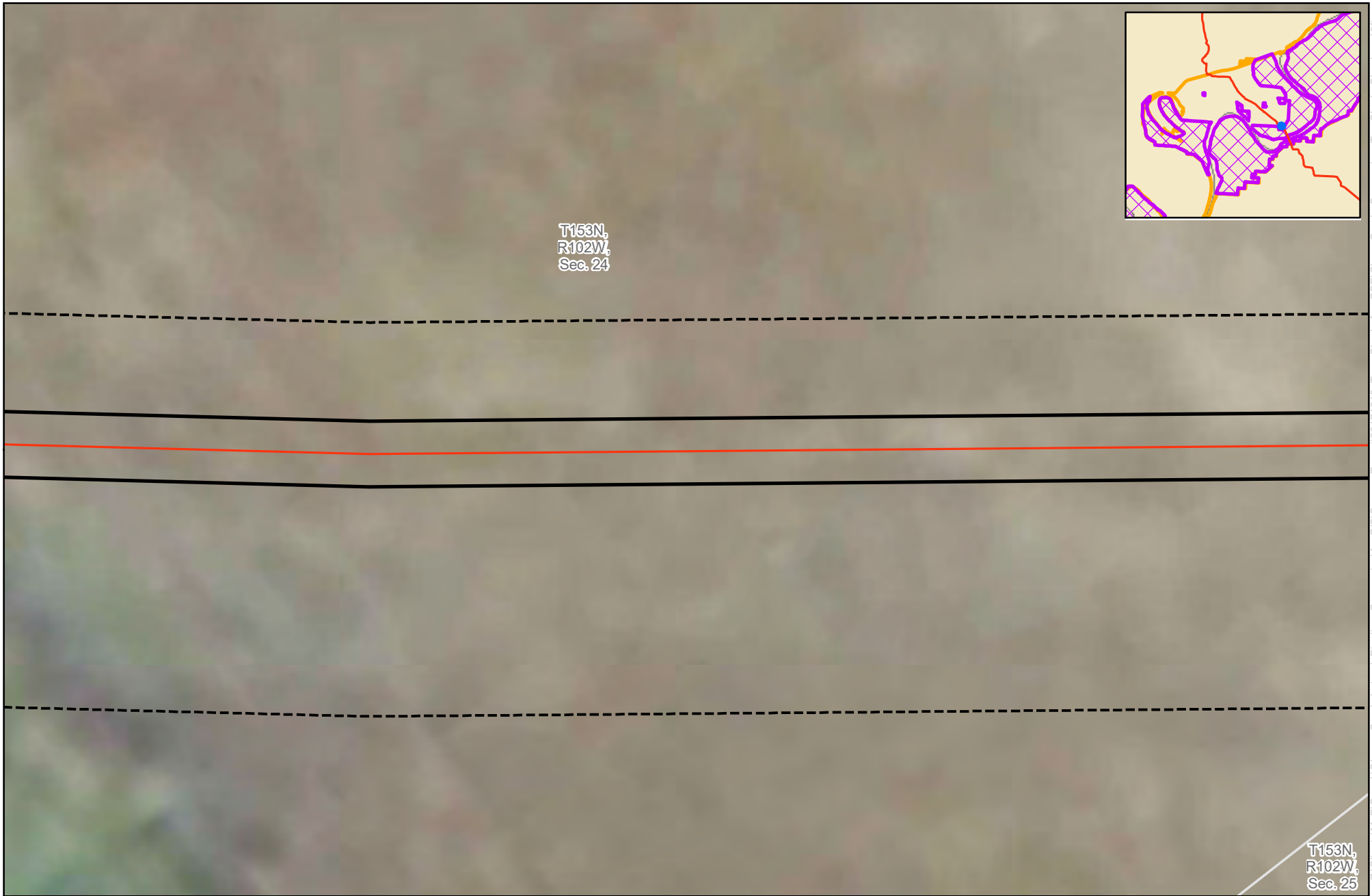


ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
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- Section Boundary
- ND Game and Fish Land
- USACE Lands

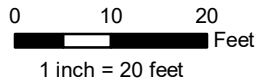
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior



T153N,
R102W,
Sec. 24

T153N,
R102W,
Sec. 25



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
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- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

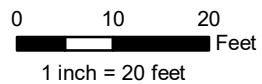
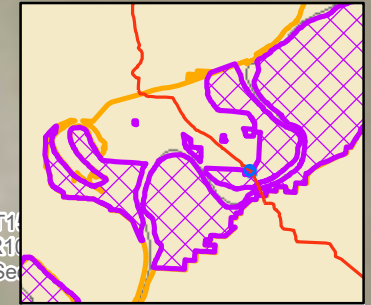
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
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 - Crataegus chrysoarpa

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- Populus deltoides
- Salix fragilis
- Salix interior













T153N,
R102W,
Sec. 24






T153N
R102W
Sec. 24



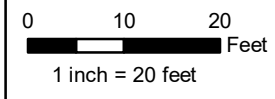
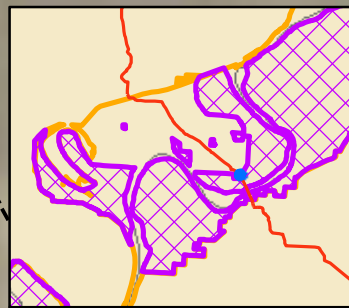
**ONEOK
12" Cherry Creek Lateral
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Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

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- Clump Count**
-  Salix interior
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- Individual Count**
-  Acer negundo
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-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior






T153N,
R102W,
Sec. 25



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12" Cherry Creek Lateral
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Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND**

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-  Section Boundary
-  ND Game and Fish Land
-  USACE Lands

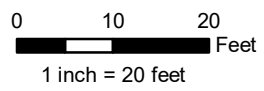
- Clump Count**
-  Salix interior
 -  Symphoricarpos occidentalis
- Individual Count**
-  Acer negundo
 -  Crataegus chrysoarpa

-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
-  Salix fragilis
-  Salix interior

Source: Z:\Clients\ML_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



T153N,
R102W,
Sec. 25



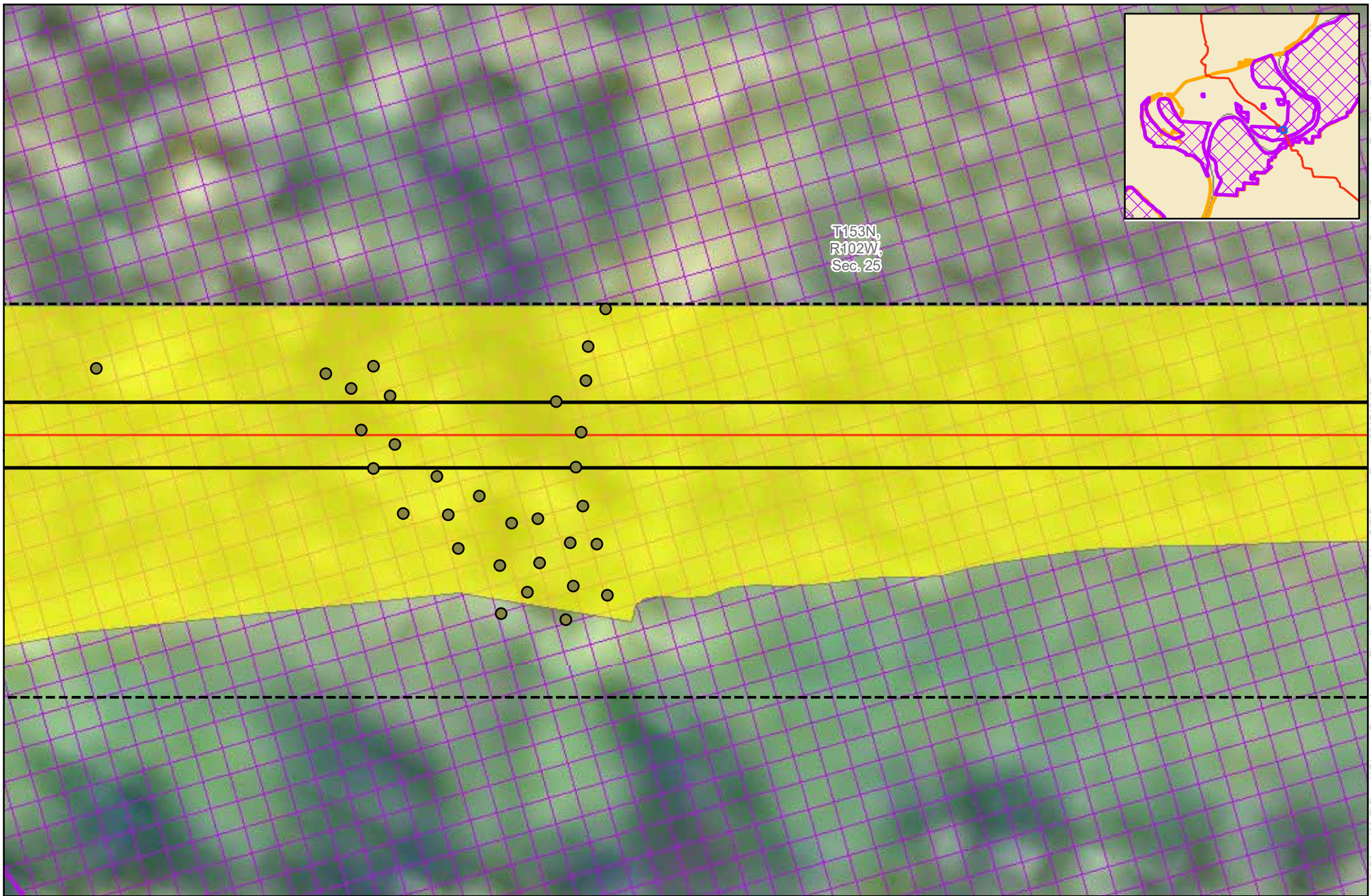
**ONEOK
12" Cherry Creek Lateral
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McKenzie and Williams Counties, ND**

- Project Centerline
- 60ft-Wide Easement
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- Section Boundary
- ND Game and Fish Land
- USACE Lands

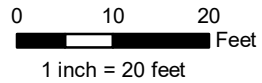
- Clump Count**
- Salix interior
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- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior

Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_report\2017\216_Tree_Shrub_or_C02\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: 12/28/2017



T153N,
R102W,
Sec. 25



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

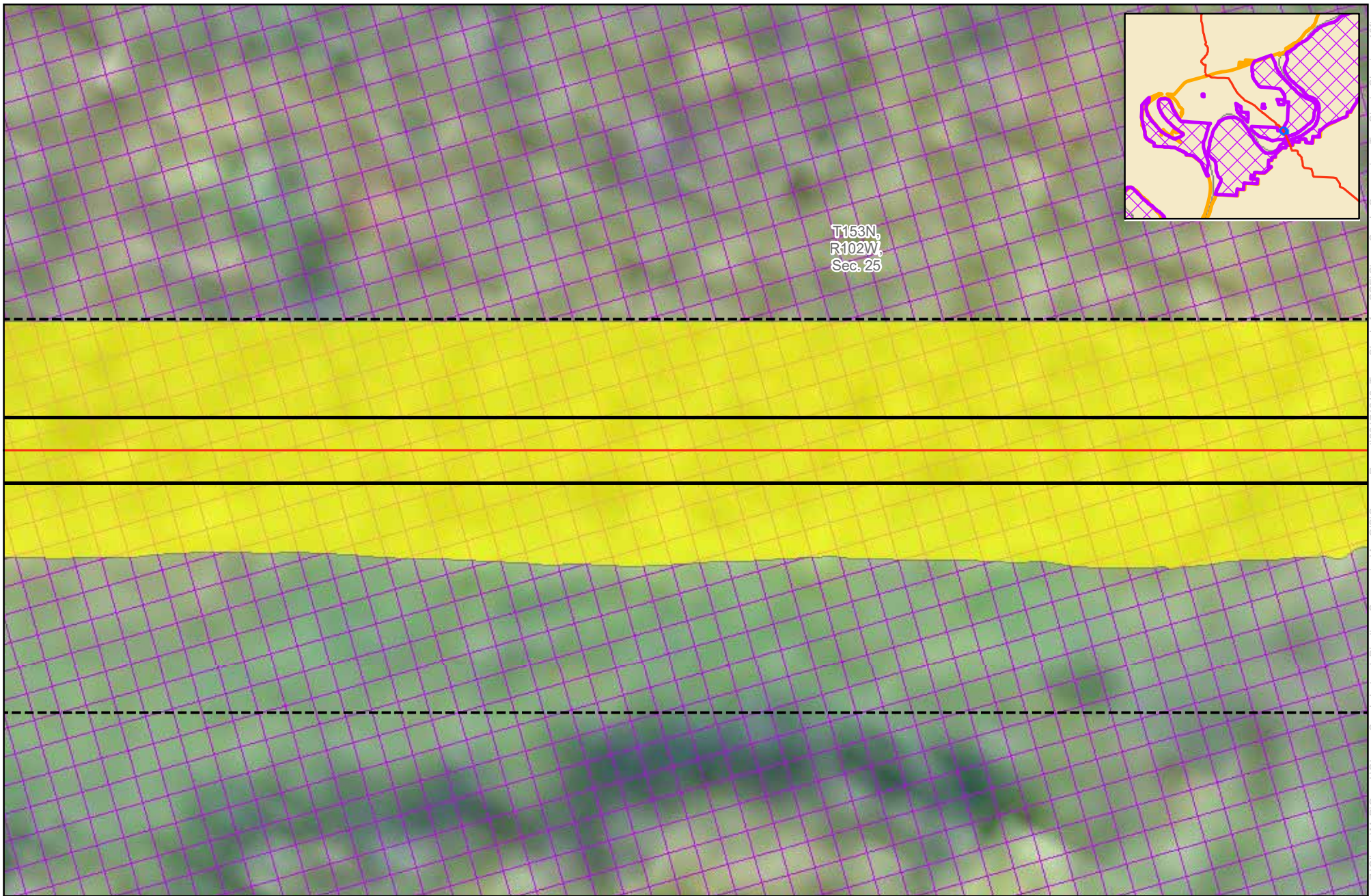
- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
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- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior



Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



T153N,
R102W,
Sec. 25

0 10 20 Feet
1 inch = 20 feet



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

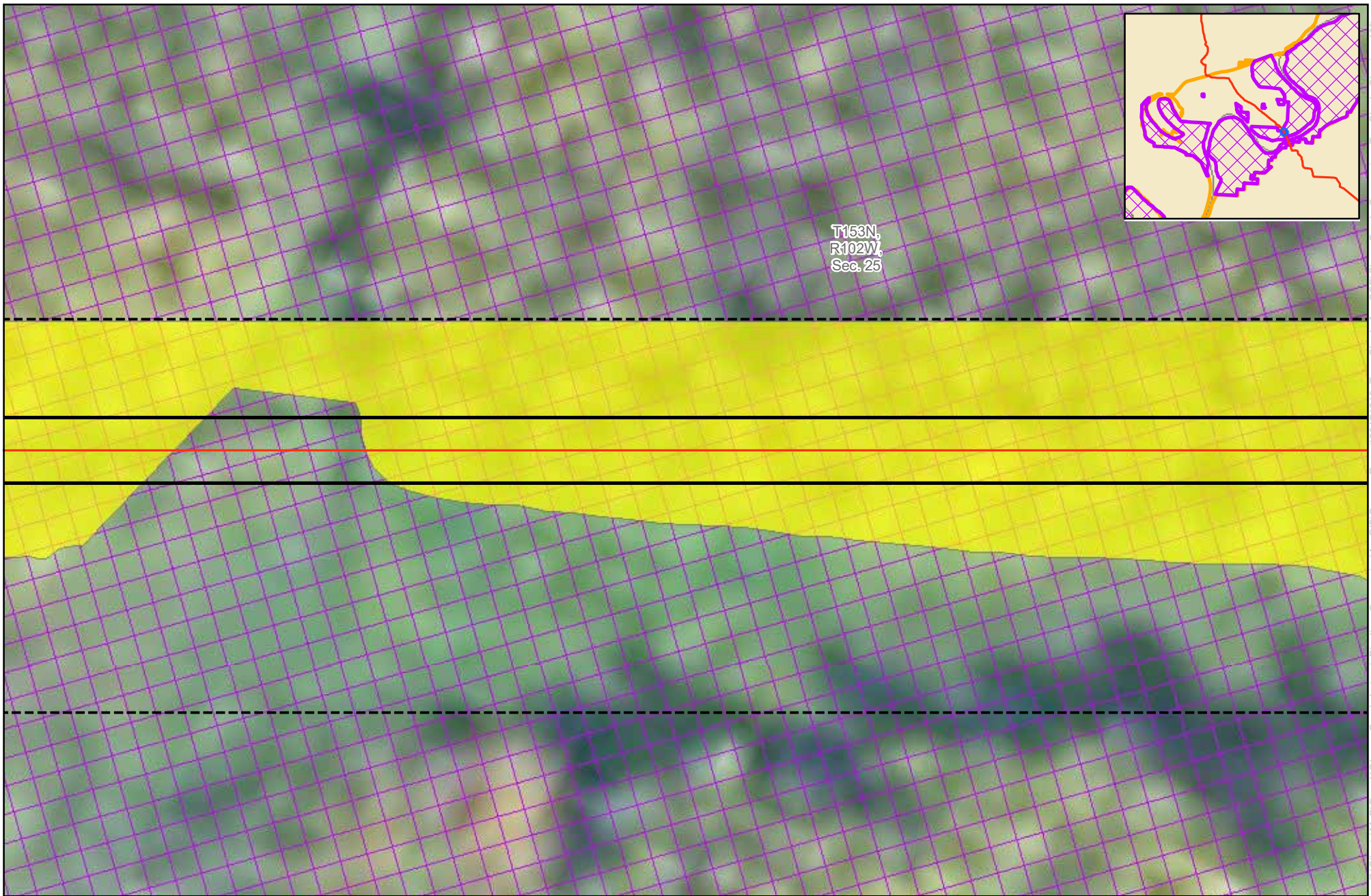
- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

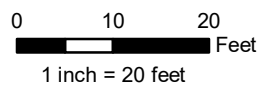
- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior



Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\12\16_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: (12/20/2017)



T153N,
R102W,
Sec. 25



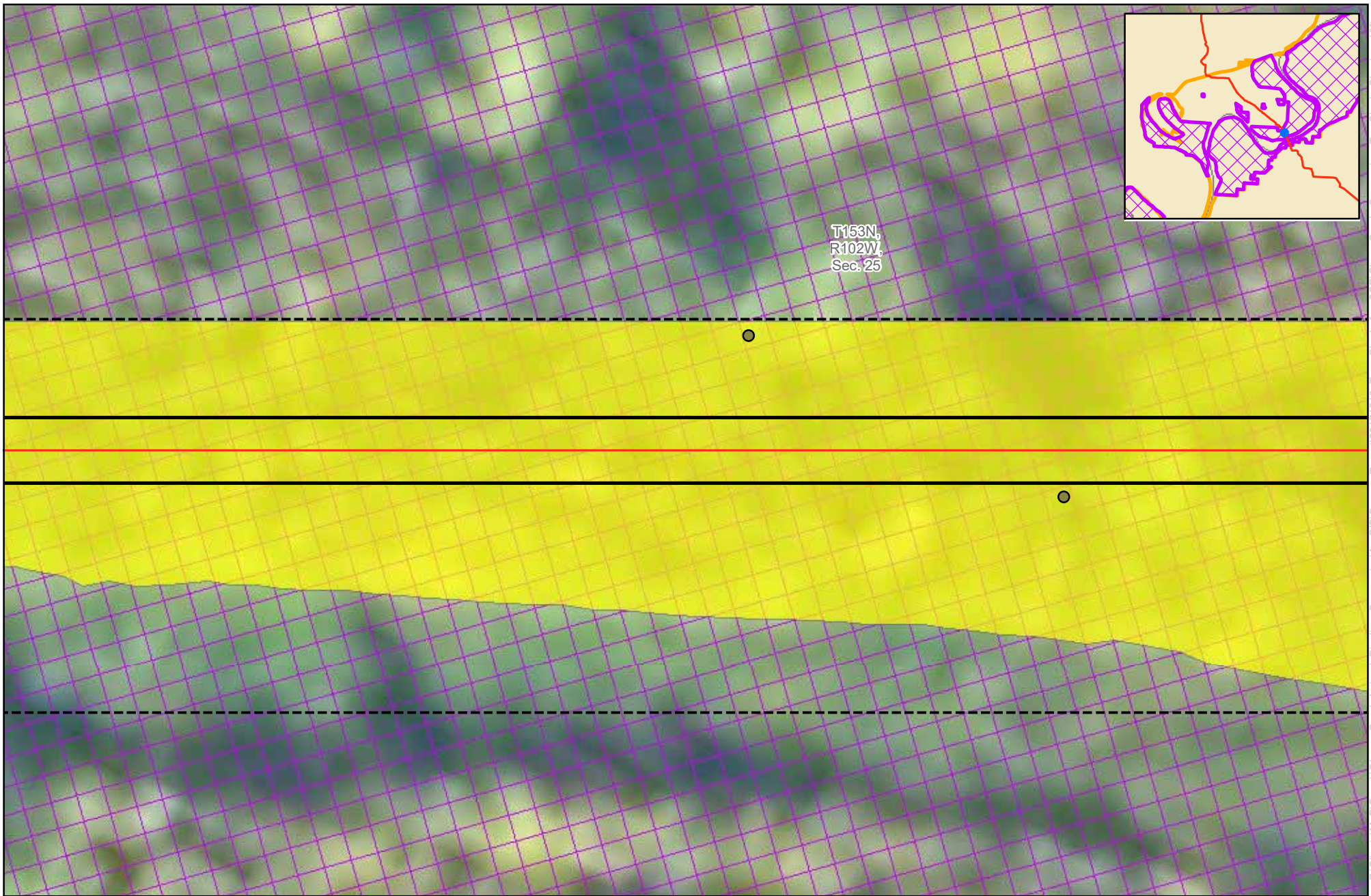
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
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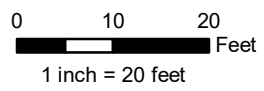
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
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- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior

Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\WrcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_1011.mxd



T153N,
R102W,
Sec. 25



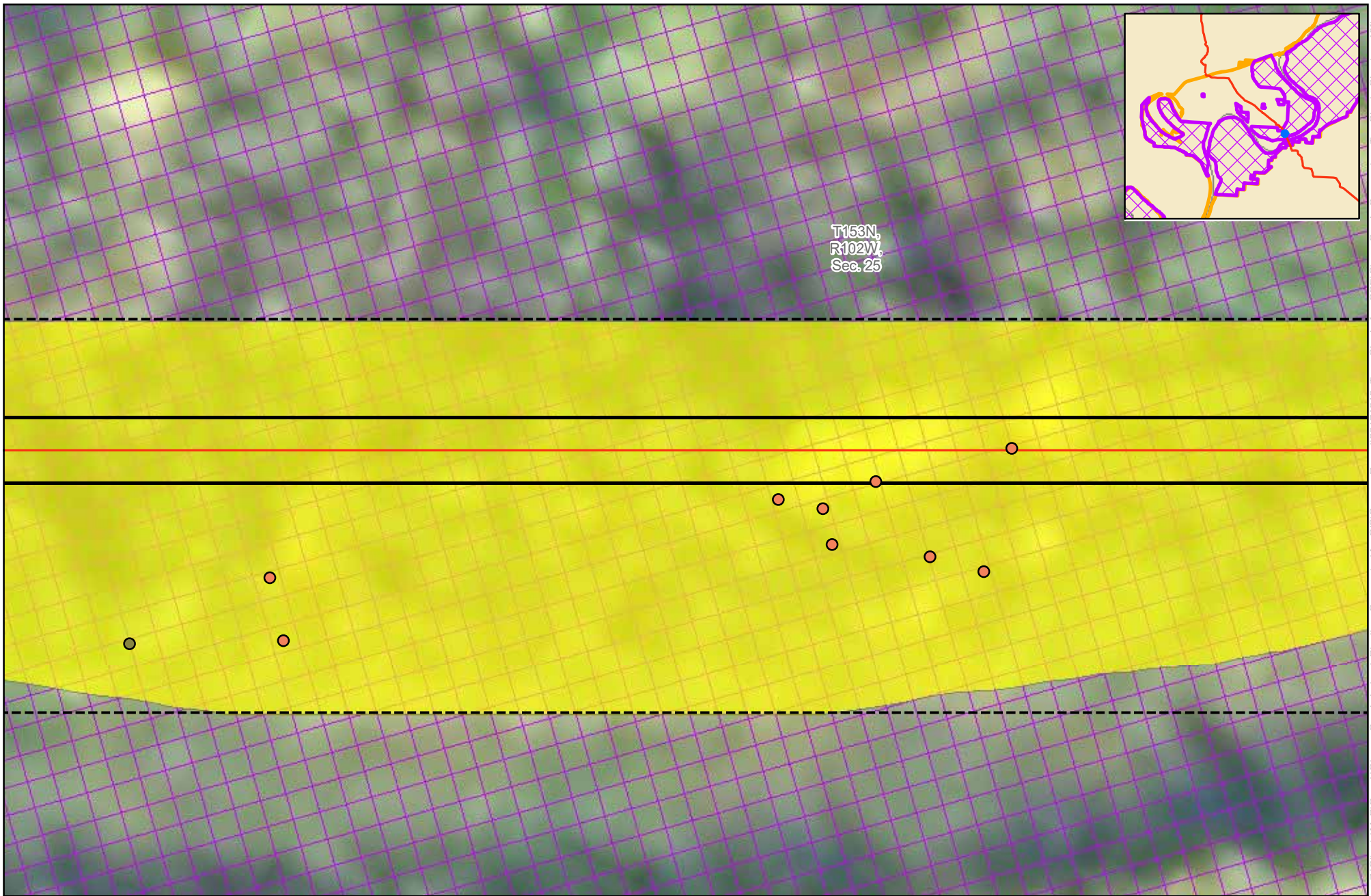
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- Project Centerline
- 60ft-Wide Easement
- 10ft-Wide Corridor
- Section Boundary
- ND Game and Fish Land
- USACE Lands

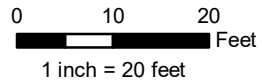
- Clump Count**
- Salix interior
 - Symphoricarpos occidentalis
- Individual Count**
- Acer negundo
 - Crataegus chrysoarpa

- Elaeagnus angustifolia
- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior

Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_tiff.mxd Date: (12/20/2017)



T153N,
R102W,
Sec. 25



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

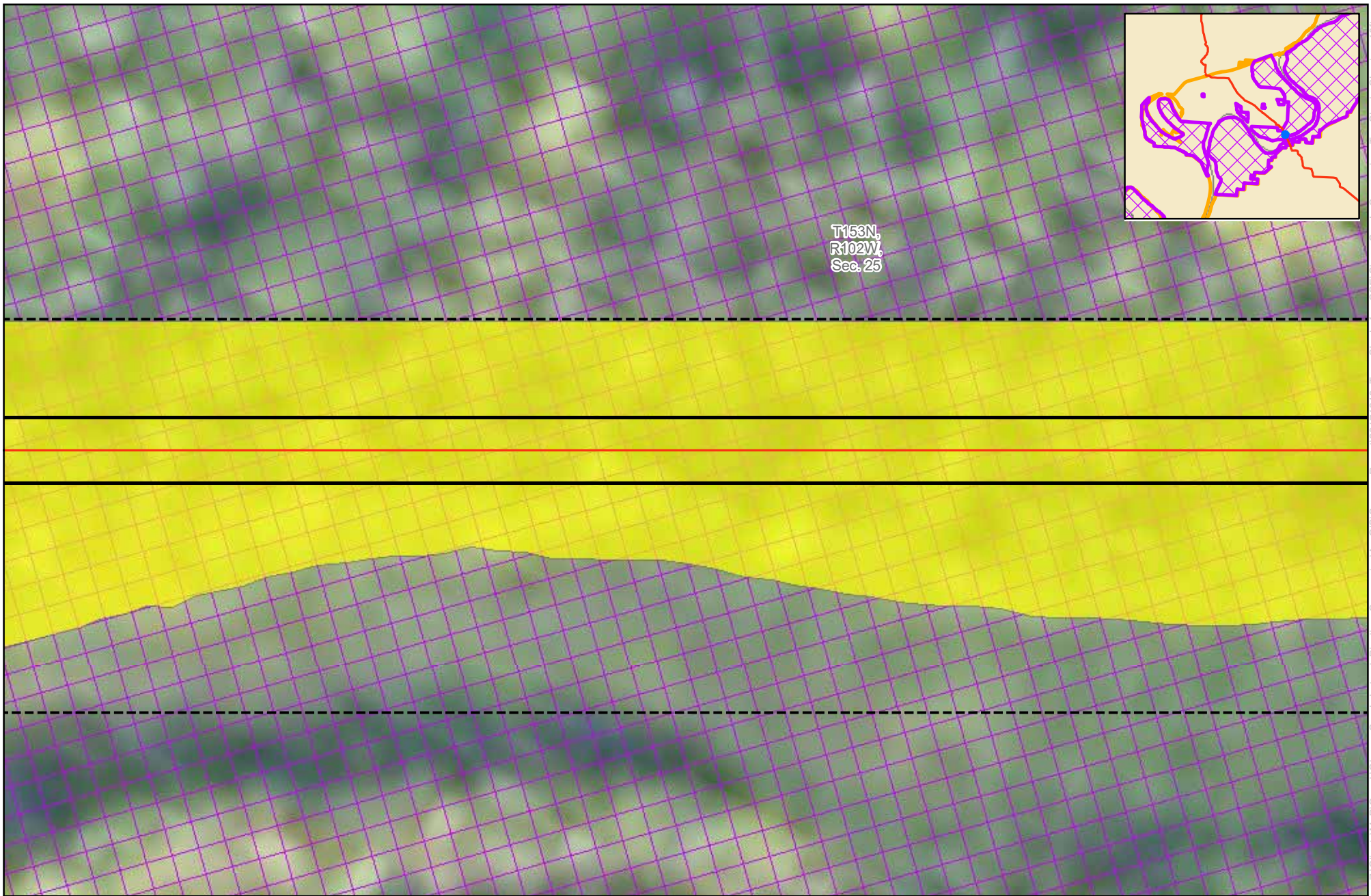
- Project Centerline
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- Individual Count**
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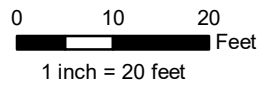
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- Fraxinus pennsylvanica
- Populus deltoides
- Salix fragilis
- Salix interior



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T153N,
R102W,
Sec. 25



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

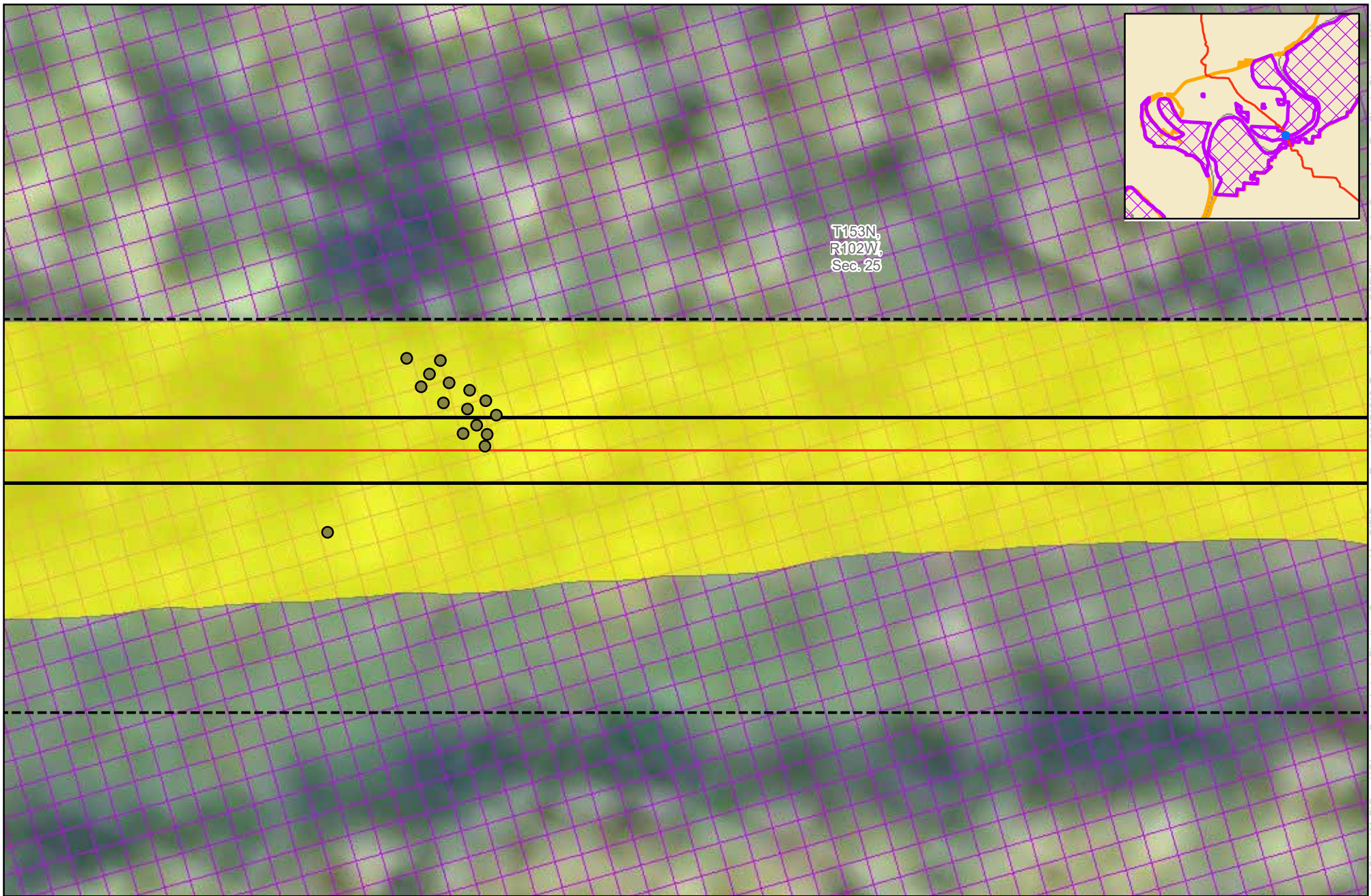
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- Salix fragilis
- Salix interior



Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\1216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_t01.tif



T153N,
R102W,
Sec. 25

0 10 20 Feet
1 inch = 20 feet



ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

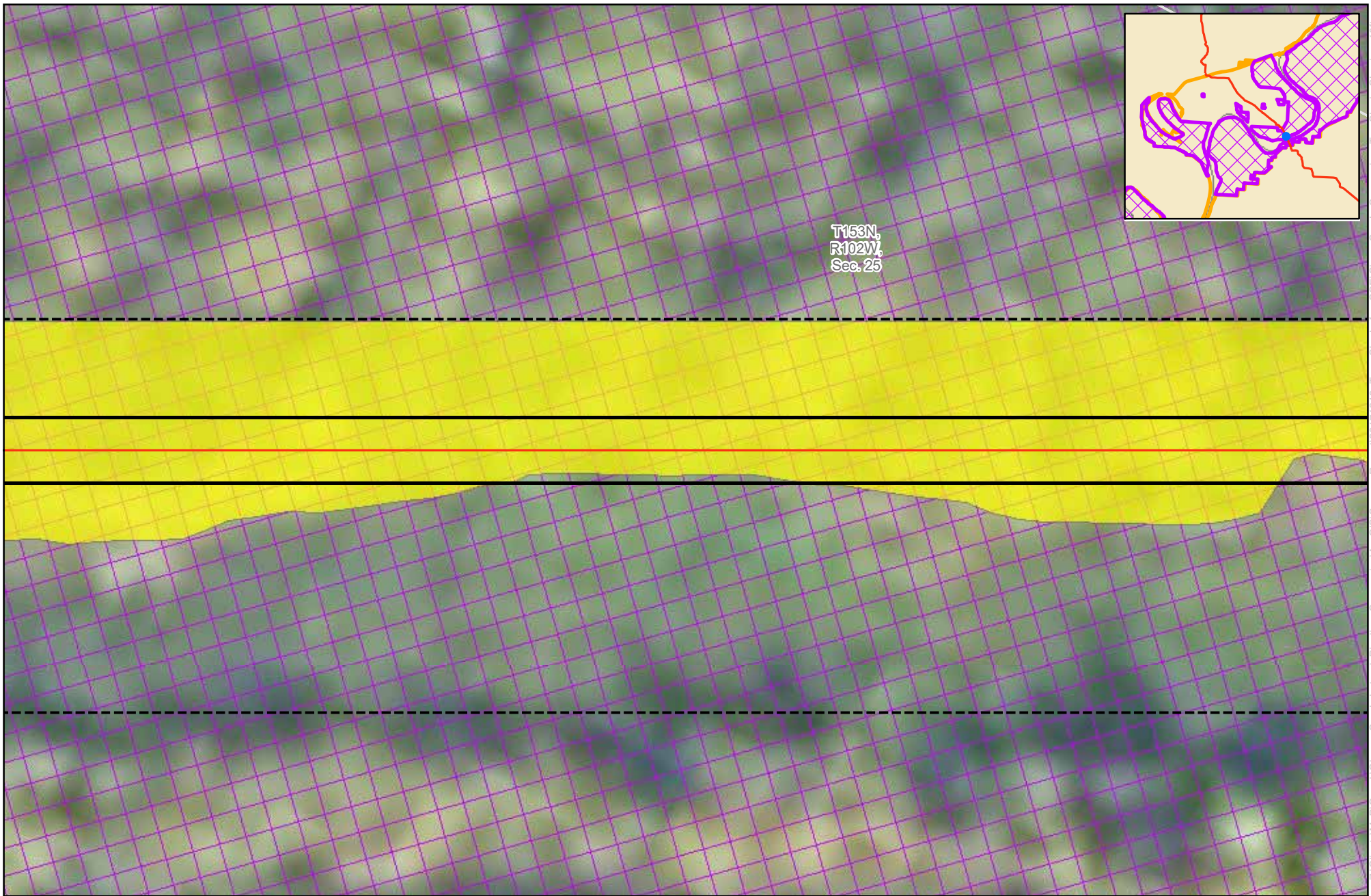
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- Salix interior
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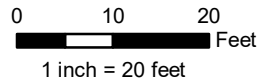
- Elaeagnus angustifolia
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- Populus deltoides
- Salix fragilis
- Salix interior



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T153N,
R102W,
Sec. 25



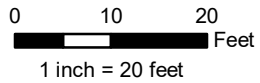
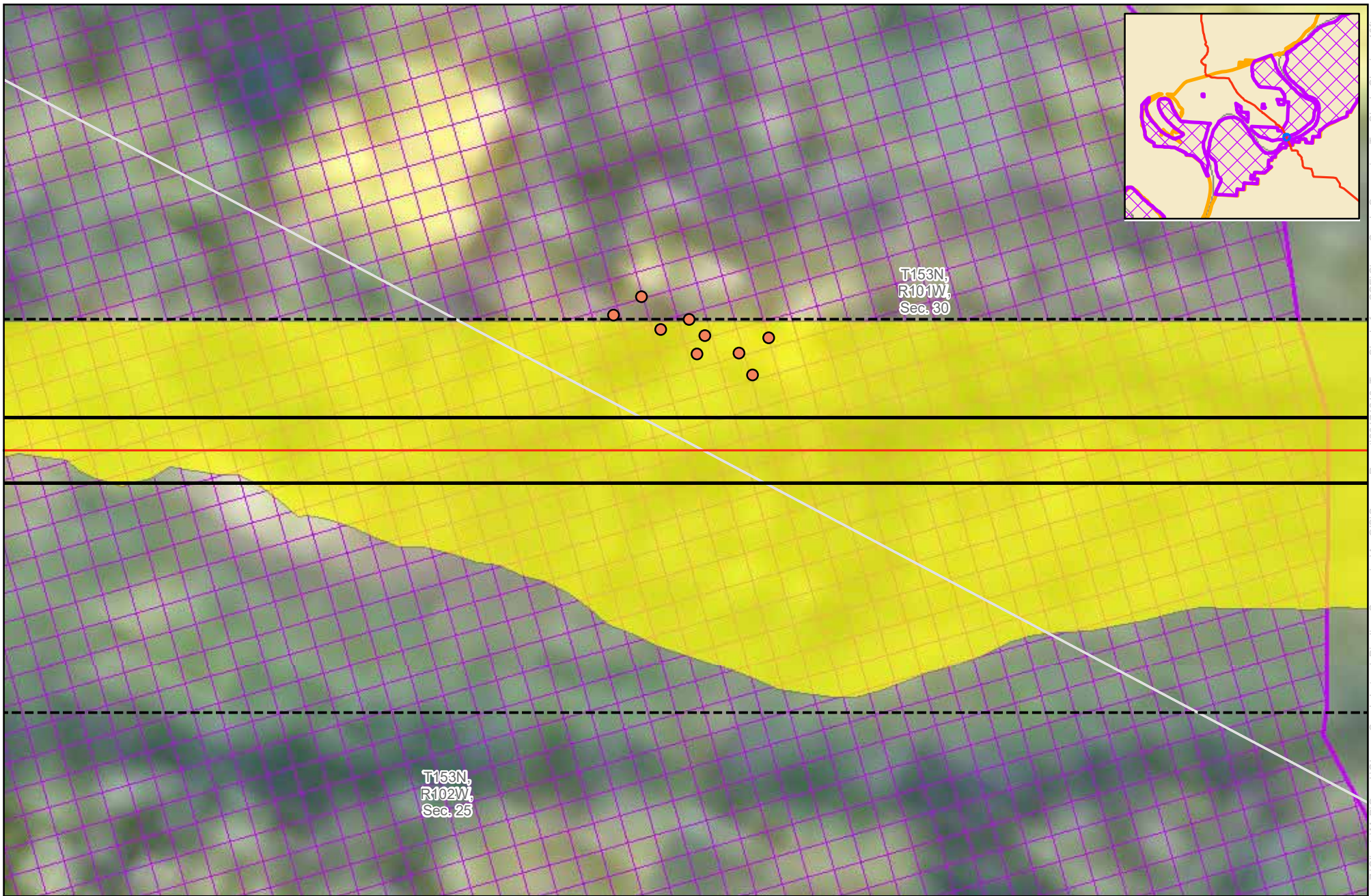
ONEOK
12" Cherry Creek Lateral
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Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\1216_Tree_Shrub_or_Coal\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd



ONEOK
12" Cherry Creek Lateral
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- Populus deltoides
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- Salix interior

Source: Z:\Clients\1\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\1216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_T01.tif



0 10 20 Feet
1 inch = 20 feet

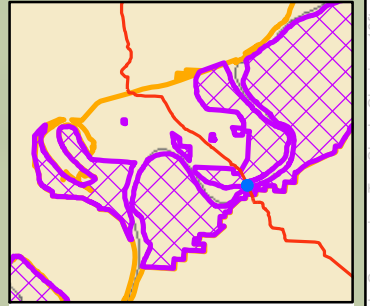
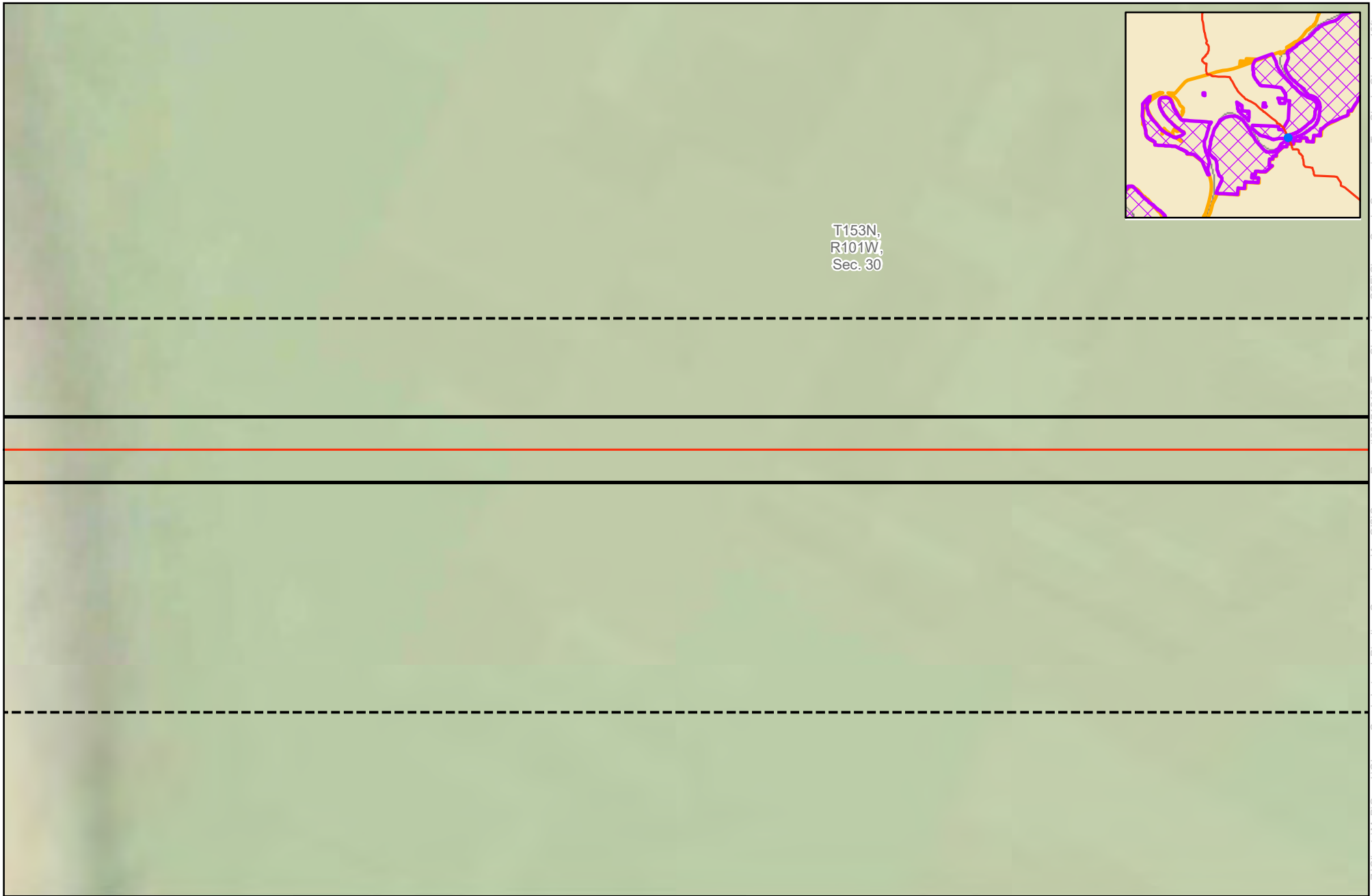
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For Environmental Review Purposes Only

Page 111 of 119

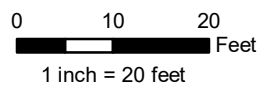
ONEOK
12" Cherry Creek Lateral Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

Project Centerline	Clump Count	<i>Elaeagnus angustifolia</i>
60ft-Wide Easement	<i>Salix interior</i>	<i>Fraxinus pennsylvanica</i>
10ft-Wide Corridor	<i>Symphoricarpos occidentalis</i>	<i>Populus deltoides</i>
Section Boundary	Individual Count	<i>Salix fragilis</i>
ND Game and Fish Land	<i>Acer negundo</i>	<i>Salix interior</i>
USACE Lands	<i>Crataegus chrysoarpa</i>	

Source: Z:\Clients\1\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171218_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: 12/28/2017



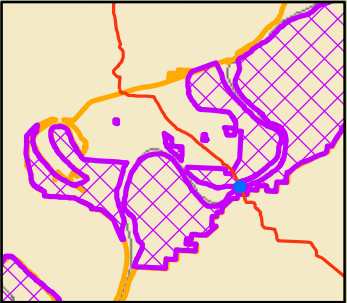
T153N,
R101W,
Sec. 30



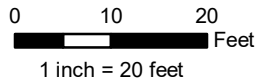
ONEOK
12" Cherry Creek Lateral
Pipeline Conversion
Tree / Vegetation Replacement Proposal
McKenzie and Williams Counties, ND

- | | | |
|-----------------------|------------------------------------|-------------------------------|
| Project Centerline | Clump Count | <i>Elaeagnus angustifolia</i> |
| 60ft-Wide Easement | <i>Salix interior</i> | <i>Fraxinus pennsylvanica</i> |
| 10ft-Wide Corridor | <i>Symphoricarpos occidentalis</i> | <i>Populus deltoides</i> |
| Section Boundary | Individual Count | <i>Salix fragilis</i> |
| ND Game and Fish Land | <i>Acer negundo</i> | <i>Salix interior</i> |
| USACE Lands | <i>Crataegus chrysoarpa</i> | |


Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\218_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: 12/28/2017












T153N,
R101W,
Sec. 30



ONEOK
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McKenzie and Williams Counties, ND

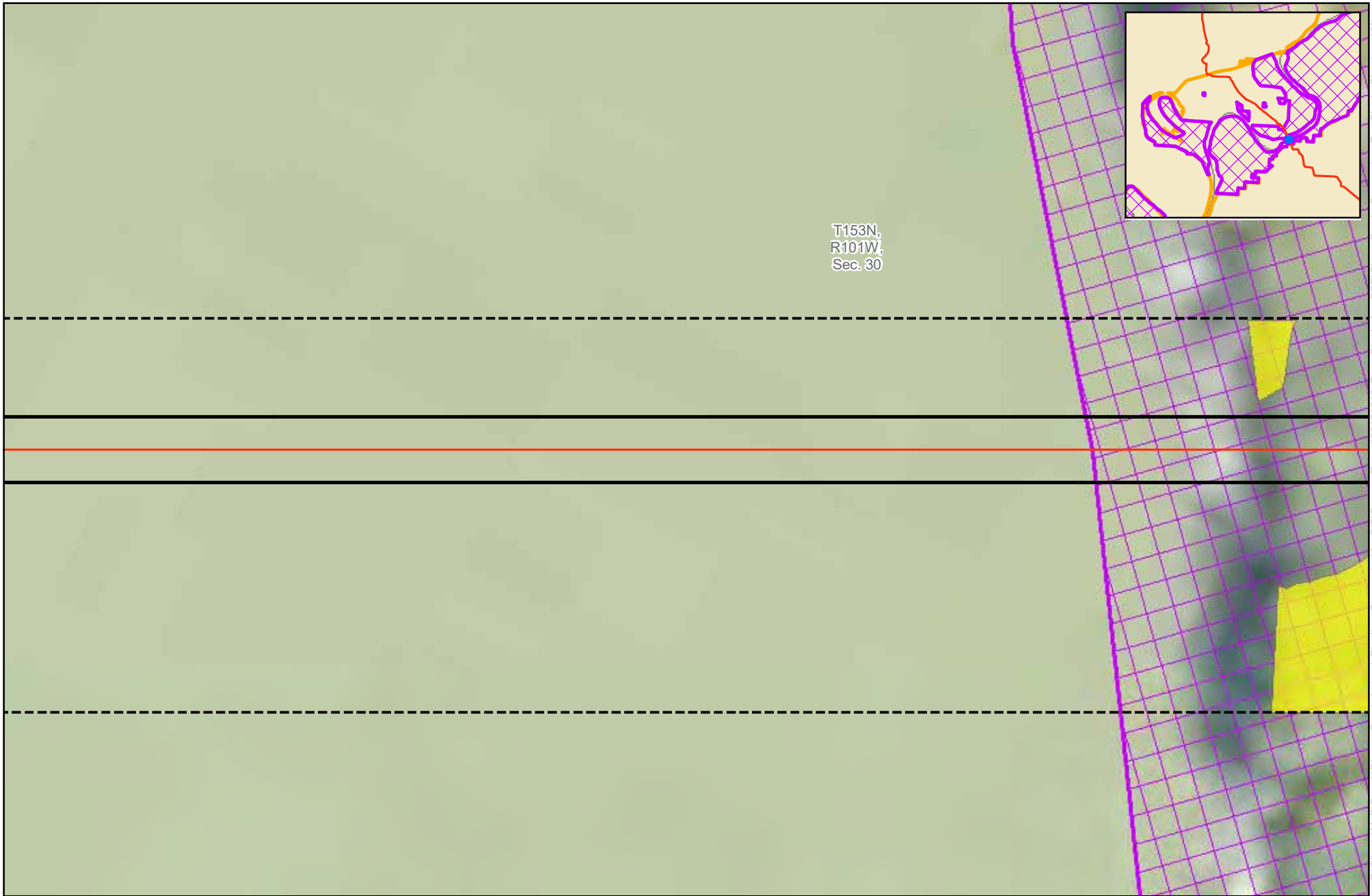
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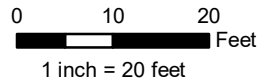
-  Elaeagnus angustifolia
-  Fraxinus pennsylvanica
-  Populus deltoides
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-  Salix interior









Date: (12/28/2017) Source: Z:\Clients\W\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\1218_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd












T153N,
R101W,
Sec. 30



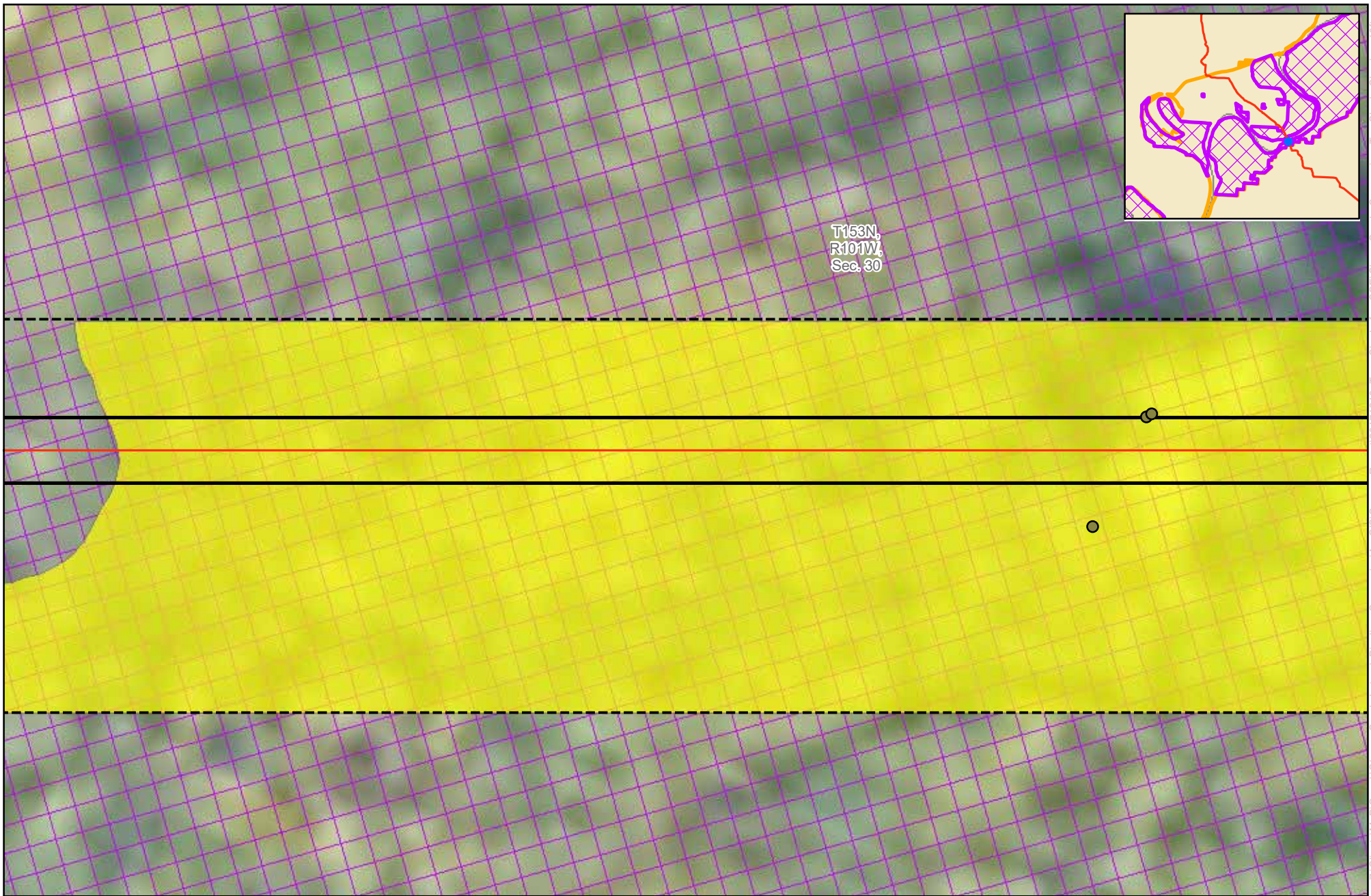
ONEOK
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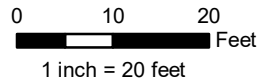
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T153N,
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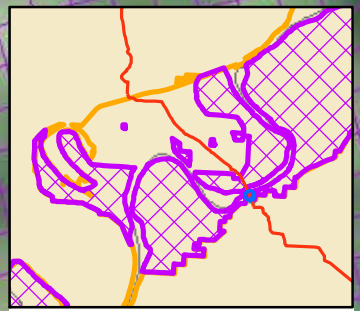
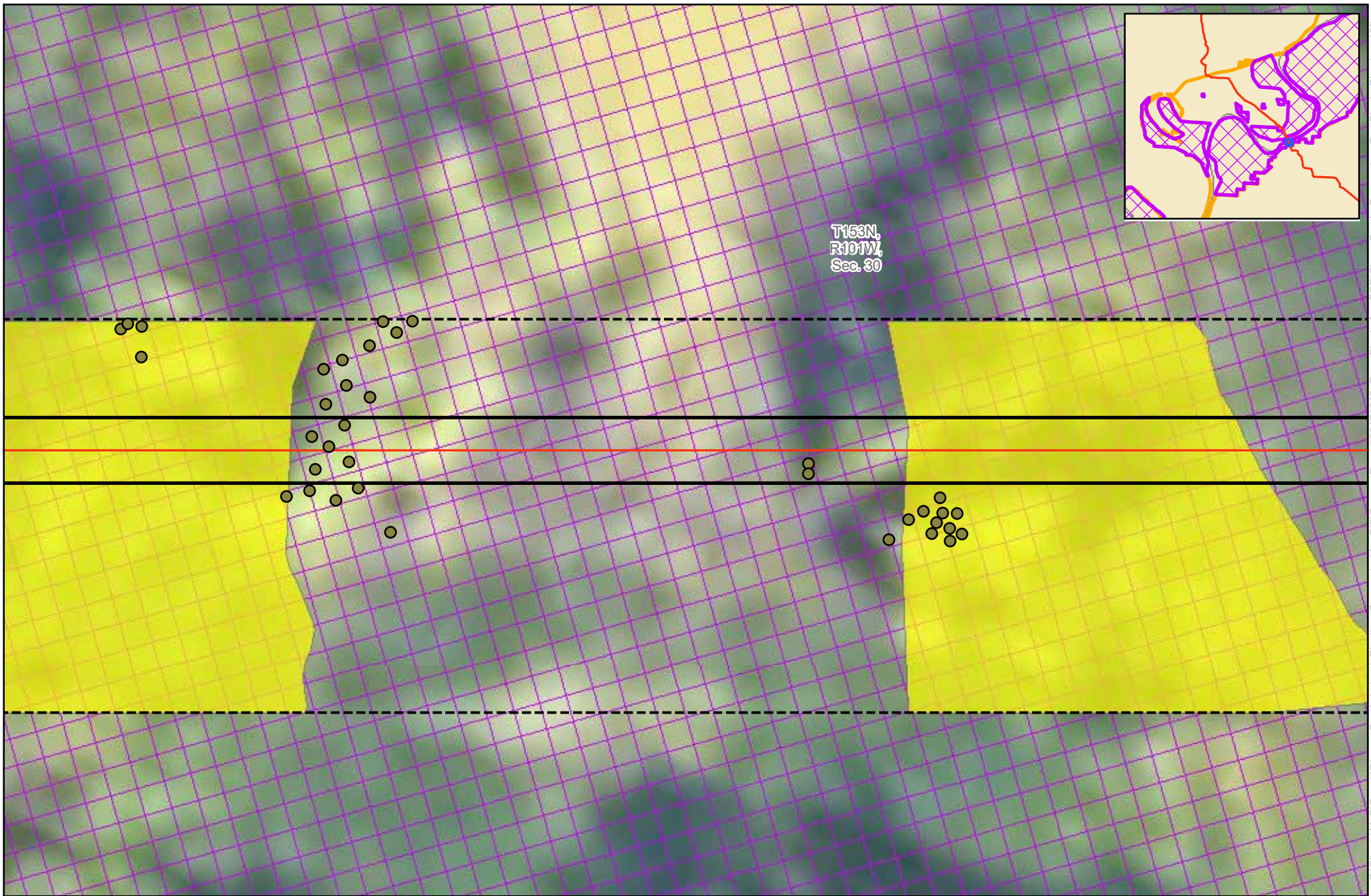
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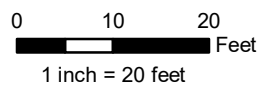
- Elaeagnus angustifolia
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- Populus deltoides
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- Salix interior



Source: Z:\Clients\1\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\Cherry_Creek_Conversion_TreeShrub_Cleaning_tiff.mxd Date: 12/28/2017



T153N,
R101W,
Sec. 30



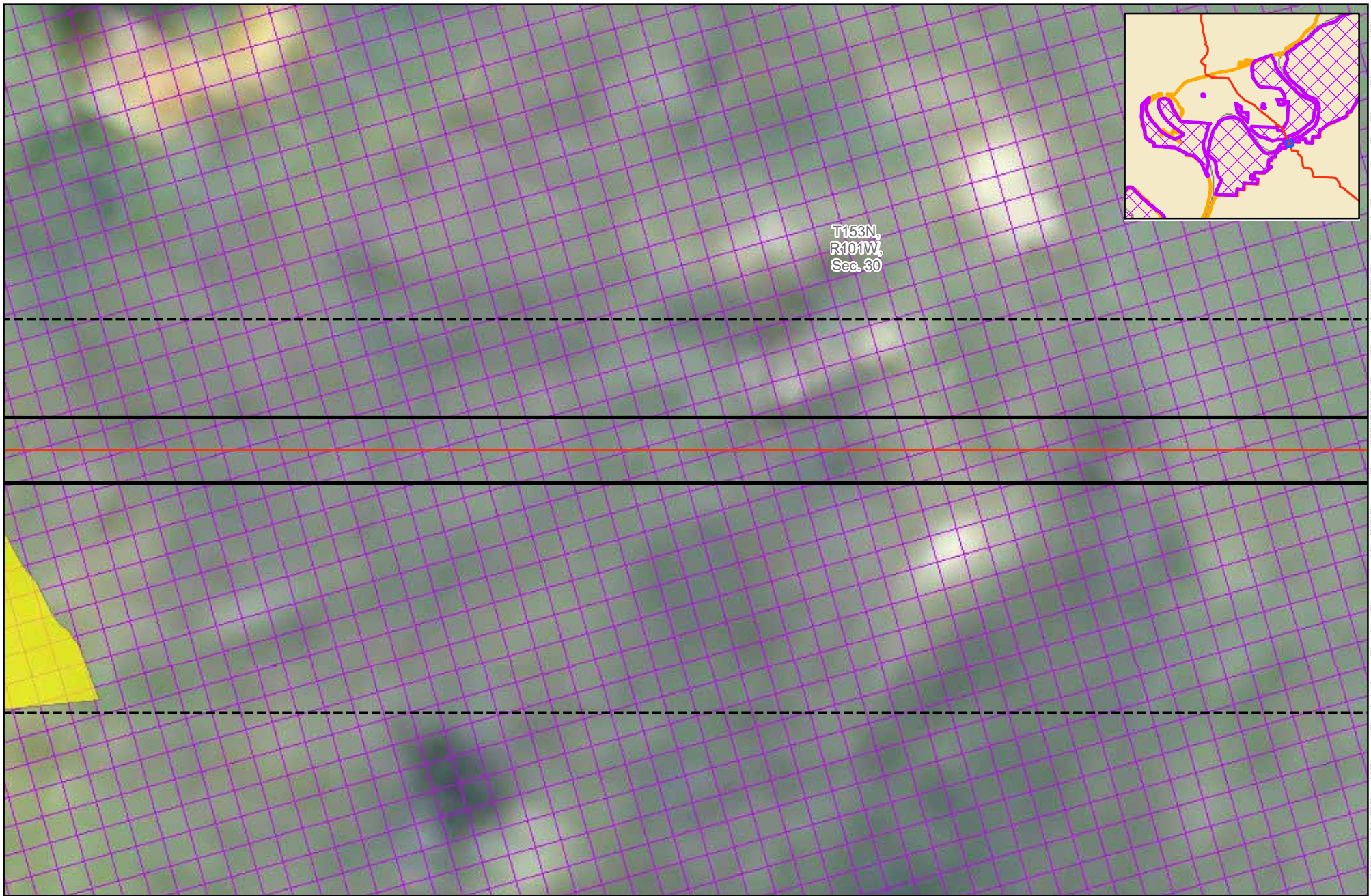
ONEOK
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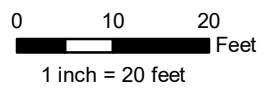
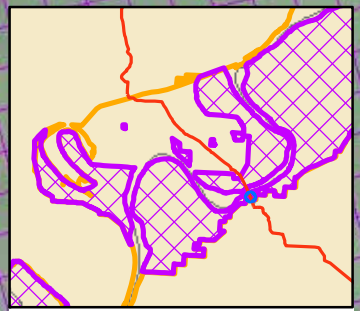
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Source: Z:\Clients\W\ONEOK\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: 12/28/2017












T153N,
R101W,
Sec. 30



**ONEOK
12" Cherry Creek Lateral
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McKenzie and Williams Counties, ND**

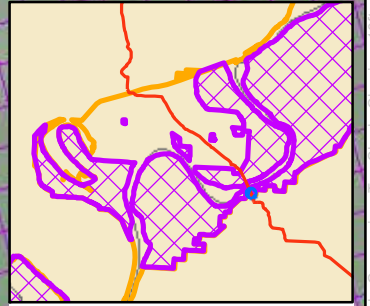
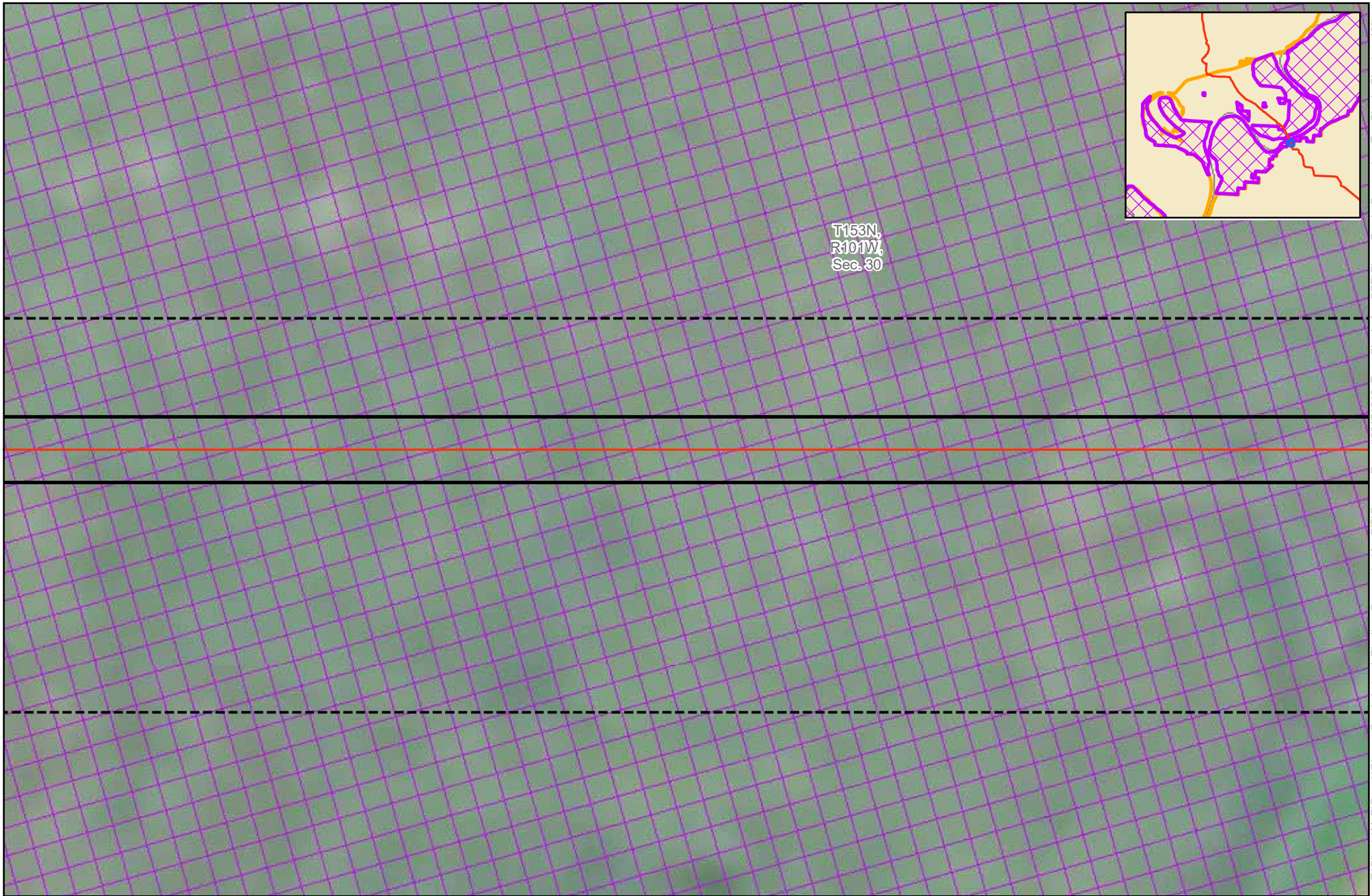
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Source: Z:\Clients\W_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\2017\216_Tree_Shrub_or_CO2\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd Date: 12/20/2017



T153N,
R101W,
Sec. 30

0 10 20 Feet
1 inch = 20 feet



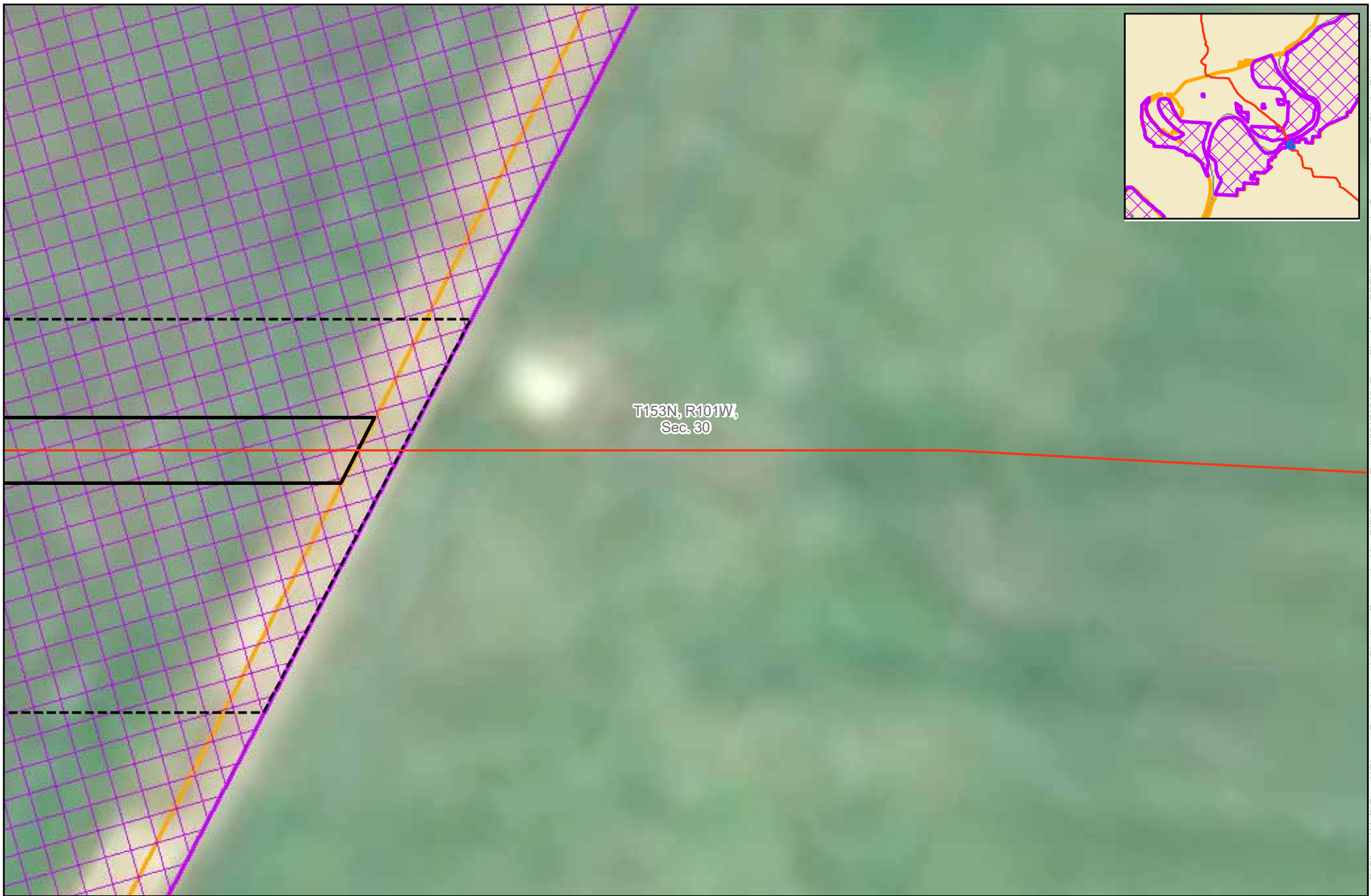
ONEOK
12" Cherry Creek Lateral
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McKenzie and Williams Counties, ND

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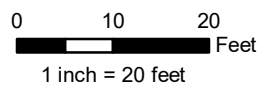
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T153N, R101W,
Sec. 30



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Date: 12/20/2017 Source: Z:\Clients\M_P\Oneok\Cherry_Creek_Lateral_Pipeline_Conversion\ArcGIS\Survey_Report\20171216_Tree_Shrub_for_COE\CherryCreek_Conversion_TreeShrub_Cleaning_10ft.mxd

Exhibit E

Revised Replacement Values from USACE

Chad Anderson

From: Buechler, Casey R CIV USARMY CENWO (US) <Casey.R.Buechler@usace.army.mil>
Sent: Monday, October 2, 2017 12:19 PM
To: Maddy Krumwiede
Cc: Stonesifer, Alfred C CIV USARMY CENWO (US); Thury, Jeremy J CIV USARMY CENWO (US); Keller, Jeffrey E CIV USARMY CENWO (US); kluttschwager@nd.gov
Subject: Tree Replacement Info (UNCLASSIFIED)

CLASSIFICATION: UNCLASSIFIED

Maddy -

This is the revised information we have developed.

Ratio value of Replacement Trees:

Size of Trees/Shrubs Removed (Inches DBH)	Replacement Ratio	Replacement Value
Two, but not more than four (2"-4")	2:1	\$200.00
More than four, but less than eight (4"-8")	3:1	\$400.00
More than eight, but less than twelve (8"-12")	4:1	\$800.00
More than twelve, but less than eighteen (12"-18")	5:1	\$1000.00
More than eighteen, but less than twenty-four (18"-24")	6:1	\$1600.00
More than twenty-four (24" +)	7:1	\$2000.00
Trees with a DBH smaller than 2" clump counted by square foot	4:1	\$2.50
Shrubs with a DBH smaller than 2" clump counted by square foot	4:1	\$2.50

7. Replacement of Ground Cover: Any disturbed ground cover (e.g. crop cover, forbs, grasses) are to be reclaimed to its original state or as determined acceptable by the USACE. Reclamation requirements may include, but are not limited to, the following:
- Redistribute soil materials in a manner similar to the original vertical profile.
 - Reduce compaction to an appropriate depth (generally below the root zone) prior to redistribution of topsoil, to accommodate desired plant species.
 - Provide suitable surface and subsurface physical, chemical, and biological properties to support the long term establishment and viability of the desired plant community.
 - Protect seed and seedling establishment (e.g. erosion control matting, mulching, hydro-seeding, surface roughening, fencing, etc.)
 - Replacement value for loss of prairie will be \$0.25/sq. ft.

Casey R Buechler
Oil & Gas Program

US Army Corps of Engineers
Omaha District, Garrison Project
Riverdale, North Dakota
(701) 654-7756