

Appendix 10 - Threatened and Endangered Species Report



Threatened and Endangered Species Report – Beadle, Brown, Clark, Codington, Edmunds, Hamlin, Hand, Hyde, Kingsbury, Lake, Lincoln, McCook, McPherson, Miner, Minnehaha, Spink, Sully, and Turner counties, South Dakota

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Table of Contents

1	Introduction.....	1
2	Endangered Species Act of 1973	1
3	Migratory Birds.....	2
4	Background Literature Review	2
4.1	Birds 3	
4.1.1	Bald eagle (<i>Haliaeetus leucocephalus</i>)	3
4.1.2	Piping plover (<i>Charadrius melodus</i>)	3
4.1.3	Red knot (<i>Cadrus canutus rufa</i>)	3
4.1.4	Whooping crane (<i>Grus americana</i>)	4
4.1.5	Interior least tern (<i>Sternula antillarum athalassos</i>)	4
4.1.6	Greater prairie chicken (<i>Tympanuchus cupido</i>).....	4
4.1.7	Sharp-tailed grouse (<i>Tympanuchus phasianellus</i>)	4
4.2	Fish 5	
4.2.1	Topeka shiner (<i>Notropis topeka</i>)	5
4.2.2	Pallid sturgeon (<i>Scaphirhynchus albus</i>).....	5
4.2.3	Northern redbelly dace (<i>Chrosomus eos</i>).....	5
4.2.4	Banded killifish (<i>Fundulus diaphanous</i>).....	5
4.2.5	Blacknose shiner (<i>Notropis heterolepis</i>).....	6
4.3	Insects 6	
4.3.1	Dakota skipper (<i>Heperia dacotae</i>)	6
4.3.2	Monarch butterfly (<i>Danaus plexippus</i>)	6
4.3.3	Poweshiek skipperling (<i>Oarisma poweshiek</i>)	7
4.4	Mammals	7
4.4.1	Northern long-eared bat (<i>Myotis septentrionalis</i>).....	7
4.4.2	Swift fox (<i>Vulpes velox</i>).....	7
4.5	Reptiles	7
4.5.1	Lined snake (<i>Tropidoclonion lineatum</i>)	7
4.5.2	False map turtle (<i>Graptemys pseudogeographica</i>)	8
4.6	Plants 8	
4.6.1	Western prairie fringed orchid (<i>Platanthera praeclara</i>).....	8
5	Field Reconnaissance Methodology	8
5.1	Aerial Interpretation	8
6	Results	10

6.1	Habitat within Project Area	10
6.1.1	Forested Land	10
6.1.2	Active Agricultural Land.....	10
6.1.3	Fallow Agricultural Land	10
6.1.4	Prairie Habitat	10
6.1.5	Wetlands 11	
6.1.6	Tame/Planted Grasslands.....	11
6.1.7	Hayfields 11	
6.2	Species Effect Determinations.....	11
7	Impacts and Minimization Measures Discussion	24
7.1	Piping plover, red knot, and interior least tern	24
7.2	Whooping crane.....	24
7.3	Topeka shiner.....	25
7.4	Northern long-eared bat	25
7.5	False map turtle	26
7.6	Birds of Conservation Concern	26
8	Summary	26
9	References	28

List of Appendices

- Appendix A – Mapping Exhibits
- Appendix B – USFWS IPaC Results
- Appendix C – Table 3: Dominant Wetland Vegetation

List of Tables

Table 1 Area of Desktop Review within the Project Survey Area in South Dakota	9
Table 2 Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area	12

List of Acronyms and Abbreviations

AWBP	Aransas Wood Buffalo Population
BGEPA	Bald and Golden Eagle Protection Act
CO ₂	Carbon Dioxide
DBH	Diameter-At-Breast-Height
ESA	Endangered Species Act of 1973
HDD	Horizontal Directional Drilling
IPaC	Information, Planning, and Conservation System
MBTA	Migratory Bird Treaty Act of 1918
NGP	Northern Great Plains Population
NLEB	Northern Long-Eared Bat
NMFS	National Marine Fisheries Service
PEM	Palustrine Emergent
Perennial	Perennial Environmental Services, LLC
PFO	Palustrine Forested
Project	Midwest Carbon Express Project
PSS	Palustrine Scrub-Shrub
SCS	Summit Carbon Solutions
SDGFP	South Dakota Game Fish and Parks
T&E	Threatened and Endangered
USFWS	U.S. Fish and Wildlife Service
WNS	White-Nose Syndrome
WPFO	Western Prairie Fringed Orchid

1 Introduction

Summit Carbon Solutions, LLC (SCS) is proposing to construct, own, and operate the Midwest Carbon Express (MCE) Project. MCE will capture carbon dioxide (CO₂) from 31 ethanol plants across five states (i.e., Iowa, Minnesota, Nebraska, South Dakota, and North Dakota) and transport the captured CO₂ via pipeline to North Dakota to be permanently sequestered within deep underground geologic formations. SCS aims to reduce the carbon intensity of biofuels produced from ethanol facilities and work towards achieving climate goals while creating jobs and other economic benefits across the Project footprint. The planned pipeline is approximately 2,000 miles, with diameters ranging from 4 to 24 inches and operating pressure of 2,100 pounds per square inch. The locations of the Project components are depicted in the attached mapping exhibits (**Appendix A**).

SCS retained Perennial Environmental Services, LLC (Perennial) to conduct a threatened and endangered (T&E) species habitat assessment for the proposed Project facilities in South Dakota. Perennial's purpose was to identify any T&E species, designated critical habitat, or potentially suitable habitat within a defined survey area. This report summarizes the survey methodology, results of the literature review and field surveys, and Perennial's assessment of the Project's potential impacts on T&E species.

2 Endangered Species Act of 1973

The Endangered Species Act (ESA) was passed by Congress in 1973 to protect and recover imperiled species and the ecosystems on which they depend. The ESA is administered by the U.S. Fish and Wildlife Service (USFWS), which has primary responsibility for terrestrial and freshwater organisms, and the Commerce Department's National Marine Fisheries Service (NMFS), which has primary responsibility for marine wildlife such as whales and anadromous fish such as salmon (USFWS, 2017).

Under the ESA, species may be listed as either endangered or threatened. "Endangered" means a species is in danger of extinction throughout all or a significant portion of its range. "Threatened" means a species is likely to become endangered within the foreseeable future. All species of plants and animals, except pest insects, are eligible for listing as endangered or threatened.

Section 7 of the ESA requires federal agencies to use their legal authorities to promote the conservation purposes of the ESA and to consult with USFWS and NMFS, as appropriate, to ensure that effects of actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of listed species. Agencies must confer with the USFWS per Section 7(a)(4) of the ESA if any action is likely to jeopardize a species proposed for listing or to destroy or adversely modify proposed critical habitat (USFWS 1973).

The ESA protects listed species and their habitats by 1) prohibiting the "take" of listed animals and the interstate or international trade in listed plants or animals, including their parts or products, except under federal permit; and 2) prohibiting federal actions that are likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats.

The ESA makes it unlawful to take a listed animal without a permit. "Take" is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct." Through regulations, "harm" is defined as "an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering." Listed plants are not protected from take, although it is illegal to collect or maliciously harm them on federal land. Protection from commercial trade and the effects of federal actions do apply for plants (USFWS, 2017).

Take of endangered species may be either “purposeful take” or “incidental take”. “Purposeful take” is when the reason for the activity or action is to conduct some form of take. For instance, conducting a research project that includes collecting and tagging a listed species is a form of purposeful take. Intentionally killing or harming a listed species is also purposeful take and is prohibited. “Incidental take” is defined by the ESA as take that is “incidental to, and not the purpose of, the carrying out of an otherwise lawful activity.” For example, harvesting trees can kill endangered bats that are roosting in the trees, but the purpose of that activity is not to kill bats (USFWS, 2016b).

USFWS also maintains a list of “candidate” species. These are species in which USFWS has enough information to warrant proposing them for listing but is precluded from doing so by higher listing priorities (USFWS, 2017). There are generally no Section 7 requirements for candidate species; however, all agencies are encouraged to take advantage of any opportunity they may have to conserve the species. For example, after ground disturbance, reseed the area with a native seed mix that includes milkweed (*Asclepias* spp.) (USFWS, 2020c) pending landowner approval for their intended land use.

3 Migratory Birds

Most native migratory birds are protected under the *Migratory Bird Treaty Act* (MBTA). Originally passed in 1918, the MBTA implements the U.S.’ commitment to four bilateral treaties, or conventions, for the protection of a shared migratory bird resource, protecting more than 1,000 species of birds. The MBTA states that it is unlawful to pursue, hunt, take, capture, kill, possess, sell, purchase, barter, import, export, or transport any migratory bird, or any part, nest, or egg of any such bird, unless authorized by the Secretary of the Interior. “Take” is defined in the regulations as “pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to pursue, hunt, shoot, wound, kill, trap, capture, or collect” (50 Code of Federal Regulations 10) (USFWS, 2010). Executive Order 13186 (January 2001) directs federal agencies to consider the effects of agency actions on migratory birds, with emphasis on bird species of concern.

Birds of Management Concern (BMC) are a subset of all birds protected under the MBTA that pose difficult management challenges such as low population numbers and conflicts with human interests. Birds of Conservation Concern (BCC) are a subset of BMC and include all species, subspecies, and populations of migratory non-game birds that are likely to become candidates for listing under the *Endangered Species Act* (ESA) of 1973 without additional conservation action (USFWS, 2008).

The Project is located within Bird Conservation Regions 11, and 22, which are defined as the Prairie Pothole and Eastern Tallgrass Prairie regions of the United States, respectively (USFWS, 2008). **Appendix B** lists all BCC with the potential to occur within the Project area as identified by the USFWS Information and Planning Consultation (IPaC) online system (USFWS, 2022b).

4 Background Literature Review

Prior to conducting the field surveys, Perennial reviewed various sources of available data to determine the federally and state listed T&E or protected species that could potentially inhabit or traverse the Project area. Perennial utilized the USFWS Information, Planning, and Conservation (IPaC) System (USFWS, 2021d) to obtain an official species list to determine the federally listed or protected species that could potentially occur within the Project area (**Appendix B**). State-listed species information was obtained from the South Dakota Game, Fish and Parks (SDGFP) State and Federally Listed Threatened, Endangered, and Candidate Species Documented in South Dakota By County (SDGFP, 2016), 2020 Threatened and Endangered Status Reviews (SDGFP, 2020b) the South Dakota Environmental Review Tool (SDGFP 2022), and the South Dakota Wildlife Action Plan Explorer (SDGFP 2022). Perennial also obtained species occurrence information from the South Dakota Natural Heritage Program

Database to identify potential occurrence of federally or state listed species along the Project route (South Dakota Natural Heritage Program, 2021).

Perennial performed species-specific background literature reviews to determine habitat requirements for each of the federally and state listed T&E or protected species that could potentially occur within the Project area. Documents reviewed include the species-specific recovery plans and/or five-year species reviews prepared by USFWS, species habitat information provided by SDGFP, and other ecological websites such as Nature Serve Explorer and Environmental Consultation Online System (ECOS). Prior to the field survey, Perennial also reviewed U.S. Geological Survey 7.5-minute quadrangle maps and aerial imagery to identify areas of potential habitat for federally and state listed T&E species.

The sections below provide general descriptions of the life distribution and habitat requirements for each of the federally and state listed T&E species and species of concern that could potentially occur within the Project area.

4.1 Birds

4.1.1 Bald eagle (*Haliaeetus leucocephalus*)

Though bald eagles were federally delisted in 2007 due to population resurgence, they are still protected by the Migratory Bird Treaty Act of 1918 (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) of 1940. Similar to the ESA, the BGEPA and MBTA define “take” as “pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest, or disturb.”

Bald eagle habitat ranges throughout North America into northern Mexico and this species occurs as breeding year-round residents and also migratory residents in South Dakota (SDGFP, 2005). Each year, about 300 bald eagles winter in South Dakota along the Missouri River or in the Black Hills (USFWS, 2019c). In South Dakota, bald eagles begin nesting in November and lay eggs from February to May, and they may have one or more alternate nests within a breeding territory they return to and enlarge each year. Bald eagles are generally found near water sources, such as lakes, reservoirs, marshes, or coasts, and their nests are generally found on large trees near open water. This species is opportunistic, meaning they may hunt live prey, scavenge, or steal food from other animals, and they generally feed on waterfowl, rabbits, turtles, snakes, and other small animals (USFWS, 2007b). Nesting and foraging habitats for bald eagles are present in the Project area located near large waterbodies (e.g., Big Sioux River).

4.1.2 Piping plover (*Charadrius melodus*)

The piping plover, federally and state listed as threatened, is a migratory bird that occurs as three separately located populations in North America. The population located within the Project vicinity in South Dakota is referenced as the Northern Great Plains (NGP) Population, which breeds along the rivers and wetlands of the northern Great Plains from Nebraska to the southern Prairie Provinces in Canada. This species primarily utilizes alkaline lakes and wetlands, large inland lakes, reservoirs, and rivers for breeding and foraging. This species arrives in South Dakota in early April, followed by courtship and nesting in mid-to-late April. Hatching begins in late May to early June, with peak hatching season occurring in June and early July. Piping plovers begin to leave the breeding grounds as early as mid-July. The piping plover diet consists of marine worms, beetles, spiders, crustaceans, mollusks, and other small marine organisms (USFWS, 2016a).

4.1.3 Red knot (*Calidris canutus rufa*)

The red knot, federally listed as threatened by USFWS, is a highly migratory bird species that migrates annually between breeding grounds in the central Canadian arctic tundra and four wintering regions throughout South America and the Gulf of Mexico. During spring and fall migrations, red knots rely on key staging areas and other stopover areas to rest and feed. Though South Dakota does not house any of the key staging areas, red knot

migration is highly unpredictable and wide ranging. Red knots require a reliable network of coastal and inland staging areas with abundant, high-quality prey timed when birds are present and allowing particularly high rates of weight gain. Additionally, red knots may need to suddenly shift among habitat patches based on food, predator, disturbance, weather, tides, and other conditions. In the Northern Great Plains, habitat may include alkaline or saline lakes, riverine wetlands, sandbars, and manmade impoundments. Across all habitat types, red knots require sparse vegetation to aid in predator defense (USFWS, 2021b).

4.1.4 Whooping crane (*Grus americana*)

Whooping cranes, federally listed as endangered by USFWS, are a migratory species that exist as a small number of wild populations. The population located within the Project vicinity is the only self-sustaining wild population: the Aransas Wood Buffalo Population (AWBP). This population nests in the Northwest Territories of Canada, primarily in the Wood Buffalo National Park. This park is located approximately 1,050 miles to the northwest in Alberta, Canada. In the spring and fall, this population migrates through the Great Plains states of Montana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas. Winter habitat is located in the Gulf of Mexico coast at Aransas National Wildlife Refuge and adjacent areas. Migration habitat consists of mosaic wetlands, shallow, seasonally and semi-permanently flooded palustrine wetlands, riverine habitats, and various croplands. All habitat types are typically sparsely vegetated (USFWS, 2007a).

4.1.5 Interior least tern (*Sternula antillarum athalassos*)

The interior least tern, federally listed as endangered by USFWS, is a migratory bird species that nests along freshwater habitats of the Missouri and Mississippi rivers, and overwinters in the Caribbean and South America (USFWS, 2020a). The nesting areas are barren, treeless beaches of sand, gravel or shells; dry mudflats and salt flats; and sand and gravel pits along rivers. Interior least terns arrive in South Dakota in early May and begin nesting in late May or early June, often in conjunction with piping plovers. This species nests along the Missouri and Cheyenne rivers (Sully County, South Dakota), with the majority nesting below Gavins Point Dam in southeastern South Dakota. The least tern eats small adult fish, fingerlings, and crustaceans (SDGFP, 2020b).

4.1.6 Greater prairie chicken (*Tympanuchus cupido*)

The greater prairie chicken not currently listed by USFWS or SDGFP, but is considered “vulnerable” by SDGFP. This species is endemic to the grasslands of the central U.S. Great Plains, and exists primarily in undisturbed tallgrass prairie (USFWS, 2005). Due to habitat fragmentation and loss through agricultural development, the current range of the greater prairie chicken is in northeast Colorado, Kansas, Nebraska, South Dakota, North Dakota, Minnesota and a small northwest section of Iowa (South Dakota Birds, 2022). Habitat in the core of the greater prairie-chicken’s distribution in South Dakota (Fort Pierre National Grassland and Lower Brule Indian Reservation) is primarily mid-grass prairie where dominant grasses include western wheatgrass (*Agropyron smithii*) and green needlegrass (*Stipa viridula*) (USFWS, 2005). May and June breeding in South Dakota, with lek displays occurring earlier. The nest itself is a simple depression on the ground, lined with grasses, feathers, and sometimes dead leaves or other vegetative material. Maintaining healthy, undisturbed leks for this species is the primary concern related to conservation of the greater prairie chicken. Diet for the greater prairie chicken consists of leaves, seeds, berries, and waste grain in winter, as well as various insects in summer (South Dakota Birds, 2022).

4.1.7 Sharp-tailed grouse (*Tympanuchus phasianellus*)

The sharp-tailed grouse is not currently listed by USFWS or SDGFP. Although this species’ conservation status is Least Concern, the SDGFP recommends avoidance of the leks for this species and maintains an active database of active sites. This species of prairie grouse commonly occupies brushy areas, openings, and bogs in boreal forest. In winter, sharp-tailed grouse rely on riparian areas, deciduous hardwood shrub gullies, deciduous, open coniferous woods, and grasslands. This species typically utilized deciduous trees and shrubs for feeding,

roosting, and cover. In Spring, males and females gather at traditional breeding locations (called leks) where an elaborate “dancing” occurs in order to attract mates. Following the courtship ritual, females will begin nesting and brood-rearing in spring and early summer. Nests are shallow, hollowed-out depressions on the ground, commonly located beneath low shrubs and can be found on flat land or slopes facing north/northeast (NRCS, 2007). The diet for the sharp-tailed grouse typically consists of a variety of forbs, grasses, flowers, fruits, seeds, buds, and insects (NRCS, 2007).

4.2 Fish

4.2.1 Topeka shiner (*Notropis topeka*)

Topeka shiners, federally listed as endangered by USFWS, are small minnows that are found in small prairie streams and creeks that exhibit perennial and nearly perennial flow. Substrate is usually clean gravel, cobble, or sand. Historically, Topeka shiners were abundant throughout the prairie regions of South Dakota, Minnesota, Kansas, Iowa, and Missouri (USFWS, 2019f). In South Dakota, there are populations of Topeka shiner throughout the Central Prairie region of the Missouri, Mississippi, and Arkansas River drainages (SDGFP, 2003). Spawning occurs from late-May to mid-August, depending on the water temperature. Reporting on spawning behavior is mixed; some reports state the behavior is poorly understood, and Topeka shiners are thought to spawn on silt-free substrates found in the quieter waters of stream pools (USFWS, 2019f), whereas other reports state they nest over gravel nests of green sunfish (*Lepomis cyanellus*) and orangespotted sunfish (*Lepomis humilis*). The diet of the Topeka shiner includes plant material, zooplankton, and small aquatic insects (SDGFP, 2003).

4.2.2 Pallid sturgeon (*Scaphirhynchus albus*)

Pallid sturgeons, federally and state listed as endangered, are fish with a primitive appearance and a cartilaginous skeleton. They are large, bottom-oriented river fish that inhabit the Missouri, Mississippi, Big Sioux, Vermillion, and James rivers where the conditions can be described as large, free-flowing, and turbid with diverse assemblages of dynamic physical habitat (USFWS, 2014). Spawning habitat is unknown, but it is suspected to involve rock or gravel substrates in main river channels. Warming water in late spring or early summer is thought to be a spawning trigger. Both males and females experience lengthy maturation (7-9 years for males and 7-10 years for females) and require several years between spawns (2-3 years for males and 3-10 years for females). The known population consists entirely of adult fish. Spawning may be occurring, but recruitment (the number of fish born within a time period that survive to the juvenile stage) is suspected to be nonexistent (USFWS, 2019d).

4.2.3 Northern redbelly dace (*Chrosomus eos*)

Northern redbelly dace, state listed as threatened by SDGFP, are small minnows found in either lentic (non- or limited-flowing freshwater lakes and ponds) or lotic (rivers or streams with moving water) habitats. They prefer spring-fed streams with adequate vegetation; slow to moderate current, and silt or sand substrates. Within South Dakota, northern redbelly dace are found primarily east of the Missouri River, and have been reported from tributaries of the Missouri, Big Sioux, Minnesota, White, Niobrara, and Keva Paha river drainages. Little is known about their reproductive biology or life history; however, it is presumed they spawn between late April and June over aquatic vegetation. Their diet includes diatoms, filamentous algae, zooplankton, invertebrates, and plant material (SDGFP, 2020a).

4.2.4 Banded killifish (*Fundulus diaphanous*)

Banded killifish, state listed as endangered by SDGFP, are small fish found in lentic or lotic habitats. They prefer quiet and shallow waters of sloughs, marshes, ponds, and lakes, as well as low gradient streams with gravel or sand substrate and abundant vegetation. They have been reported in a few lakes in eastern South Dakota: Lake Andes, Garden Creek, Lake Eureka, Long Lake, Lake Cochrane, Lazarus Creek, Blue Dog Lake, Waubay Lakes, and

Bitter Lake. Since 2000, reported banded killifish have been limited to the inlet of Bitter Lake in Day County and Little Eureka Lake in McPherson County. Banded killifish spawn in late spring and summer in vegetated areas. Their diet consists of small crustaceans, insect larvae, and some plant material. Banded killifish are widespread and secure throughout the eastern portion of its range, however, at the western edge of their range, they are listed as critically imperiled in South Dakota. (SDGFP, 2020a).

4.2.5 Blacknose shiner (*Notropis heterolepis*)

Blacknose shiner, state listed as endangered by SDGFP, are a slender, silvery minnow with large eyes. They prefer cool, clear glacial lakes, and small prairie streams that are highly vegetated and contain sand, gravel and rock substrates. Blacknose shiner have been reported from the tributaries of the James, Big Sioux, Minnesota, Missouri, and Keya Paha river drainages. Since 200, only single fish occurrences have been reported from the tributaries of the Big Sioux, Minnesota, Missouri, and Keya Paha River drainages (SDGFP, 2020a). Little is known about their reproductive biology or life history, but it is believed they spawn from May to June over sandy substrates. Blacknose shiner are benthic feeders with a diet consisting of plants, small insects, crustaceans and algae (SDGFP, 2022).

4.3 Insects

4.3.1 Dakota skipper (*Heperia dacotae*)

The Dakota skipper, federally listed as threatened by USFWS, is a small prairie butterfly that inhabits remnants of tallgrass prairie and mixed-grass prairie in the north-central U.S. and into southern Saskatchewan and Manitoba Provinces of Canada. This species' life cycle lasts one year, with the adult stage occurring for only 3 to 4 weeks from the middle of June to the end of July. Mating occurs in this period and eggs are deposited on broadleaf plants and grasses. After hatching, the larvae crawl to the ground and construct silk shelters. This species overwinters in the larval stage and metamorphosizes as an adult again in late June and early July (USFWS, 2018).

Within the habitat fragments where it persists, this species relies on high-quality, diverse, native prairie habitat conditions and on natural or human disturbances that maintain the integrity of these plant communities while minimizing mortality to vulnerable life stages (USFWS, 2021e). These beneficial disturbances include properly managed grazing, haying, burning, and use of pesticides. Specifically, this species inhabits two distinct habitat types: 'Type A' habitat and 'Type B' habitat. 'Type A' habitat, which occurs primarily in North Dakota, is a low, wet-mesic prairie with little to no topographic relief that occurs on near-shore glacial lake deposits. This habitat type may be flooded in some years but has sufficient relief to provide segments of non-inundated habitat during the spring larval growth period within any single season. 'Type A' habitat is dominated by bluestem grasses (*Andropogon* spp.), with wood lily (*Lilium philadelphicum*), bluebell bellflower (*Campanula rotundifolia*), and mountain death camas (*Zigadenus elegans*) almost always present (USFWS, 2018). 'Type B' habitat is upland prairie that is relatively dry and often found on ridges and hillsides. Bluestem grasses and needlegrasses (*Stipa* spp) dominate these prairies; purple coneflower (*Echinacea angustifolia*) is typical of high quality sites that support this skipper (USFWS, 2019a). Other flowering vegetation likely present in this habitat include bluebell bellflower, wood lily, upright prairie coneflower (*Ratibida columnifera*), and blanketflower (*Gaillardia* spp.) (USFWS, 2018). Both of these habitat types are unlikely to be reestablished on a site that has been plowed. Therefore, activities that maintain the original native grass habitat are fundamental to the species' conservation (USFWS, 2019a).

4.3.2 Monarch butterfly (*Danaus plexippus*)

The monarch butterfly, a candidate species for listing by USFWS, is an insect with a variable life cycle based on geographic location. Non-migratory populations, such as those in Florida, breed year-round. Monarchs in more temperate climates, such as the Project area, undergo long-distance migration. Adults of migratory populations live for an extended period of time, and the breeding period for these adults is paused for a portion of the year (fall

through spring). During breeding and migration, adult monarch butterflies require a diversity of blooming nectar resources. Monarchs also need milkweed (for both oviposition and larval feeding) embedded within this diverse nectaring habitat. The correct phenology, or timing, of monarchs, nectar plants, and milkweed is important for monarch survival (USFWS, 2020b).

4.3.3 Poweshiek skipperling (*Oarisma poweshiek*)

The Poweshiek skipperling, federally listed as endangered by USFWS, is a prairie butterfly that inhabits remnant prairie areas including prairie fens, grassy lake and stream margins, moist meadows, sedge meadows, and wet-to-dry prairie. This species relies on high-quality habitat conditions and on natural or human disturbances that maintain the integrity of these plant communities, while minimizing mortality to vulnerable life stages. During the short time that adults are alive (2 to 4 weeks in summer), they need sufficient high-quality nectar from flowers for feeding and healthy and abundant suitable grasses (host plants) for egg-laying. Larvae require sufficient host grasses to feed on throughout summer as well as suitable microhabitat (temperature and humidity). The species overwinters as a larva above ground on the blades or stem of the host plant; thus, they also need habitat that provides a suitable microclimate for shelter during the winter (USFWS, 2021a).

4.4 Mammals

4.4.1 Northern long-eared bat (*Myotis septentrionalis*)

The northern long-eared bat (NLEB), federally listed as threatened by USFWS, roosts in caves and abandoned mines during the winter months. This species occupies hardwood forests for roosting and foraging during the summer months. NLEBs roost singly or in colonies in cavities, crevices, hollows, or beneath the bark of live and dead trees and/or snags, regardless of tree species. This species prefers trees with a diameter-at-breast-height (dbh) of greater than or equal to 3 inches. Deviation from this typical habitat has been observed, with some bats roosting in man-made structures (sheds, barns, etc.) and males and non-reproductive females roosting in areas with colder temperatures (caves and mines). The NLEB forages at dusk on insects in forested hillsides and ridges (USFWS, 2021c).

4.4.2 Swift fox (*Vulpes velox*)

The swift fox, state listed as threatened by SDGFP, inhabits open prairies, plains, and shrubby desert areas and are usually found in areas with gently rolling hills or undulating topography. This species prefers short to midgrass prairies, and use den sites year-round (USFWS, 2019e). In South Dakota, swift fox were historically found statewide, but are currently found in the western part of the state, with a small population in southern Fall River County (SDGFP, 2020a). Breeding begins in February or March, with two to four pups born in April or May. The pups are born underground and emerge from the den after one month, and are weaned after six to seven weeks (USFWS, 2019e). The swift fox is an opportunistic forager, traveling at night in search of prey. Their diet includes jackrabbits, cottontails, prairie dogs, ground squirrels, mice, insects, birds, berries, vegetation, and carrion (SDGFP, 2020a).

4.5 Reptiles

4.5.1 Lined snake (*Tropidoclonion lineatum*)

The lined snake, state listed as endangered by SDGFP, is a small snake found in open grasslands and sparsely wooded areas preferring moist habitat near springs, ponds, marshes, streams, and rivers. They are also found in urban areas. In South Dakota, their distribution is restricted to the southeast corner of the state along the Big Sioux River corridor. Lined snakes are active at night and typically shelter beneath rocks and logs during the day. They are most active from April to October, and activity appears to increase after periods of rain. While lined

snakes are typically solitary, they can be found in groups in overwintering dens or during the breeding season. Mating occurs in the fall and females give birth to six to seven live young in mid-August (SDGFP, 2020a).

4.5.2 False map turtle (*Graptemys pseudogeographica*)

False map turtles, state listed as threatened, were once the most common turtle in the Missouri River. This species has an olive to brown carapace (shell) with knobs running down the center of the back and a saw-tooth edge along the rear border. The neck has yellow stripes with a yellow “L” shaped spot behind each eye. This species is found in rivers, reservoirs, lakes, and ponds with a muddy substrate, basking sites, and some aquatic vegetation. False map turtles use sparsely vegetated sand bars and beaches for nesting. There is evidence to suggest that this species prefers backwater habitats (areas connected to the main river channel but with reduced velocity and shallower depth) and areas where tributaries enter the Missouri River. In South Dakota, this species is primarily associated with the Missouri River (SDGFP 2020a).

4.6 Plants

4.6.1 Western prairie fringed orchid (*Platanthera praeclara*)

The western prairie fringed orchid (WPFO), federally listed as threatened by USFWS, is a perennial orchid of the North American tallgrass prairie. Generally, this species is found in several kinds of fire and grazing adapted communities dominated by species of Poaceae (grass family) (USFWS, 1996). It is found most often on unplowed, calcareous prairies and sedge meadows. It may also be found at disturbed sites in successional communities such as borrow pits, old field, and roadside ditches. The largest-known population of this species is located in the Sheyenne National Grassland in North Dakota, located approximately 70 miles to the northeast. This species is also found in North Dakota in the sedge meadow community on the Glacial Sheyenne Delta and in the tallgrass prairie community classified as Midland Grassland habitat type. Although South Dakota hosts areas of potential habitat, there are no known populations of the WPFO within the state. Status surveys have been conducted; however, due to the fact that the species may not flower every year, there is a possibility that plants may be overlooked (USFWS, 2021f).

5 Field Reconnaissance Methodology

Perennial biologists conducted pedestrian surveys of the 17,559.53-acre Project survey area from August through November, 2021 to characterize and determine if federally protected species and/or their potential habitat was present within a defined survey area. In general, the survey area consisted of a 300-foot-wide corridor for the proposed pipeline (**Appendix A**). If encountered, federally protected species habitats were documented using Environmental Systems Research Institute’s (ESRI’s) FieldMaps software on an iPhone XR equipped with a Trimble R1 GPS wireless Bluetooth receiver to geographically reference the location. These units have real-time and post-processed sub-meter accuracy. Geographic Information System software was used to analyze collected features and generate the attached mapping.

Other USFWS-approved methodologies will be applied during species-specific presence/absence surveys to be completed in spring/summer 2022. Documentation of the methods for the presence/absence surveys will be submitted to USFWS for review and approval prior to completing presence/absence surveys, and results will be submitted to USFWS and SDGFP for review and concurrence.

5.1 Aerial Interpretation

To date, field surveys have been completed for 61 percent of the Project survey area in South Dakota. However, due to ongoing landowner negotiations and engineering design, surveys have not yet been completed for 100 percent of the Project survey area. A summary of the areas that have not been surveyed to date is presented

in **Table 1** below and the locations are identified within mapping exhibits provided as **Appendix A**. Field surveys for these areas, which have not yet been surveyed to date, are anticipated to be completed in the spring of 2022, access and weather permitting.

County	Total Survey Area Acreage	Total Acres of Desktop Review	Percentage of Desktop Review
McPherson County	2120.86	713.33	34%
Edmunds County	927.44	361.13	39%
Brown County	1083.00	505.79	47%
Spink County	2716.34	1288.27	47%
Hand County	1189.98	289.23	24%
Hyde County	680.82	108.68	16%
Sully County	735.72	122.17	17%
Beadle County	1378.49	516.46	37%
Clark County	801.18	440.86	55%
Hamlin County	475.78	333.00	70%
Codington County	483.90	345.34	71%
Kingsbury County	1069.22	245.47	23%
Miner County	612.40	342.25	56%
Lake County	1196.57	343.81	29%
McCook County	81.52	0.00	0%
Minnehaha County	1064.27	624.88	59%
Turner County	80.09	19.28	24%
Lincoln County	861.97	332.72	39%
Totals	17559.53	6932.67	39%

For areas not yet field surveyed within the Project area, a desktop review was performed utilizing the following data sources:

- USGS 7.5 topographic quadrangle maps (USGS, 1982).
- LiDAR data,
- NWI data;
- U.S. Department of Agriculture (USDA) NRCS soils maps (USDA, 2020); and
- Google Earth historical aerial photography.

The USGS topographic maps and NWI maps were used to identify any potential habitat for listed species that may be present within the Project area. The NRCS soils maps were used to identify soil types that underlie the survey corridor. Aerial photography was used to compare photographic signatures with areas that were pedestrian surveyed and to look for photographic signatures that are consistent with wetlands and other habitat features in the region. In total, 6,932.67 acres of the Project survey area were reviewed utilizing desktop resources, and these areas are depicted on the attached mapping exhibits (**Appendix A**).

6 Results

6.1 Habitat within Project Area

Nine general habitat types were identified throughout the Project area, including forested land, active agricultural land, fallow agricultural land, prairie habitat, palustrine forested wetlands (PFO), palustrine sapling/shrub wetlands (PSS), palustrine emergent wetlands (PEM), tame/planted grasslands, and hayfields. A description of each encountered habitat type is presented below.

6.1.1 Forested Land

Forests within the Project area are characterized as hardwood forests. Dominant vegetation observed in forested land within the Project survey area consisted of boxelder (*Acer negundo*), smooth brome (*Bromus inermis*), green ash (*Fraxinus pennsylvanica*), Maximilian sunflower (*Helianthus maximiliani*), eastern red-cedar (*Juniperus virginiana*), common motherwort (*Leonurus cardiaca*), thicket-creeper (*Parthenocissus inserta*), reed canarygrass (*Phalaris arundinacea*), European buckthorn (*Rhamnus cathartica*), golden currant (*Ribes aureum*), white panicked American-aster (*Symphotrichum lanceolatum*), American elm (*Ulmus americana*), Siberian elm (*Ulmus pumila*), and stinging nettle (*Urtica dioica*).

6.1.2 Active Agricultural Land

Active agricultural land is comprised of areas that exhibit planted crops or actively (recently) plowed fields. Dominant vegetation observed in active agricultural land within the Project survey area consisted of horseradish (*Armoracia rusticana*), Canadian thistle (*Cirsium arvense*), orchard grass (*Dactylis glomerata*), creeping wildrye (*Elymus repens*), soybean (*Glycine max*), alfalfa (*Medicago sativa*), cultivated radish (*Raphanus sativus*), common wheat (*Triticum x aestivum*), broad-leaf Cattail (*Typha latifolia*), and corn (*Zea mays*).

6.1.3 Fallow Agricultural Land

Fallow agricultural land is comprised of areas where crop rows are present, but no cultivated vegetation was observed at the time of survey. This method is used to restore the land's fertility as part of a crop rotation or to avoid surplus production. These areas may be heavily vegetated, but without crop production. Dominant vegetation observed in fallow agricultural land within the Project survey area consisted of careless weed (*Amaranthus palmeri*), red-root (*Amaranthus retroflexus*), absinthium (*Artemisia absinthium*), Mexican-fireweed (*Bassia scoparia*), lamb's-quarters (*Chenopodium album*), barnyardgrass (*Echinochloa crus-galli*), creeping wildrye, soybean, black medick (*Medicago lupulina*), alfalfa, Kentucky bluegrass (*Poa pratensis*), curly dock (*Rumex crispus*), cereal rye (*Secale cereale*), and yellow bristlegrass (*Setaria pumila*).

6.1.4 Prairie Habitat

Prairie habitat consists of open land with a diverse mix of grass species. These include tall grass, mixed grass, and short grass prairie types. Dominant vegetation observed in prairie habitat within the Project survey area consisted of velvetleaf (*Abutilon theophrasti*), intermediate wheatgrass (*Agropyron intermedium*), careless weed, annual ragweed (*Ambrosia artemisiifolia*), perennial ragweed (*Ambrosia psilostachya*), big bluestem (*Andropogon gerardii*), white sagebrush (*Artemisia ludoviciana*), buffalograss (*Bouteloua dactyloides*), smooth brome, Canadian thistle, creeping wildrye, slender wildrye (*Elymus trachycaulus*), curlycup gumweed (*Grindelia squarrosa*), prairie sunflower (*Helianthus petiolaris*), smooth oxeye (*Heliopsis helianthoides*), fox-tail barley (*Hordeum jubatum*), prairie junegrass (*Koeleria nitida*), alfalfa, western-wheat grass (*Pascopyrum smithii*), Kentucky bluegrass, yard knotweed (*Polygonum aviculare*), little false bluestem (*Schizachyrium scoparium*), yellow bristlegrass, Canadian goldenrod (*Solidago canadensis*), stiff goldenrod (*Solidago rigida*), field sow-thistle (*Sonchus arvensis*), needle and thread

(*Stipa comata*), porcupine grass (*Stipa spartea*), western snowberry (*Symphoricarpos occidentalis*), white heath aster (*Symphyotrichum ericoides*), and common dandelion (*Taraxacum officinale*).

6.1.5 Wetlands

Wetlands are classified as areas that exhibit positive hydrology indicators, hydric soils, and hydrophytic vegetation. Dominant vegetation associated with wetlands is categorized by wetland type, including PEM, PSS, and PFO. The dominant vegetative species for each wetland type observed within the Project survey areas are listed in **Table 3** within **Appendix C**.

6.1.6 Tame/Planted Grasslands

Tame or planted grasslands consist of tame pastures of cultivated fields planted with introduced (non-native) grass and legume species or cultivars with the multiple purposes of providing livestock grazing and foraging. Dominant vegetation observed in tame/planted grasslands within the Project survey area consisted of crested wheatgrass (*Agropyron cristatum*), perennial ragweed, big bluestem, buffalograss, blue grama (*Bouteloua gracilis*), smooth brome, needleleaf sedge (*Carex duriuscula*), wavy-leaf thistle (*Cirsium undulatum*), creeping wild rye, slender wildrye, green ash, eastern red-cedar, perennial ryegrass (*Lolium perenne*), alfalfa, reed canarygrass, Kentucky bluegrass, eastern cottonwood (*Populus deltoides*), yellow bristle grass, European buckthorn, common dandelion, and broad-leaf cattail, American elm, and Siberian elm.

6.1.7 Hayfields

Hayfields are similar to other grasslands however they should show evidence of improvement and bailing. Dominant vegetation observed in hayfields within the Project survey area consisted of oat (*Avena sativa*), blue grama, smooth brome, redroot (*Ceanothus americanus*), orchardgrass, creeping wildrye, soybean, fox-tail barley, alfalfa, reed canarygrass, Kentucky bluegrass, tall false ryegrass (*Schedeonorus arundinaceus*), and common dandelion.

6.2 Species Effect Determinations

Based on the literature and background review conducted prior to field survey efforts, Perennial identified federally and state listed T&E and other protected species with the potential to occur within the counties impacted by the Project. The field surveys focused on determining if any of the listed species or their associated habitats were present within the Project area. The common name, scientific name, federal and state status, listed county, determination of effect, and assessment for each federally and state listed species are presented in **Table 2** below.

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Birds							
Bald Eagle	<i>Haliaeetus leucocephalus</i>	MBTA BGEPA	NL	Beadle ^b Brown ^b Clark ^b Codington ^b Edmunds ^b Hamlin ^b Hand ^b Hyde ^b Kingsbury ^b Lake ^b Lincoln ^b McCook ^b McPherson ^b Miner ^b Minnehaha ^b Spink ^b Sully ^b Turner ^b	Bald eagles prefer large rivers and lakes or wetlands bordered with mature stands of trees, or a single large tree, such as cottonwood. Breeding habitat often includes some type of edge and relatively open canopy. The large nests are usually built within the top quarter of tall, living trees, with fewer nests in dead trees. Nests are relatively close to water, typically less than 2 km. Every year, about 300 bald eagles winter in South Dakota along the Missouri River or in the Black Hills	Suitable habitat for the bald eagle may be present at various locations within the Project area in South Dakota, especially near large rivers and streams such as the Big Sioux River and the Vermillion River. Although bald eagles were observed during the survey, eagle nests were not observed within the Project area. In the event a bald eagle is observed prior to or during construction, SCS will coordinate with SDGFP. Additionally, SCS will adhere to the conservation measures established in the USFWS <i>National Bald Eagle Management Guidelines</i> .	N/A

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Piping Plover	<i>Charadrius melodus</i>	T	T	Clark ^b Codington ^b Edmunds ^b Kingsbury ^{a b} McPherson ^b Sully ^{a b}	Piping plovers are a migratory bird species that breed along the rivers and wetlands of the northern Great Plains from Nebraska to the southern Prairie Provinces in Canada. The breeding period is from April-August. This species primarily uses alkaline lakes and wetlands, large inland lakes, reservoirs, and rivers.	Suitable habitat for the piping plover may be present at various locations within the Project area, especially near large rivers such as the Big Sioux River. However, this species is only potentially present during the breeding season (April-August) where suitable sand bars or nesting habitat is found along major rivers. Construction activities will start prior to and will continue through the breeding season; therefore, individuals would be anticipated to utilize suitable habitat located outside of the Project area where disturbance is actively occurring. Additionally, this species is highly mobile and would likely avoid the construction area. Therefore, the Project is not likely to adversely affect the piping plover	<i>Not Likely to Adversely Affect</i>

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Red Knot	<i>Calidris canutus rufa</i>	T	NL	Beadle ^a Brown ^a Clark ^a Codington ^a Edmunds ^a Hamlin ^a Hand ^a Hyde ^a Kingsbury ^a Lake ^a Lincoln ^a McCook ^a McPherson ^a Miner ^a Minnehaha ^a Spink ^a Sully ^a Turner ^a	Red knots are a long- distance migratory bird species that migrate annually between their breeding grounds on the Canadian tundra and various wintering grounds in South America and the Gulf of Mexico. During migration, this species relies on alkaline and saline lakes, riverine wetlands, sandbars, and manmade impoundments.	Suitable habitat for the red knot may be present at various locations within the Project area. However, this species is only present during migration (March-May, July-September) and South Dakota does not host one of the designated key stopover areas for the red knot. Construction activities will start prior to and will continue through when the red knots would be expected to inhabit the area during migration. Therefore, it is anticipated that the red knot would utilize similar habitat beyond the Project area where disturbance is actively occurring. Additionally, this species is highly mobile and would likely avoid the construction area. Therefore, the Project is not likely to adversely affect the red knot.	<i>Not Likely to Adversely Affect</i>

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Whooping Crane	<i>Grus americana</i>	E	E	Beadle ^{a b} Brown ^{a b} Clark ^{a b} Edmunds ^{a b} Hamlin ^a Hand ^{a b} Hyde ^{a b} Kingsbury ^{a b} McPherson ^{a b} McCook ^{a b} Miner ^{a b} Spink ^{a b} Sully ^{a b} Turner ^a	Whooping cranes utilize shallow, freshwater ponds, tidal flat, herbaceous wetlands, marshes and wet prairies as they migrate from their breeding grounds in Wood Buffalo National Park in Alberta, Canada to their wintering grounds in Aransas National Wildlife refuge on the Texas coast. Whooping cranes rely on wetland mosaics, riverine habitats, shallow, seasonally and semi-permanently flooded palustrine wetlands for roosting, and various cropland and emergent wetlands for feeding. Whooping cranes are observed in South Dakota beginning in early to mid-April during the spring and again in October during the fall migration. During migration, they can be found anywhere in South Dakota, but are most commonly found along and adjacent to the Missouri River.	Suitable habitat for the whooping crane may be present in the Project area. Construction activities will start prior to and will continue through when the whooping cranes would be expected to inhabit the area during migration. Therefore, it is anticipated that the whooping crane would utilize similar habitat beyond the Project area where disturbance is actively occurring. Additionally, this species is highly mobile and would likely avoid the construction area. In the event a whooping crane is observed prior to or during construction, SCS will coordinate with SDGFP.	<i>Not Likely to Adversely Affect</i>

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Interior Least Tern	<i>Sternula antillarum athalassos</i>	N/A ¹	E	Sully ^b	Interior least terns are a migratory bird species typically found along large rivers. The nesting areas are barren, treeless beaches of sand, gravel, or shells; dry mudflats and salt flats; and sand and gravel pits along rivers. Interior least terns arrive in South Dakota in early May and leave at the end of the summer. In South Dakota, interior least terns nest along the Missouri and Cheyenne rivers, with the majority nesting below Gavin's Point Dam.	Suitable habitat for the interior least tern may be present west and south of the Project area. However, this species is only present in South Dakota during the nesting season (May-August). Construction activities will start prior to and will continue through when the least tern would be expected to inhabit the area during migration. Therefore, it is anticipated that the least tern would utilize similar habitat beyond the Project area where disturbance is actively occurring. Additionally, this species is highly mobile and would likely avoid the construction area. Therefore, the project is not likely to adversely impact the interior least tern.	<i>Not Likely to Adversely Affect</i>

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Greater prairie chicken	<i>Tympanuchus cupido</i>	NL ^c	NL	Hand ^b Hyde ^b Sully ^b Beadle ^b	The greater prairie chicken is endemic to the grasslands of the central U.S. Great Plains, and exists primarily in undisturbed tallgrass prairie. Due to habitat fragmentation and loss through agricultural development, the current range of the greater prairie chicken is in northeast Colorado, Kansas, Nebraska, South Dakota, North Dakota, Minnesota and a small northwest section of Iowa. Habitat in the core of the greater prairie-chicken's distribution in South Dakota (Fort Pierre National Grassland and Lower Brule Indian Reservation) is primarily mid-grass prairie where dominant grasses include western wheatgrass (<i>Agropyron smithii</i>) and green needlegrass (<i>Stipa viridula</i>).	Suitable habitat for the lesser prairie chicken may be present in the Project area, especially in the mid and tall grass prairie regions. However, determination is pending further coordination with SDGFP regarding species range and potential need for presence/absence surveys.	Undetermined
Sharp-tailed grouse	<i>Tympanuchus phasianellus</i>	NL	NL	McPherson ^b Edmunds ^b Brown ^b Spink ^b Clark ^b Codington ^b Hamlin ^b Beadle ^b Hand ^b Hyde ^b Sully ^b Kingsbury ^b Miner ^b Lake ^b McCook ^b Minnehaha ^b	The sharp-tailed grouse commonly occupies brushy areas, openings, and bogs in boreal forest. In winter, sharp-tailed grouse rely on riparian areas, deciduous hardwood shrub gullies, and grasslands. This species typically utilized deciduous trees and shrubs for feeding, roosting, and cover. Nests are shallow, hollowed-out depressions on the ground, commonly located beneath low shrubs and can be found on flat land or slopes facing north/northeast.	Suitable habitat for the sharp-tailed grouse may be present in the Project area, especially in grassland-shrub areas with adequate ground-cover and riparian zones of streams. However, determination is pending further coordination with SDGFP regarding species range and potential need for presence/absence surveys.	Undetermined

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Fish							
Topeka Shiner	<i>Notropis topeka</i>	E	NL	Beadle ^a Brown ^a Clark ^a Codington ^a Hamlin ^a Hand ^a Kingsbury ^a Lincoln ^a McCook ^a McPherson ^a Miner ^a Minnehaha ^a Spink ^a Turner ^a	Topeka shiners are found in small prairie streams and creeks that exhibit perennial and nearly perennial flow. Substrate is usually clean gravel, cobble, or sand. Topeka shiners exist in fragmented and isolated populations throughout the prairie regions of South Dakota, Minnesota, Kansas, Iowa, and Missouri. Spawning occurs from late-May to mid-August, depending on water temperature.	Suitable habitat for the Topeka shiner may be present in the Project area, especially in the tributaries of the Big Sioux River (Minnehaha County), the Vermillion River (Lake, McCook, Minnehaha, Lincoln, and Turner counties), and the James River (Brown, Spink, Beadle, Kingsbury, Miner, and McCook counties). However, SCS will coordinate with USFWS to implement minimization measures for this species, such as HDD crossing, among other measures. Therefore, the Project is <i>not likely to adversely affect</i> the Topeka <u>shiner</u> .	<i>Not Likely to Adversely Affect</i>
Pallid Sturgeon	<i>Scaphirhynchus albus</i>	E	E	Hyde ^{a b} Sully ^{a b}	Pallid sturgeon historically inhabited the Missouri, Big Sioux, Vermillion, and James rivers in South Dakota. The conditions are large, free-flowing, and turbid with diverse assemblages of dynamic physical habitat.	Suitable habitat for the pallid sturgeon may be present in the Project area within the Big Sioux River. However, the recorded range in the Big Sioux River for this species does not extend up to the Project area. Additionally, the only Project activities within this area will consist of horizontal directional drilling beneath the Big Sioux River, thereby, avoiding impacts. There will be no dredging or other impacts in this area. Therefore, the Project will have <i>no effect</i> on this species.	<i>No Effect</i>

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Northern Redbelly Dace	<i>Chrosomus eos</i>	NL	T	Codington ^b Hamlin ^b Kingsbury ^b Lincoln ^b McCook ^b Miner ^b Minnehaha ^b Turner ^b	Northern redbelly dace inhabit spring-fed streams with adequate vegetation, slow to moderate current, and silt or sand substrates. Habitat also includes boggy lakes, ponds, beaver ponds, and pools of headwater stream. Within South Dakota, northern redbelly dace are found primarily east of the Missouri River and have been reported from tributaries of the Missouri, Big Sioux, Minnesota, White, Niobrara, and Keya Paha river drainages.	Suitable habitat for the northern redbelly dace may present in the Project area in tributaries of the Missouri and Big Sioux rivers. However, determination is pending further coordination with USFWS regarding species range and potential need for presence/absence surveys.	Undetermined
Banded Killifish	<i>Fundulus diaphanous</i>	NL	E	Brown ^b McPherson ^b Edmunds ^b	Banded killifish may be found in either lentic (freshwater lakes or ponds) or lotic (rivers or streams) habitats, with the fish preferring quiet and shallow waters of sloughs, marshes, ponds, and lakes, as well as low gradient streams with gravel and sand substrate and abundant vegetation. Banded killifish have been reported from a few lakes in eastern South Dakota which is on the western periphery of its range. Since 2000, reported banded killifish have been limited to the inlet of Bitter Lake, Day County and Little Eureka Lake, McPherson County.	Suitable habitat for the banded killifish may be present in the Project area, especially in quiet shallow streams ponds, and lakes within McPherson County (Hydrologic Unit Code 10: 1013010603). However, determination is pending further coordination with SDGFP regarding species range and potential need for presence/absence surveys.	Undetermined
Blacknose Shiner	<i>Notropis heteroleps</i>	NL	E	Brown ^b Codington ^b	Blacknose shiner prefer cool, highly vegetated streams, small rivers, and lakes with sandy substrates. In South Dakota, blacknose shiner have been reported from tributaries of the James and Keya Paha River basins.	Suitable habitat for the blacknose shiner may be present in the project area in the tributaries of the James and Paha River basins. However, determination is pending further coordination with USFWS regarding species range and potential need for presence/absence surveys.	Undetermined

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Insects							
Dakota Skipper	<i>Hesperia dacotae</i>	T	NL	Codington ^{a b} Hamlin ^{a b} McPherson ^{a b}	Dakota skippers inhabit remnants of tallgrass prairie and mixed-grass prairie in the north-central United States. In South Dakota, habitat may be either Type A habitat: low wet-mesic prairie dominated by bluestem grasses, with wood lily, bluebell bellflower, and mountain death camas almost always present; or Type B habitat: rolling terrain over gravelly glacial moraine deposits and is dominated by big bluestem, little bluestem, purple coneflower, and needle-and-thread or porcupine grasses.	Suitable habitat for the Dakota skipper may be present in the Project area. However, determination is pending further coordination with USFWS and SDGFP regarding species range and potential need for presence/absence surveys.	<i>Undetermined</i>
Monarch Butterfly	<i>Danaus plexippus</i>	C	NL	Beadle ^b Brown ^b Clark ^b Codington ^b Edmunds ^b Hamlin ^b Hand ^b Hyde ^b Kingsbury ^b Lake ^b Lincoln ^b McCook ^b McPherson ^b Miner ^b Minnehaha ^b Spink ^b Sully ^b Turner ^b	Adult monarch butterflies require a diversity of blooming nectar resources for feeding during breeding (spring through fall) and migration. Monarchs also need milkweed (<i>Asclepias</i> spp.) embedded within this diverse nectaring habitat to use for both oviposition and larval feeding	Suitable habitat for the monarch butterfly may be present in the Project area. However, there are generally no Section 7 requirements for candidate species, though agencies are encouraged to take advantage of any opportunity to conserve the species. Therefore, determination of effect for this species is not applicable.	<i>N/A</i>

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Poweshiek Skipperling	<i>Oarisma poweshiek</i>	E	NL	Clark ^a Codington ^{a b} Hamlin ^{a b}	Poweshiek skipperling habitat includes remnant prairie areas including prairie fens, grassy lake and stream margins, moist meadows, sedge meadows, and wet-to-dry prairie.	Suitable habitat for the Poweshiek skipperling may be present in the Project area. However, since the time of listing in 2014, there have been no sightings in South Dakota and there are no sites where the Poweshiek skipperling is currently considered to be present in South Dakota. Therefore, the Project will have no effect on this species.	No Effect
Mammals							
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	T	NL	Beadle ^a Brown ^a Clark ^a Codington ^a Edmunds ^a Hamlin ^a Hand ^a Hyde ^a Kingsbury ^a Lake ^a Lincoln ^a McCook ^a McPherson ^a Miner ^a Minnehaha ^a Spink ^a Sully ^a Turner ^a	NLEB summer roosting habitat includes large trees and snags with shingled bark, crevices, or cavities for roosting. Additionally, this species may roost in human structures, such as sheds or barns. Winter hibernation habitat includes caves and abandoned mines.	Suitable summer roosting habitat may be present within the Project area. However, all tree clearing will occur outside the pup season (June 1 through July 31). Tree clearing is not designated as “take” within the aforementioned timeframe under the 4(d) rule. Additionally, no suitable winter hibernation habitat occurs within the Project area. Therefore, the Project is not likely to adversely affect the NLEB.	Not Likely to Adversely Affect

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
Swift Fox	<i>Vulpes velox</i>	C	T	Hyde ^b Sully ^b	The swift fox inhabits open prairies, plains, and shrubby desert areas away from extensively cultivated land. In South Dakota, swift foxes are typically found in the western part of the state, usually in areas with gently rolling hills or undulating topography. Swift foxes prefer short to midgrass prairies. This species uses den sites year-round. It may excavate its own den or occupy abandoned badger dens or prairie dog burrows on or near hilltops. Dens may also occur in a sandy stream valley or along a fencerow.	Suitable habitat may be present within the Project area, especially in Sully and Hyde Counties. However, determination is pending further coordination with SDGFP regarding species range and potential need for presence/absence surveys	Undetermined
Reptiles							
Lined Snake	<i>Tropidoclonion lineatum</i>	NL	E	Lincoln ^b Minnehaha ^b	The lined snake is found in open grasslands and sparsely wooded areas preferring moist habitat near springs, ponds, marshes, streams, and rivers. They are also found in urban areas. Distribution is restricted to the southeast corner of South Dakota along the Big Sioux River corridor.	Suitable habitat for the lined snake may be present in the Project area in the tributaries of the Big Sioux River. However, determination is pending further coordination with SDGFP regarding species range and potential need for presence/absence surveys.	Undetermined

Table 2
Federal and State Listed Threatened and Endangered Species Potentially Occurring within the Project Area

Common Name	Scientific Name	Federal Status	State Status	County(ies)	Habitat Description	Project Impact Assessment	Determination of Effect
False Map Turtle	<i>Graptemys Pseudogenographica</i>	NL	T	Sully ^b Hyde ^b	False map turtles are found in rivers, reservoirs, lakes, and ponds with a muddy substrate. This species prefers backwater habitats and areas where tributaries enter the Missouri River. In South Dakota, this species is most often found along the Missouri River, such as in Sully and Hyde counties.	Suitable habitat for the false map turtle may be present in the Project area. However, the Project area within the range of this species has largely been converted to agricultural use. One small pond and wetland complex is present within the species range and Project area, but due to the small size of the feature and its isolation from other lakes, rivers, and ponds, it is highly unlikely to support this species. Therefore, the project is not likely to adversely affect the false map turtle.	<i>Not Likely to Adversely Affect</i>
Flowering Plants							
Western Prairie Fringed Orchid	<i>Platanthera praeclara</i>	T	NL	Lake ^a Lincoln ^a McCook ^a Miner ^a Minnehaha ^a Turner ^a	WPFO are found most often on unplowed, calcareous prairies and sedge meadows. Soil moisture is a critical determinant of growth, flowering, and distribution of western prairie fringed orchid. The persistence of WPFO is dependent on periodic disturbance by fire, mowing, or grazing	Status surveys have been completed for the WPFO in South Dakota, but currently there are no known populations of this species in South Dakota. Therefore, the Project will have no effect on this species.	<i>No Effect</i>

BGEPA= Bald and Golden Eagle Protection Act

C = Candidate

E = Endangered

MBTA= Migratory Bird Treaty Act

N/A = Not Applicable

NL = Not Listed

T = Threatened

¹ This species is federally listed as endangered, but was not listed in the Project-specific IPaC search results. Therefore, federal status is not considered for this species in relation to this Project.

^a Sourced from South Dakota Species by County List (2021)

^b Sourced from South Dakota Environmental Review Tool

^c Species is not currently listed under the Endangered Species Act (ESA), but is considered "vulnerable"

7 Impacts and Minimization Measures Discussion

7.1 Piping plover, red knot, and interior least tern

Potentially suitable habitat for the piping plover, red knot and least tern may be present along the proposed Project route; however, these species are only present during the migration and breeding seasons (comprehensively March through September). SCS will minimize impacts on suitable stopover, foraging and nesting habitat located within the Project area by implementing the following measures:

- Construction activities will begin prior to and continue through the breeding or migratory period for the above listed species. Therefore, it is anticipated that individuals would utilize suitable habitat located outside of the Project area where disturbance is not actively occurring.
- All rivers and major waterbodies will be crossed via HDD. No dredging or other impacts will occur to major river systems.
- All temporarily impacted wetlands will be returned to pre-construction contours and allowed to revegetate naturally upon completion of construction. SCS has also designed the Project to avoid the placement of permanent fill in wetlands to the greatest extent practicable; thereby, minimizing the permanent loss of wetlands which could provide suitable habitat for the piping plover, red knot and interior least tern. In the event that any of these species are observed in the Project area prior to or during construction, SCS will consult with USFWS and SDGFP to identify recommended measures to avoid and/or minimize impacts.

Based on the mitigation measures listed above, the Project is *not likely to adversely affect* the piping plover, red knot, or interior least tern.

7.2 Whooping crane

Potentially suitable habitat for the whooping crane may be present along the Project route; however, this species is only present during the spring and fall migration (April and October, though migration timeframes may shift slightly from year to year). SCS will minimize impacts on suitable stopover and foraging habitat located within the Project area by implementing the following measures:

- Construction activities will begin prior to and continue through the migratory period for the whooping crane. Therefore, it is anticipated that individuals would utilize suitable habitat located outside of the Project area where disturbance is not actively occurring.
- All rivers and major waterbodies will be crossed via HDD. No dredging or other impacts will occur to major river systems.
- Contractors performing work will be educated on how to identify a whooping crane and be advised that if a crane appears within 1,000 feet of construction activities, all work will cease until the crane or cranes move outside the 1,000-foot buffer area.
- If equipment over 15 feet high is to be used for project work, the equipment will be flagged or marked to increase visibility to whooping cranes and lessen the risk of collisions.
- During nighttime hours and periods of low visibility all construction equipment containing components that could reach 15 feet (i.e., track hoe boom) would be lowered to prevent any potential interference with whooping crane individuals, should they be traveling at lower altitudes in the vicinity of the Project area.
- All temporarily impacted wetlands will be returned to pre-construction contours and allowed to revegetate naturally upon completion of construction. SCS has also designed the Project to avoid the placement of permanent fill in wetlands to the greatest extent practicable; thereby, minimizing the

permanent loss of wetlands which could provide suitable stopover habitat for the whooping crane. In the event that any of these species are observed in the Project area prior to or during construction, SCS will consult with USFWS and SDGFP to identify recommended measures to avoid and/or minimize impacts.

Based on the mitigation measures listed above, the Project is *not likely to adversely affect* the whooping crane.

7.3 Topeka shiner

Potentially suitable habitat and critical habitat for the Topeka shiner is present along the proposed Project route. However, this species' occurrence is well-documented by USFWS. SCS is coordinating with USFWS to identify known locations of Topeka shiner as well as associated tributaries of those waterbodies. SCS plans to either conduct presence/absence surveys or cross those waterbodies via trenchless methods where Topeka shiner are known to occur. Within the associated tributaries, SCS plans to utilize dry crossing methods such as dam and pump or flume, to prevent entrapment and minimize disturbance of the species. Therefore, the Project is *not likely to adversely affect* the Topeka shiner.

7.4 Northern long-eared bat

Potentially suitable summer roosting habitat for NLEB may be present along the proposed Project route. NLEB is protected by the 4(d) rule of the ESA. The 4(d) rule targets the take prohibitions to only those that provide conservation benefits for the species. This targeted approach can reduce ESA conflicts by allowing some activities that do not harm the species to continue, while focusing efforts on the threats that make a difference to the species' recovery.

For NLEB, the 4(d) rule tailors protections to areas affected by White-Nose Syndrome (WNS) during the bat's most sensitive life stages, such as the breeding season. The rule is designed to protect the bat while minimizing regulatory requirements for landowners, land managers, government agencies and others within the species' range. For NLEB, the 4(d) rule prohibits "purposeful take" of the species (with some exceptions such as removal of hazardous trees or in defense of human life). The 4(d) rule also prohibits "incidental take" of species in the WNS zone. "Incidental take" is prohibited under the following circumstances:

- If it occurs within a hibernaculum.
- If it results from tree removal activities and
 - the activity occurs within 0.25 mile (0.4 kilometer) of a known hibernaculum; or
 - the activity cuts or destroys a known, occupied maternity roost tree or other trees within a 150-foot radius from the maternity roost tree during the pup season from June 1 through July 31 (USFWS, 2016b).

It is anticipated that any individuals located within the Project area at the time of construction would relocate to adjacent non-disturbed areas. However, in accordance with the 4(d) rule, SCS will minimize impacts on suitable summer roosting habitat located within the Project area by implementing the following measures:

- Construction activities will begin prior to and continue through the breeding period for NLEB. Therefore, individuals would be anticipated to utilize suitable habitat located outside of the Project area where disturbance would not be actively occurring.
- All tree clearing will occur outside of the pup season (June 1 through July 31). Tree clearing is not designated as "take" within the aforementioned timeframe under the 4(d) rule.
- SCS has designed the Project area to limit the amount of workspace through forested areas to only that which is necessary to safely construct the proposed Project. Additionally, all temporarily impacted areas will be allowed to revegetate naturally upon completion of construction.

Based on the mitigation measures listed above, the Project is *not likely to adversely affect* NLEB.

7.5 False map turtle

Potentially suitable habitat for the false map turtle may occur within the Project area. However, the documented range of this species is limited near the Project area, overlapping approximately 0.50 mile of the proposed Project route. Potentially suitable habitat for the false map turtle within this overlap is limited to a small, isolated pond-wetland complex totaling 0.17 acre (pond feature ID: S2007SU010; wetland feature ID: W2007SU027). This pond-wetland complex is located between MP 0.4 and MP 0.5 on pipeline SDL-320. Due to the small size of this pond and its isolation from other suitable habitat, it is unlikely that this habitat could support the false map turtle. Additionally, all temporarily impacted areas will be allowed to revegetate naturally upon completion of construction. Therefore, the Project is *not likely to adversely affect* the false map turtle.

7.6 Birds of Conservation Concern

Of the BCC species identified as having the potential to occur within the Project area, 17 occur in the Project area during the breeding season and six species potentially occur during migration. Project activities with the potential to result in adverse impacts on these 23 BCC species include the clearing of vegetation and increased noise during Project construction and operation.

Although the Project will result in the clearing of potential habitat for several of the BCC species, there is a significant amount of similar habitat surrounding the Project, and individuals potentially present during construction would likely avoid the area or displace to similar adjacent habitats. While this could result in increased competition in nearby habitats, the population-level effects of this potential displacement are not anticipated to be significant due to the abundant amount of similar habitat in the area. Project clearing activities are anticipated to begin and continue throughout the nesting period (April 1 to September 10) for all BCC. Therefore, individuals would be anticipated to utilize suitable habitat located outside of the Project area where disturbance would not be actively occurring. However, if Project activities are delayed, SCS will conduct nest surveys prior to construction to prevent adverse impacts on BCC species with suitable breeding habitat in the Project area. The nesting period for BCC in the Project area varies by nesting habitat. The nesting period for BCCs that construct ground nests is from April 1 to August 31 (USFWS 2022a, USFWS 2022b). The nesting period for BCCs that construct tree nests is from March 1 to September 10. Further, all temporarily disturbed areas will be allowed to revegetate upon completion of construction. Therefore, significant impacts on migratory birds resulting from the clearing of vegetation during the Project are not anticipated to occur.

Migratory birds present within the Project area may be adversely affected by noise associated with construction and operation of the Project facilities. Noise impacts associated with construction activities will be temporary and of short duration as the noise levels within a majority of the Project areas will return to pre-construction levels immediately following completion of construction activities. Noise associated with the aboveground facilities will be permanent; however, the noise generating aboveground facilities associated with the Project are either located adjacent to existing industrial facilities or within an area with an abundance of similar, adjacent habitats that would support any migratory birds displaced by noise emanating from the aboveground permanent facilities. Therefore, noise associated with construction and operation of the Project is not anticipated to significantly impact the BCC species that could potentially occur in the Project area.

8 Summary

A total of nine federally listed species and ten state listed species were identified as potentially occurring within the Project area. Based upon field surveys and review of available sources, it has been determined that the Project will either have *No Effect* or is *Not Likely to Adversely Affect* seven of the federally listed T&E species and five of the state listed T&E species that could potentially occur within the Project area. The seven federally listed T&E species for which the Project will either have *No Effect* or is *Not Likely to Adversely Affect* include the piping plover,

red knot, whooping crane, pallid sturgeon, Topeka shiner, northern long-eared bat, Poweshiek skipperling, and western prairie fringed orchid. The five state listed T&E species for which the Project will either have *No Effect or is Not Likely to Adversely Affect* include the piping plover, whooping crane, pallid sturgeon, false map turtle and interior least tern. The species effect determination is not applicable for the monarch butterfly, which is currently listed as a candidate species. Nor is the species effect determination applicable for the bald eagle, which is protected under the MBTA and BGEPA. The Project impact assessment is *Undetermined* for one federally listed species: the Dakota skipper; and the remaining five state-listed species: the northern redbelly dace, the banded killifish, the blacknose shiner, the swift fox, and the lined snake. Though the sharp-tailed grouse and greater prairie chicken are not currently listed by USFWS or SDGFP, SDGFP has indicated that these species be considered in the Project review. The Project impact assessment for the sharp-tailed grouse and prairie chicken is *Undetermined*. Project impact determinations for these eight species are pending further coordination with USFWS and/or SDGFP regarding species range and potential need for presence/absence surveys, which, if recommended, will be completed in summer of 2022 in accordance with an USFWS-approved survey protocol for the Project.

9 References

- NRCS. 2007. Sharp-tailed Grouse (*Tympanuchus phasianellus*).
https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_010110.pdf.
- DGFP. 2003. Topeka Shiner (*Notropis topeka*) Management Plan for the State of South Dakota. South Dakota Department of Game, Fish and Parks.
- SDGFP. 2005. South Dakota Bald Eagle (*Haliaeetus leucocephalus*) Management Plan. Pierre: South Dakota Game, Fish, and Parks: Wildlife Division.
- SDGFP. 2016. State and Federally Listed Threatened, Endangered, and Candidate Species Documented in South Dakota by County. South Dakota Game Fish and Parks.
- SDGFP. 2020a. Biennial Commission Review of SD Threatened and Endangered Species List.
- SDGFP. 2020b. State T&E Species Status Reviews. South Dakota Game Fish and Parks.
- SDGFP. 2022. South Dakota Environmental Review Tool. South Dakota Game Fish and Parks. <https://ert.gfp.sd.gov/>
- SDGFP. 2022.
- South Dakota Birds and Birding. 2022. Greater Prairie Chicken (*Tympanuchus cupido*).
https://www.sdakotabirds.com/species/greater_prairie_chicken_info.htm. South Dakota Wildlife Action Plan Explorer. South Dakota Game Fish and Parks. <https://apps.sd.gov/gf43wap/Default.aspx>
- South Dakota Natural Heritage Program. 2021, October 01. Natural Heritage Program Data. Retrieved from South Dakota Game Fish and Parks: <https://gfp.sd.gov/forms/heritagedata/>
- USFWS. 1973. Endangered Species Act of 1973. Department of the Interior: United States Fish and Wildlife Service.
- USFWS. 1996. Western Prairie Fringed Orchid Recovery Plan (*Platanthera praeclara*). Ft Snelling, Minnesota: US Fish and Wildlife Service.
- USFWS. 2005. Greater Prairie-Chicken (*Tympanuchus cupido*): A Technical Conservation Assessment.
https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5295645.pdf
- USFWS. 2007a. International recovery plan for the whooping crane. Albuquerque, New Mexico: United States Fish and Wildlife Service.
- USFWS. 2007b. National Bald Eagle Management Guidelines. United States Fish and Wildlife Service.
- USFWS. 2008. Birds of Conservation Concern 2008.
<https://www.fws.gov/migratorybirds/pdf/management/BCC2008.pdf>.
- USFWS. 2010. 50 CFR Parts 10 and 21 General Provisions; Migratory Birds Revised List and Permits; Final Rules.
<https://www.fws.gov/migratorybirds/pdf/policies-and-regulations/MBTAListofBirdsFinalRule.pdf>
- USDA. 2020. Web Soil Survey. Retrieved from Natural Resources Conservation Service:
<http://websoilsurvey.nrcs.usda.gov>
- USFWS. 2014. Revised Recovery Plan for the Pallid Sturgeon (*Scaphirhynchus albus*). Denver: United States Fish and Wildlife Service.

- USFWS. 2016a. Draft Revised Recovery Plan for the Northern Great Plains Piping Plover. Denver, Colorado: United States Fish and Wildlife Service.
- USFWS. 2016b, January. Northern Long-Eared Bat. Retrieved from Midwest Region Endangered Species: <https://www.fws.gov/midwest/endangered/mammals/nleb/FAQsFinal4dRuleNLEB.html>
- USFWS. 2017. ESA Basics. Falls Church, VA: United States Fish and Wildlife Service, Ecological Services.
- USFWS. 2018. Dakota Skipper (*Hesperia dacotae*) Report on the Species Status Assessment V2. United States Fish and Wildlife Service.
- USFWS. 2019a, May 29. Midwest Region Endangered Species Dakota Skipper (*Hesperia dacotae*). Retrieved from U.S. Fish and Wildlife Services: <https://www.fws.gov/midwest/endangered/insects/dask/daskFactsheet.html>
- USFWS. 2019b, May 29. Midwest Region Endangered Species Piping Plover Fact Sheet. Retrieved from United States Fish & Wildlife Service: <https://www.fws.gov/midwest/endangered/pipingplover/pipingpl.html>
- USFWS. 2019c, July 10. South Dakota ES - Bald Eagle Mountain-Prairie Region. Retrieved from U.S. Fish and Wildlife Service: <https://www.fws.gov/mountain-prairie/es/SouthDakota/species/eagle.php>
- USFWS. 2019d, July 10. South Dakota ES - Pallid Sturgeon Mountain - Prairie. Retrieved from U.S. Fish and Wildlife Service: <https://www.fws.gov/mountain-prairie/es/SouthDakota/species/sturgeon.php>
- USFWS. 2019e, July 10. South Dakota ES - Swift Fox Mountain-Prairie Region. Retrieved from U.S. Fish and Wildlife Services: <https://www.fws.gov/mountain-prairie/es/SouthDakota/species/sfox.php>
- USFWS. 2019f, July 10. South Dakota ES - Topeka Shiner Mountain-Prairie Region. Retrieved from U.S. Fish and Wildlife Services: <https://www.fws.gov/mountain-prairie/es/SouthDakota/species/topeka.php>
- USFWS. 2020a, November 30. Midwest Region Endangered Species. Retrieved from U.S. Fish and Wildlife Services: <https://www.fws.gov/midwest/endangered/birds/leastern/IntLeastTernFactSheet.html>
- USFWS. 2020b. Monarch (*Danaus plexippus*) Species Status Assessment Report, V2.1. United States Fish and Wildlife Service.
- USFWS. 2020c. Monarch Butterfly (*Danaus plexippus*). Retrieved from ECOS: Environmental COnservation Online System: <https://ecos.fws.gov/ecp/species/9743>
- USFWS. 2020d. Piping Plover (*Charadrius melodus*) 5-Year Review: Summary and Evaluation. East Lansing, Michigan: US Fish and Wildlife Office, Michigan Field Office.
- USFWS. 2021a. Draft Recovery Plan for Poweshiek Skipperling (*Oarisma poweshiek*). Bloomington, MN: United States Fish and Wildlife Service. Midwest Regional Office.
- USFWS. 2021b. Draft Recovery Plan for the Rufa Red Knot (*Calidris canutus rufa*). Galloway, New Jersey: North Atlantic-Appalachian Region (Interior Region I) Fish and Wildlife Service.
- USFWS. 2021c, August. ECOS: Environmental Conservation Online System. Retrieved from Species Profile: Northern Long-Eared Bat (*Myotis septentrionalis*): <https://ecos.fws.gov/ecp/species/9045>
- USFWS. 2021d. IPaC Resource List. US Fish and Wildlife Service.

USFWS. 2021e. Recovery Plan for Dakota Skipper (*Hesperia dacotae*). Midwest Region 3: United States Fish and Wildlife Services.

USFWS. 2021f. South Dakota Listed Species by County List. Pierre, SD: United States Fish and Wildlife Service: South Dakota Field Office.

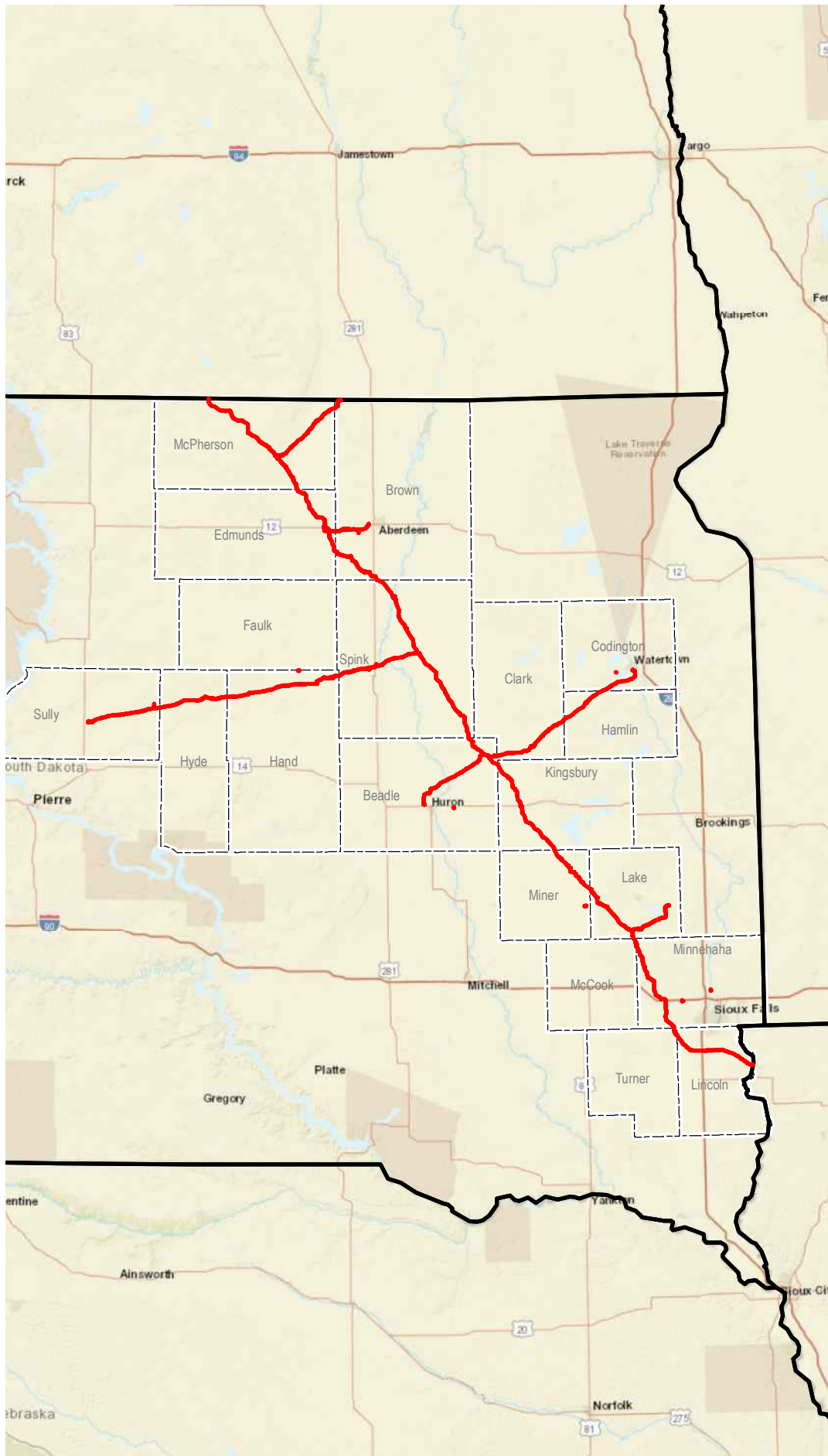
USFWS. 2022a. Environmental Conservation Online System. United States Fish and Wildlife Services.
<https://ecos.fws.gov/ecp/>.

USGS. 1993. 7.5-Minute Topographic Quadrangle Map. U.S. Geological Survey.

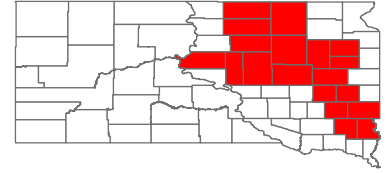
Appendix A – Mapping Exhibits

Vicinity Map

PROJECT OVERVIEW MAP



VICINITY MAP



LEGEND

- Environmental Survey Area
- County Boundary
- State Boundary

0 25 50 Miles



REVISIONS

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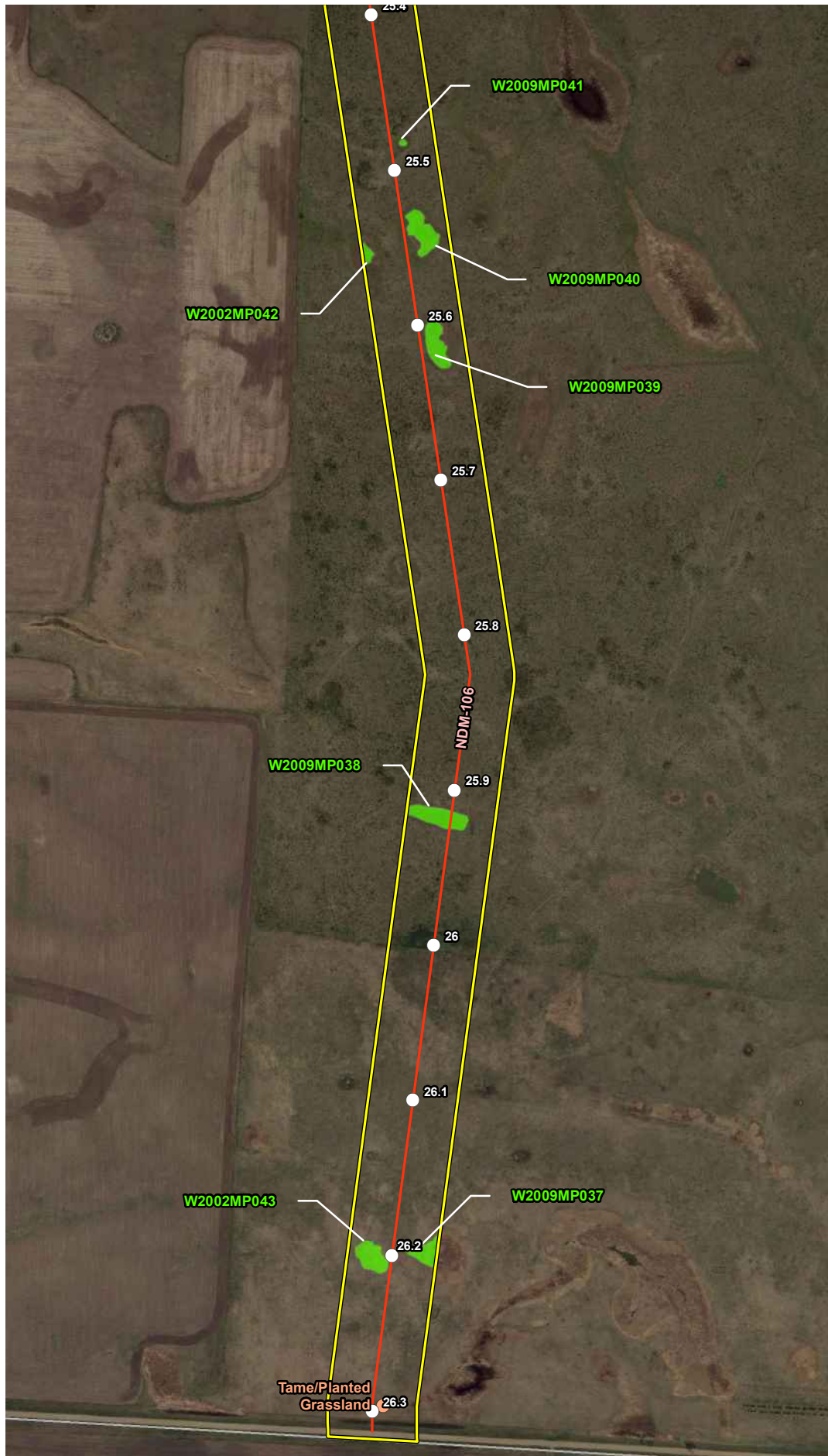
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Aerial Map

AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



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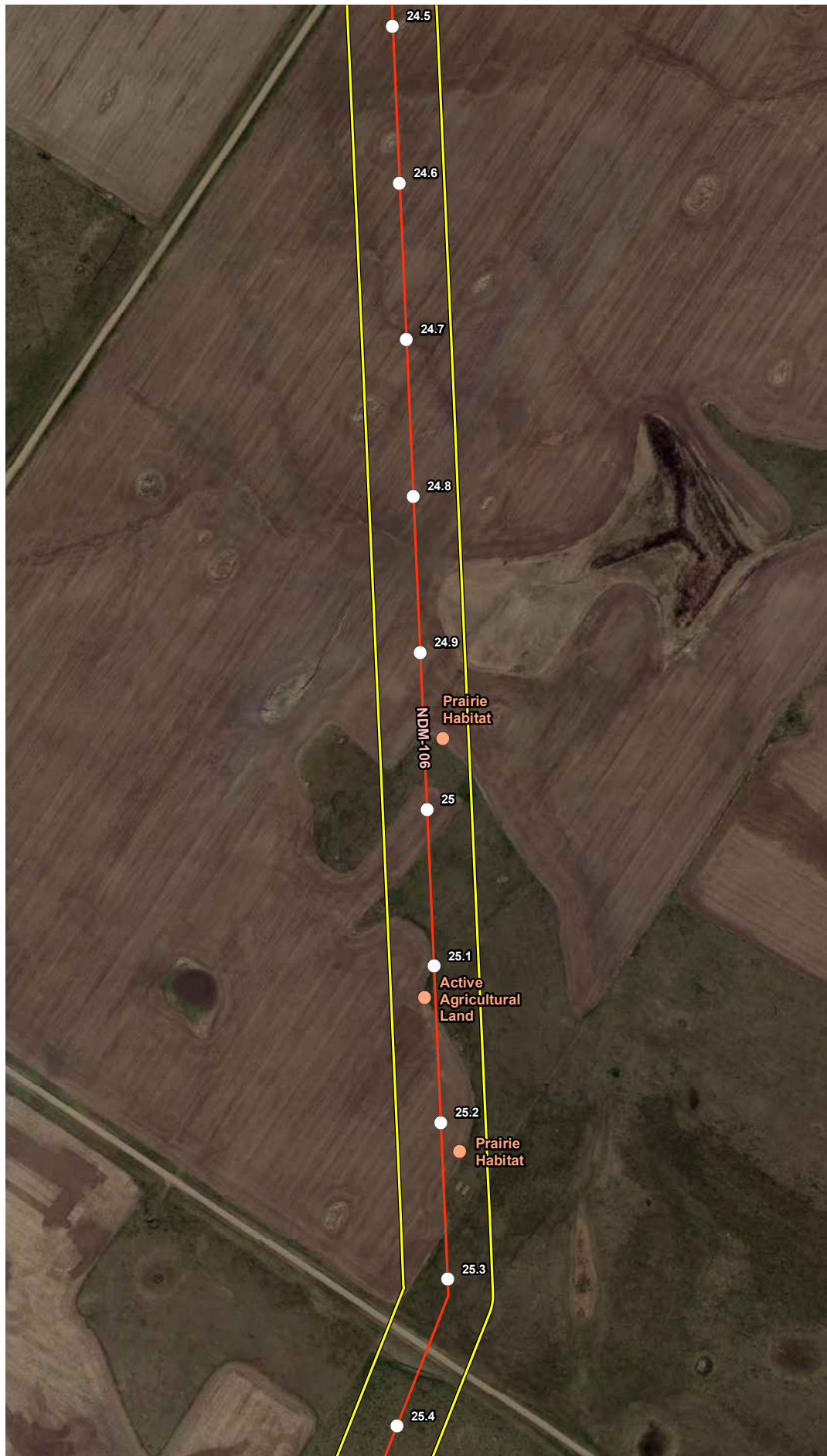
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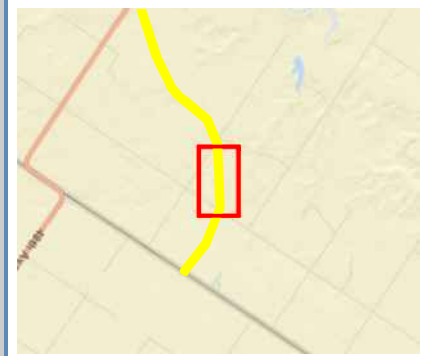
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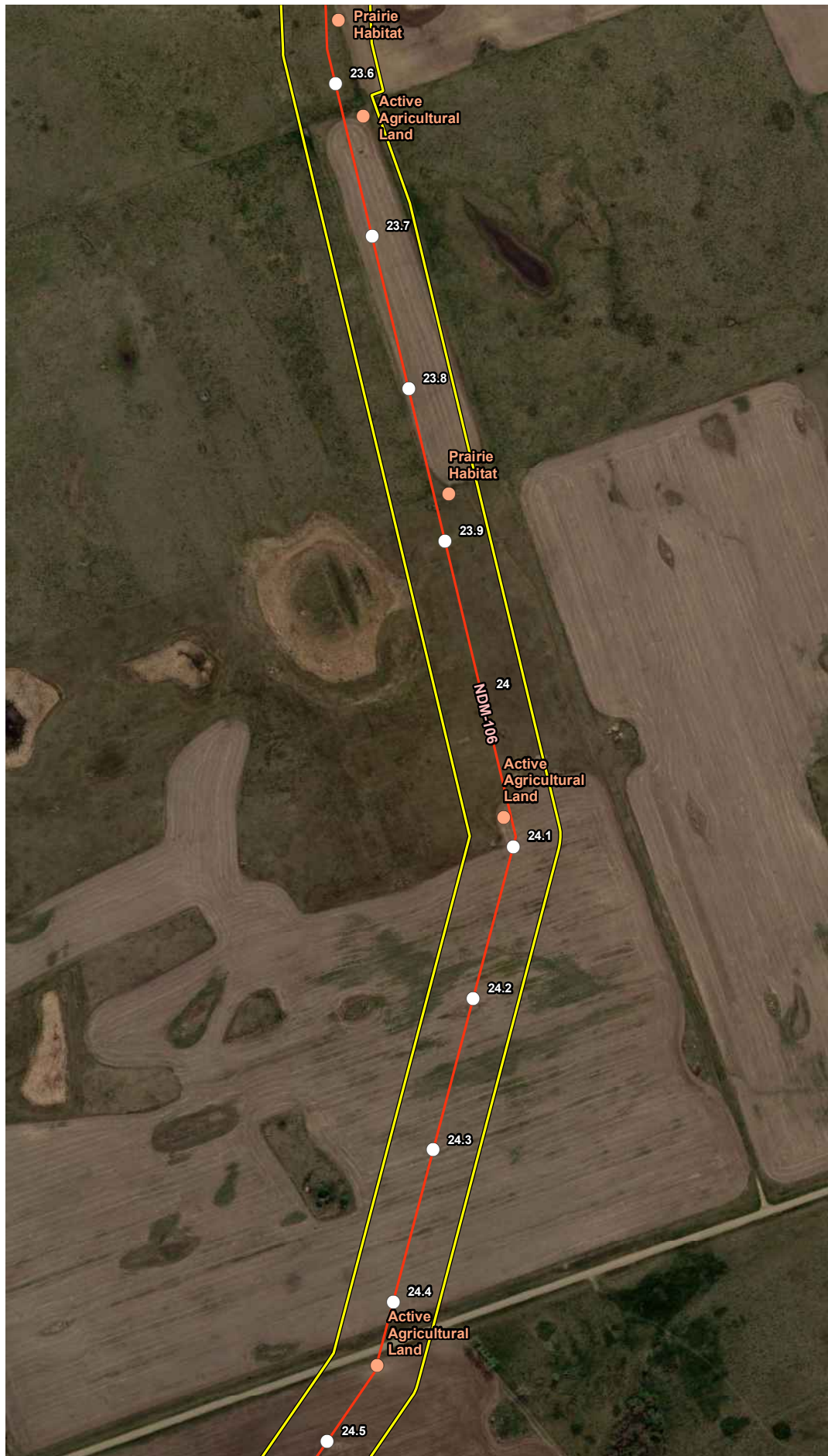
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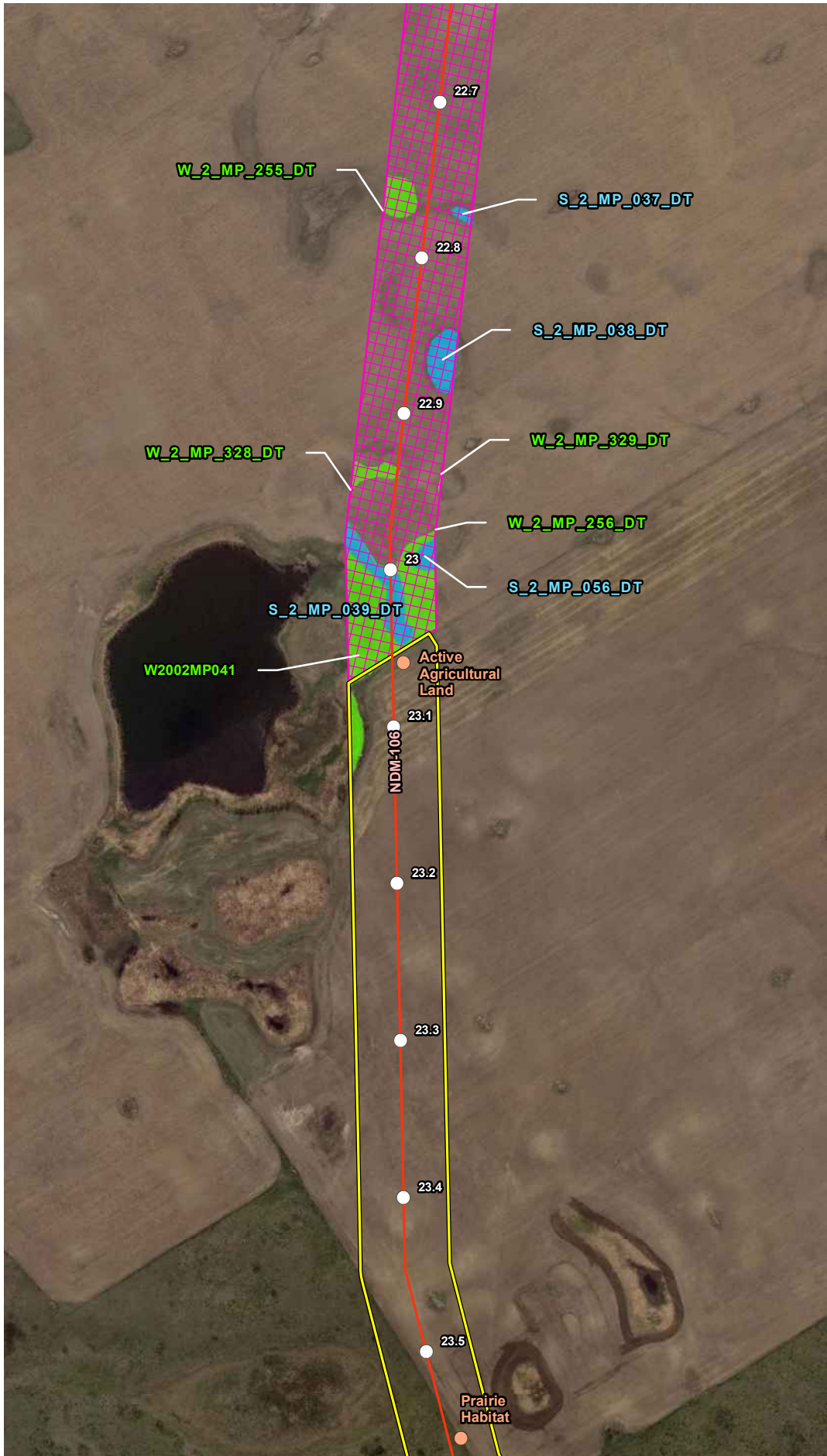
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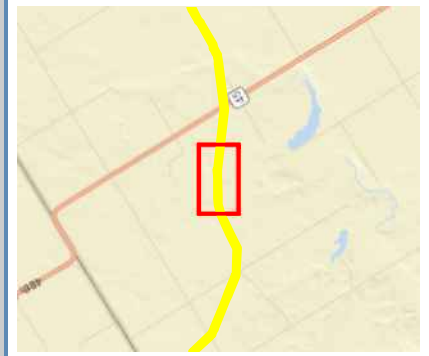
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Sheet 4 of 517

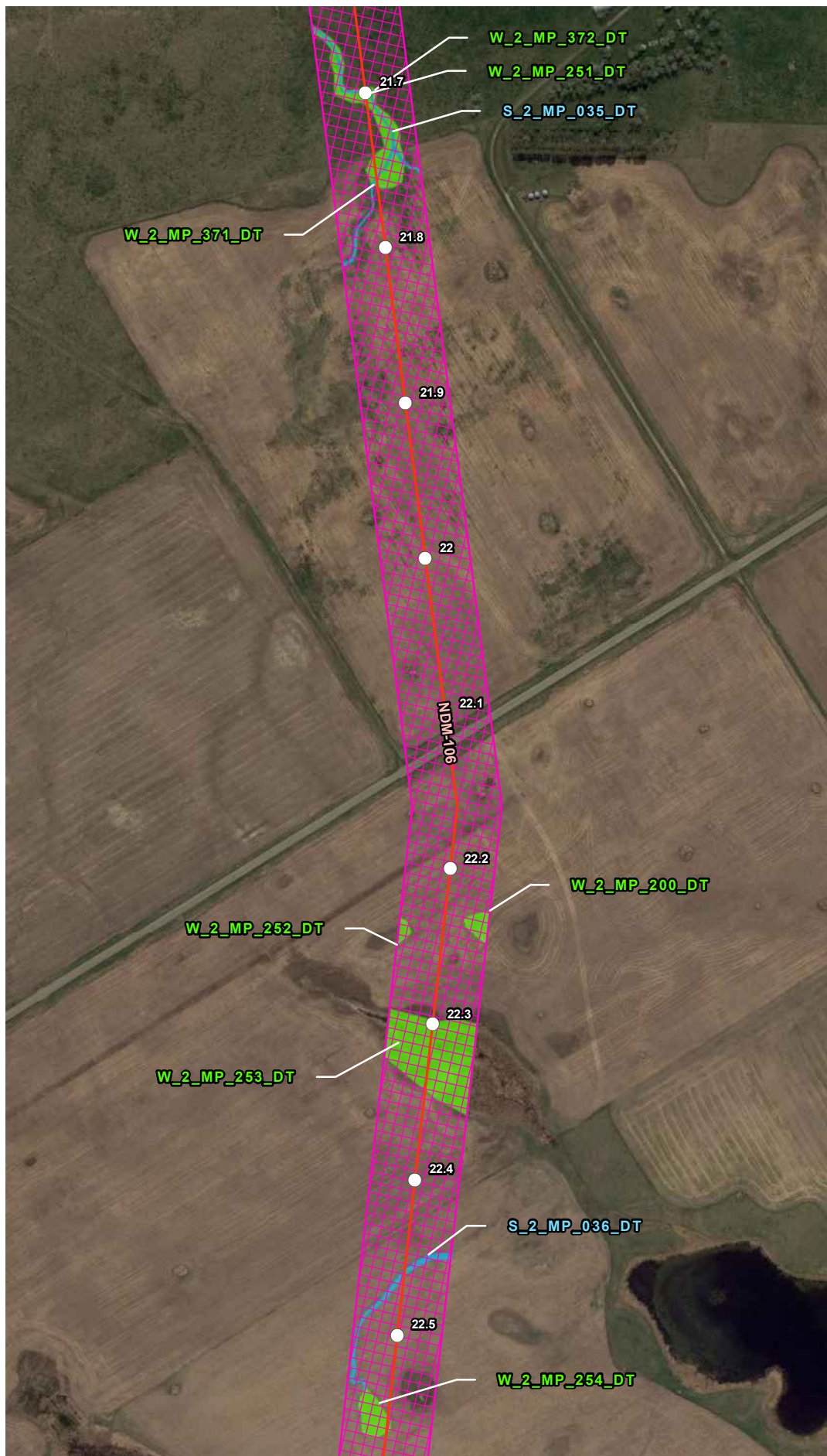
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- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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Figure Number:
2

Scale:
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1 inch = 500 feet

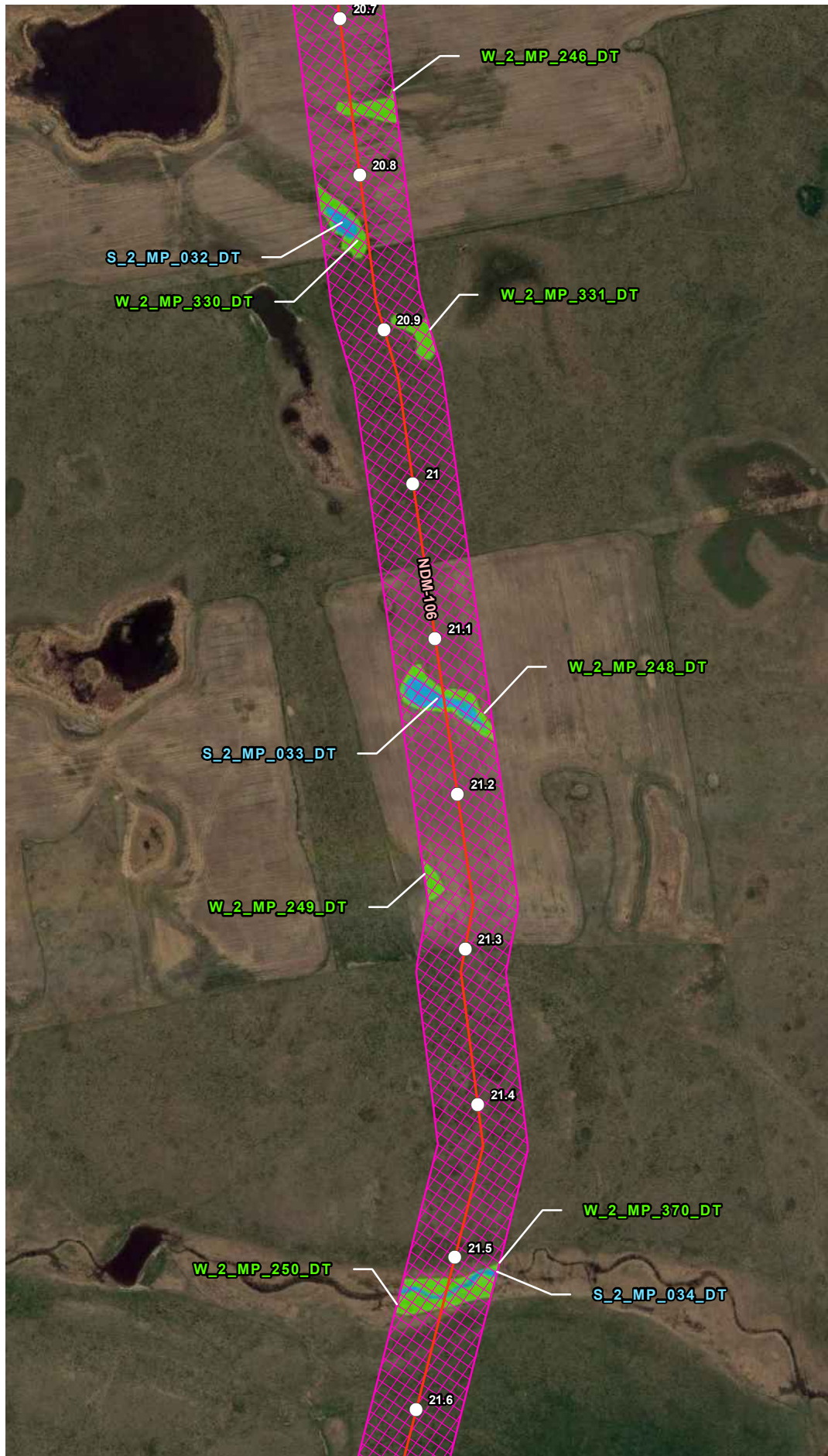
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 5 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet



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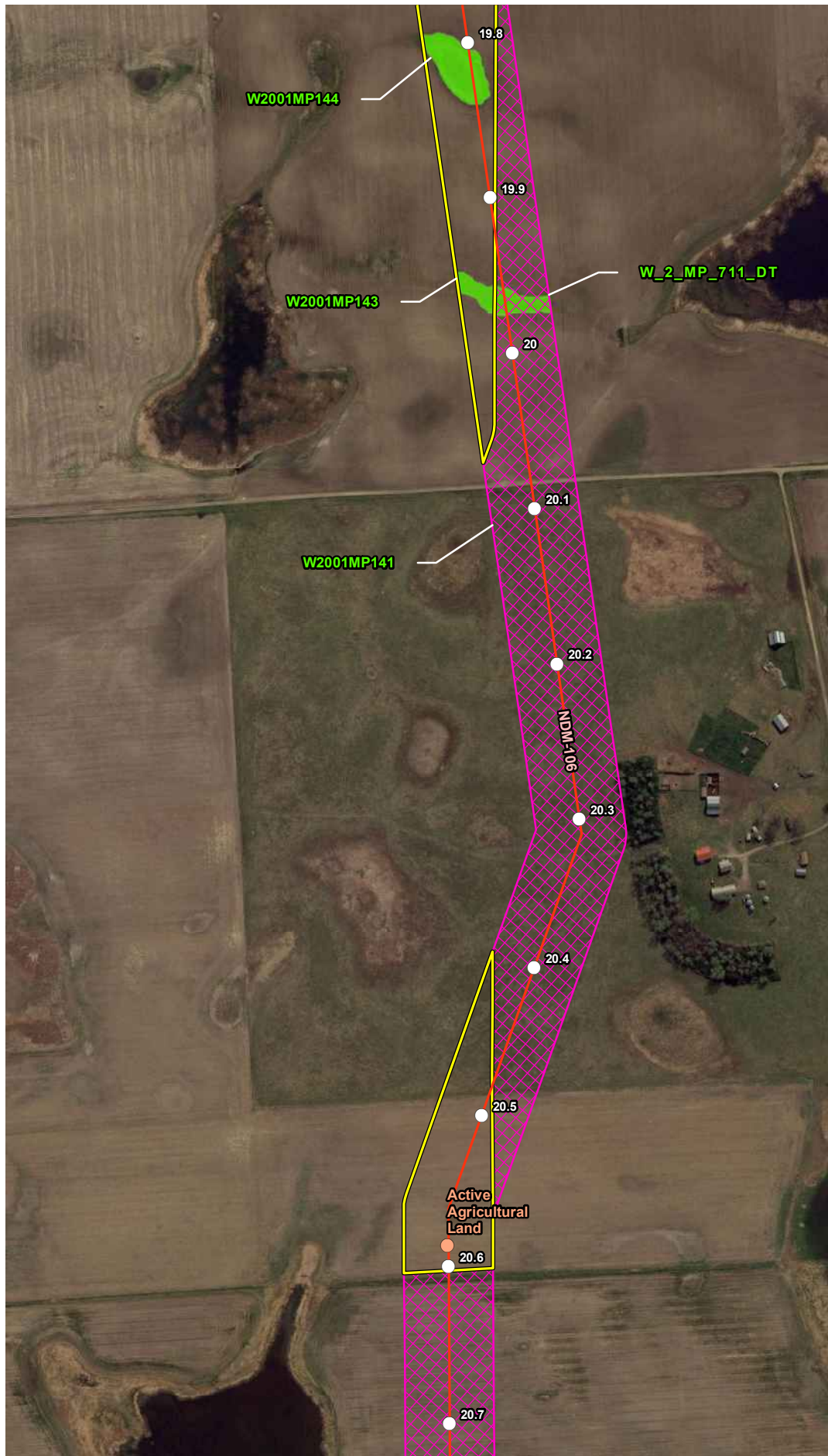
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Sheet:
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Sheet 6 of 517

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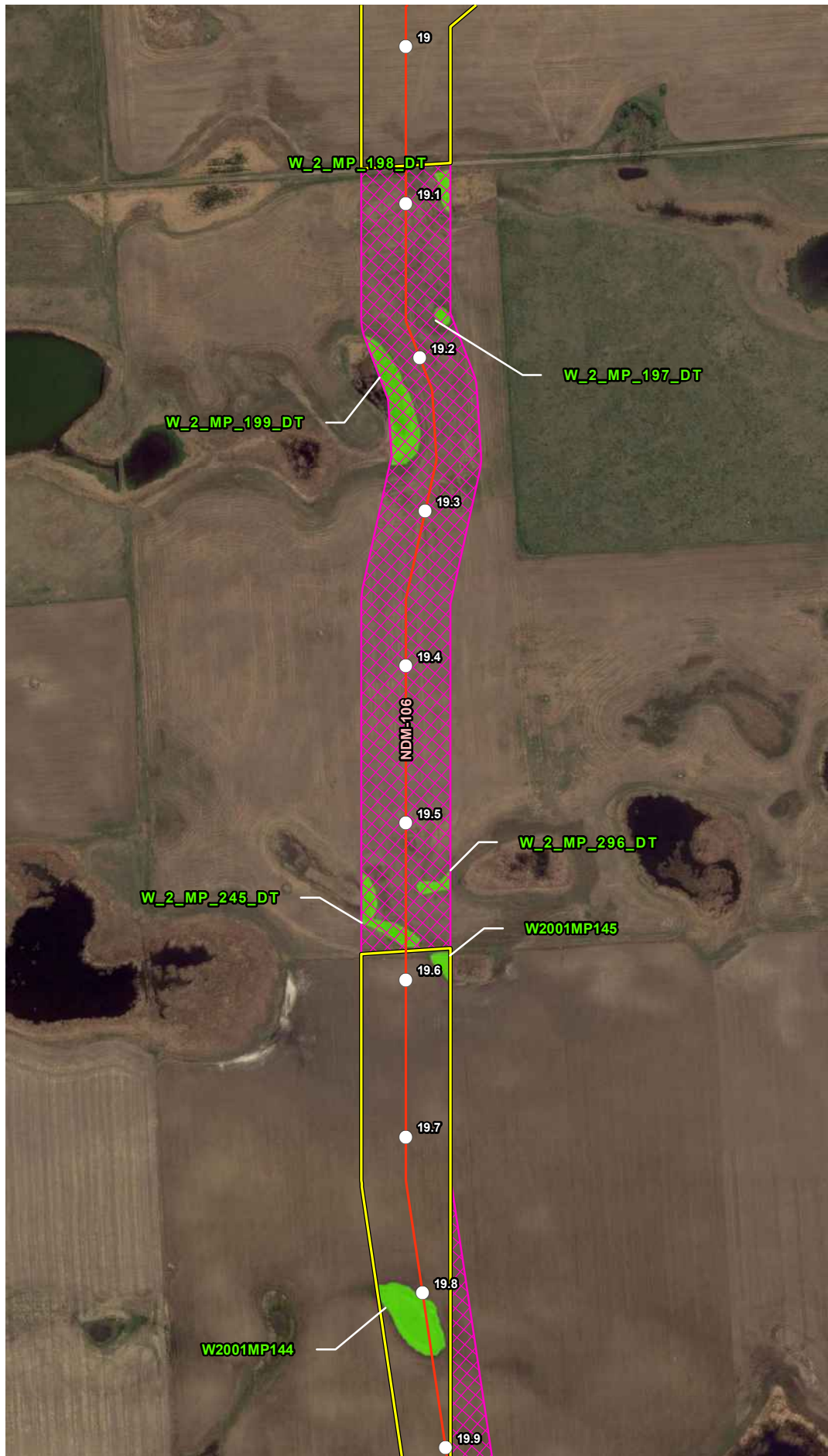
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Sheet 7 of 517

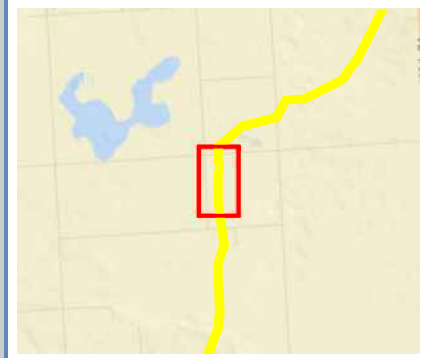
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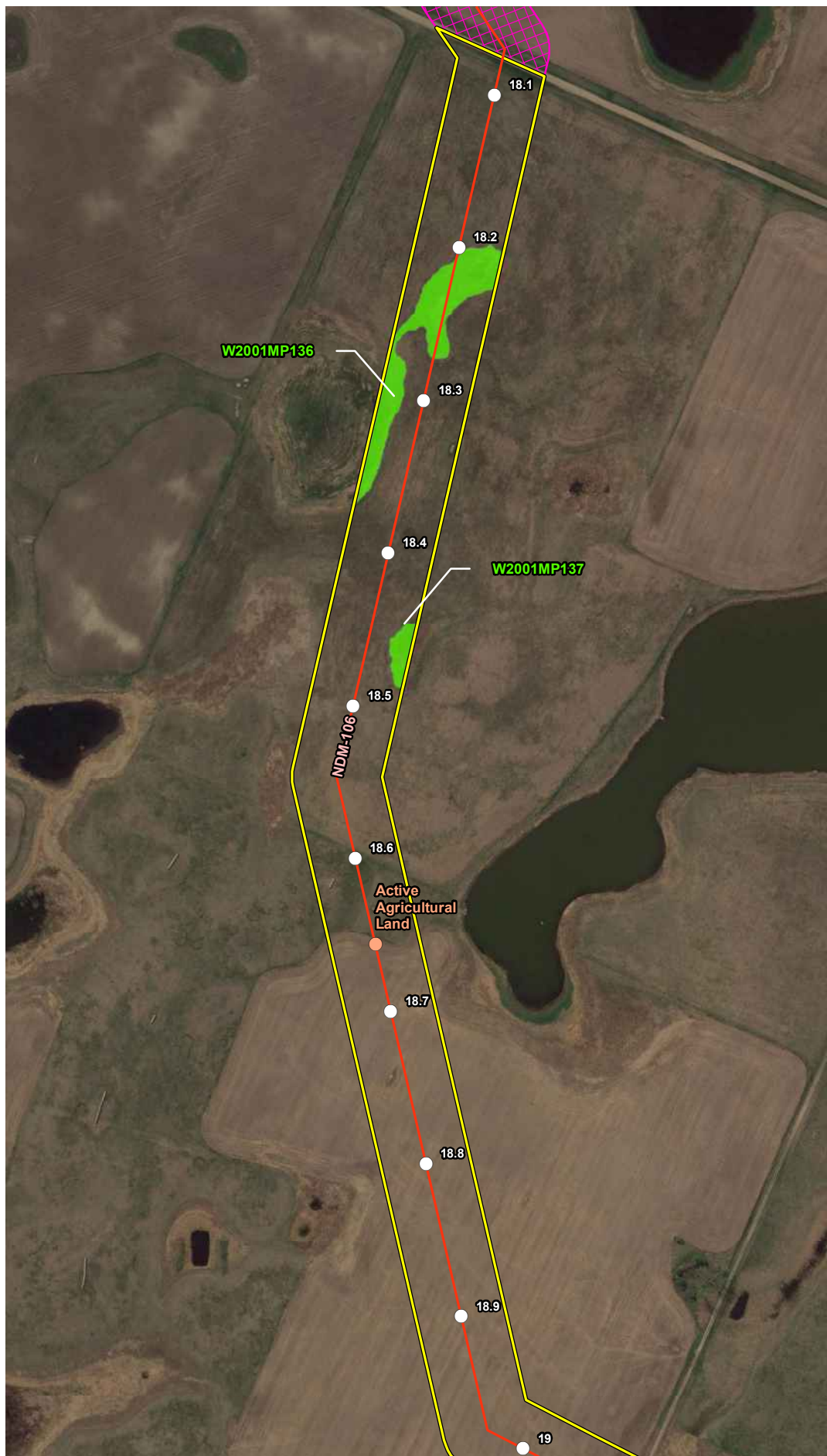
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Sheet:
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Sheet 8 of 517

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AERIAL MAP



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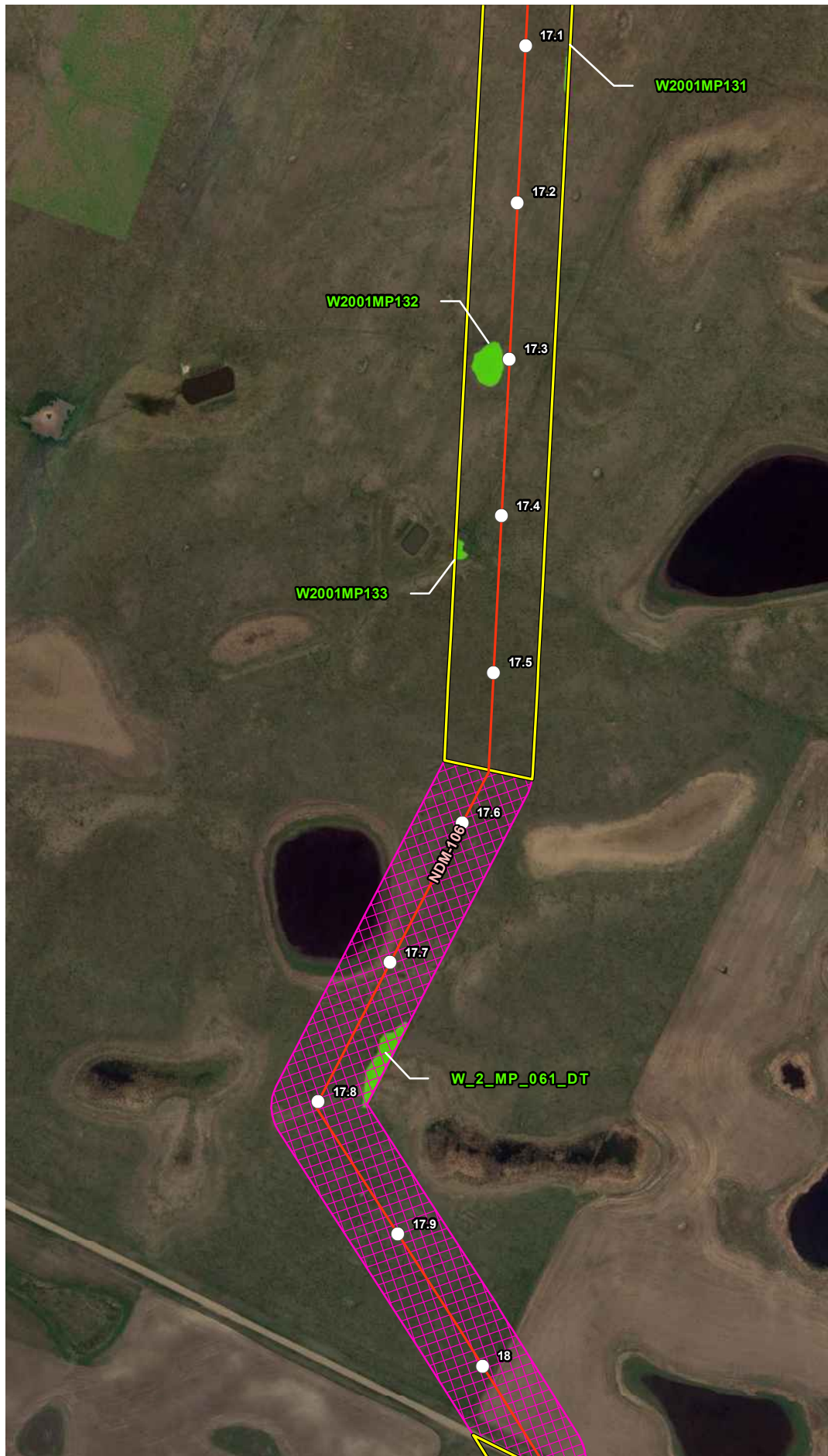
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Sheet 9 of 517

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AERIAL MAP



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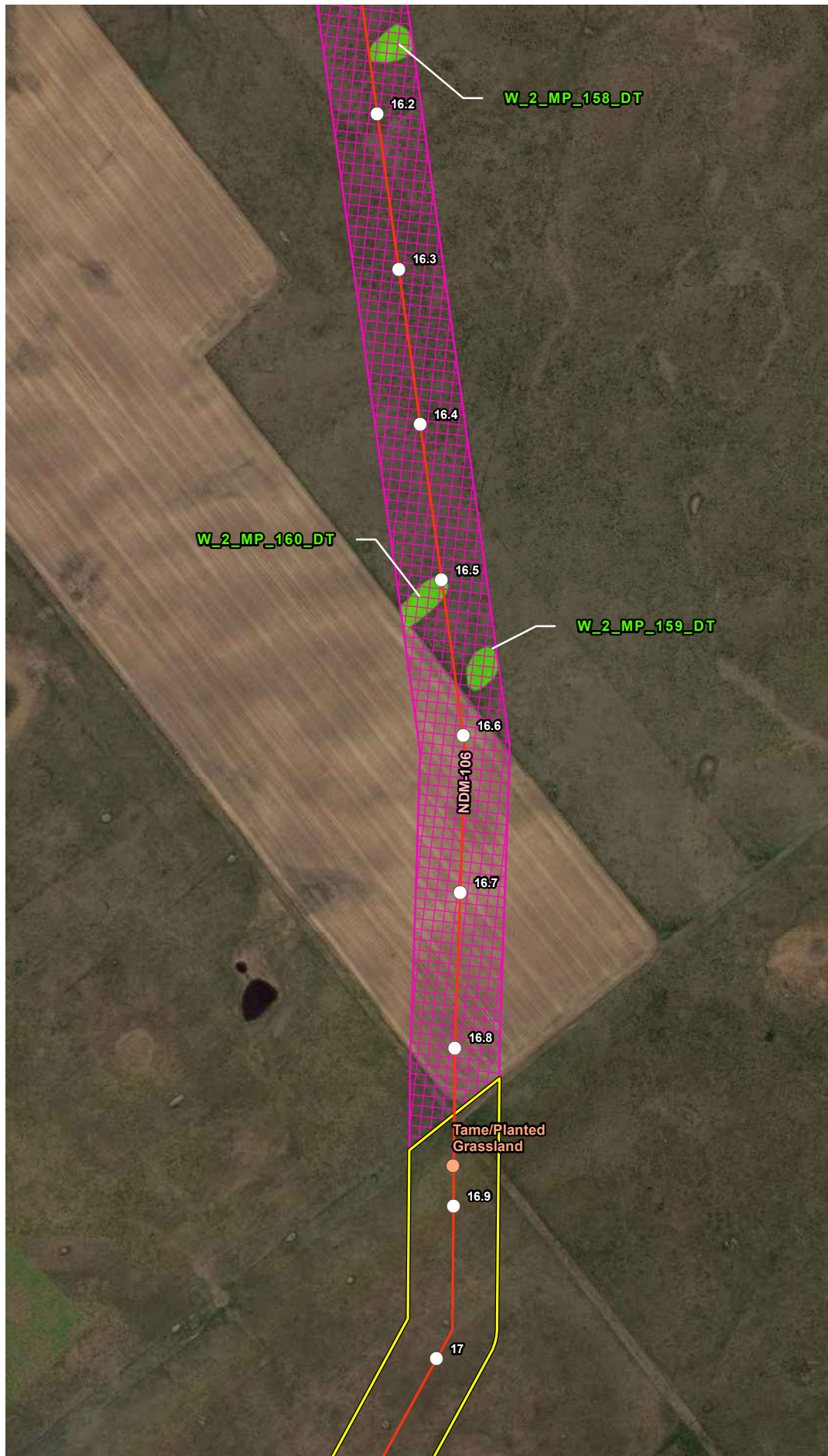
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NAD 1983 UTM Zone 14N

Sheet:
10
Sheet 10 of 517

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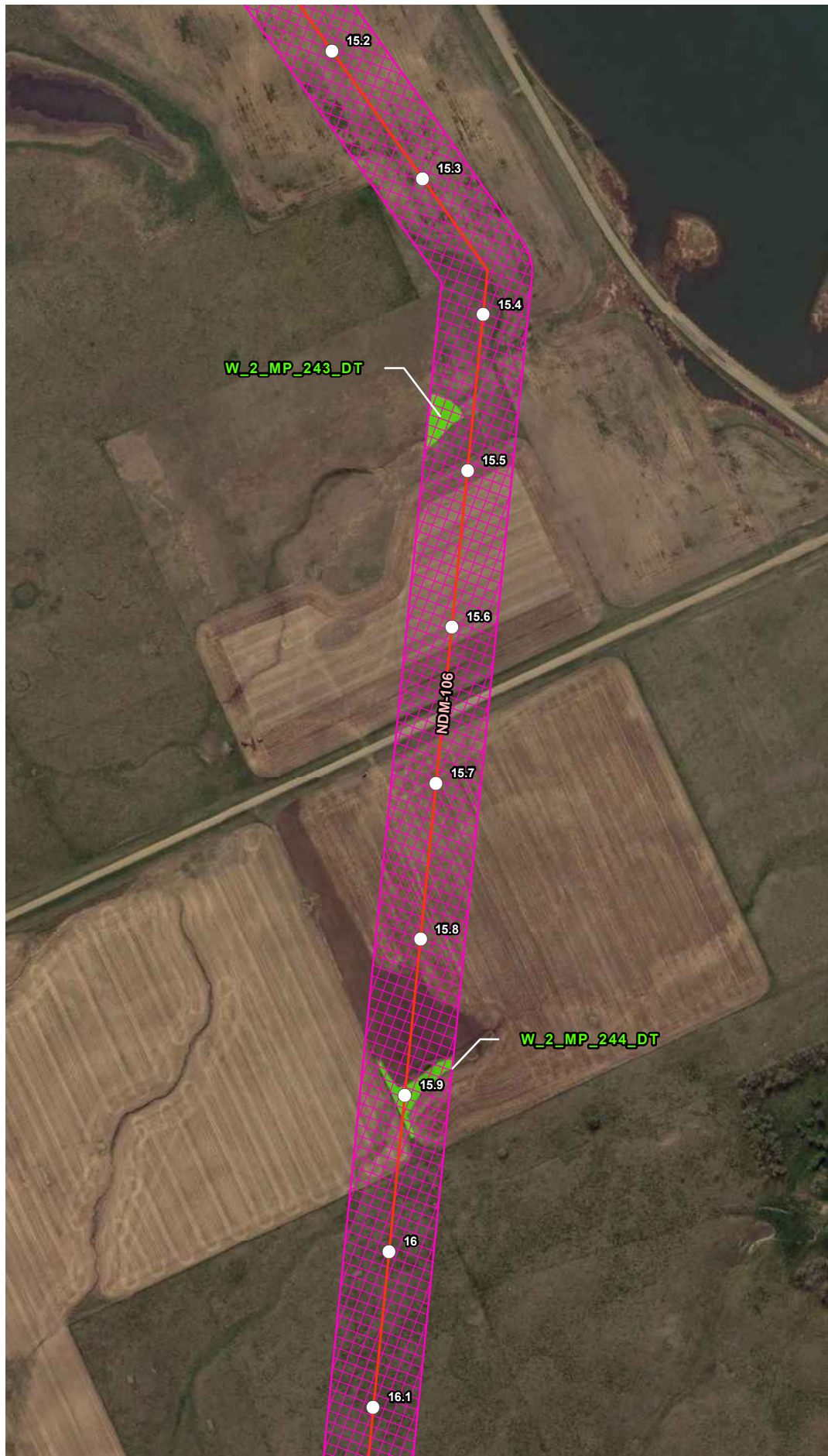
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NAD 1983 UTM Zone 14N

Sheet:
11
Sheet 11 of 517

Drawing Number:
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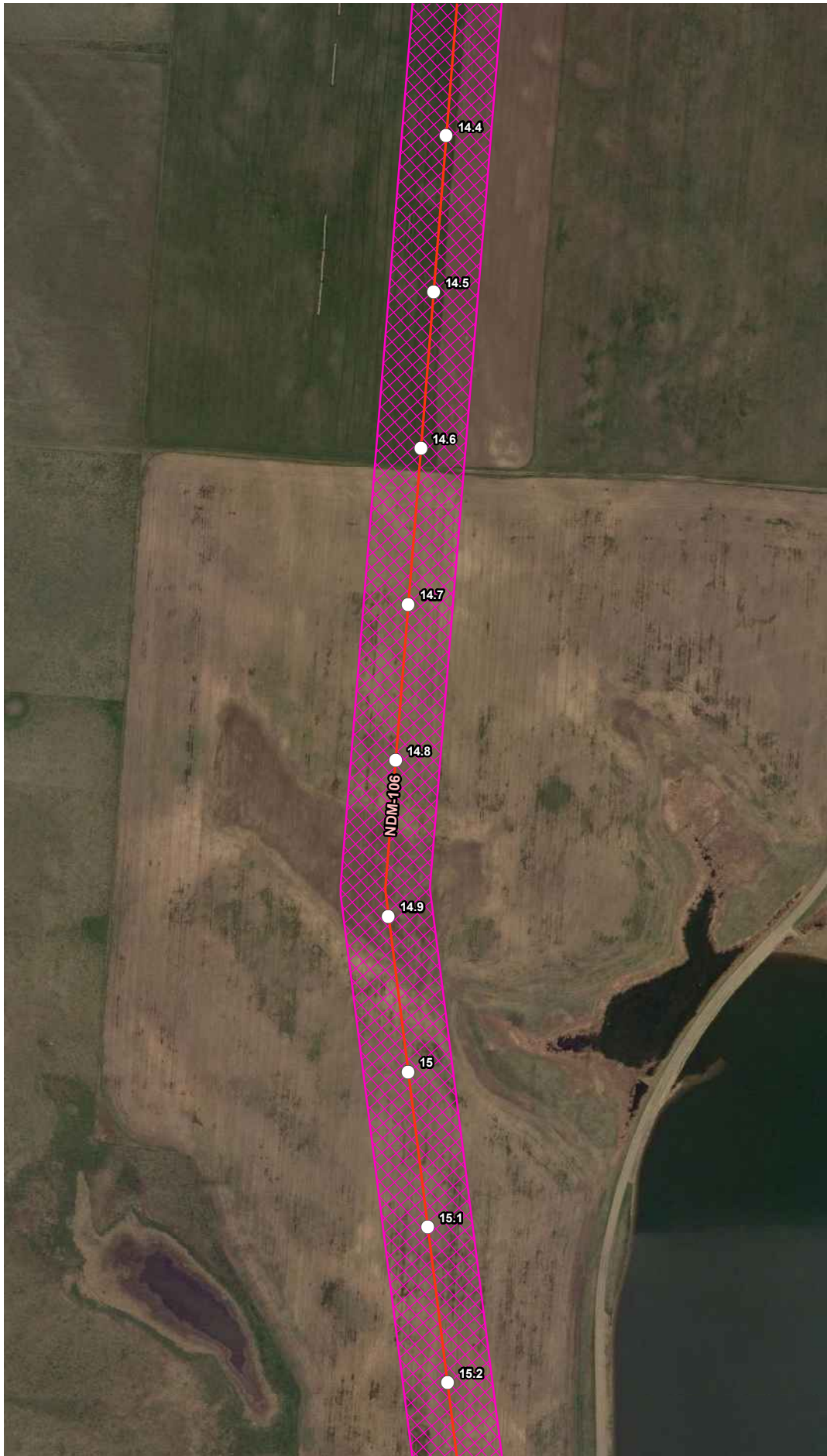
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 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 12
 Sheet 12 of 517

Drawing Number:
 2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

Scale:
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1 inch = 500 feet

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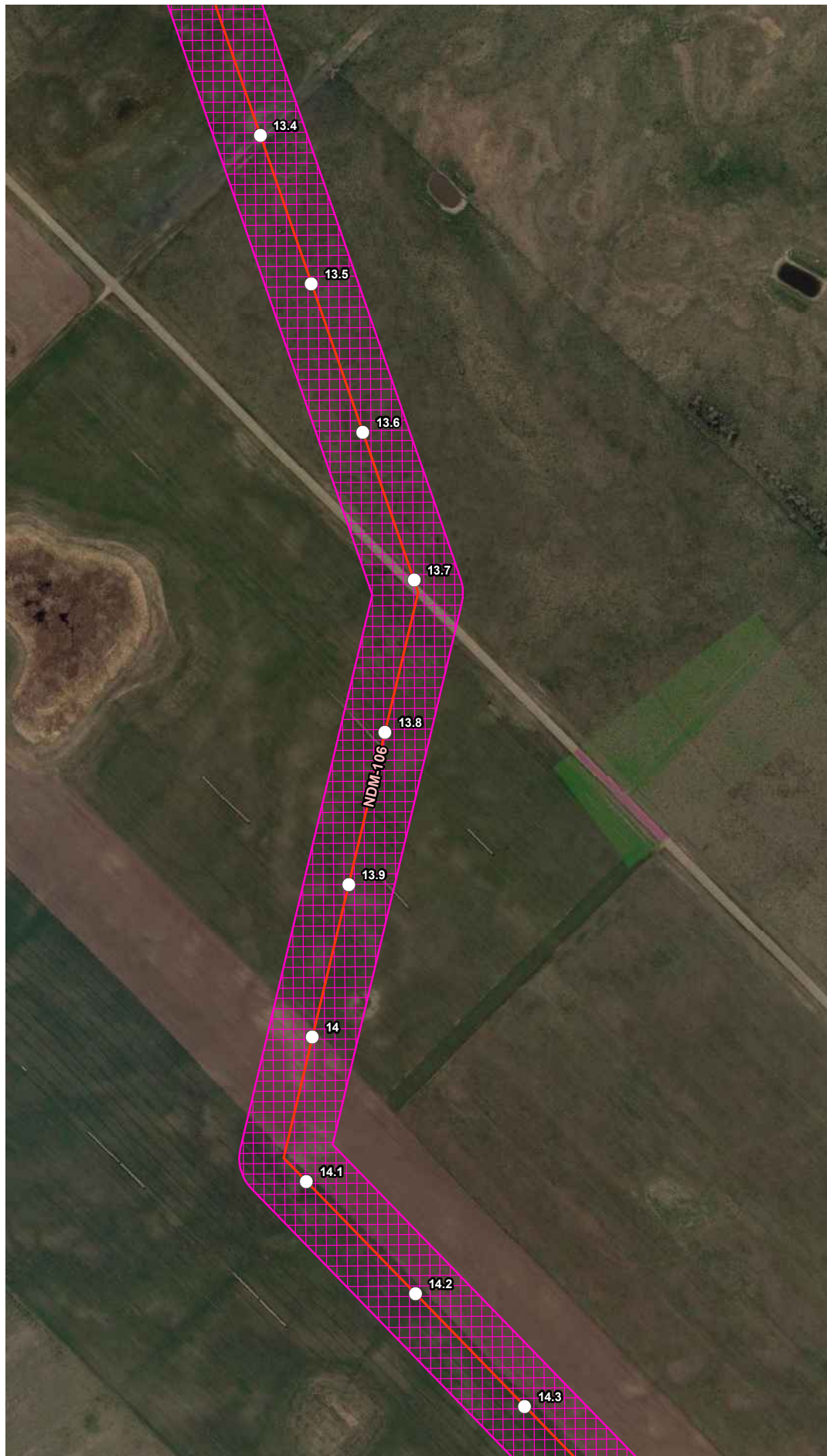
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Sheet 13 of 517

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AERIAL MAP



VICINITY MAP



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Sheet:
14
Sheet 14 of 517

Drawing Number:
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0 255 510 Feet



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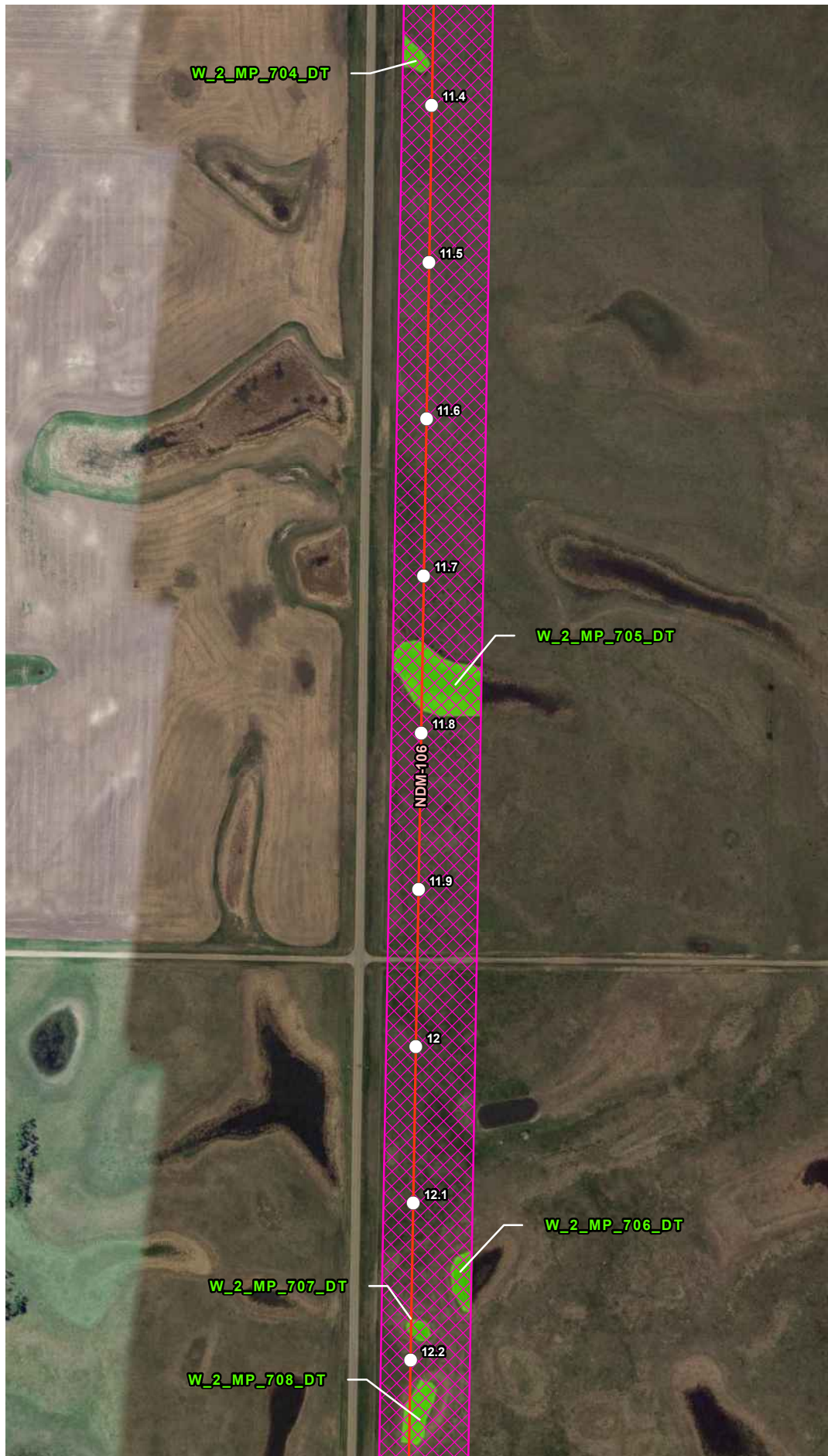
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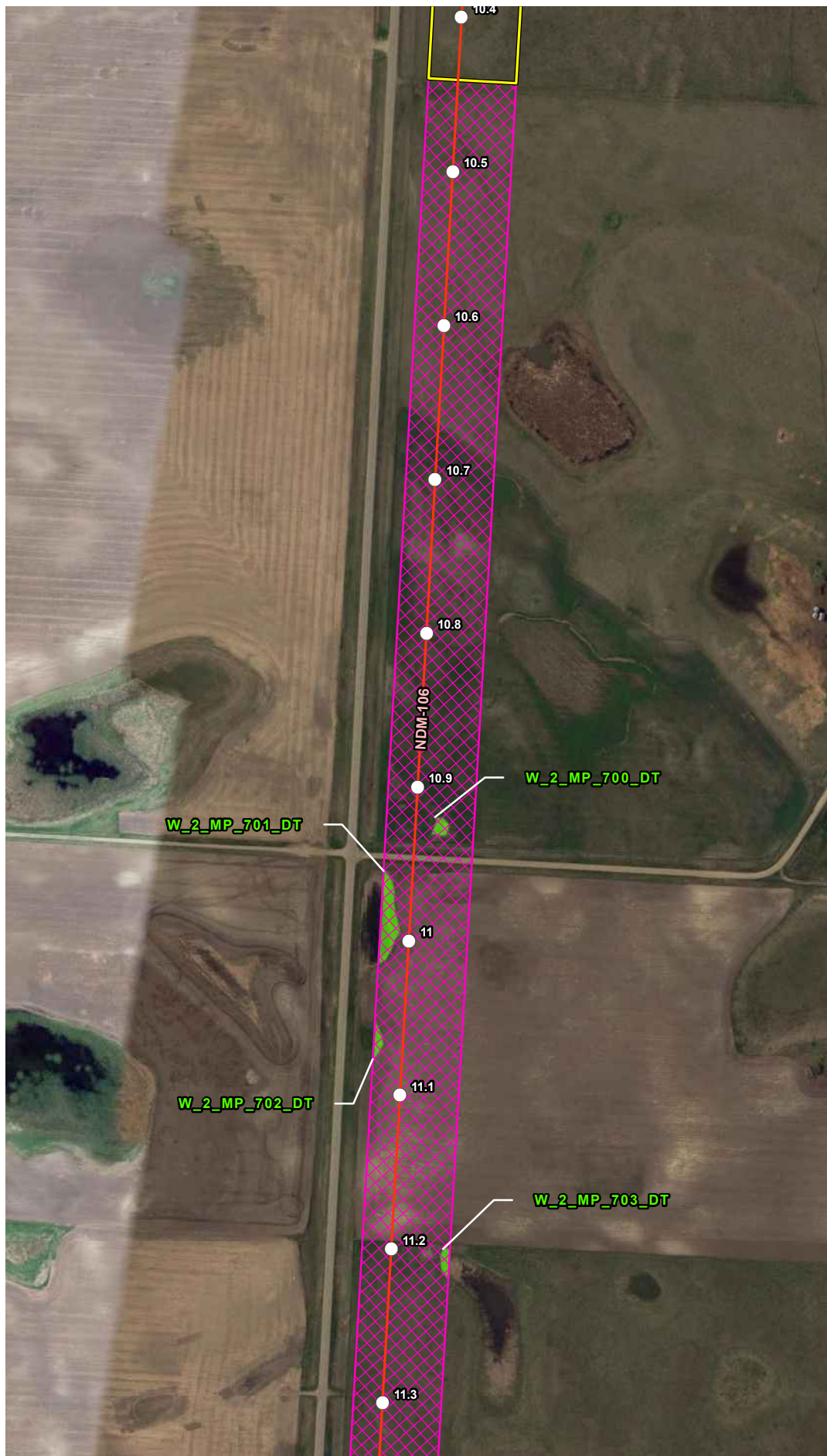
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Sheet:
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Sheet 16 of 517

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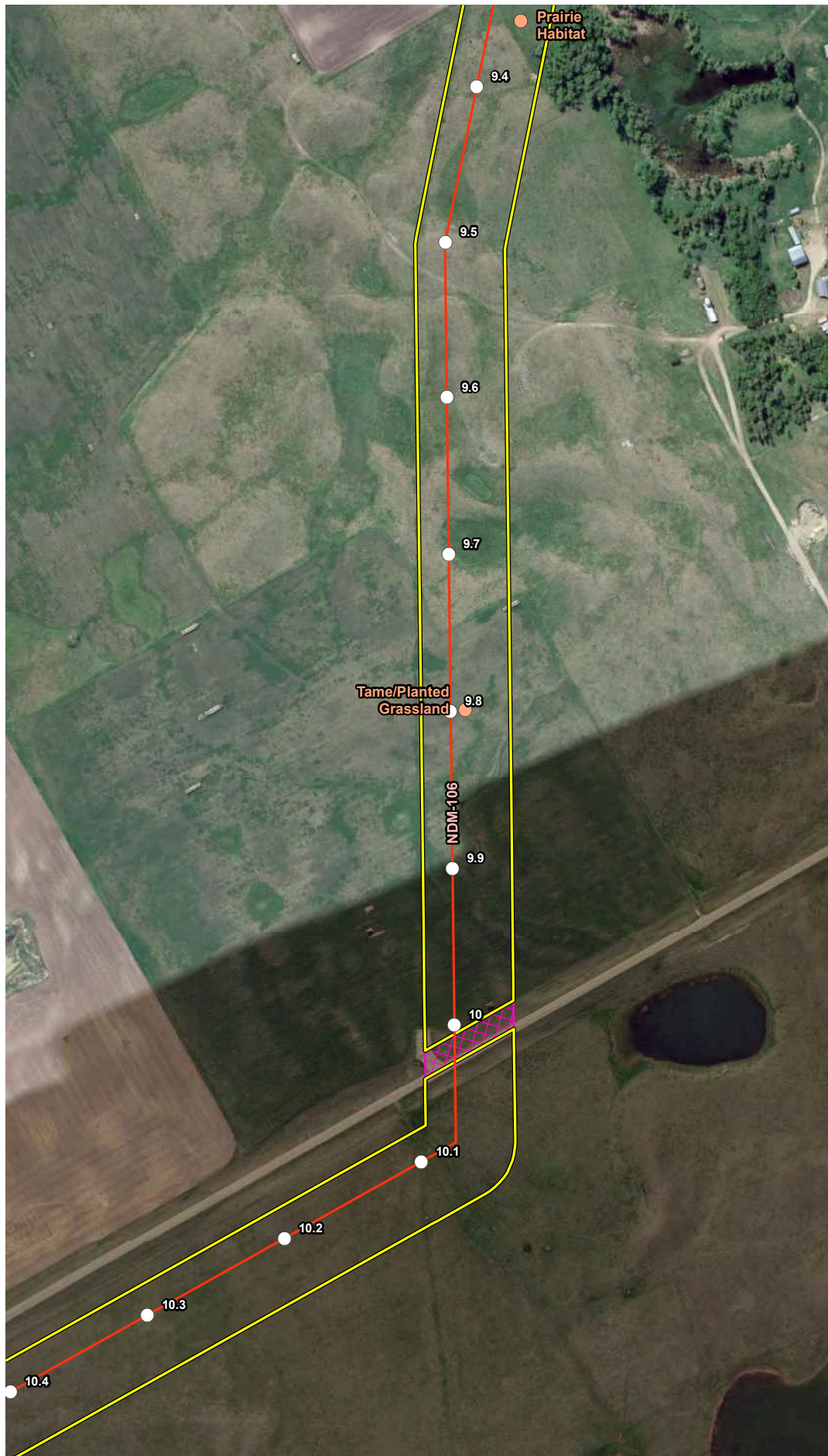
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Sheet 17 of 517

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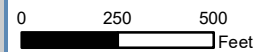


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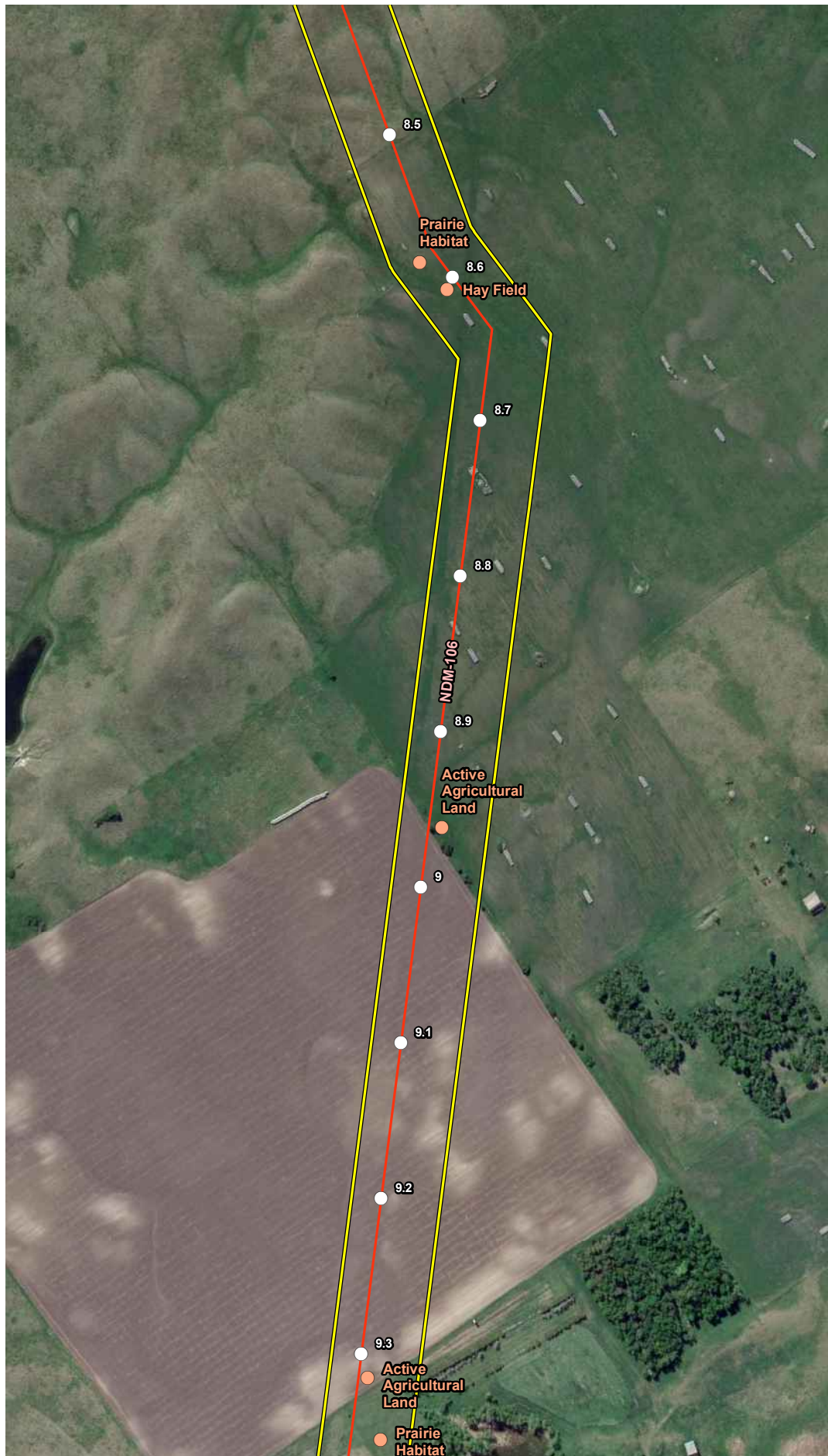
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Sheet:
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Sheet 18 of 517

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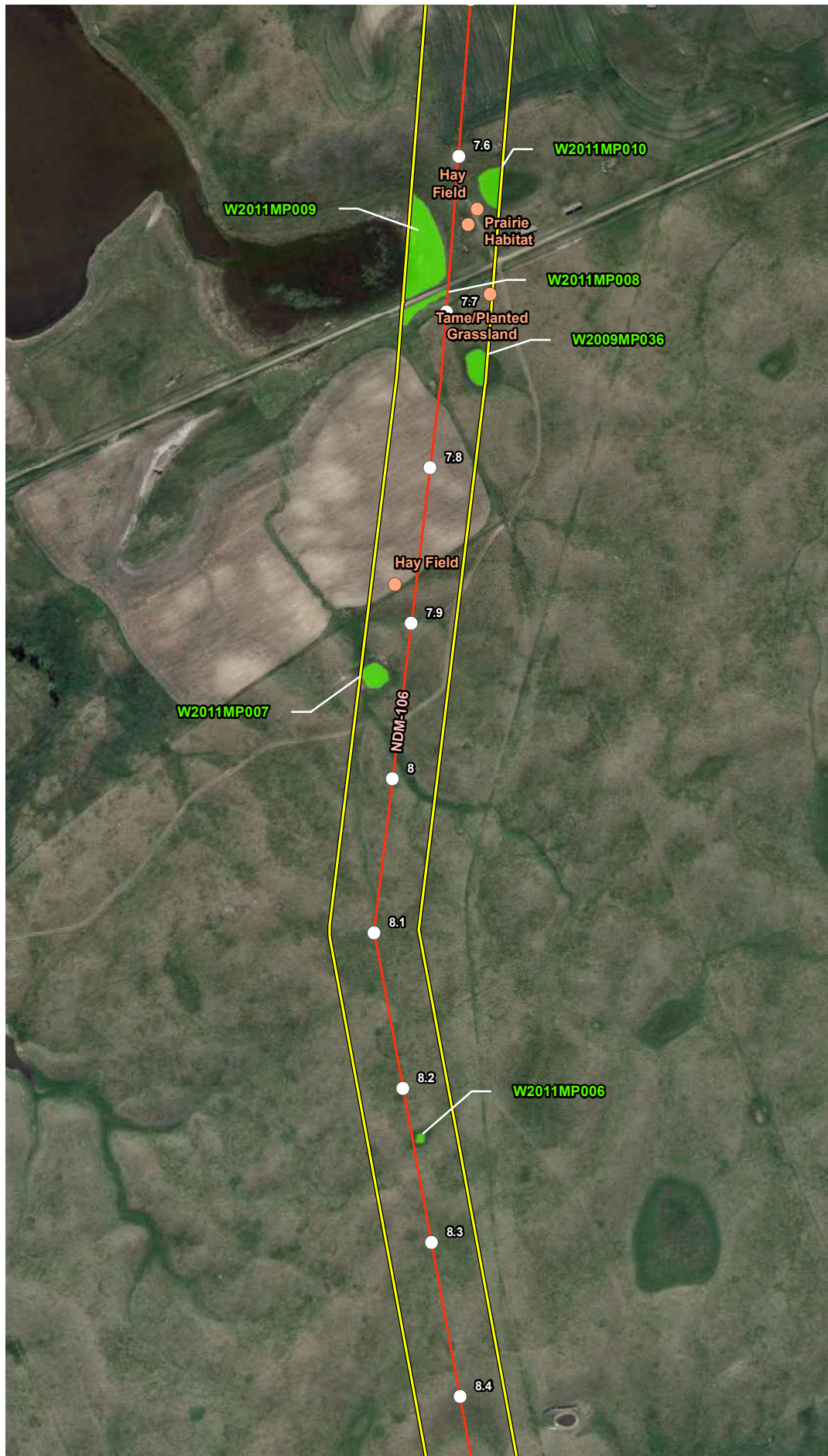
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Sheet:
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Sheet:
20

Sheet 20 of 517

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- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

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Figure Number:
2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
21

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
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0 250 500
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Projection:
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NAD 1983 UTM Zone 14N

Sheet:
22

Sheet 22 of 517

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AERIAL MAP



VICINITY MAP



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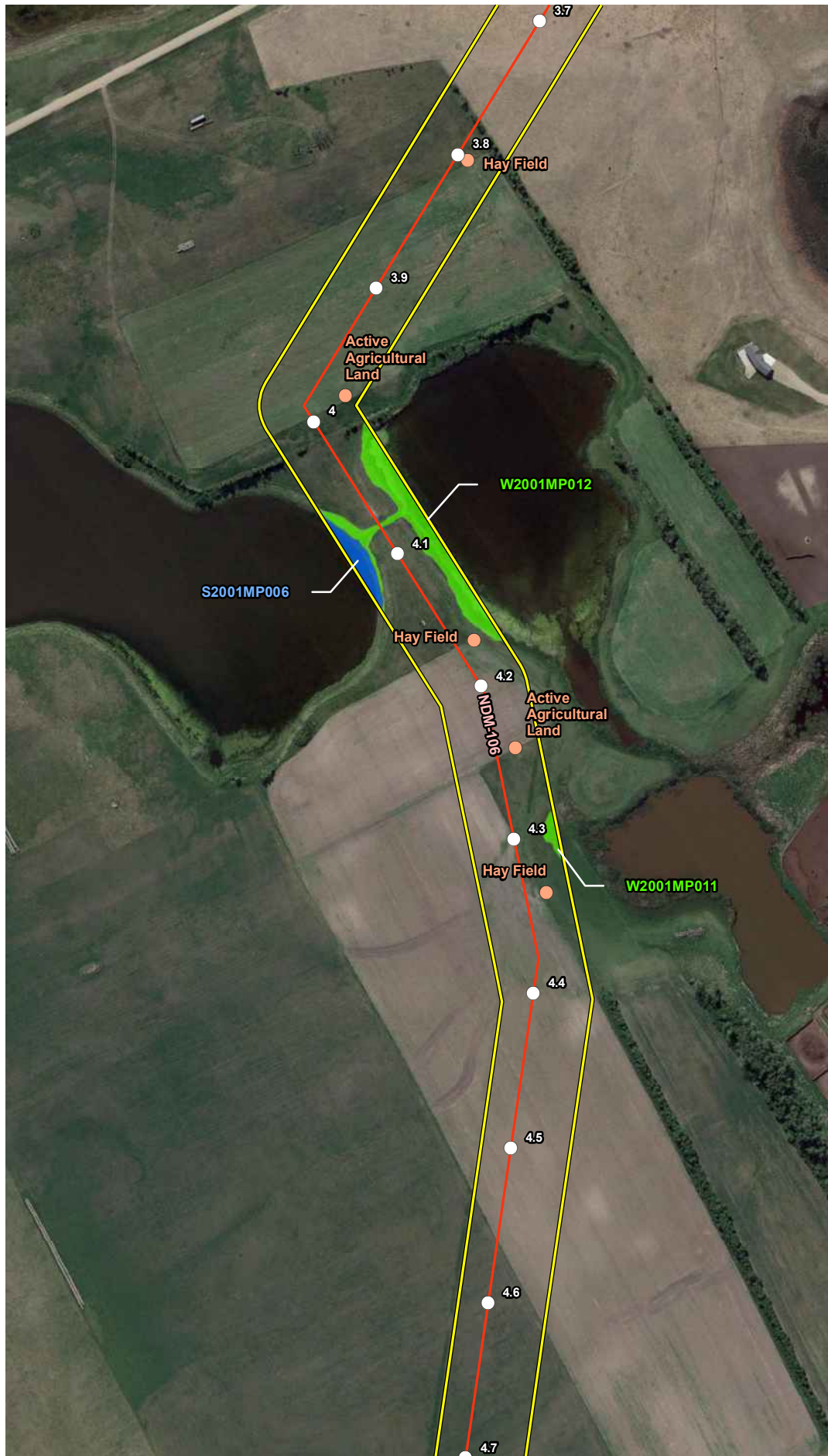
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Sheet 23 of 517

Drawing Number:
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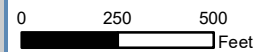


VICINITY MAP



LEGEND

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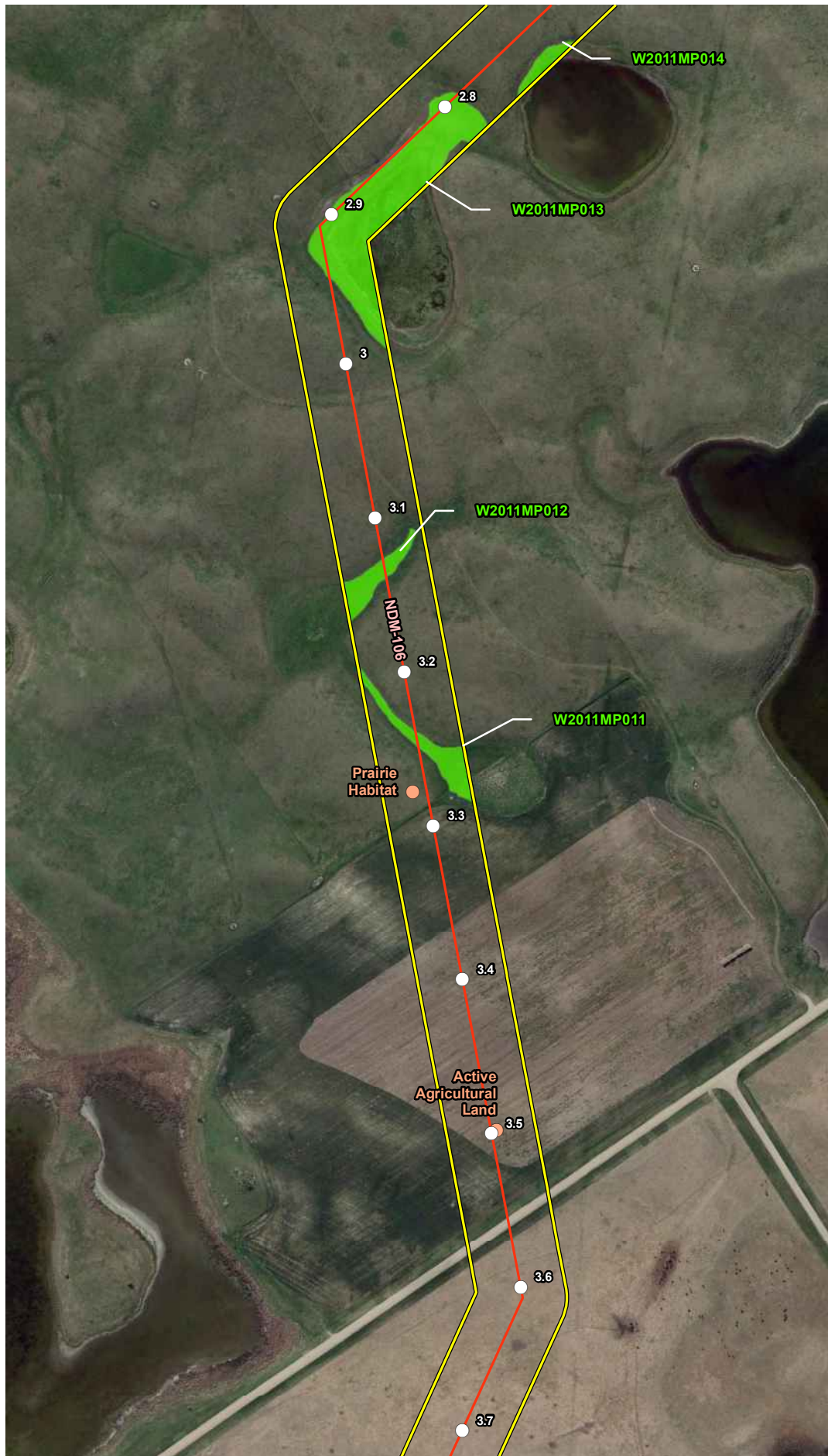
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Sheet 24 of 517

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
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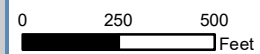


VICINITY MAP



LEGEND

-  Milepost
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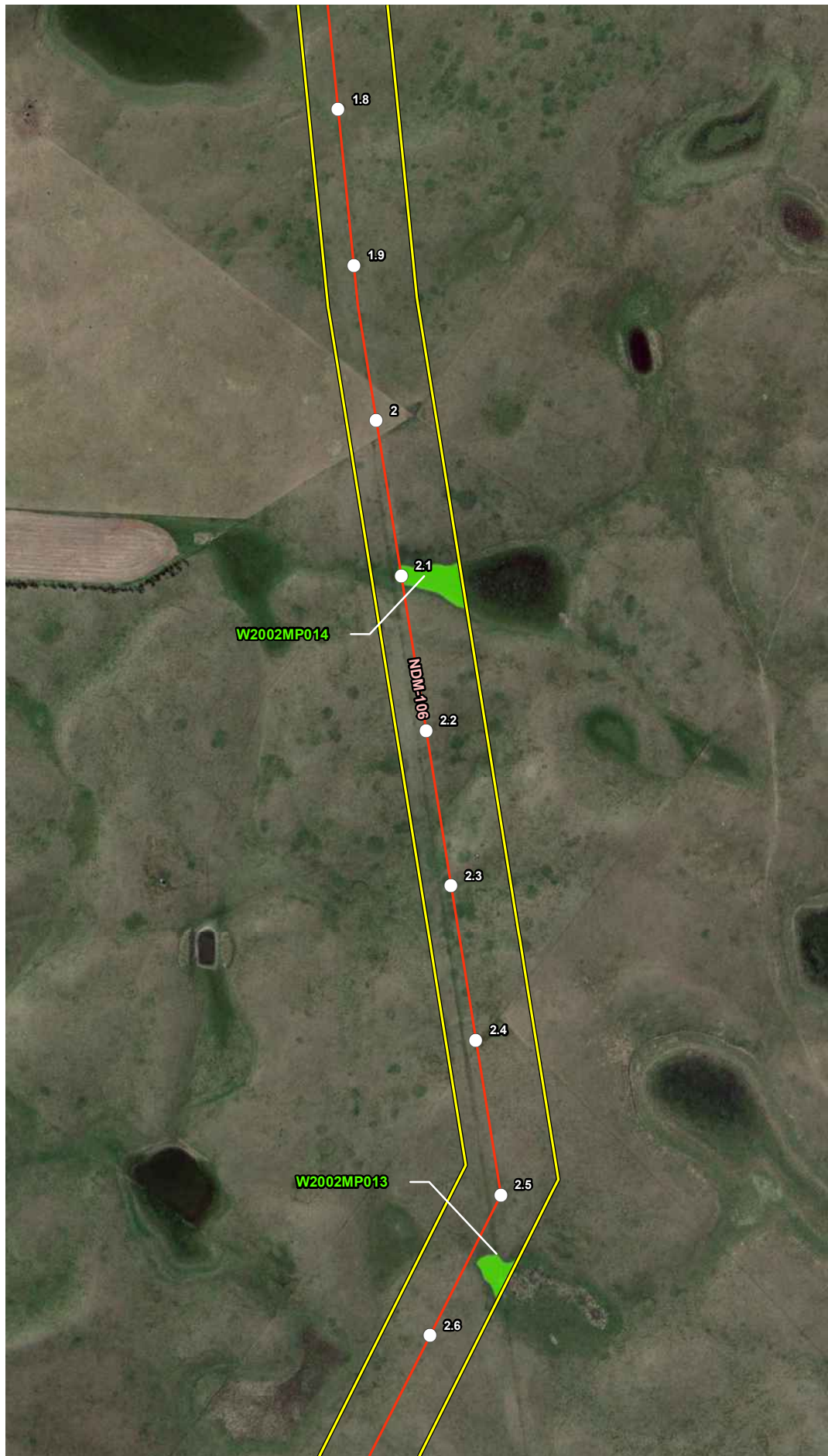
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AERIAL MAP



VICINITY MAP



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0 250 500
Feet



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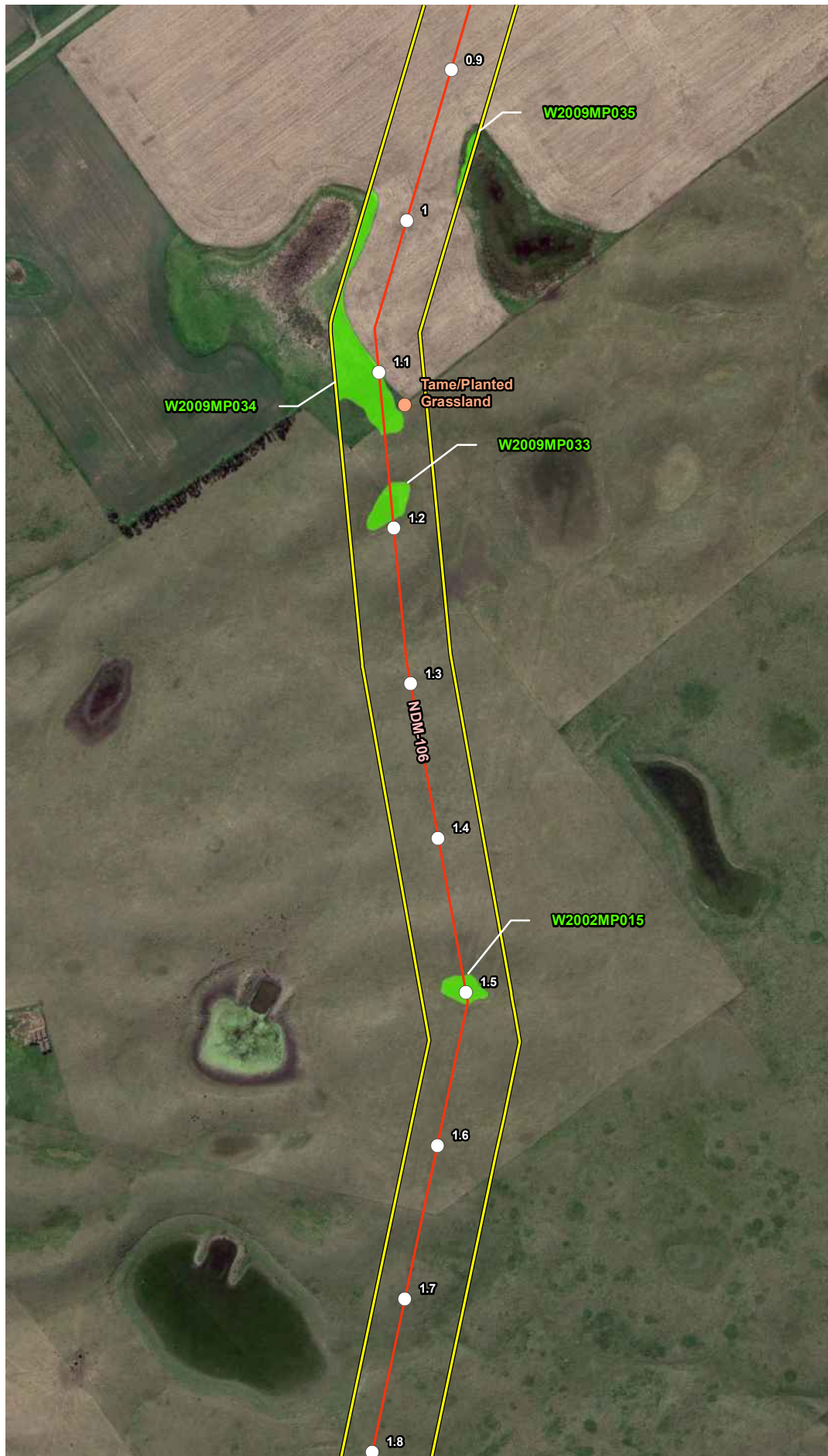
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Sheet:
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Sheet 26 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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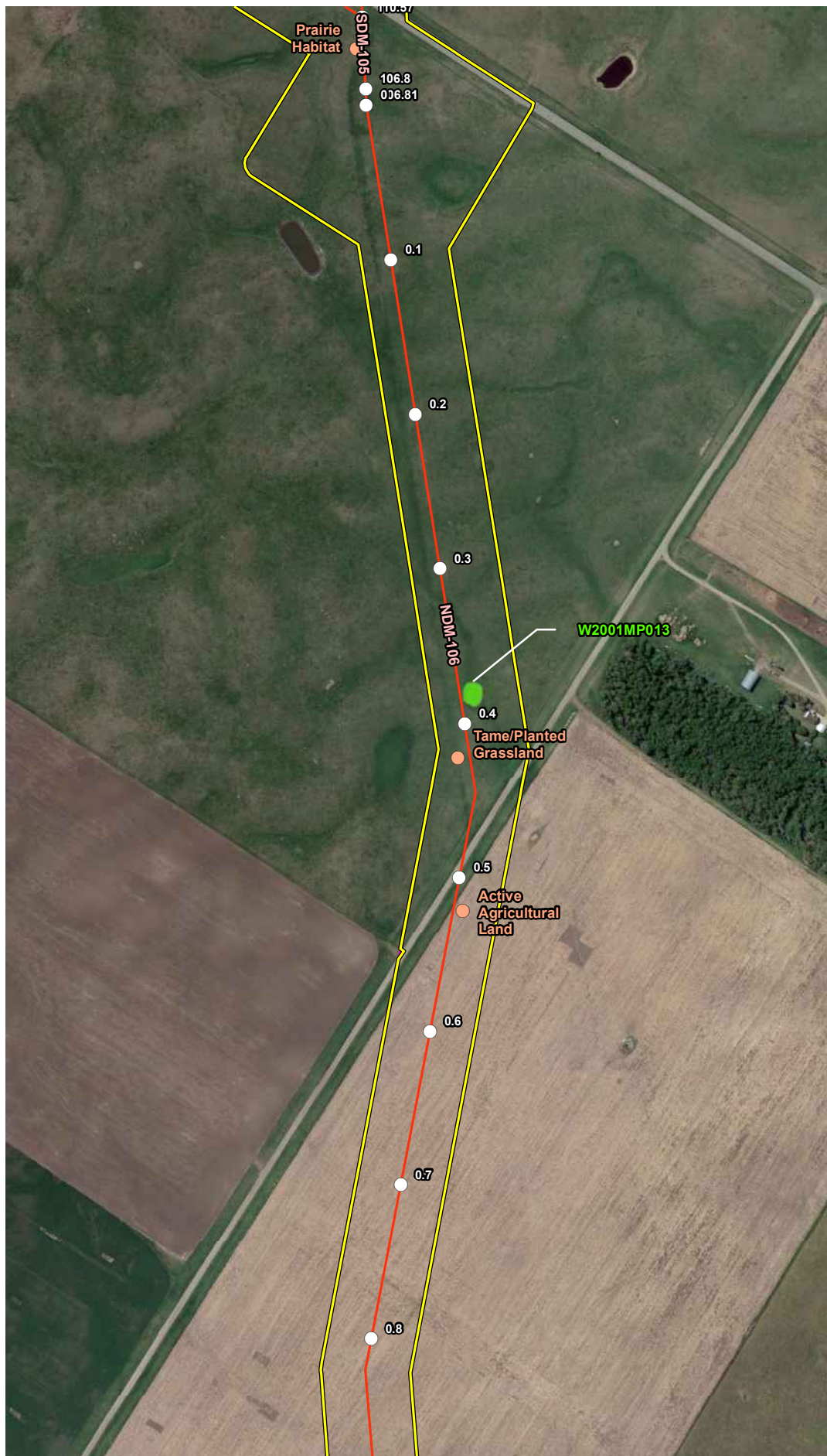
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Sheet 27 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
28
 Sheet 28 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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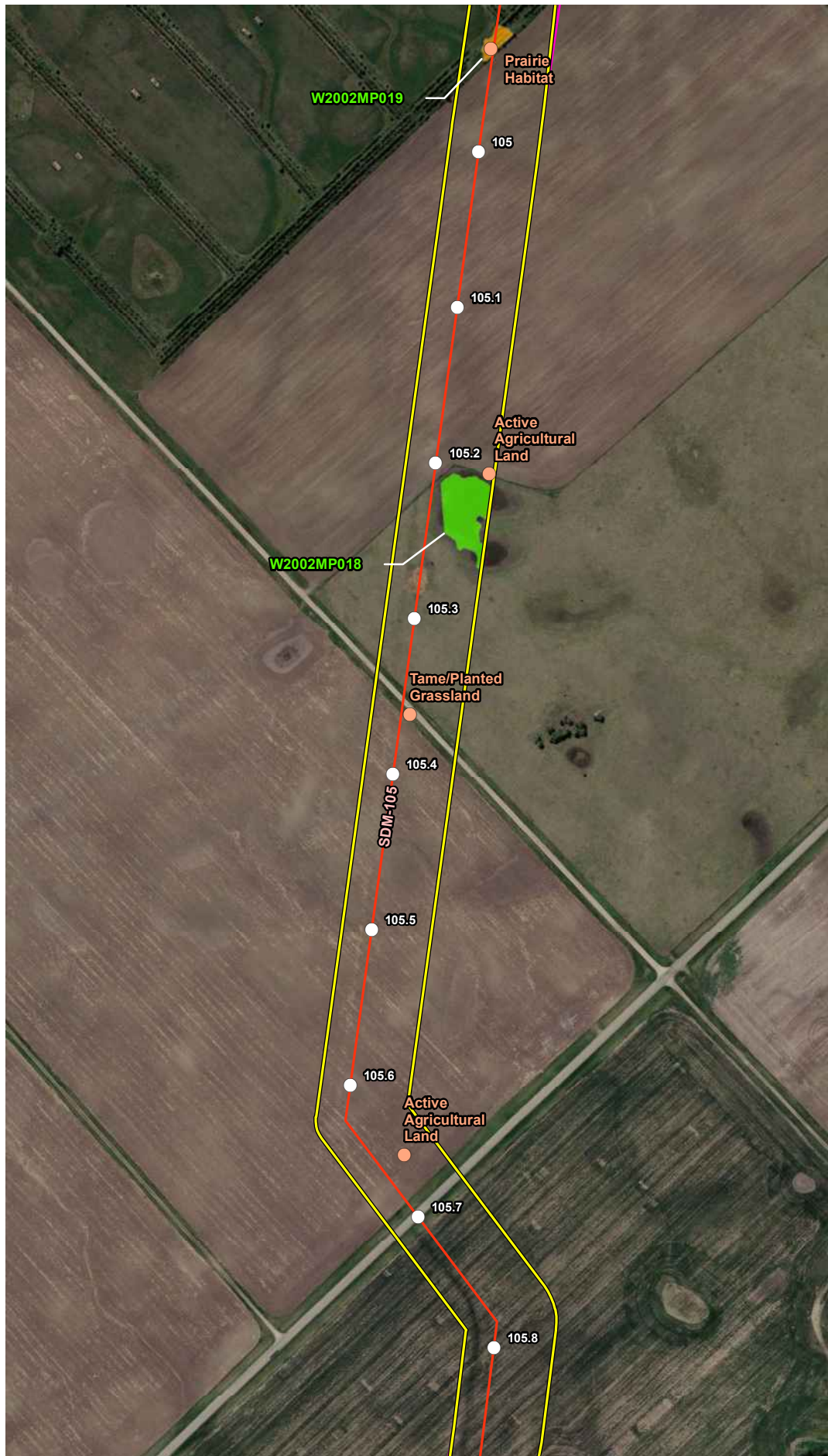
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 29 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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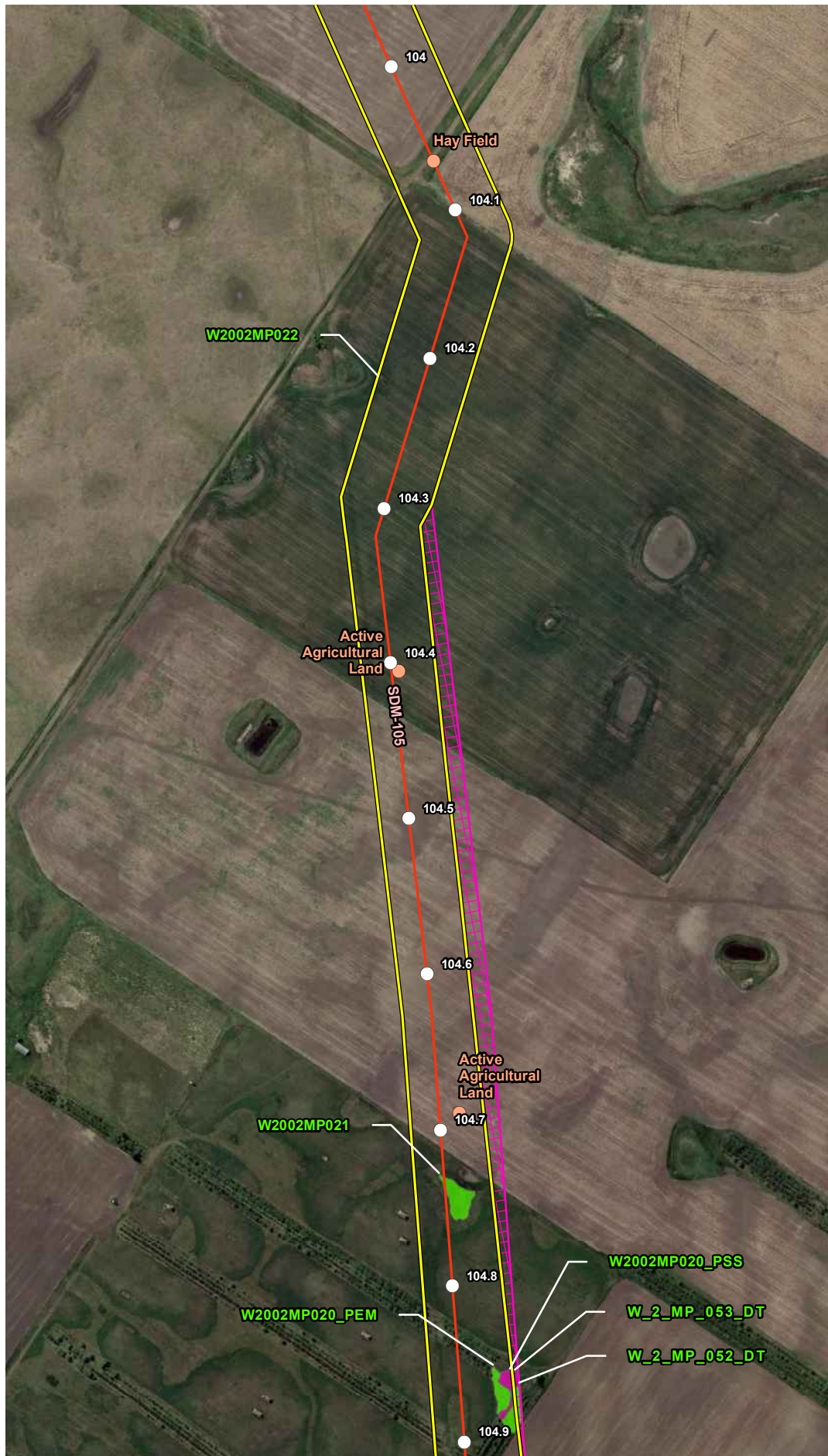
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NAD 1983 UTM Zone 14N

Sheet:
30
Sheet 30 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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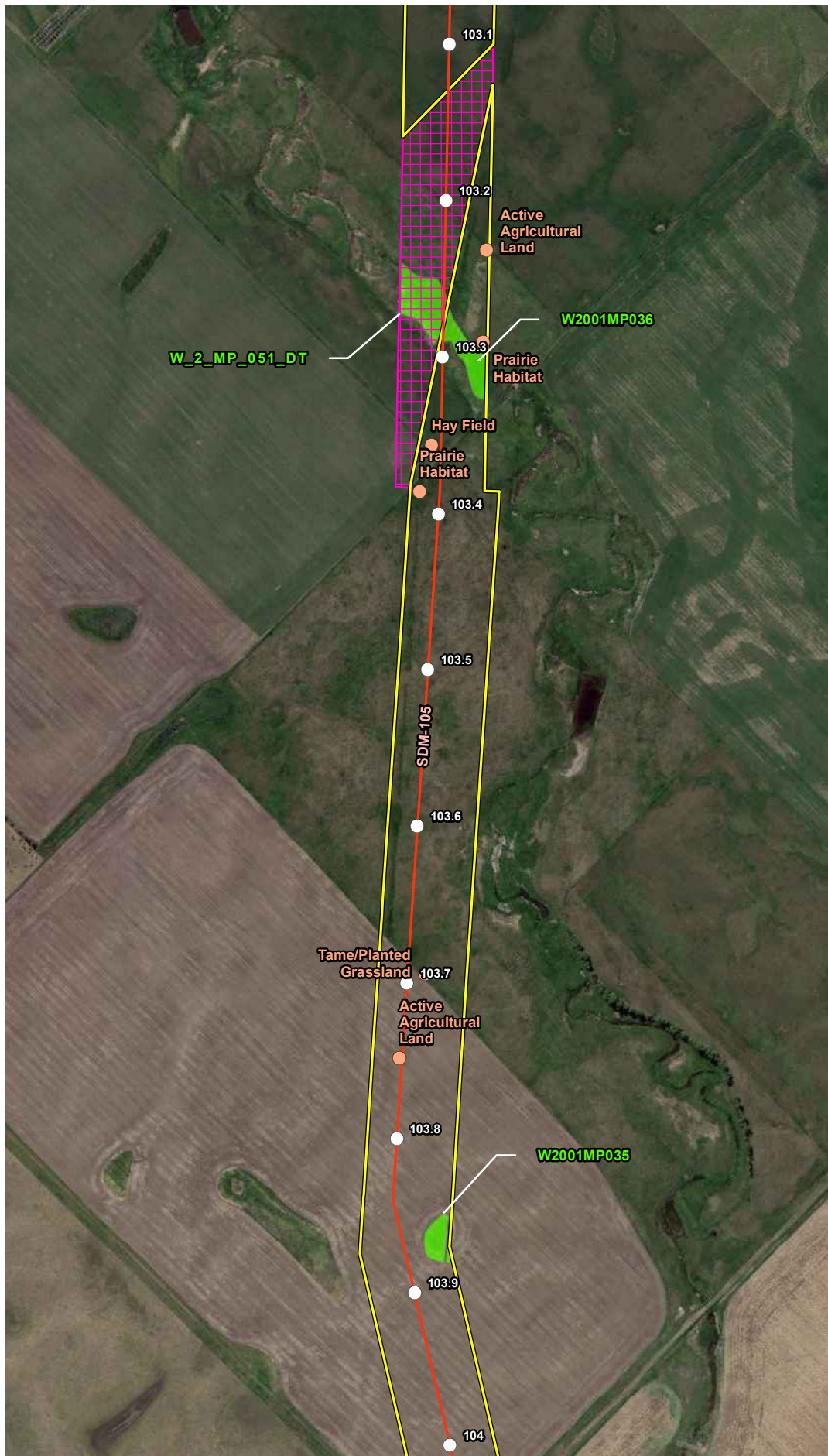
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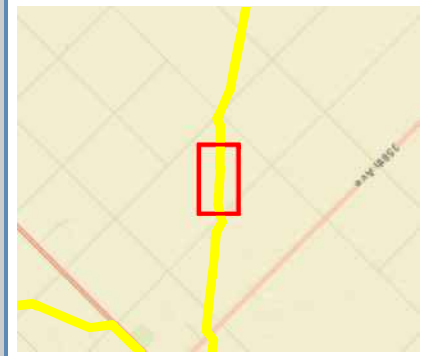
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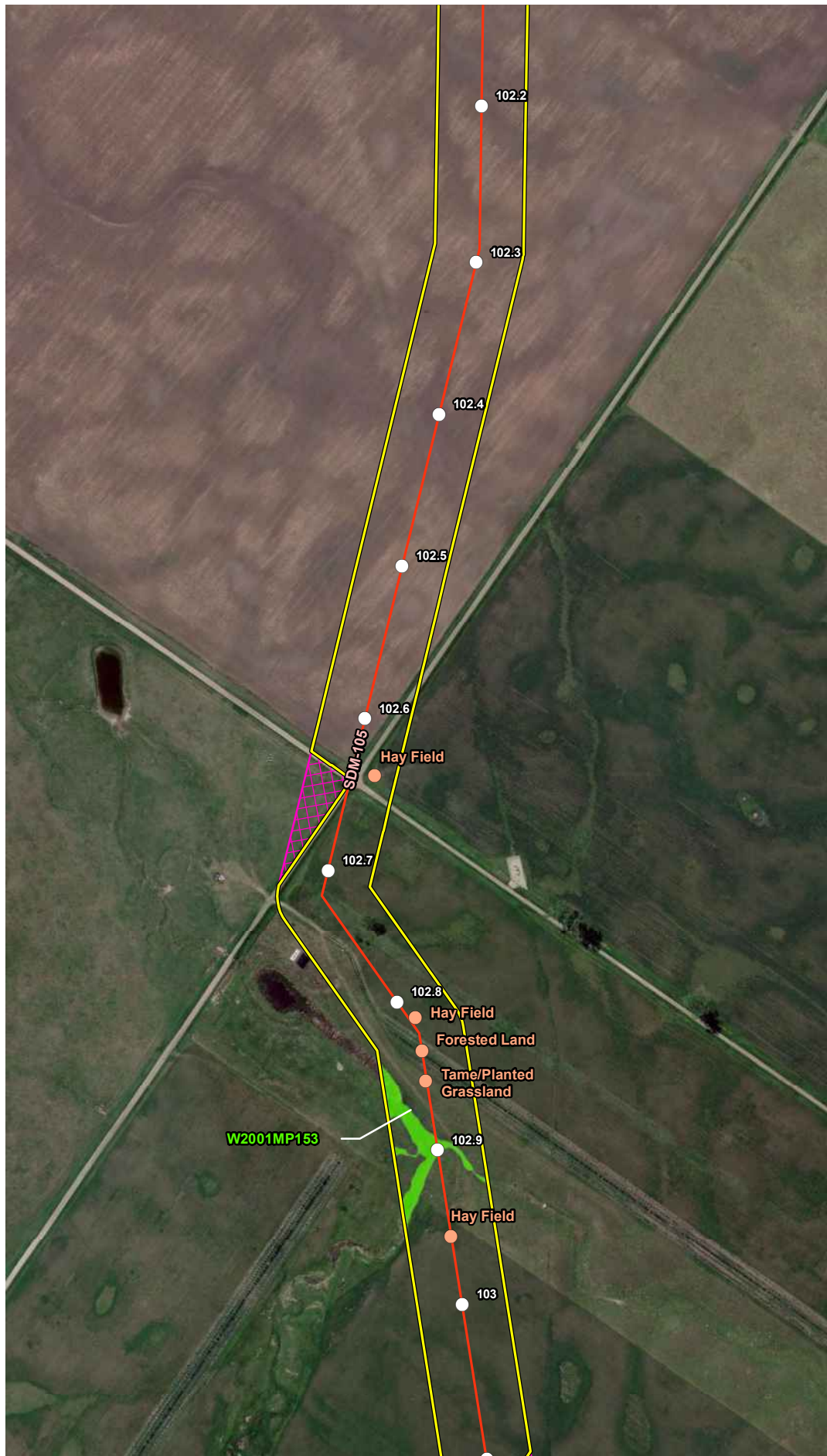
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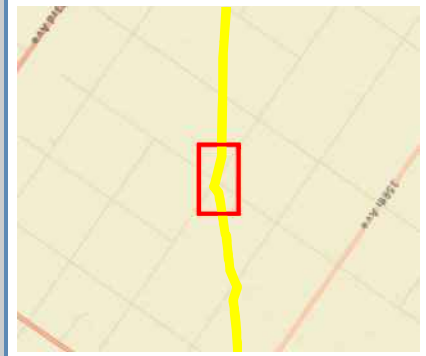
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Sheet:

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Sheet 33 of 517

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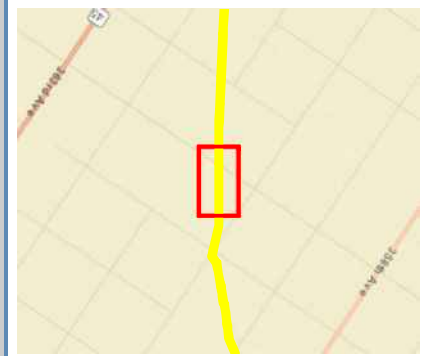
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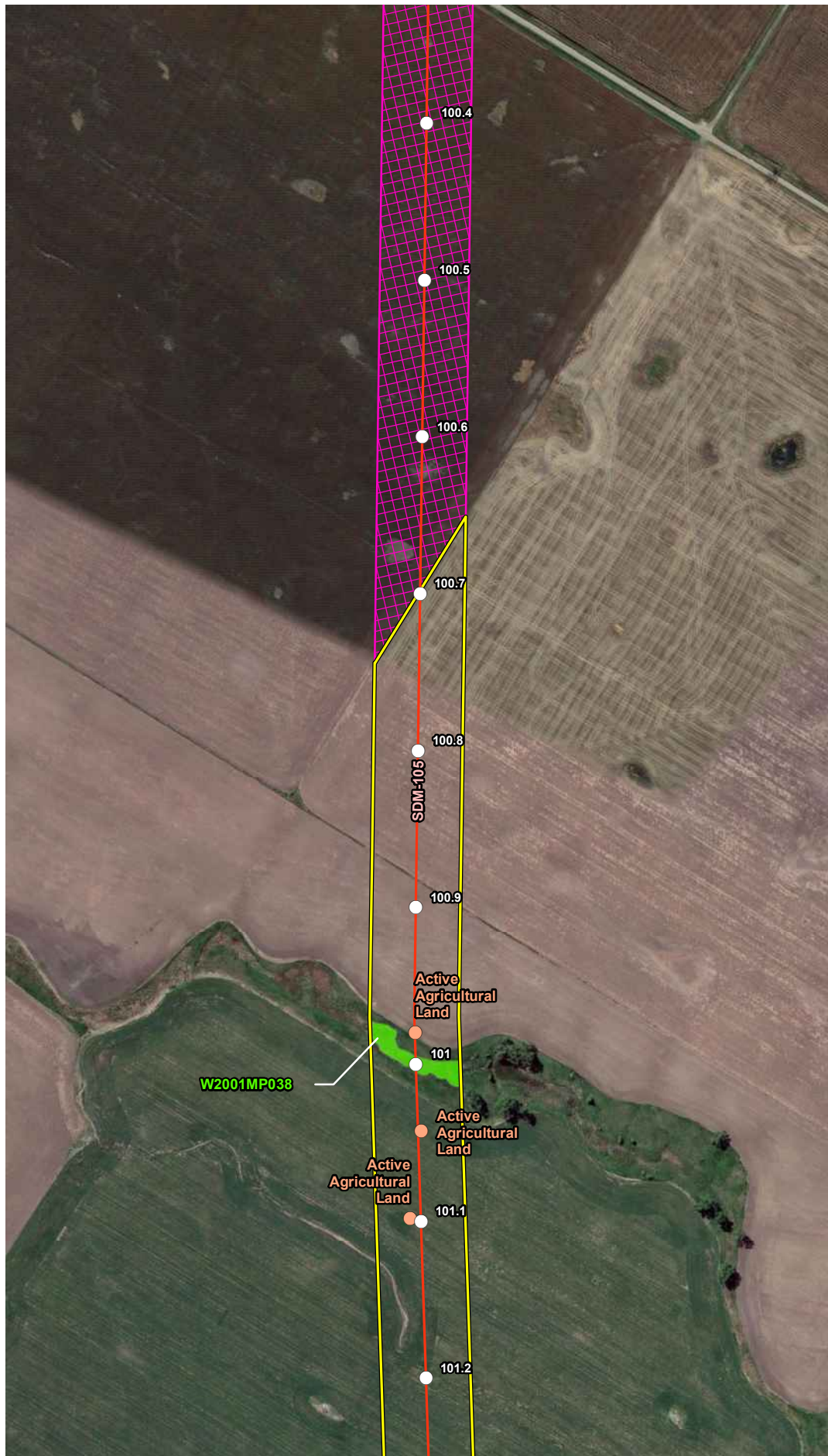
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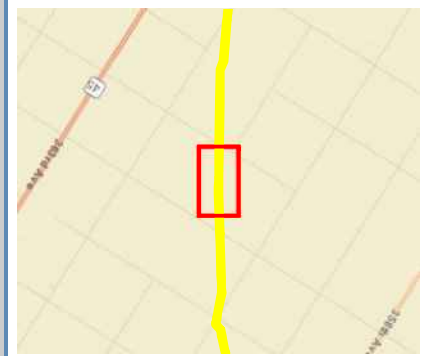
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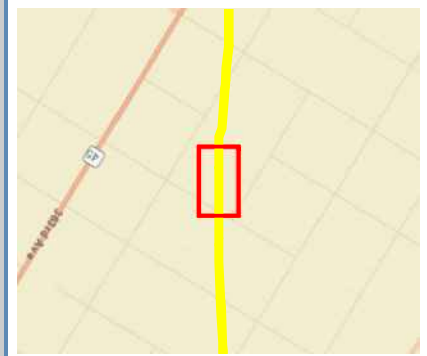
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 Sheet 35 of 517

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Figure Number:

2

Scale:
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1 inch = 500 feet

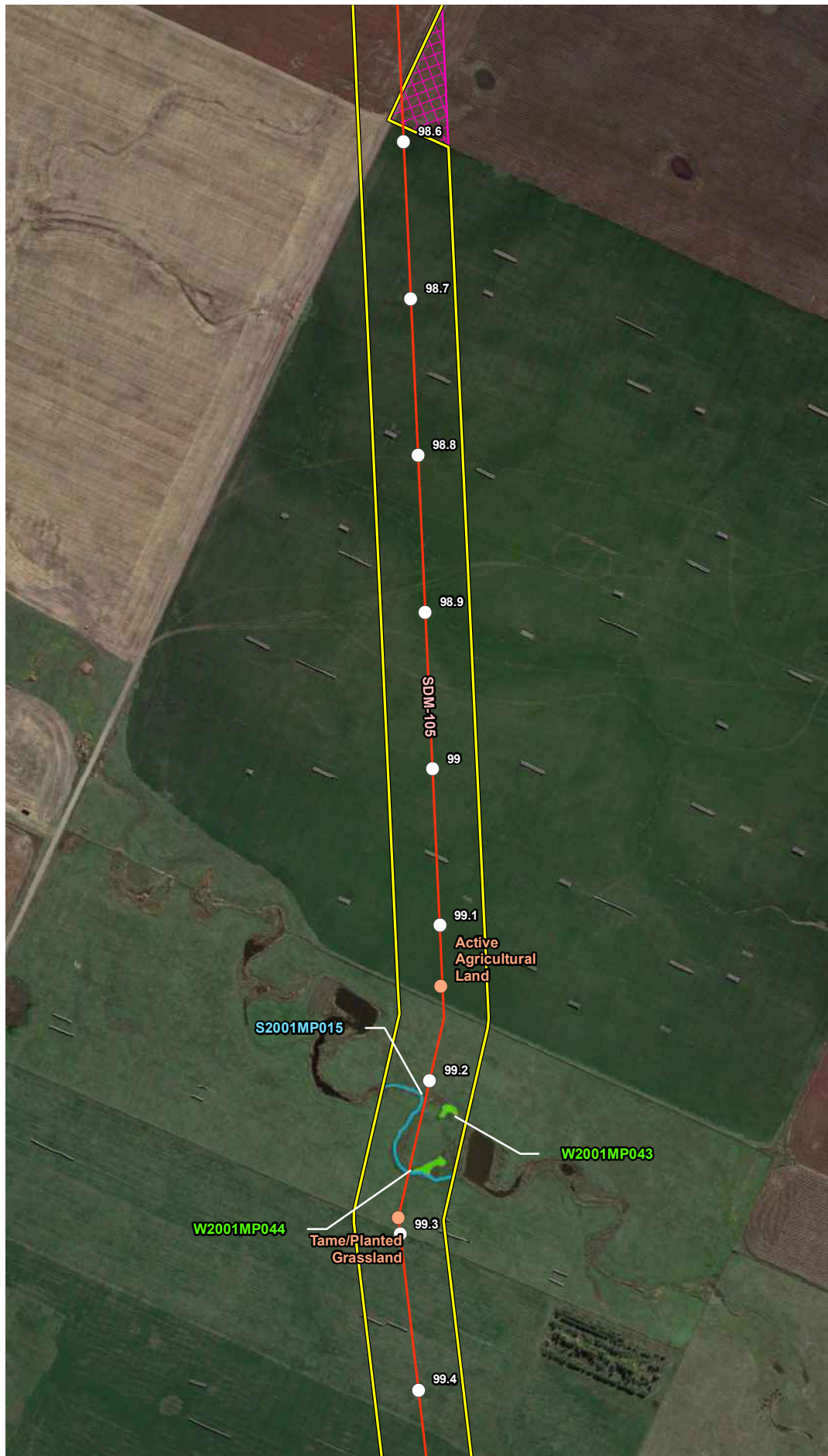
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 36 of 517

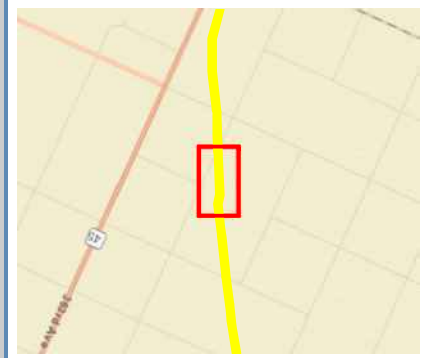
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet



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Figure Number: 2

Scale:
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1 inch = 500 feet

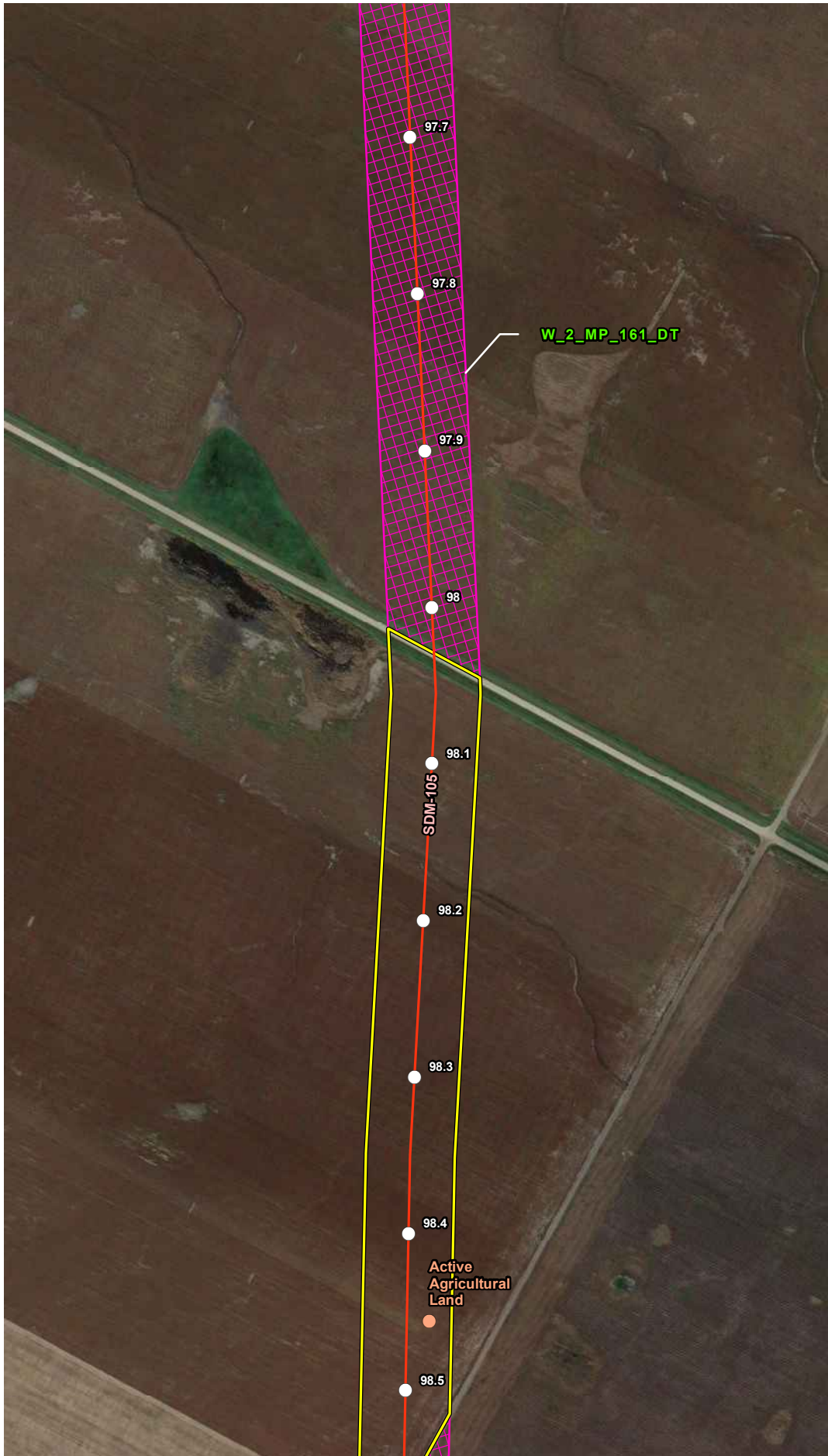
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 37 of 517

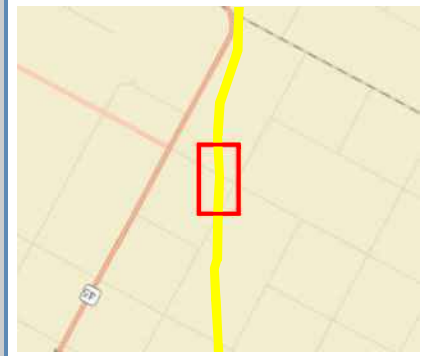
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Figure Number: 2

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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
38
Sheet 38 of 517

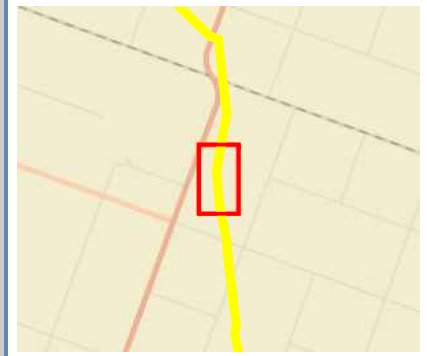
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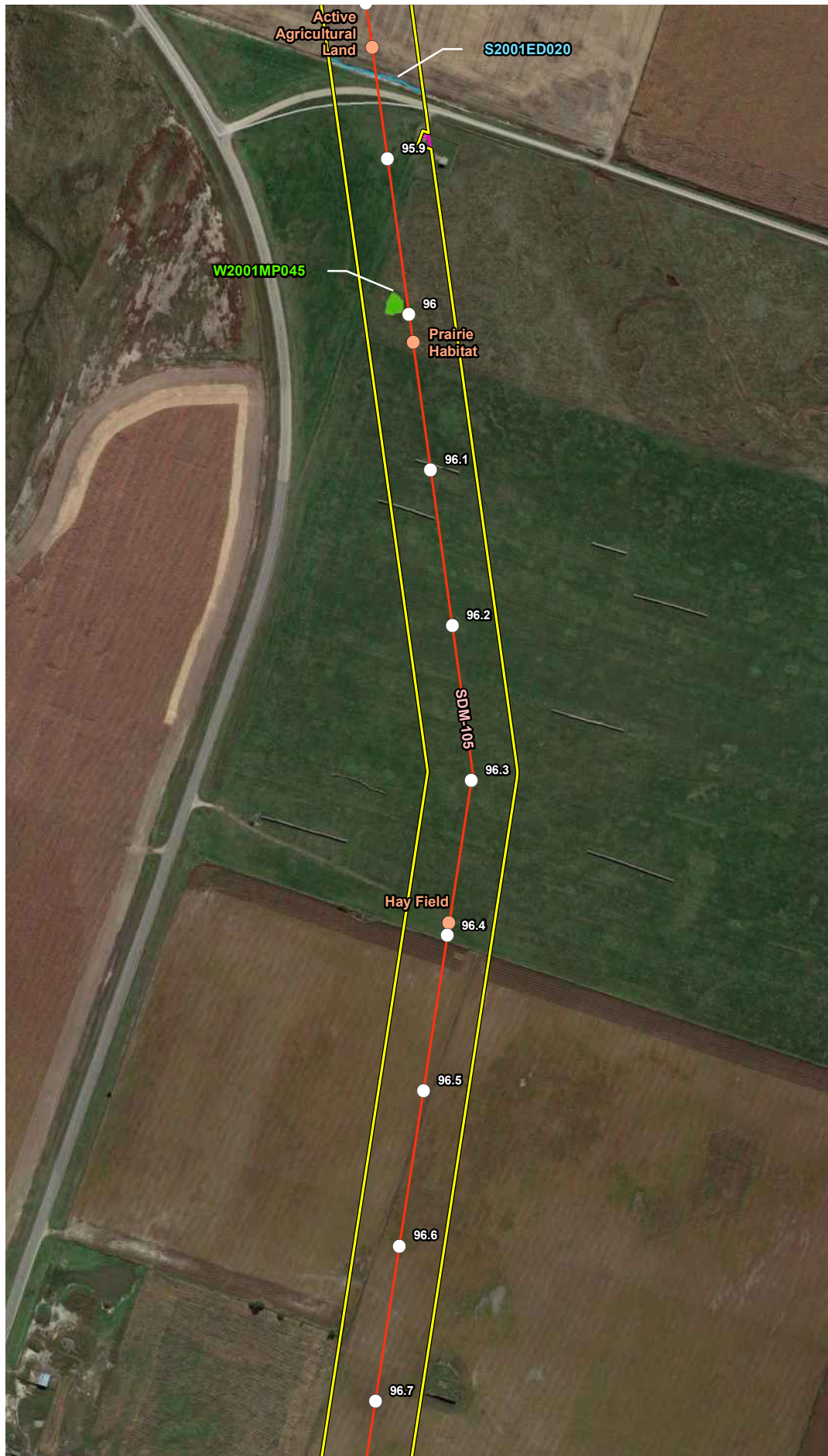
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 Sheet 39 of 517

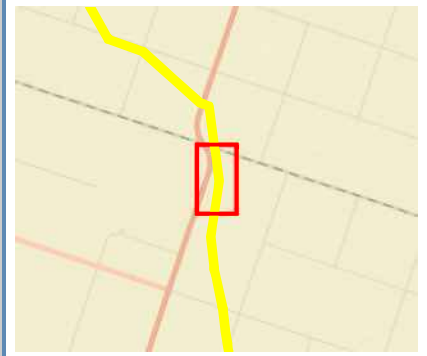
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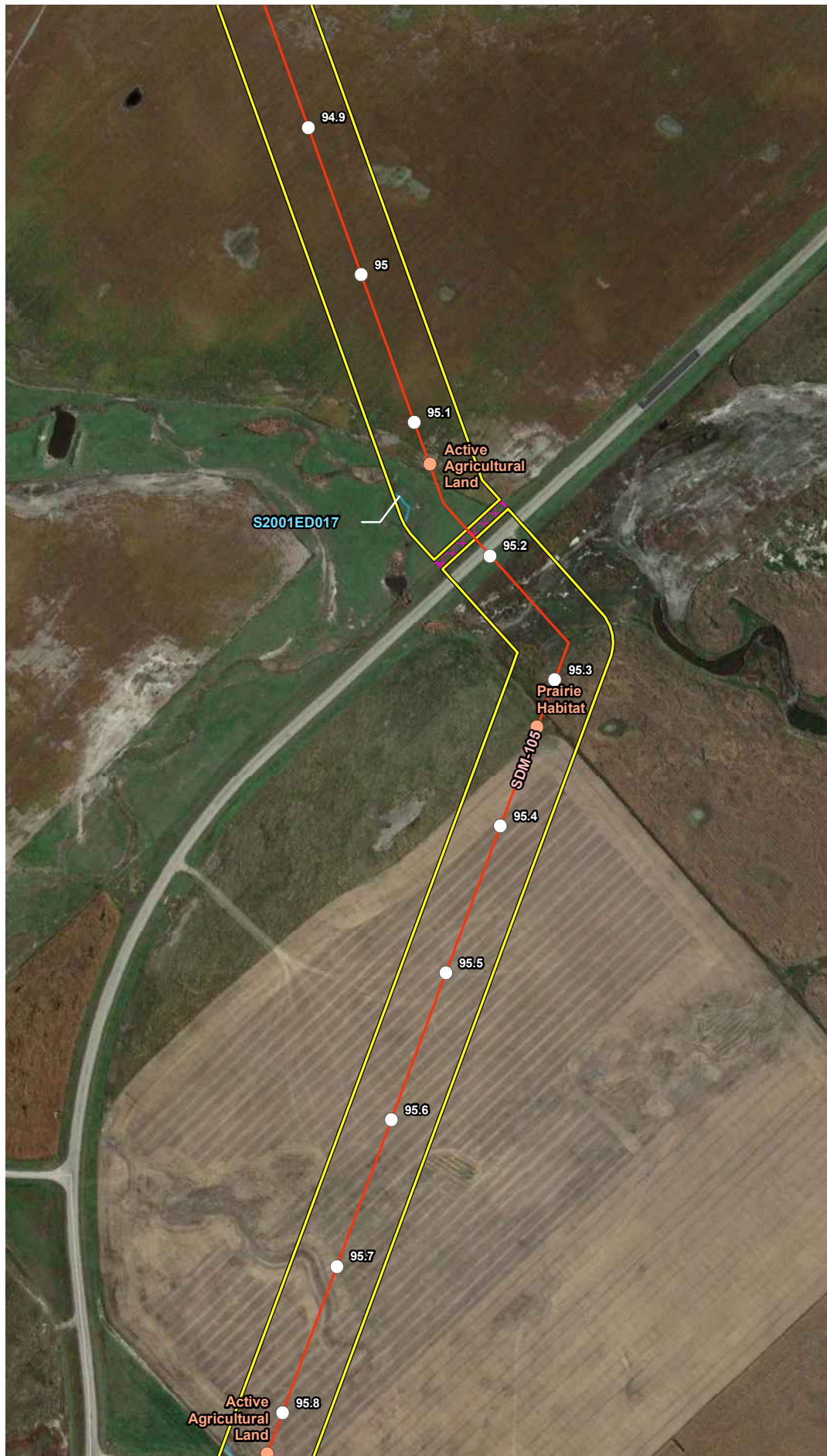
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Sheet 40 of 517

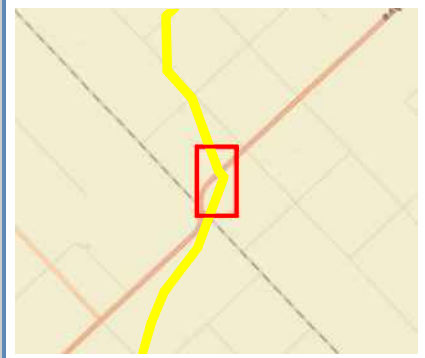
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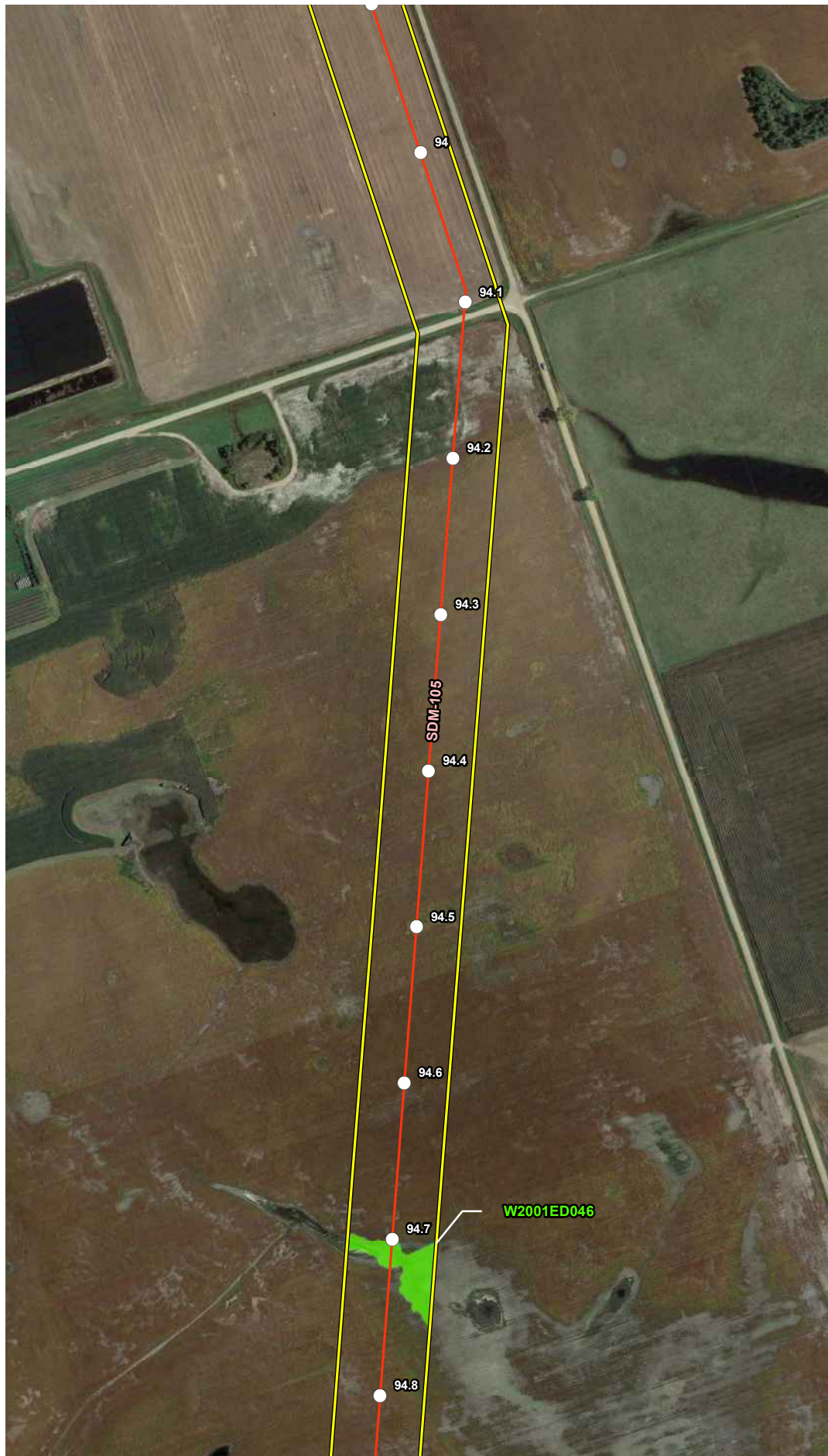
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 NAD 1983 UTM Zone 14N

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 Sheet 41 of 517

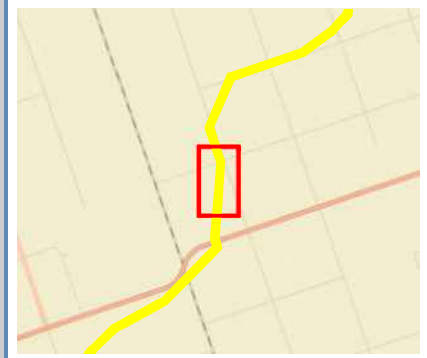
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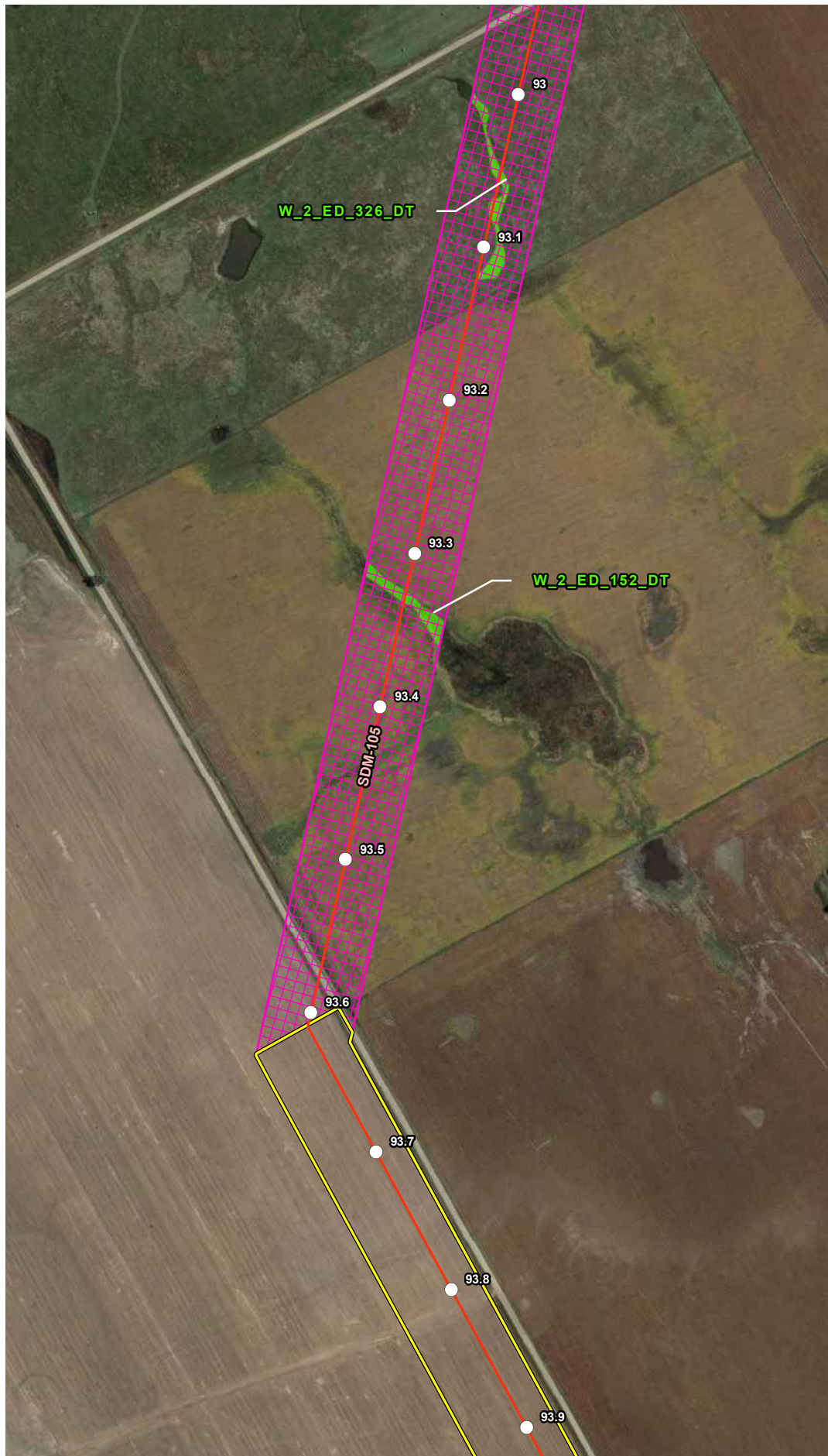
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Sheet:
42
Sheet 42 of 517

Drawing Number:
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0 250 500
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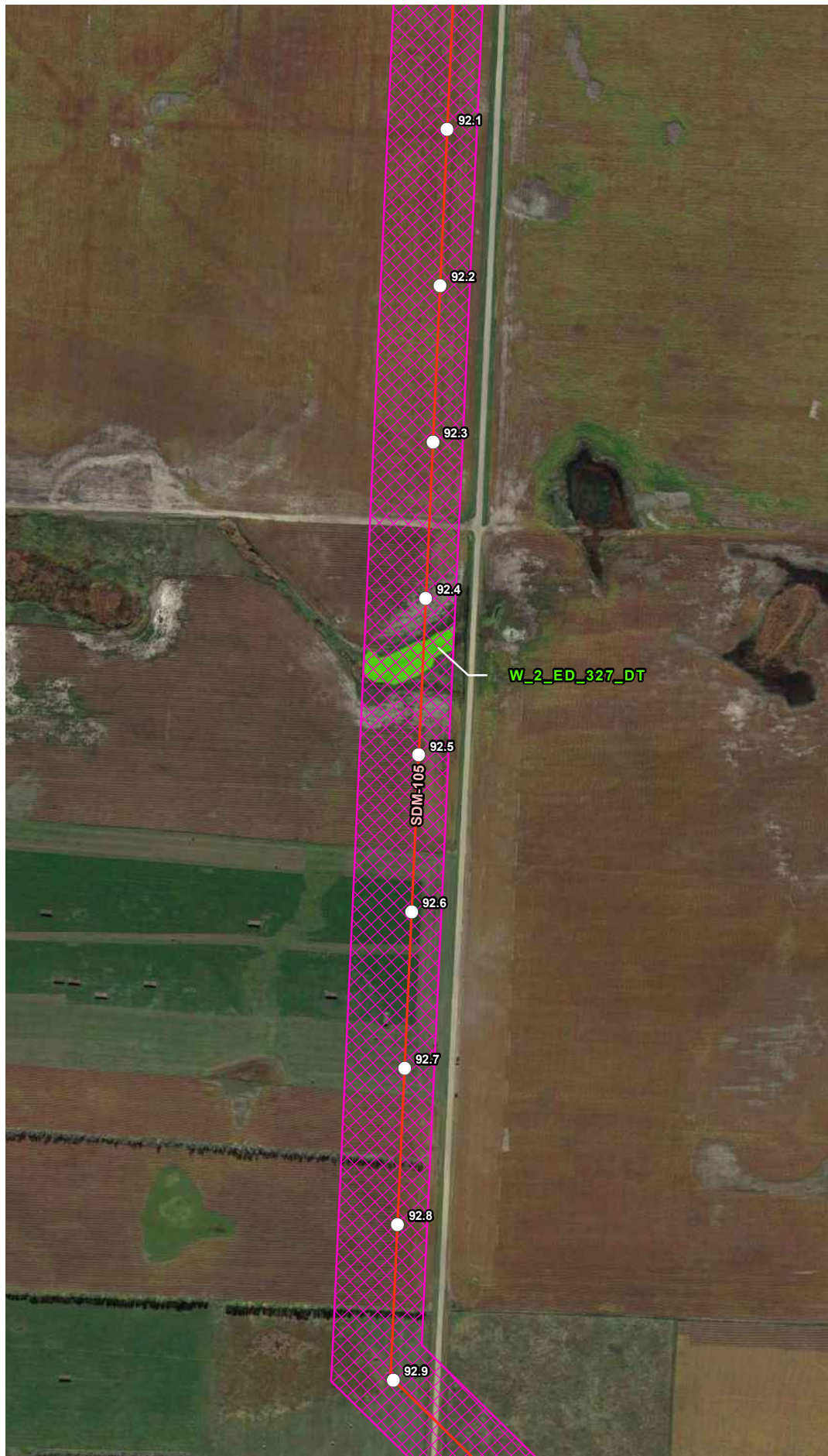
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Sheet 43 of 517

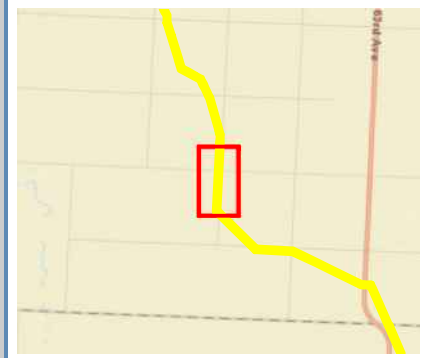
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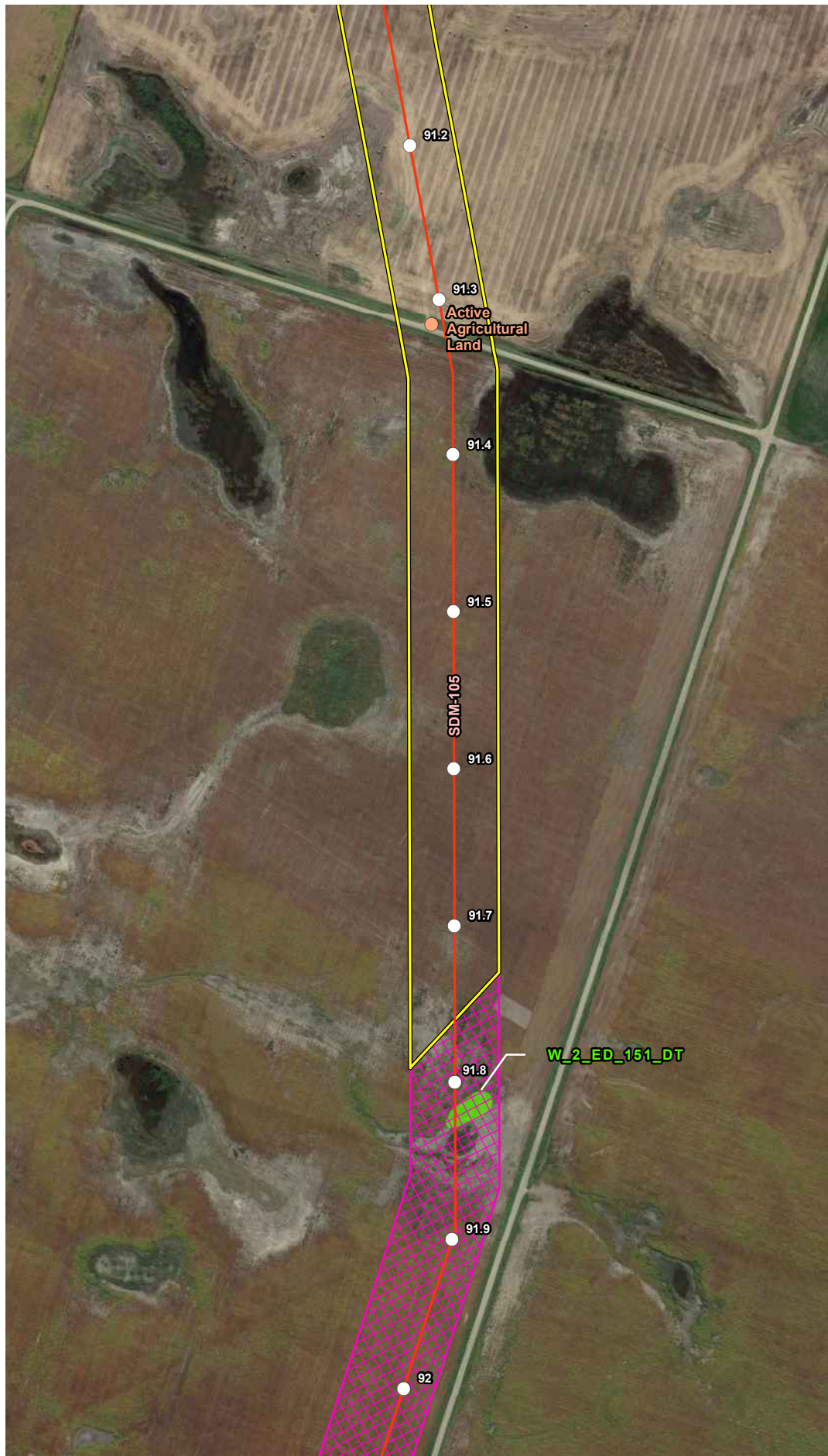
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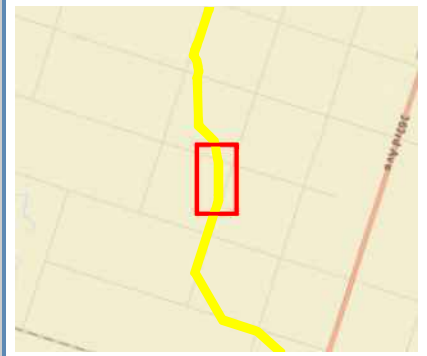
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NAD 1983 UTM Zone 14N

Sheet:

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Sheet 45 of 517

Drawing Number:

2001-21-002

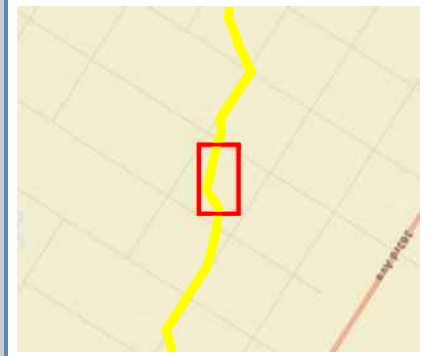
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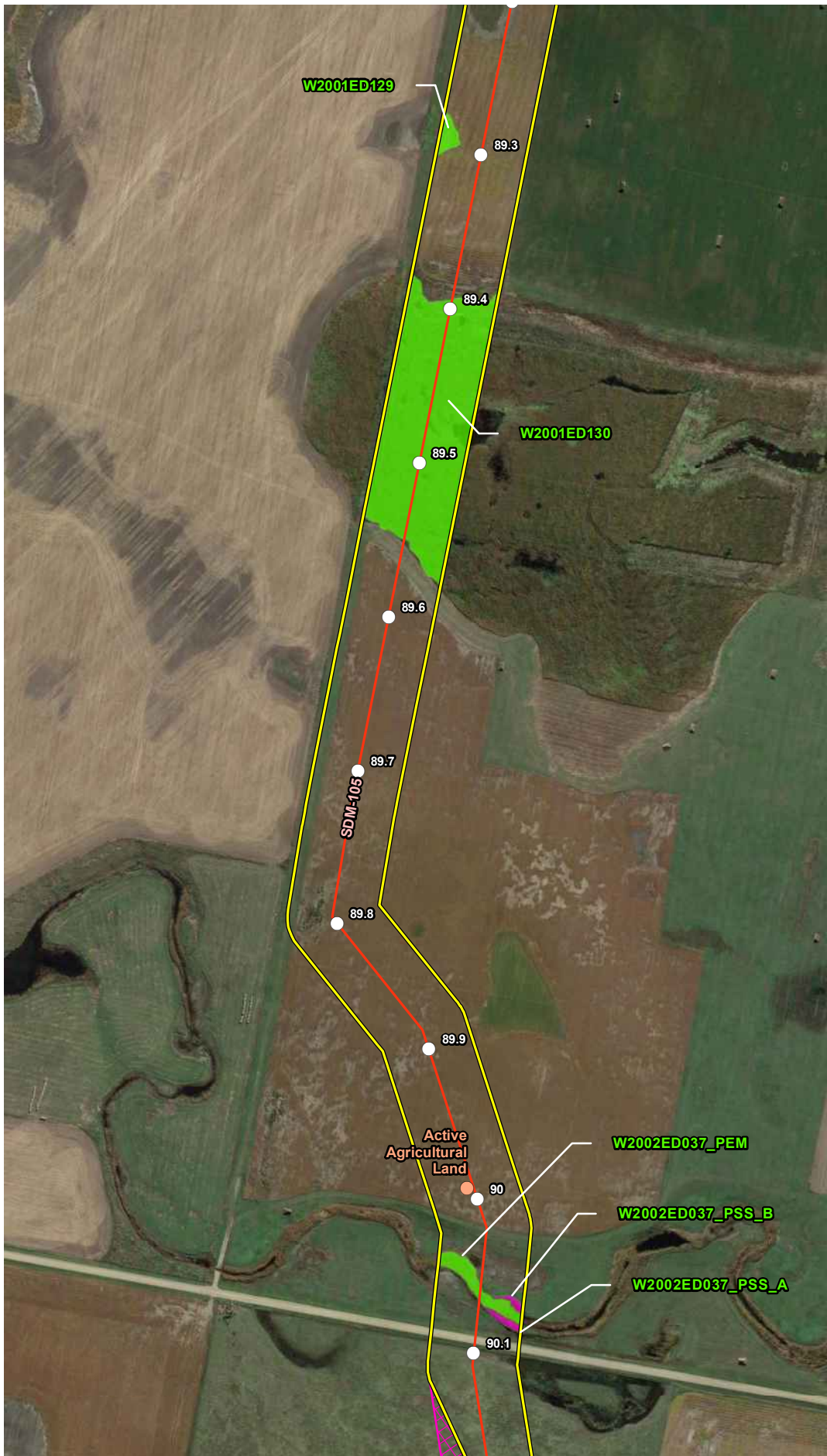
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Sheet:
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Sheet 46 of 517

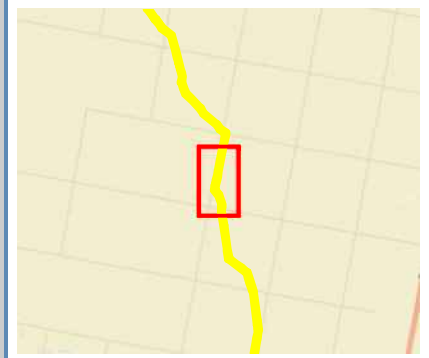
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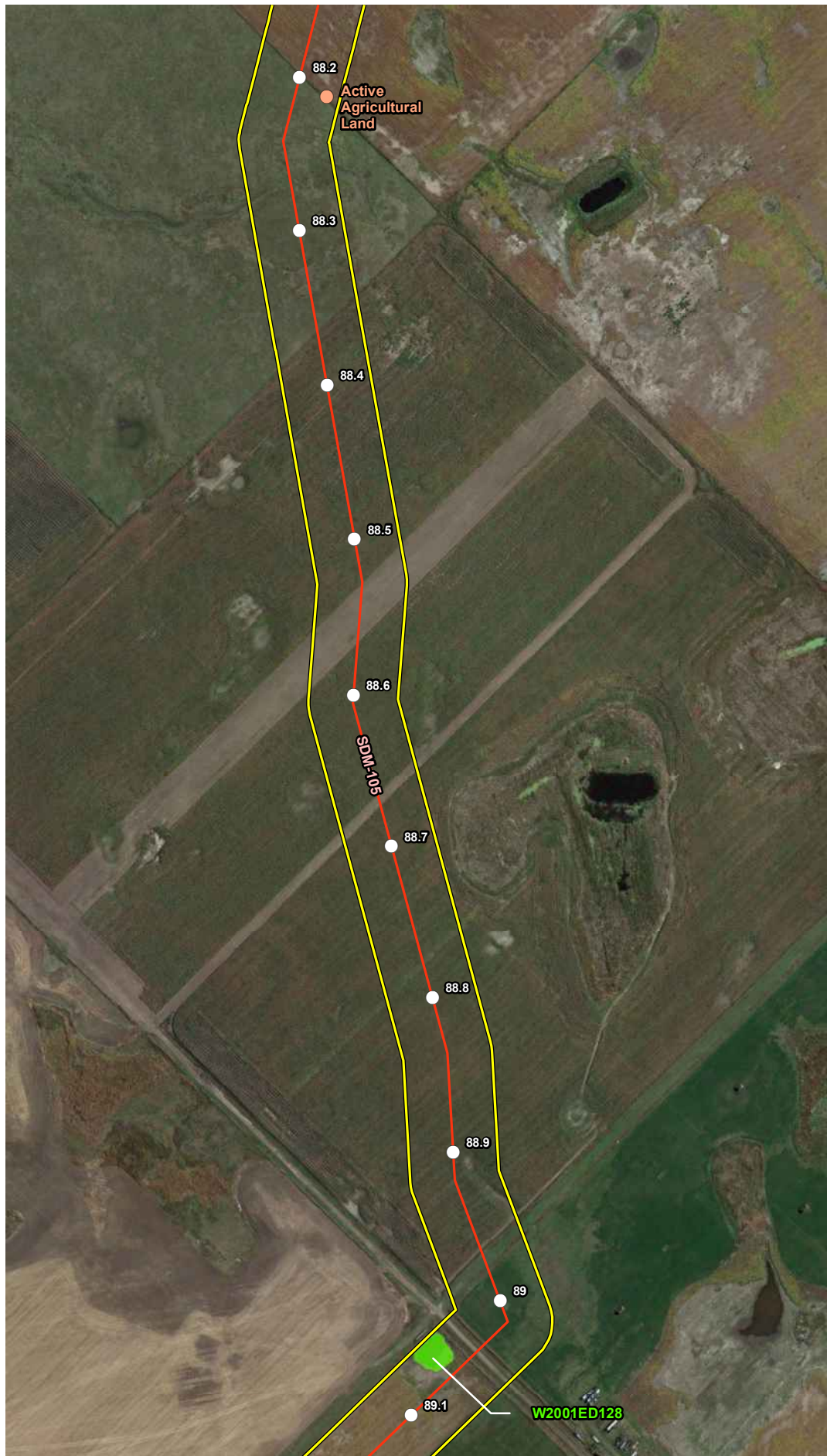
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Sheet 47 of 517

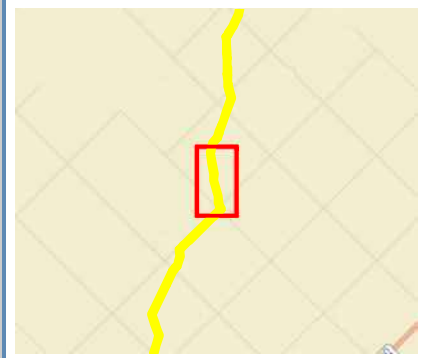
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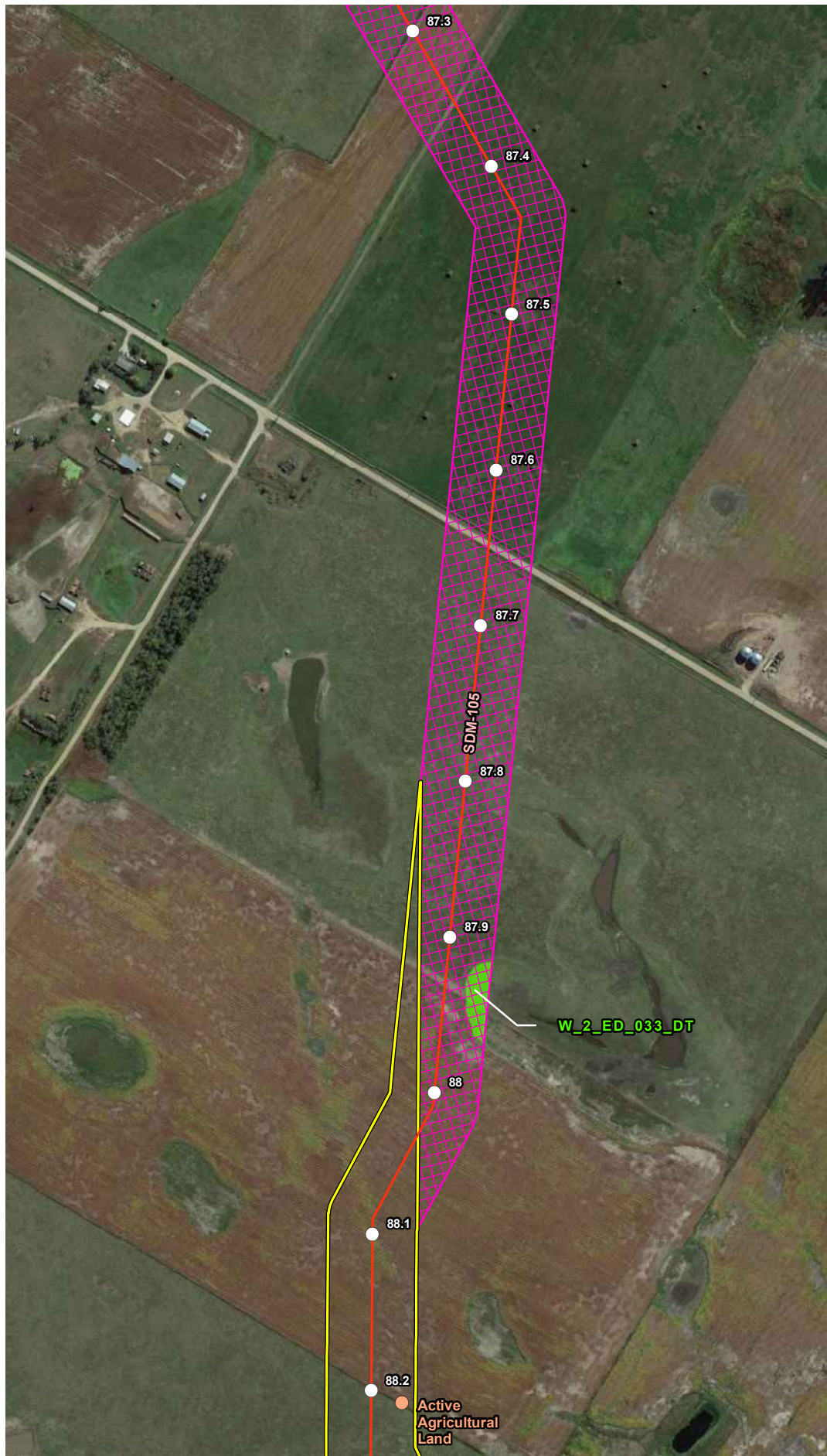
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 Sheet 48 of 517

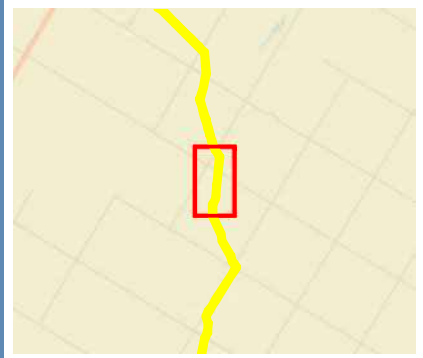
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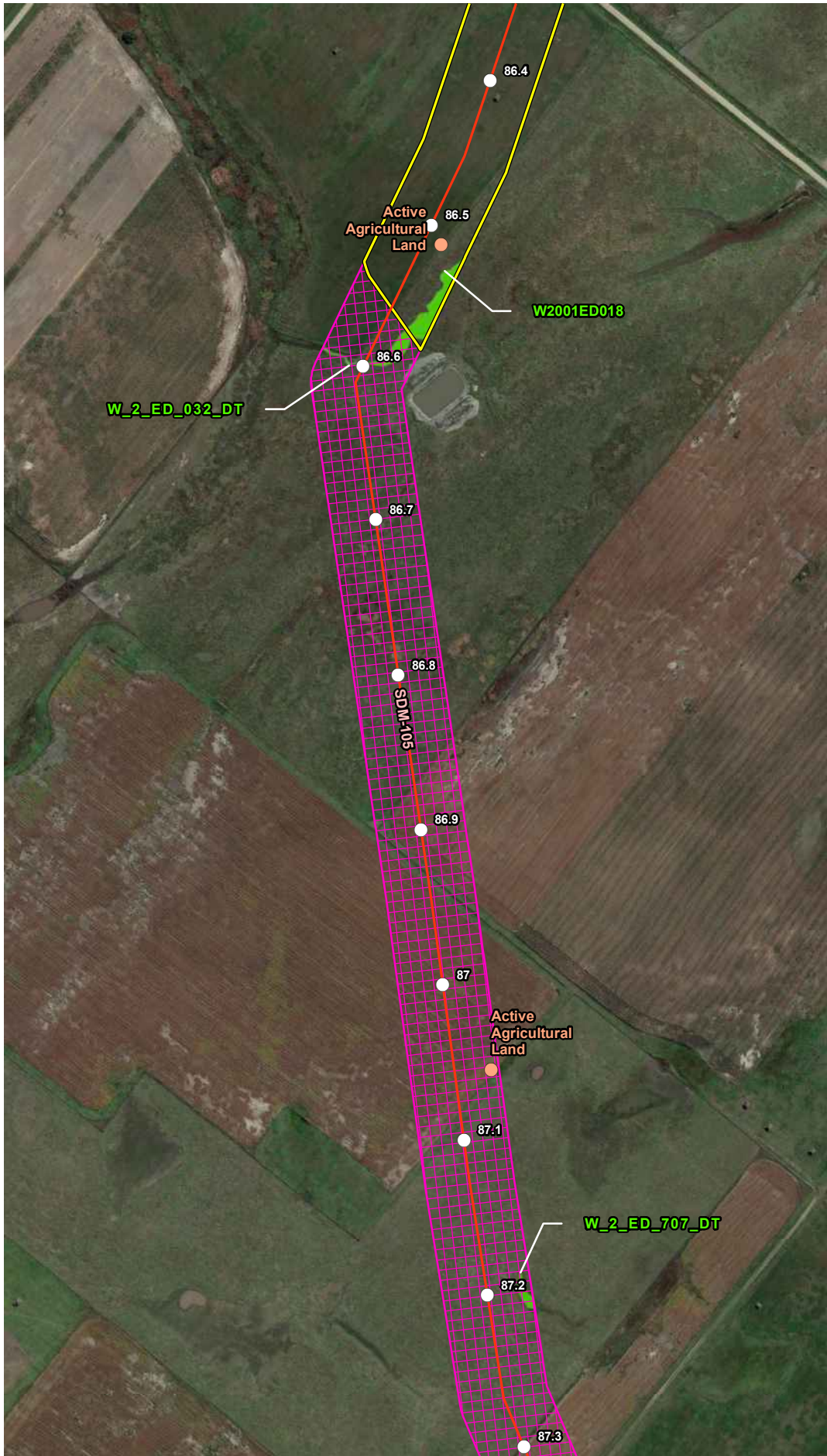
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Sheet 49 of 517

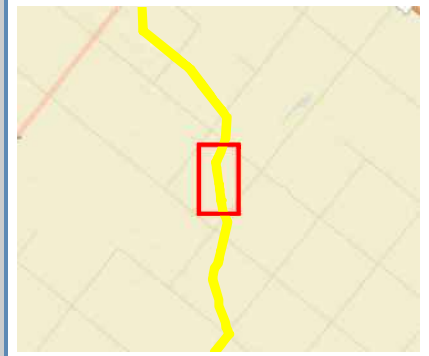
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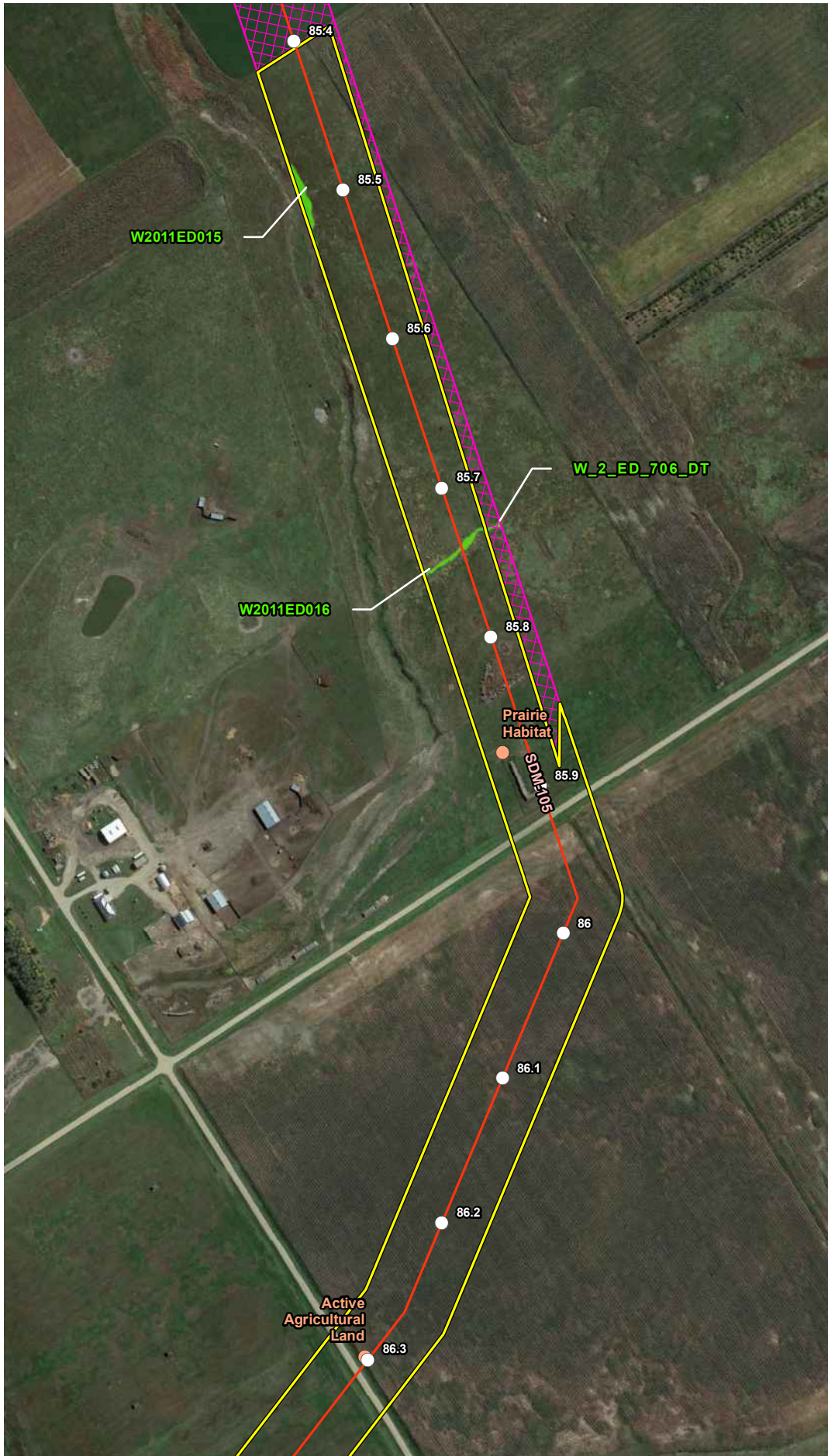
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NAD 1983 UTM Zone 14N

Sheet:
50
Sheet 50 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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 2

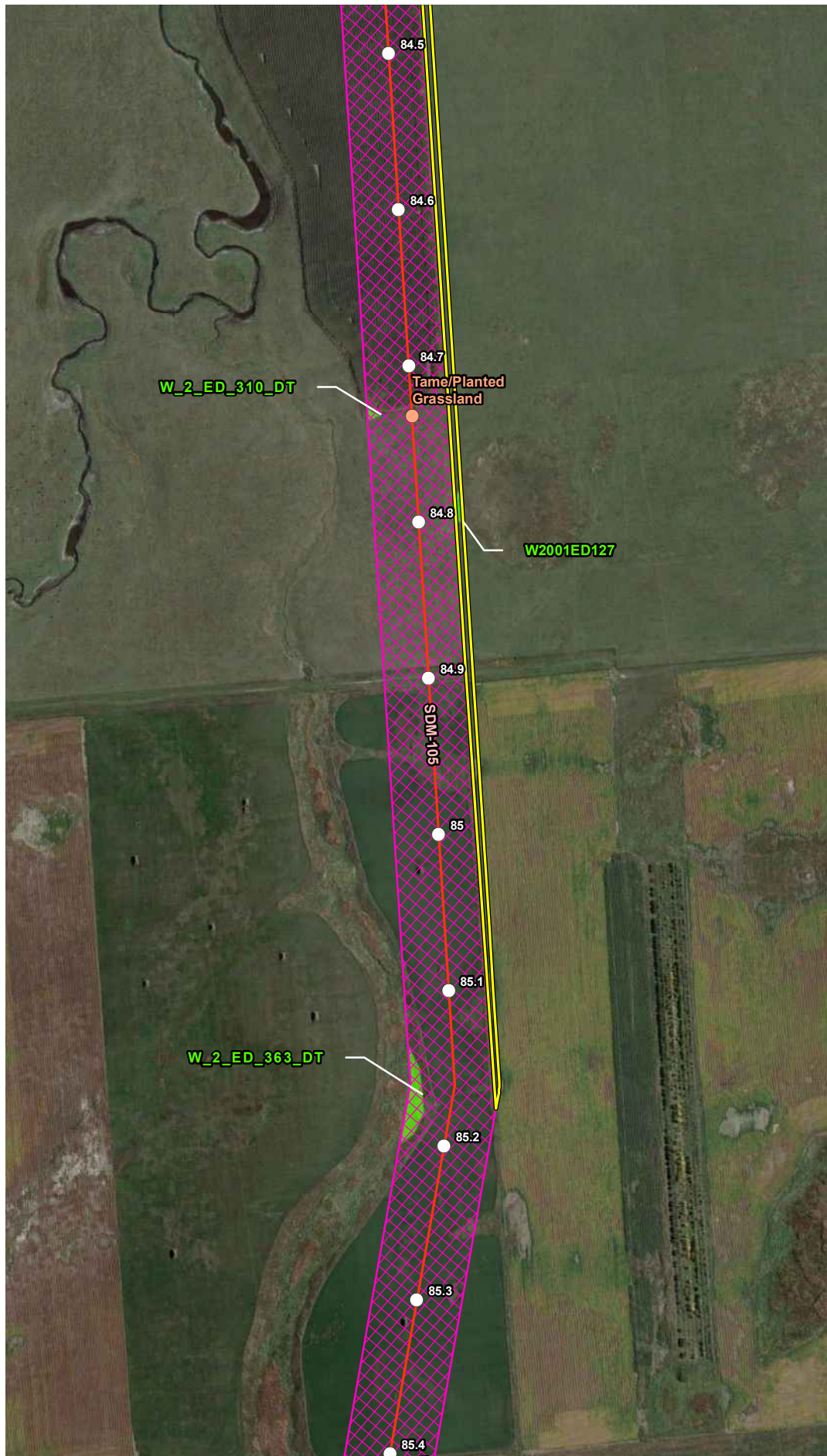
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 1 inch = 500 feet

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Transverse Mercator
 NAD 1983 UTM Zone 14N

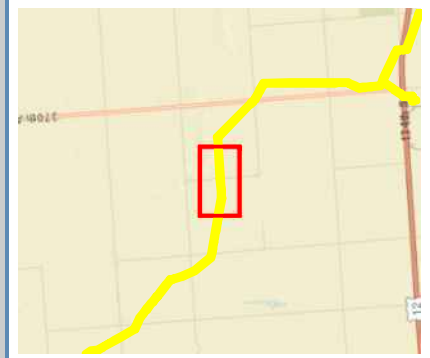
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 Sheet 51 of 517

Drawing Number:
2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

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Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
52
Sheet 52 of 517

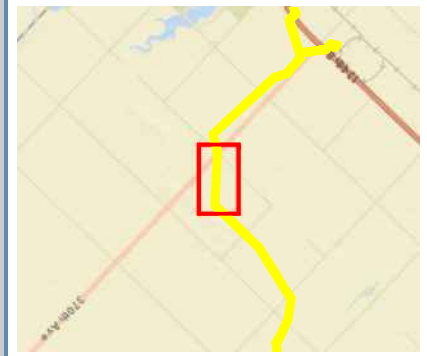
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0 250 500 Feet



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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 53 of 517

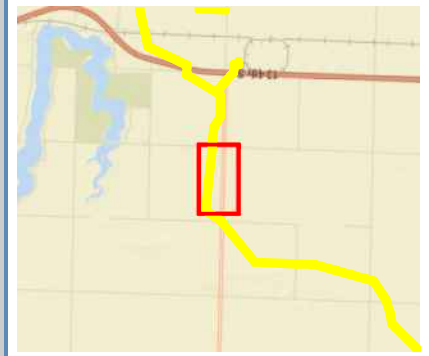
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0 250 500 Feet



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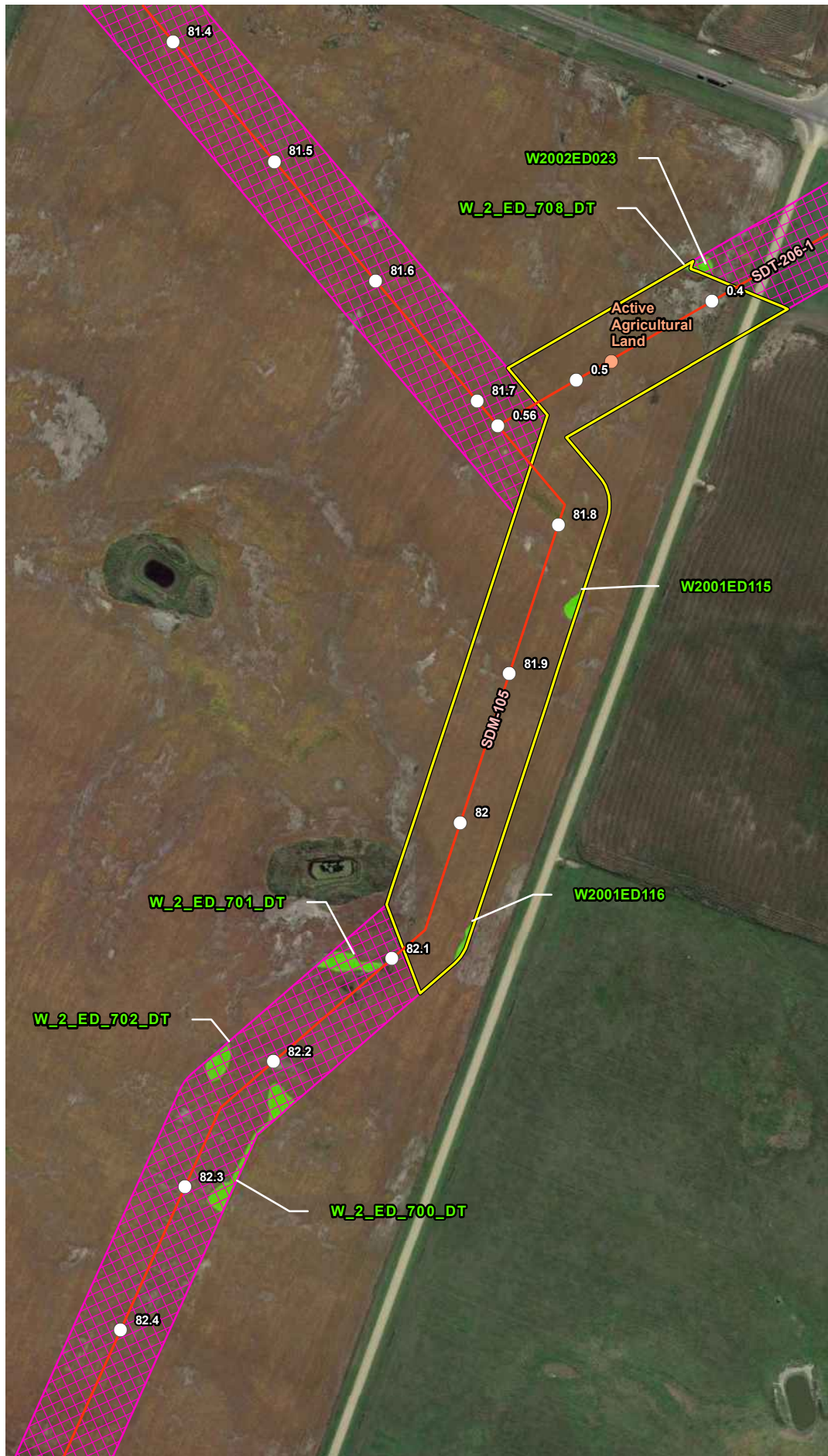
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NAD 1983 UTM Zone 14N

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Sheet 54 of 517

Drawing Number:
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VICINITY MAP



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0 250 500 Feet



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Scale:
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Projection:
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NAD 1983 UTM Zone 14N

Sheet:
55
Sheet 55 of 517

Drawing Number:
2001-21-002
Current Revision

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VICINITY MAP



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0 250 500 Feet



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NAD 1983 UTM Zone 14N

Sheet:
56
Sheet 56 of 517

Drawing Number:
2001-21-002
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0 250 500
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

57

Sheet 57 of 517

Drawing Number:

2001-21-002

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VICINITY MAP



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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
58

Sheet 58 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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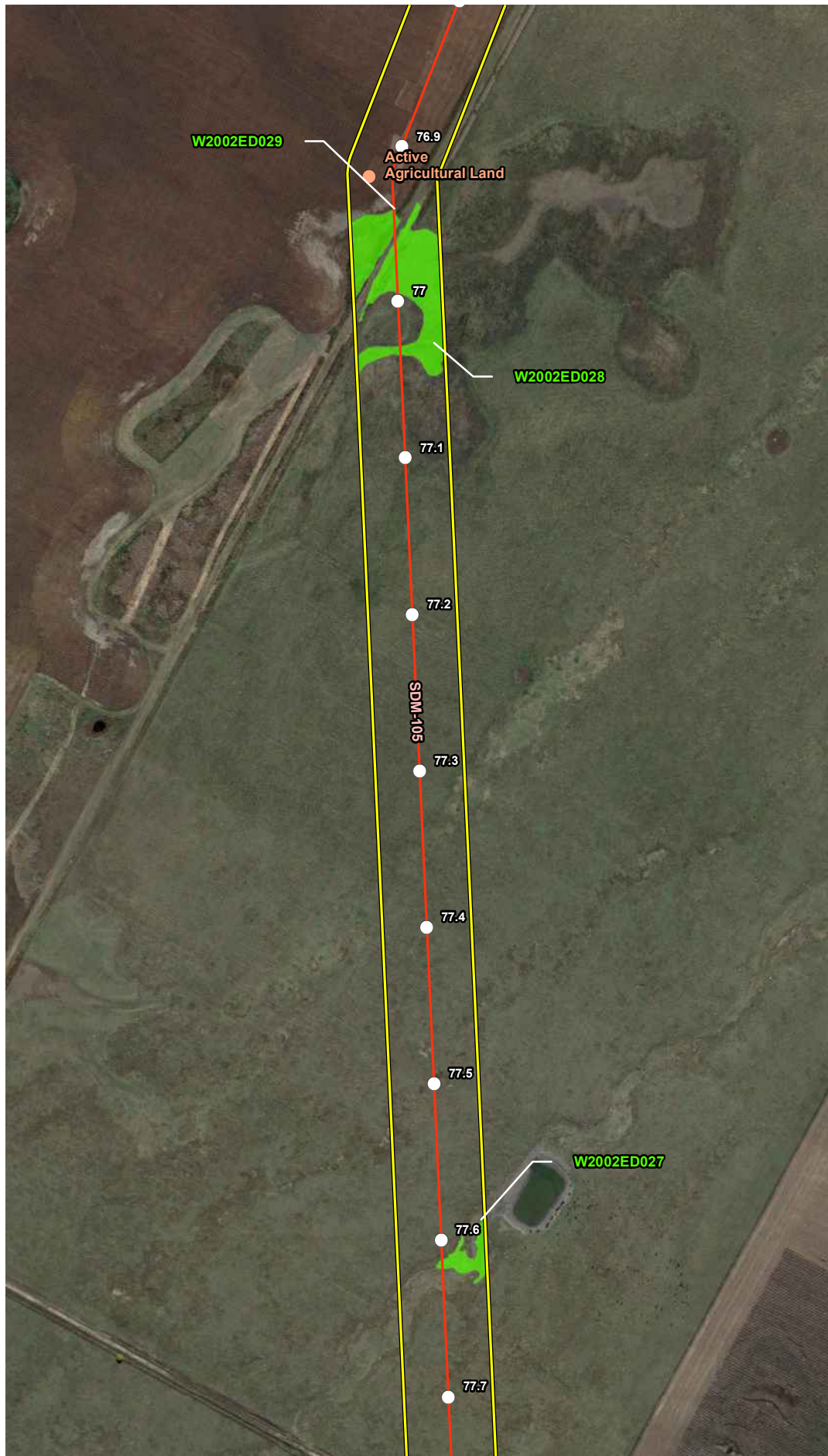
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 59 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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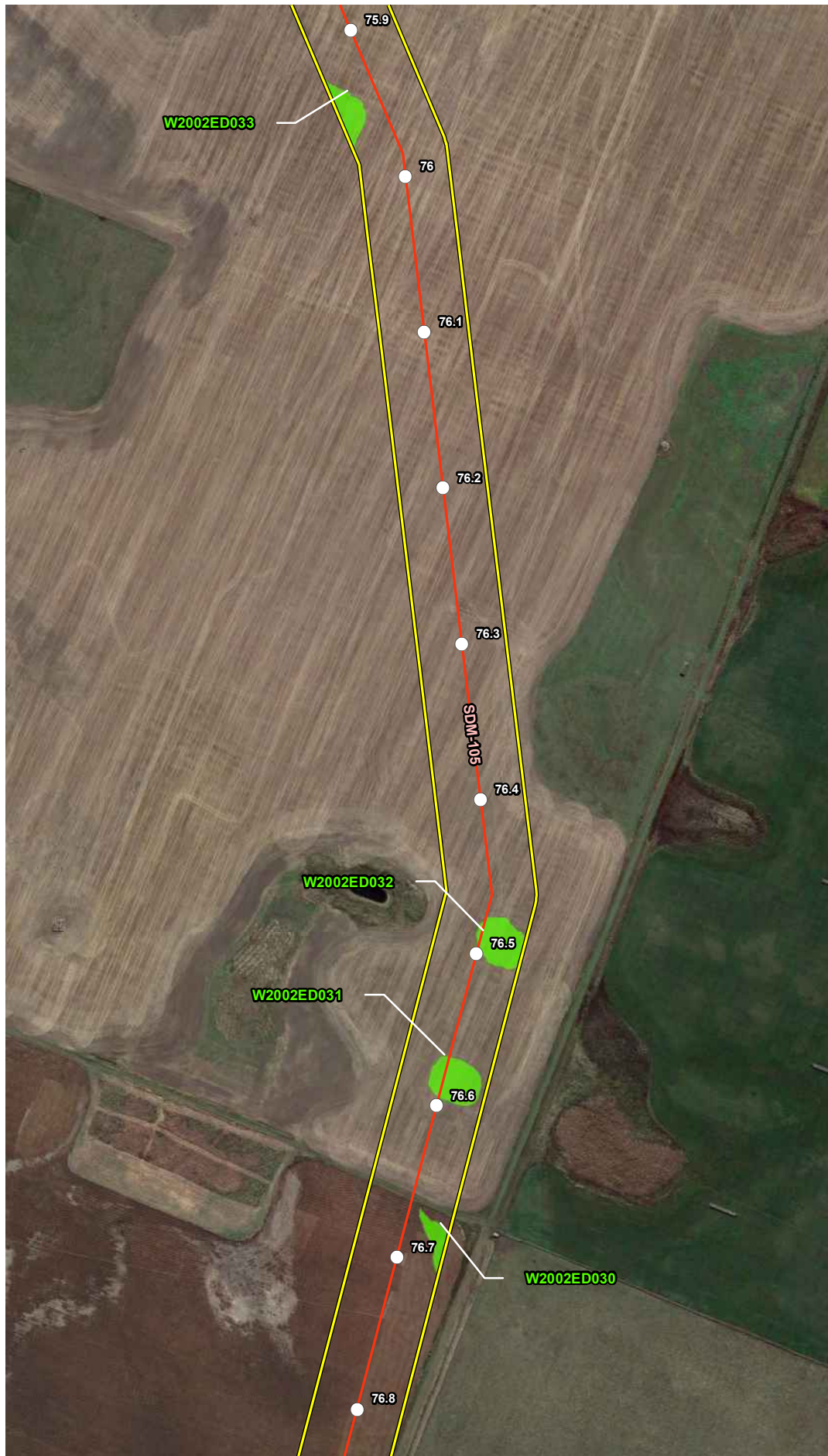
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Sheet 60 of 517

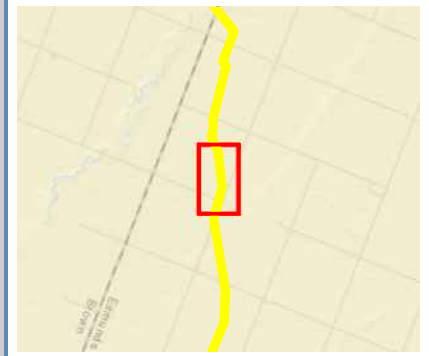
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AERIAL MAP



VICINITY MAP



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0 250 500
Feet



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2

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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

61

Sheet 61 of 517

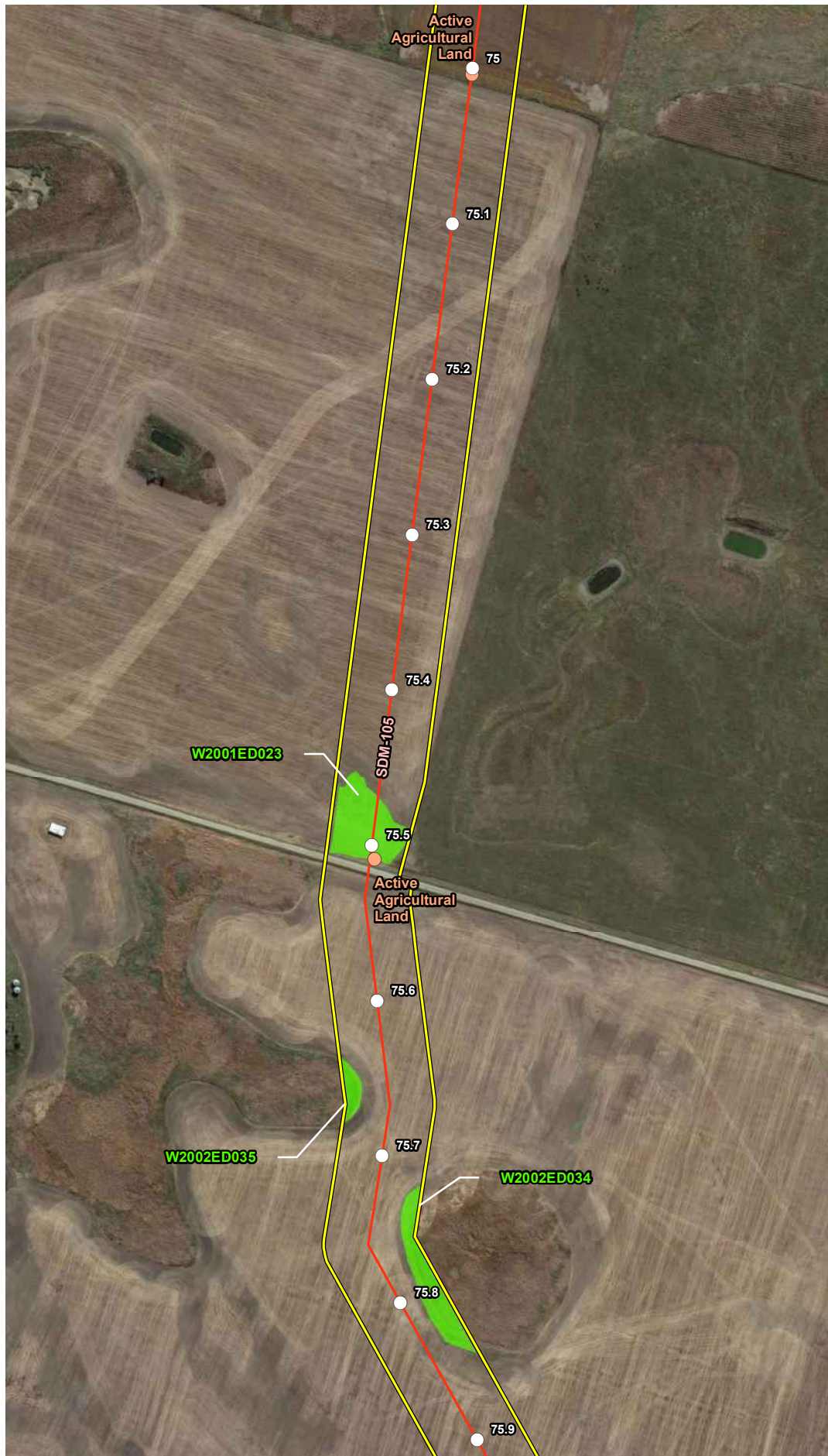
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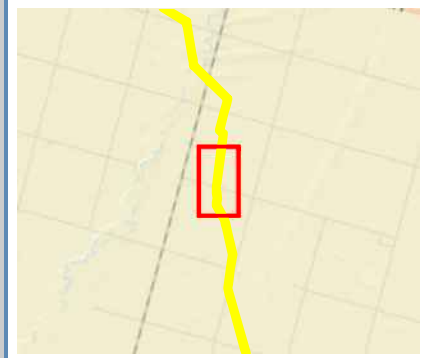
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0 250 500 Feet



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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
62
Sheet 62 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500
Feet



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1 inch = 500 feet

Projection:

Transverse Mercator

NAD 1983 UTM Zone 14N

Sheet:

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Sheet 63 of 517

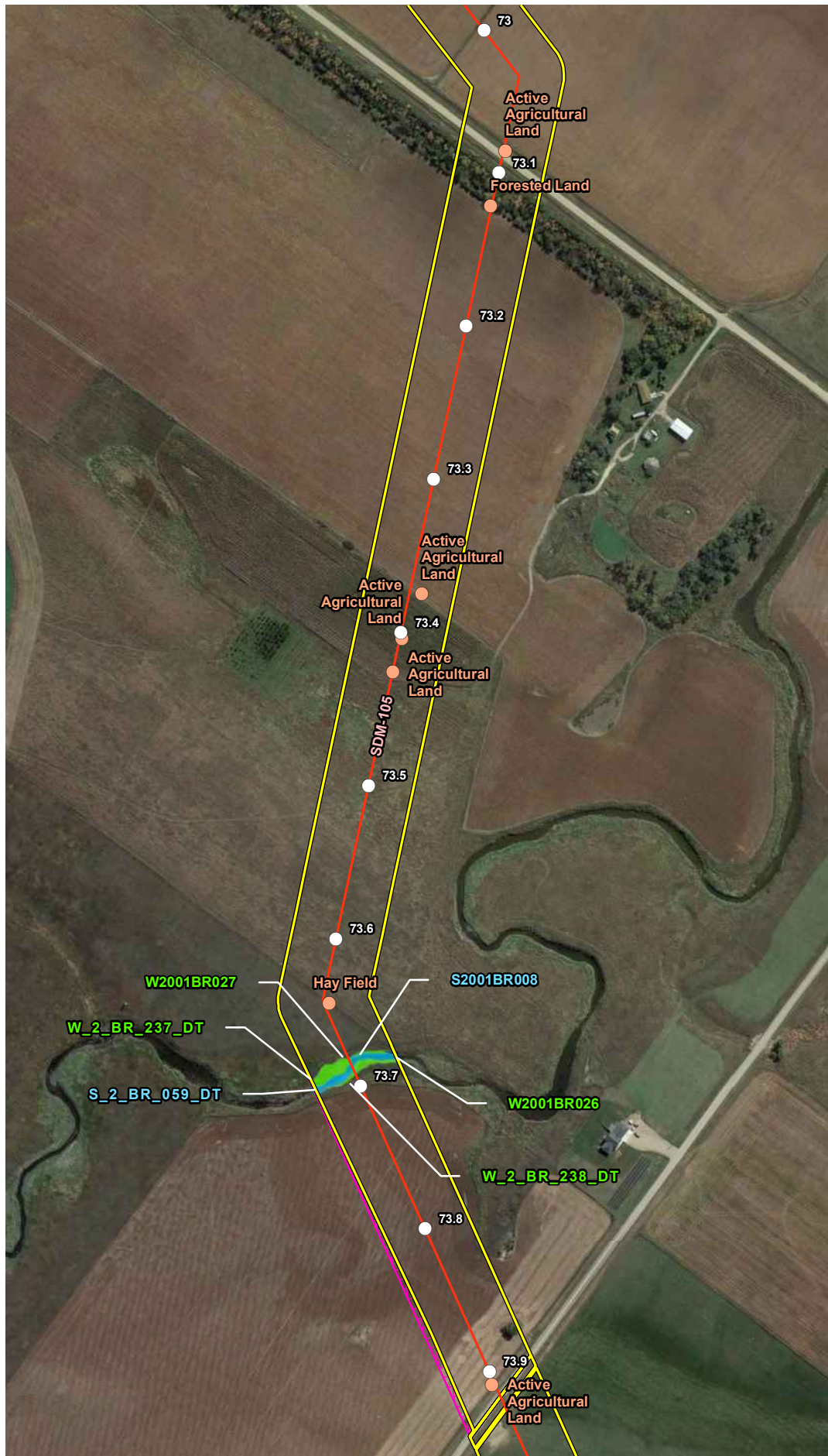
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
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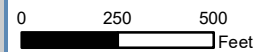


VICINITY MAP



LEGEND

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NAD 1983 UTM Zone 14N

Sheet
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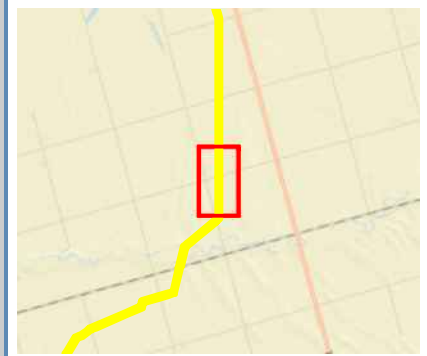
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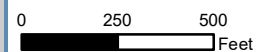


VICINITY MAP



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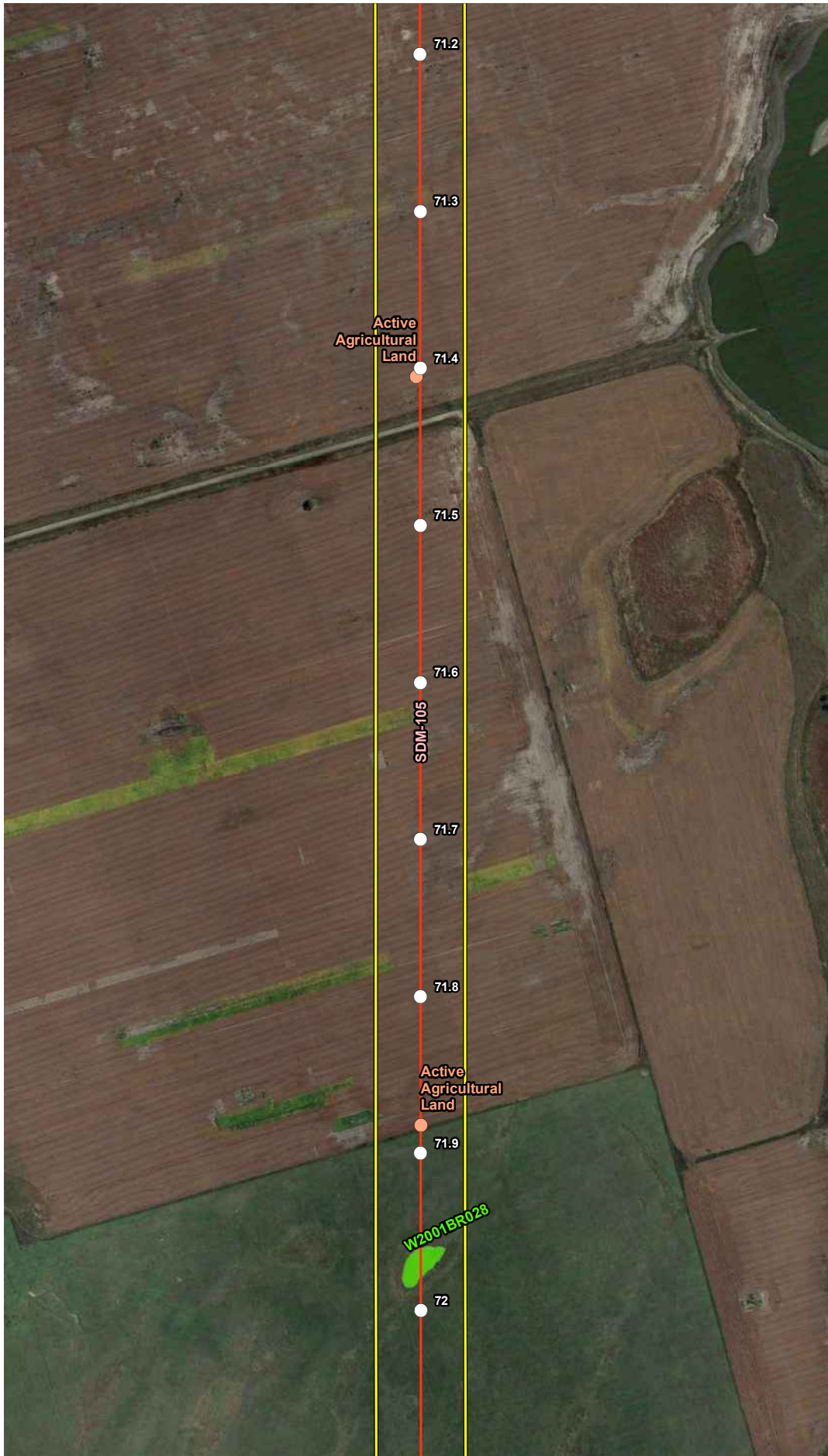
Sheet:
65
Sheet 65 of 517

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AERIAL MAP



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0 250 500 Feet



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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

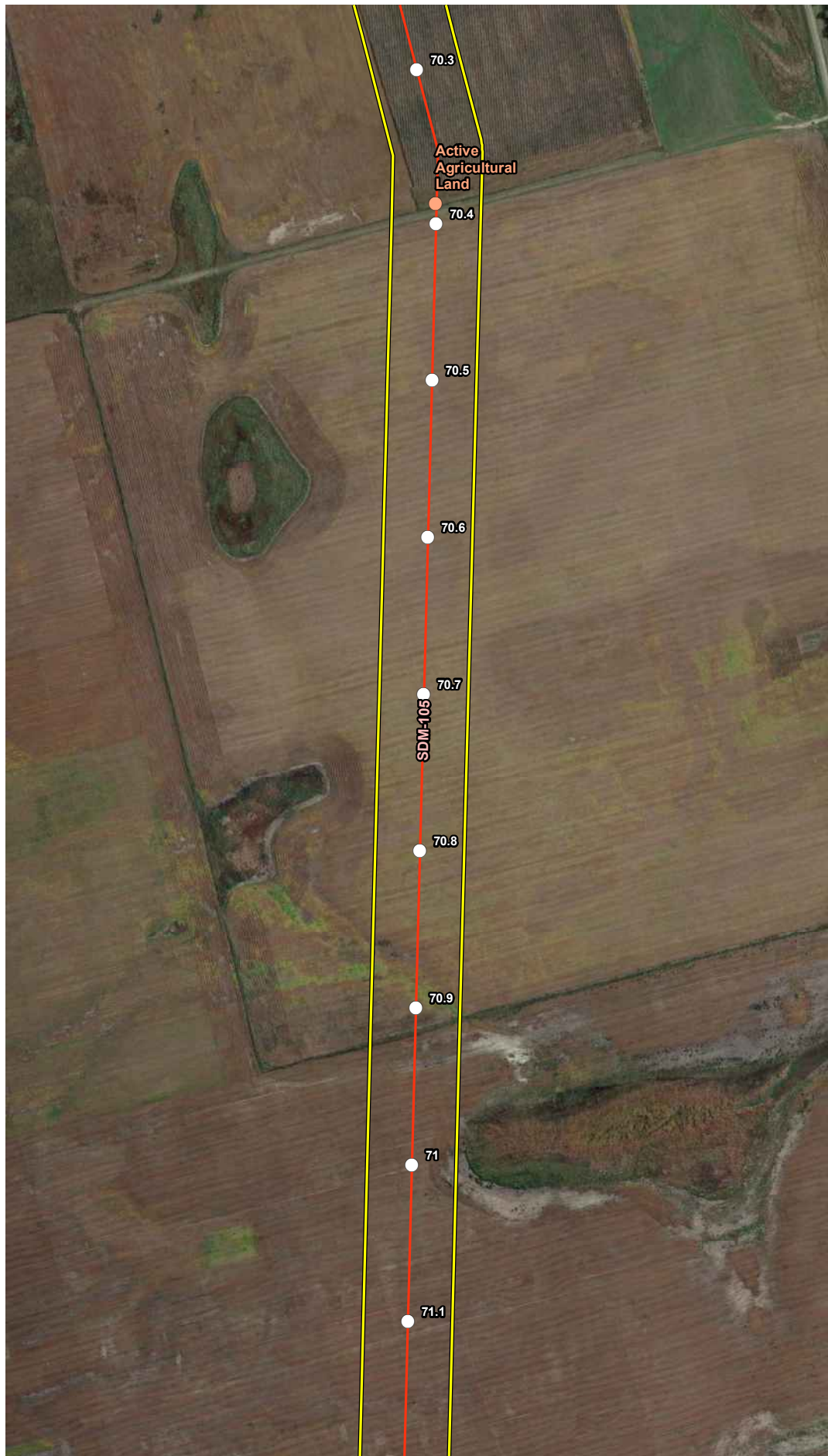
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
66
Sheet 66 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
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- ▭ Environmental Survey Area
- Stream
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- PFO Wetland
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- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
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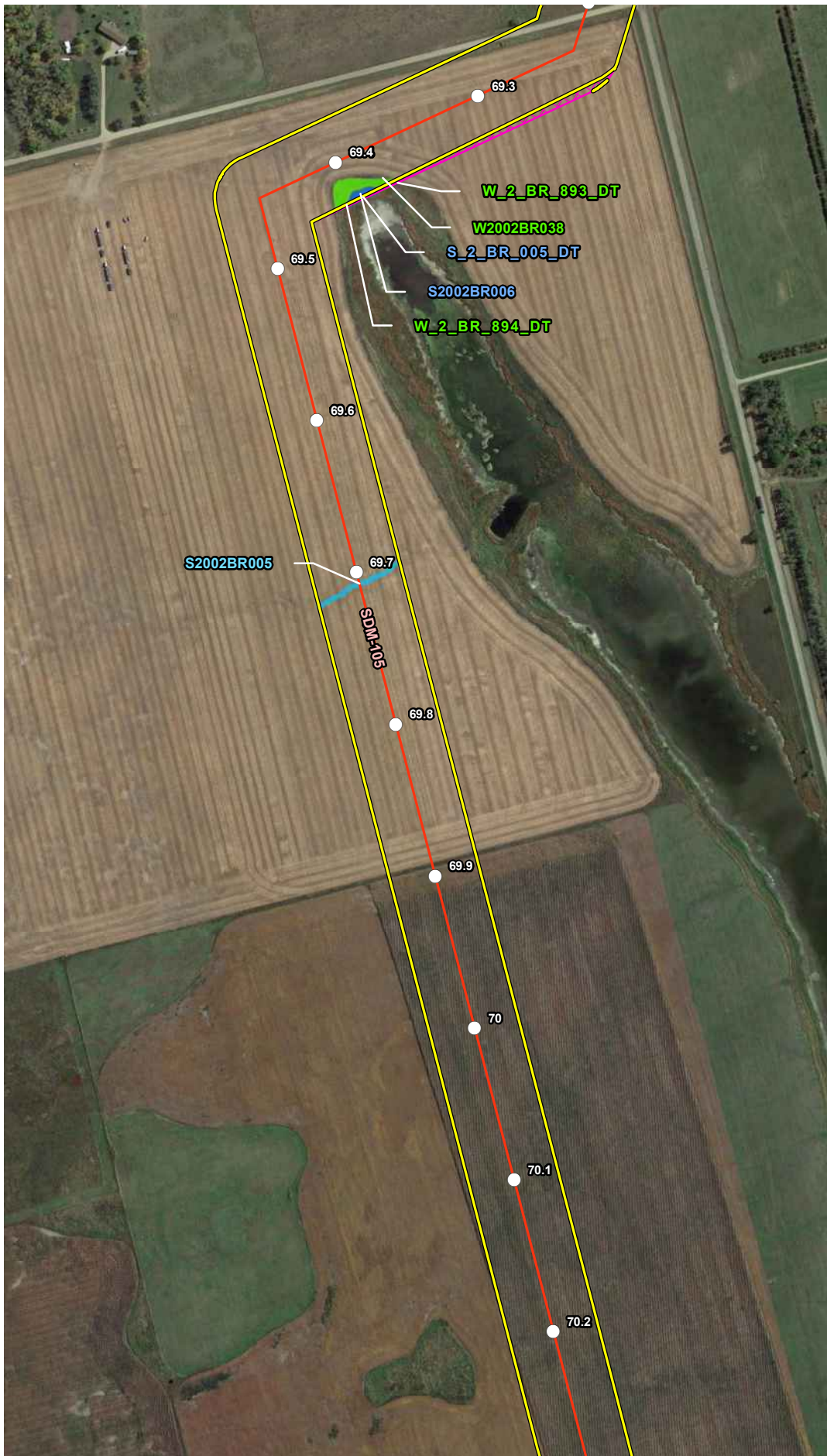
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Sheet:
67
Sheet 67 of 517

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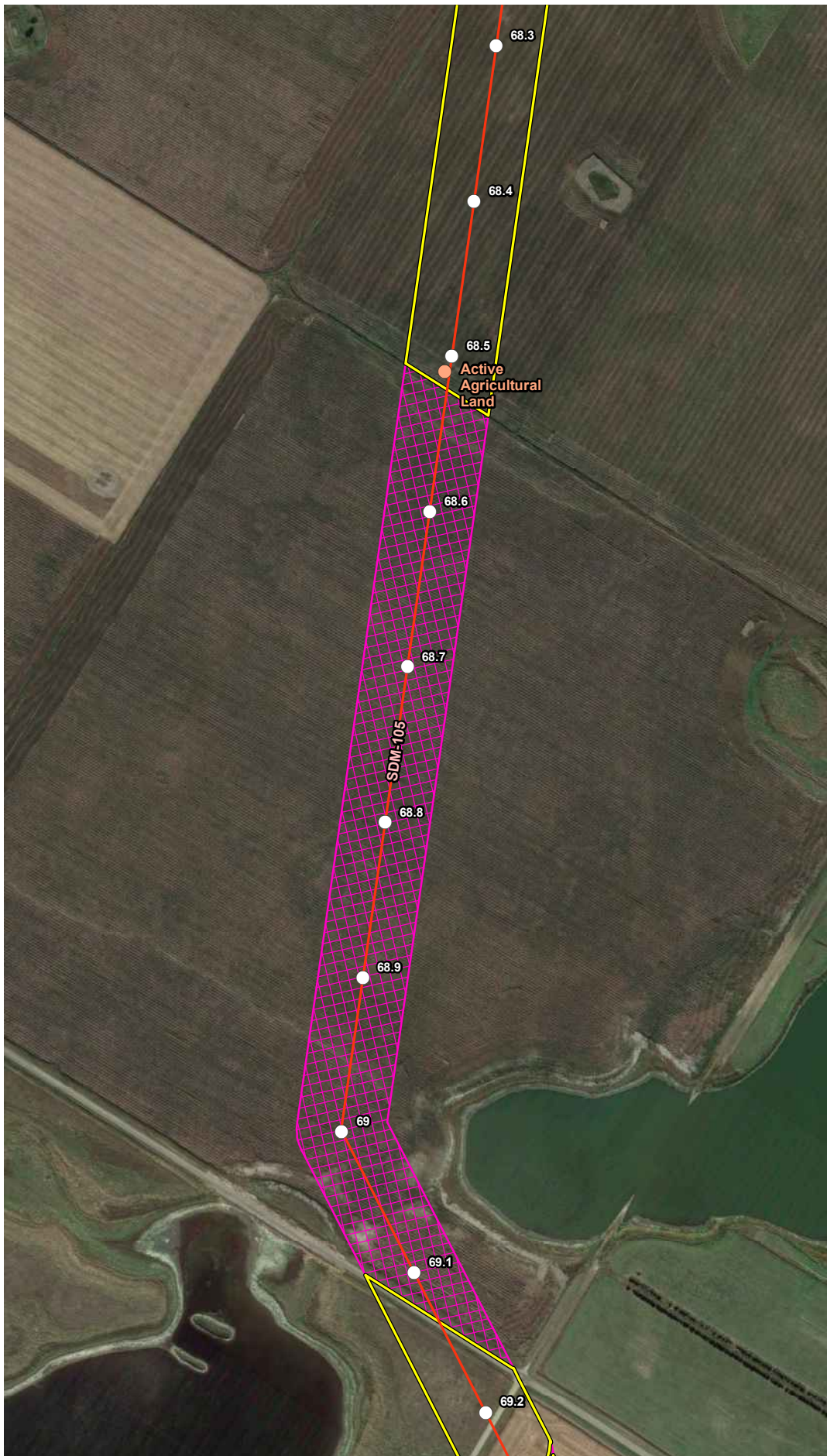
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Sheet 68 of 517

Drawing Number:
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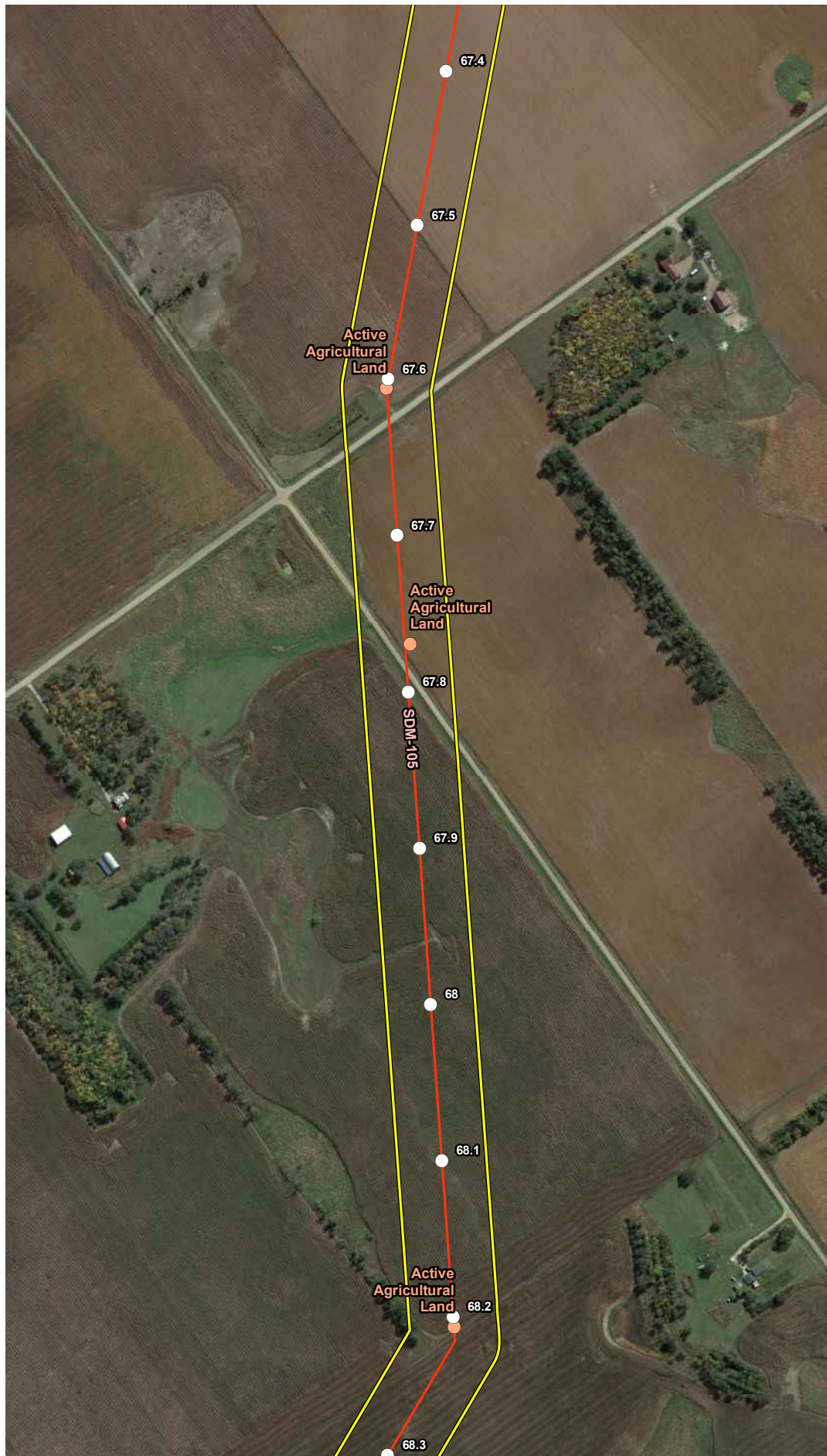
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 69 of 517

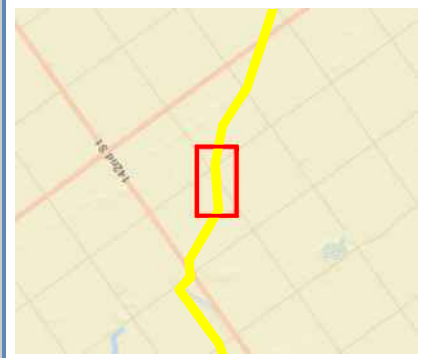
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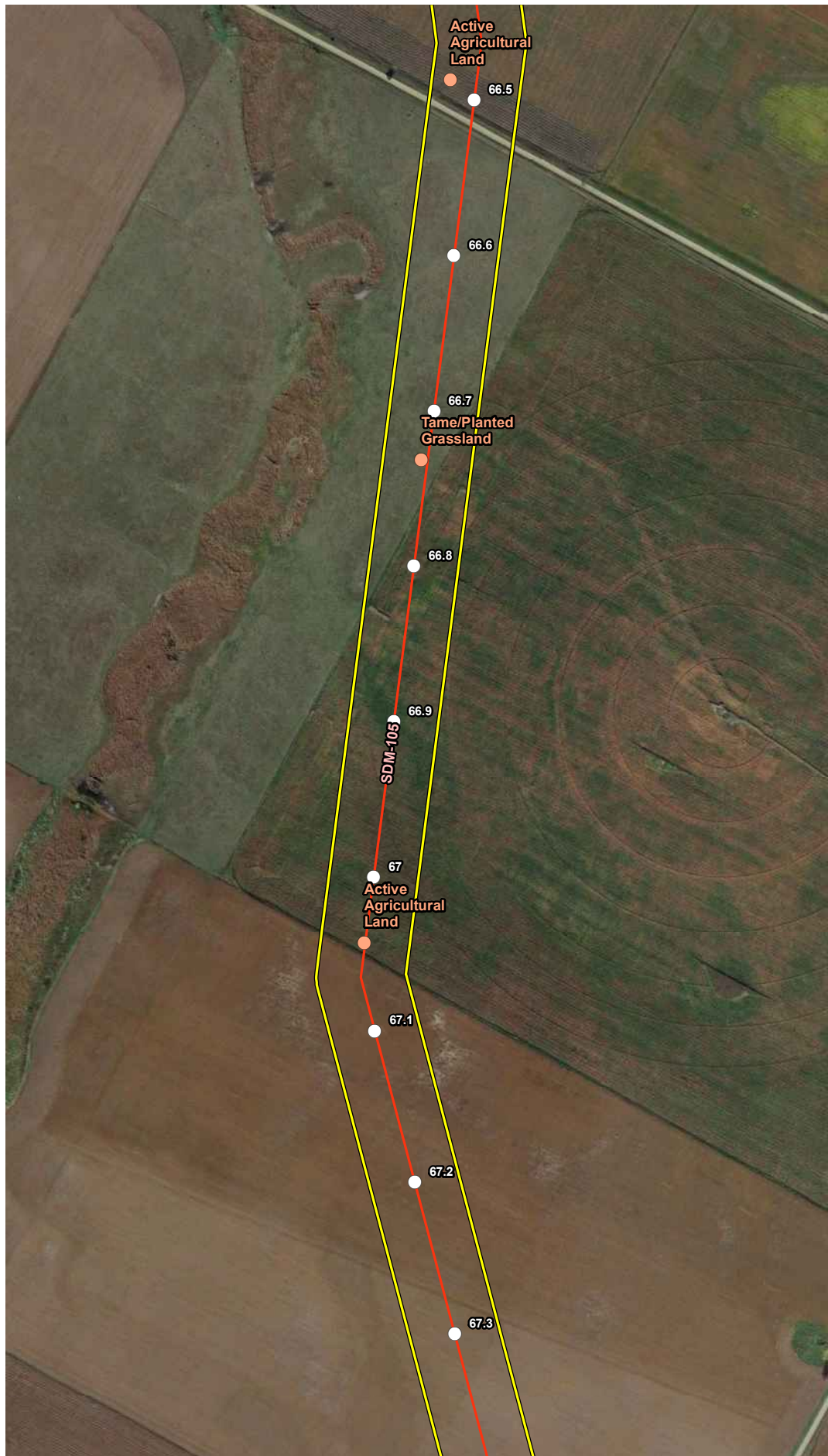
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NAD 1983 UTM Zone 14N

Sheet:
70
Sheet 70 of 517

Drawing Number:
2001-21-002
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0 250 500
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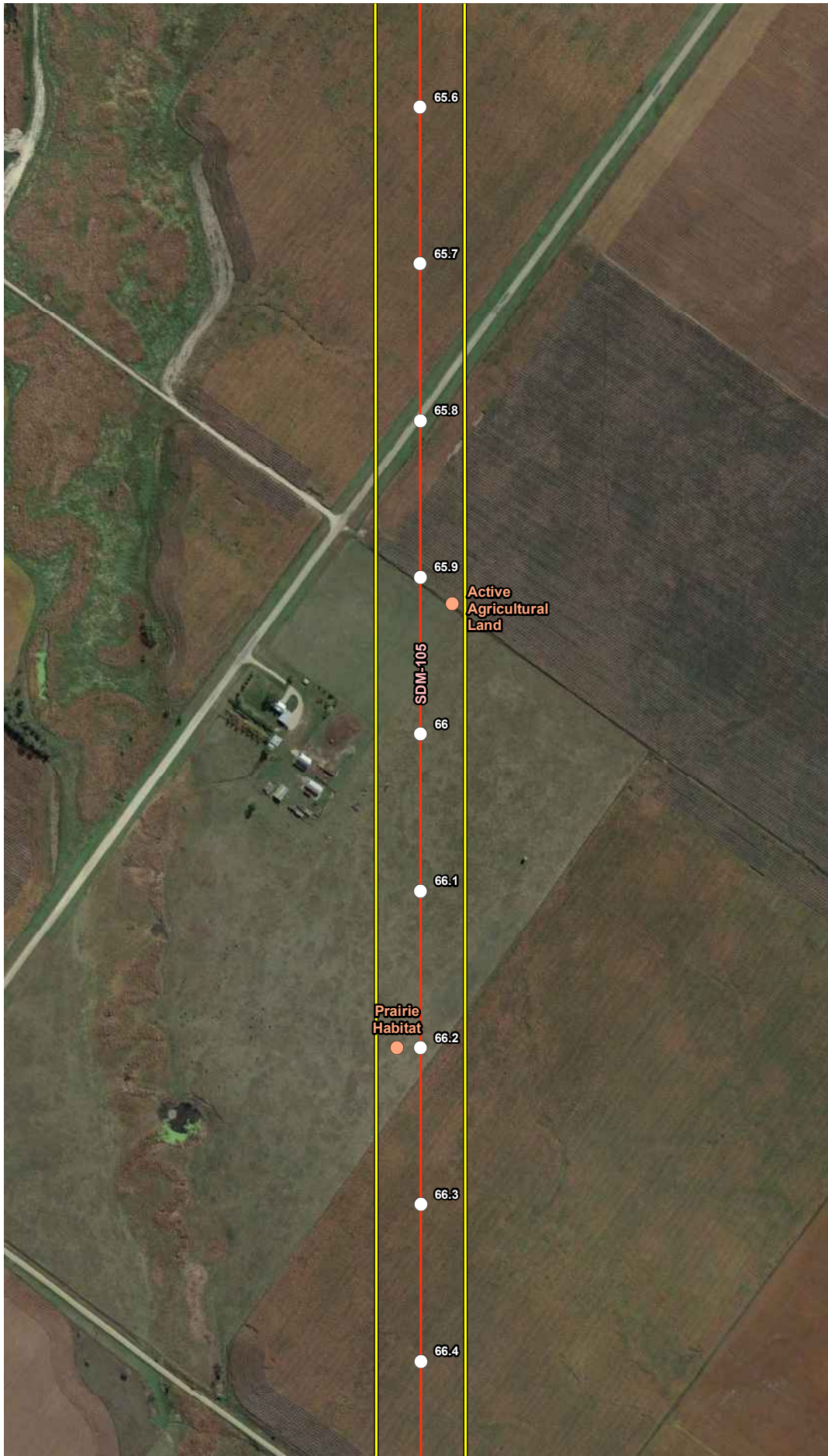
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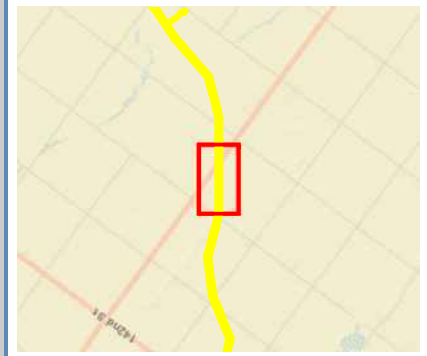
Sheet:
71
Sheet 71 of 517

Drawing Number:
2001-21-002
Current Revision

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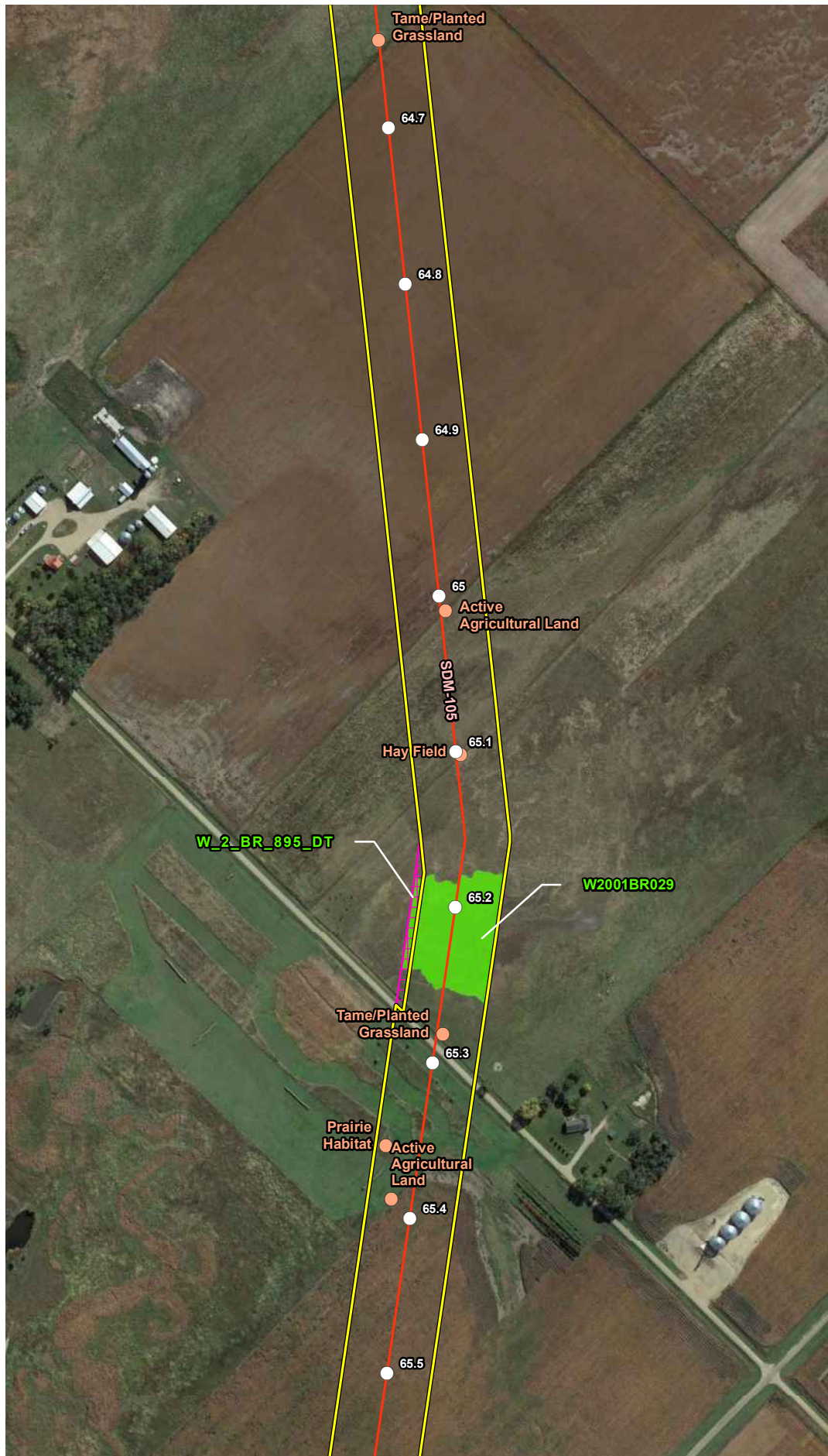
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Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
72
 Sheet 72 of 517

Drawing Number:
2001-21-002
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2

Scale:
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Projection:
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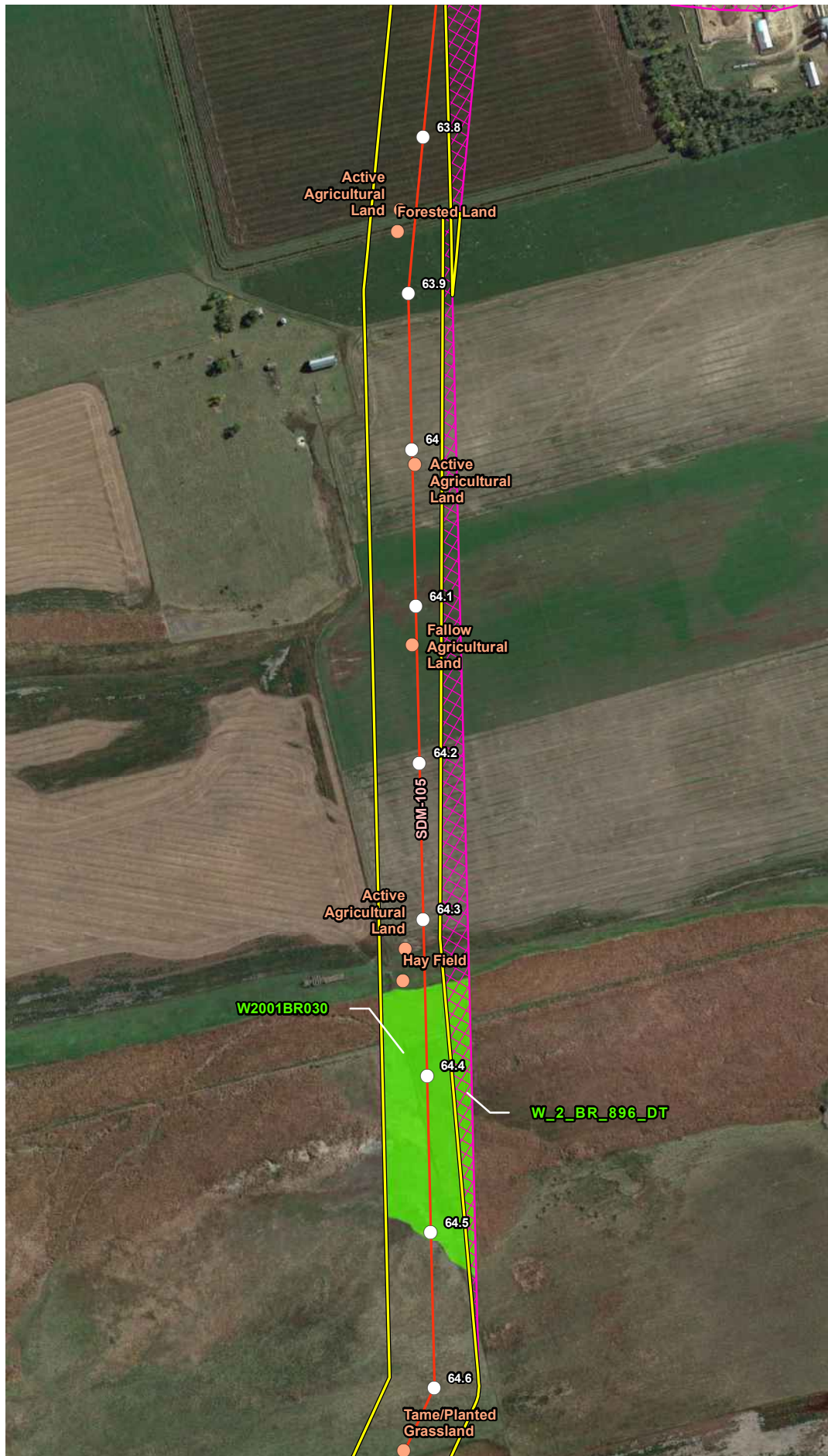
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73

Sheet 73 of 517

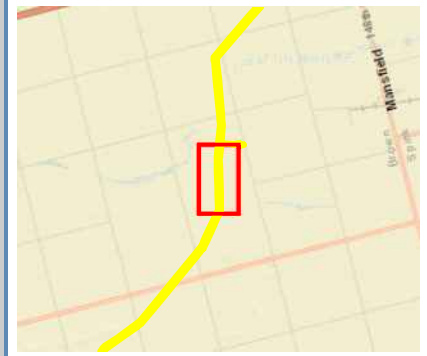
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Scale:

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Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

74

Sheet 74 of 517

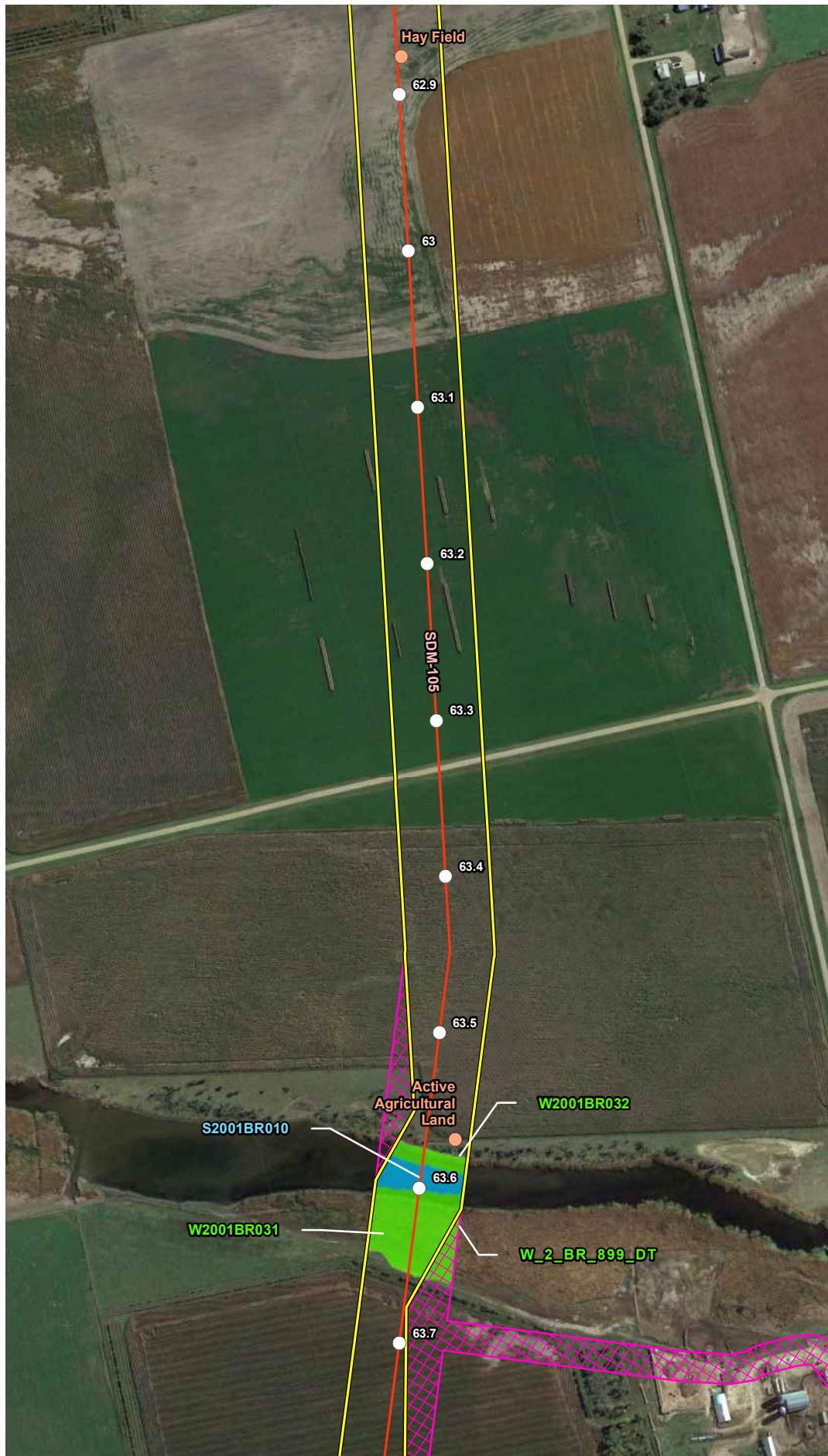
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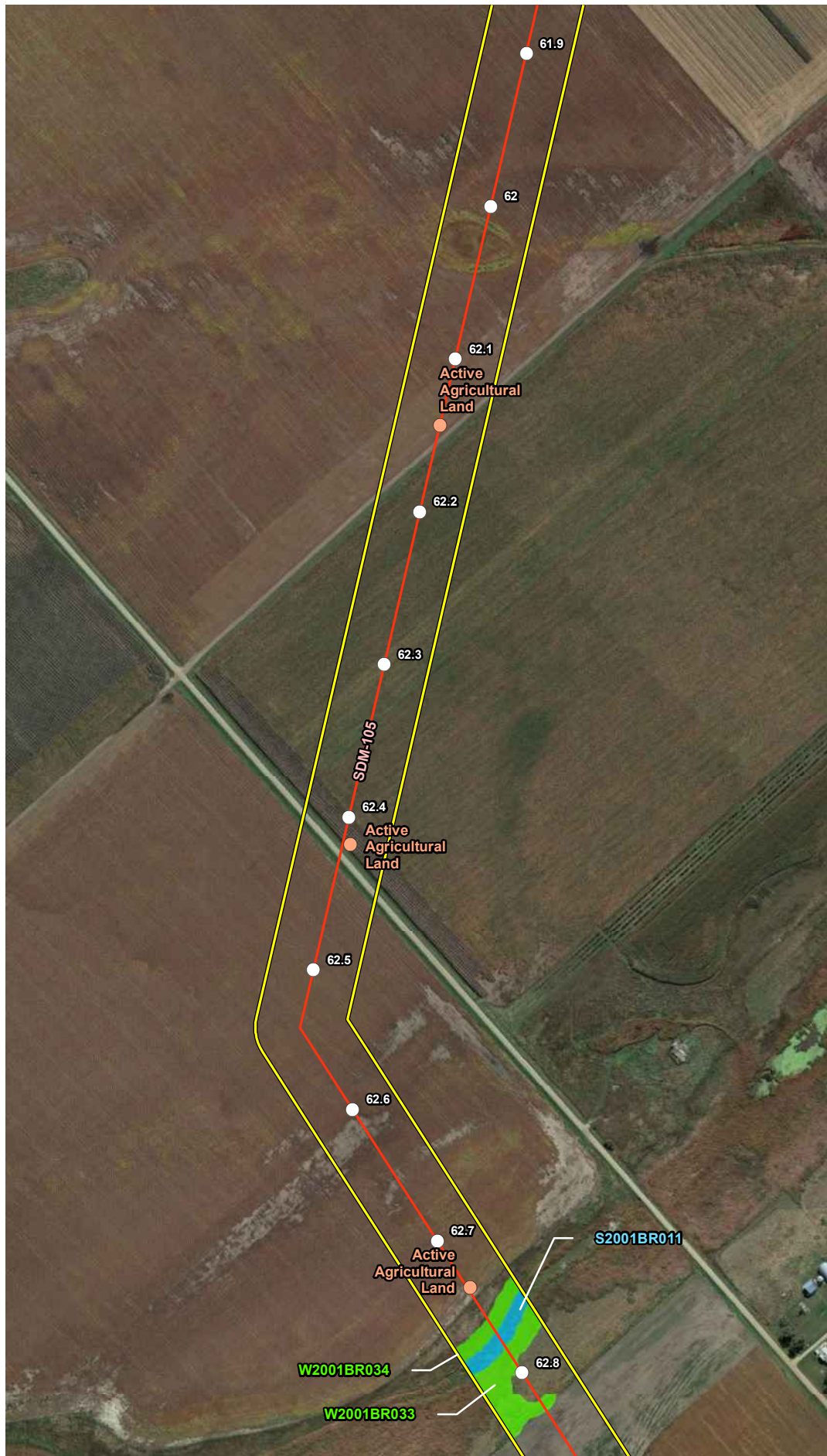
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Sheet:
75
Sheet 75 of 517

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AERIAL MAP



VICINITY MAP



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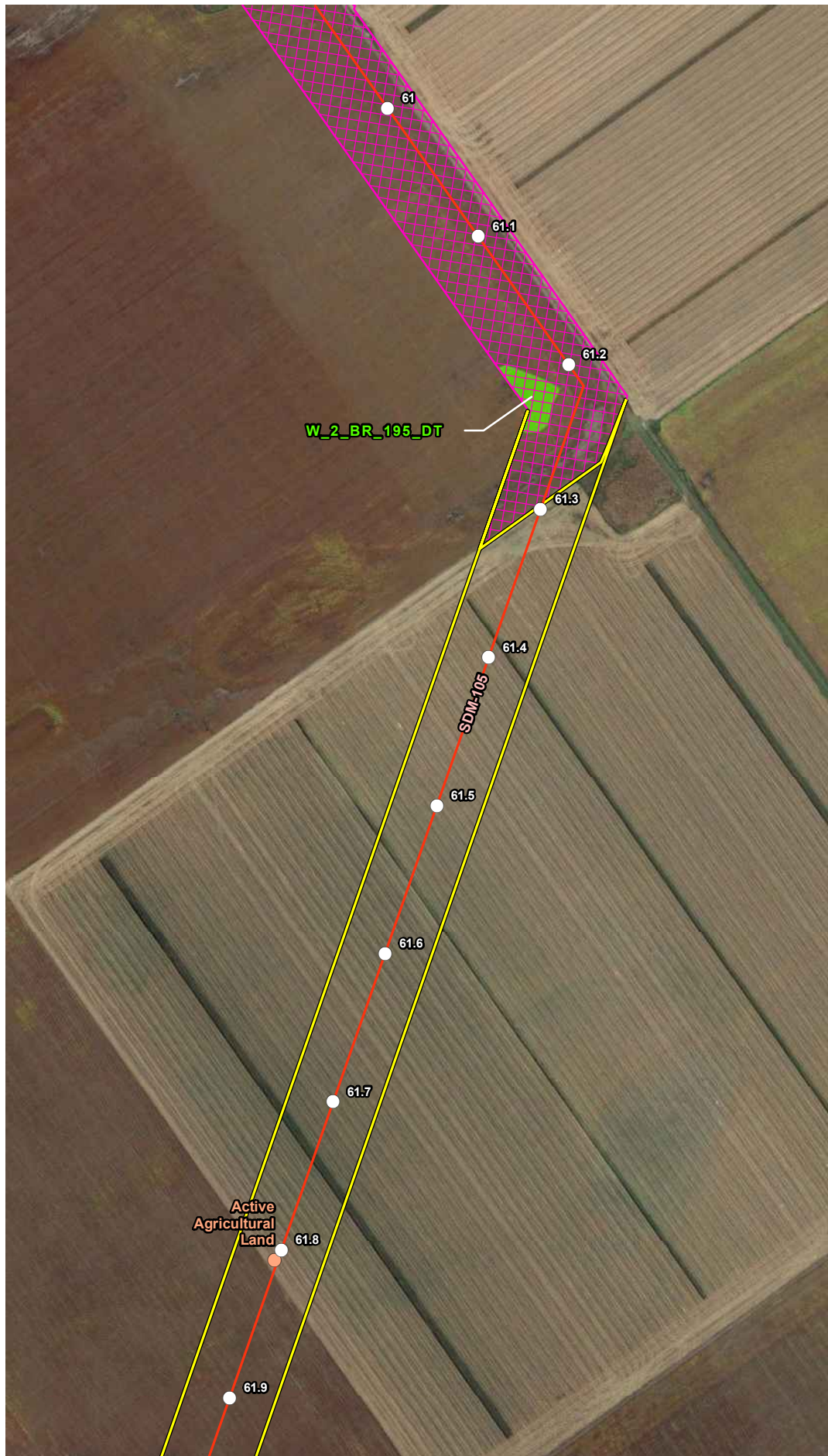
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Sheet:
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Sheet 76 of 517

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Sheet:
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Sheet 77 of 517

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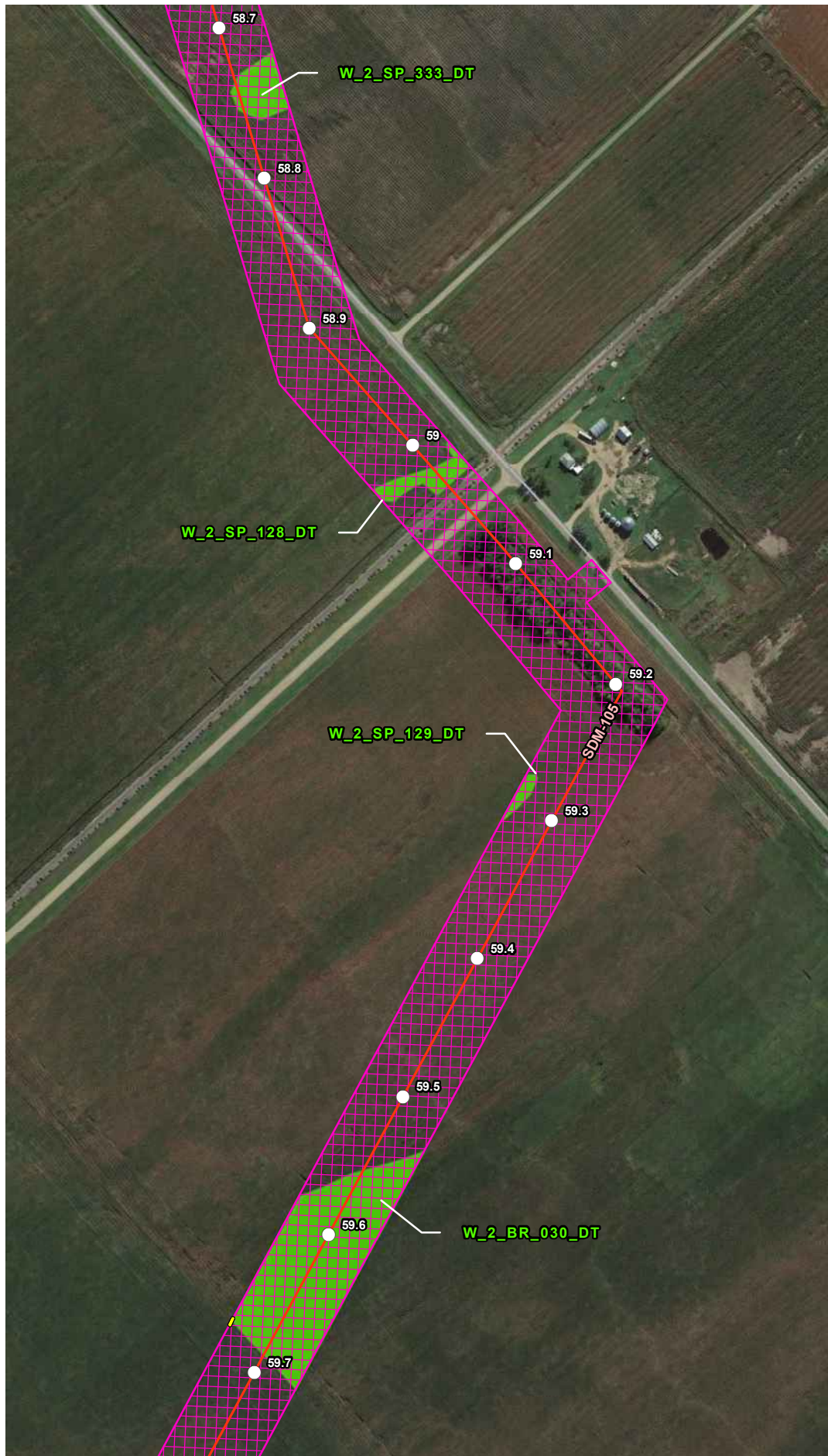
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78
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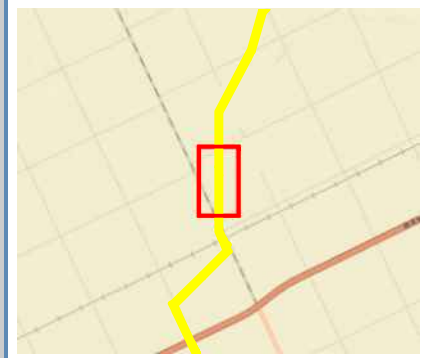
Sheet:
79
 Sheet 79 of 517

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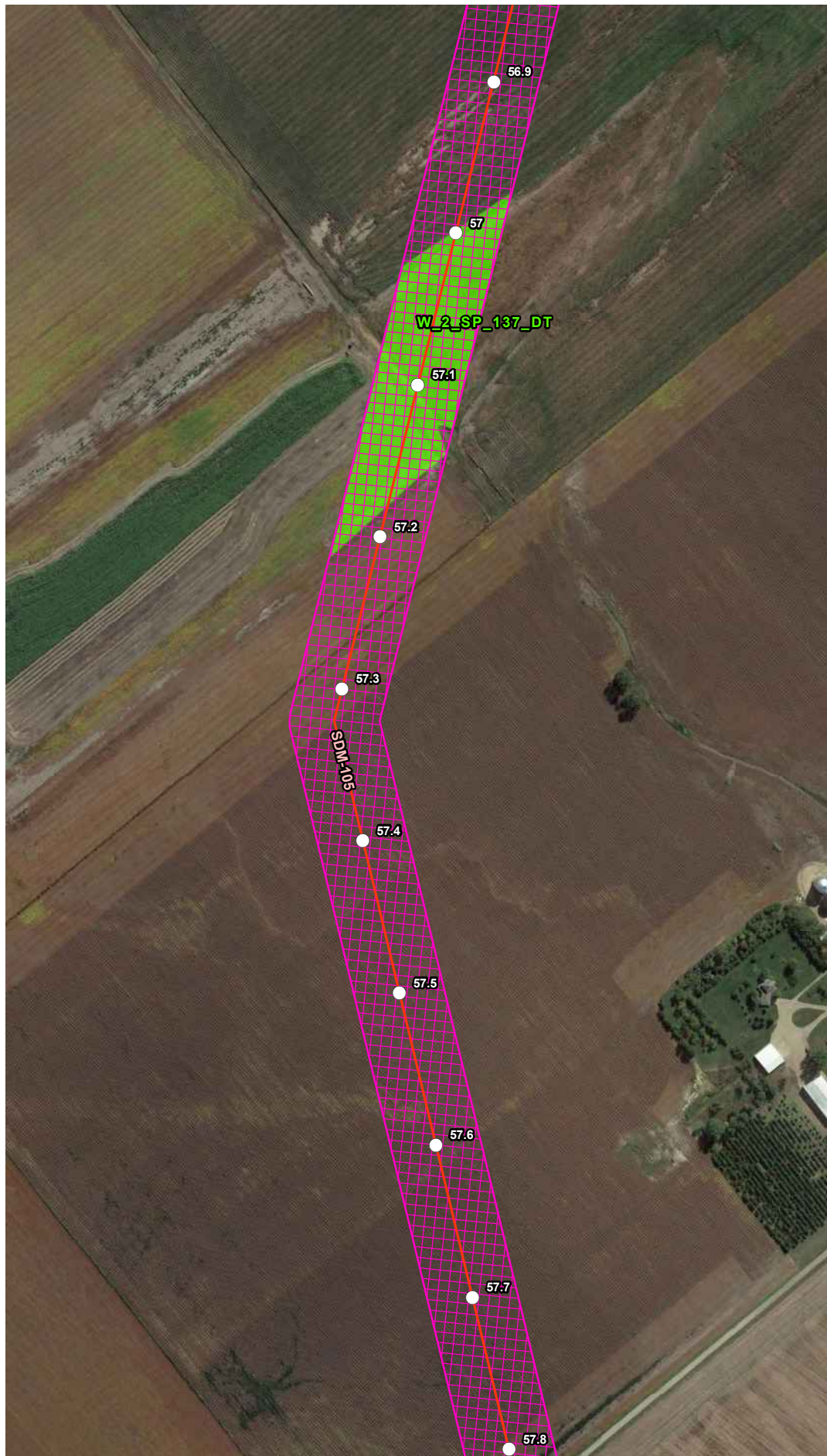
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Sheet:
80
Sheet 80 of 517

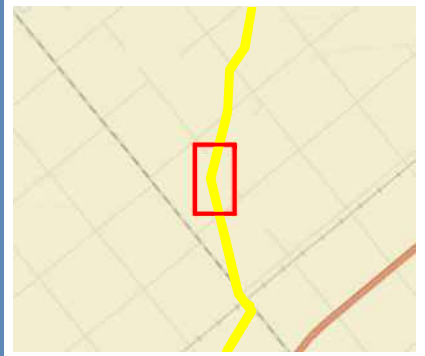
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NAD 1983 UTM Zone 14N

Sheet:

81

Sheet 81 of 517

Drawing Number:

2001-21-002

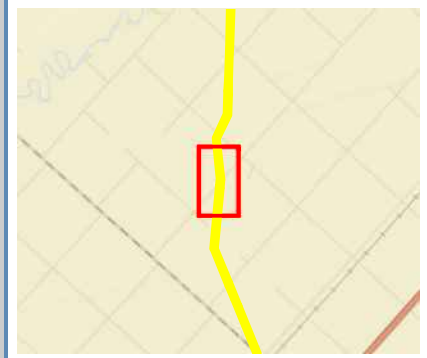
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- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
82
Sheet 82 of 517

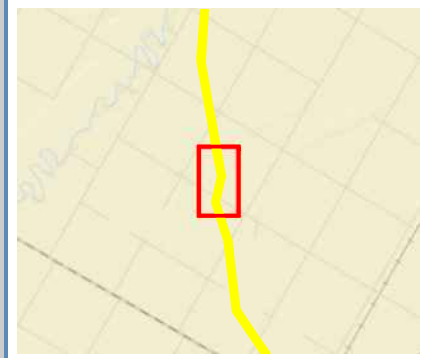
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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Figure Number:

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Scale:

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Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

83

Drawing Number:

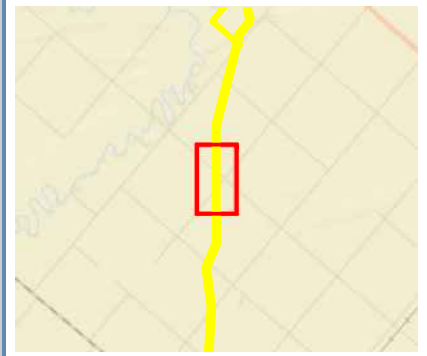
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Figure Number: 2

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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 84 of 517

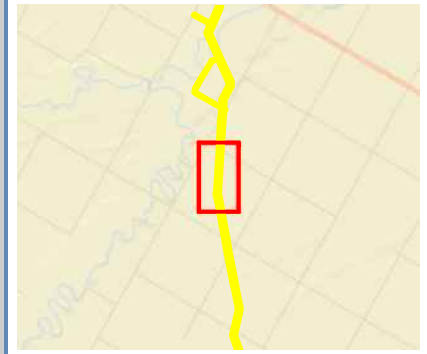
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AERIAL MAP



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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

85

Sheet 85 of 517

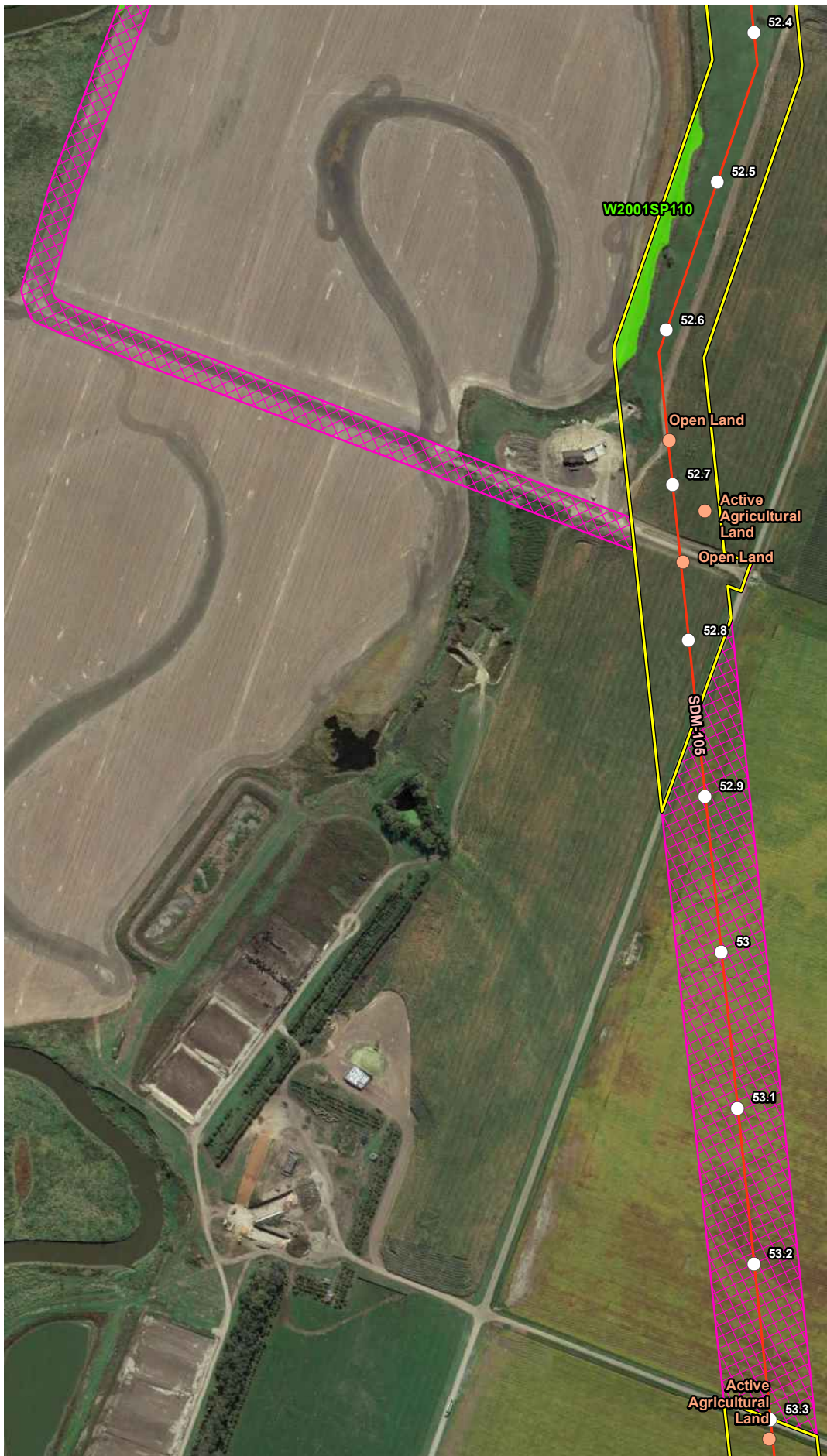
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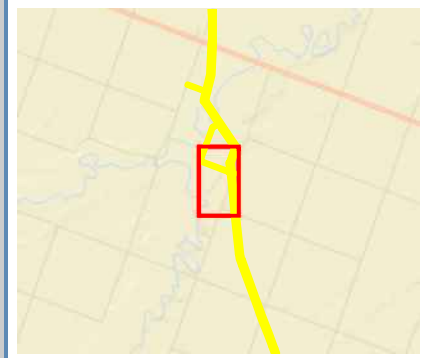
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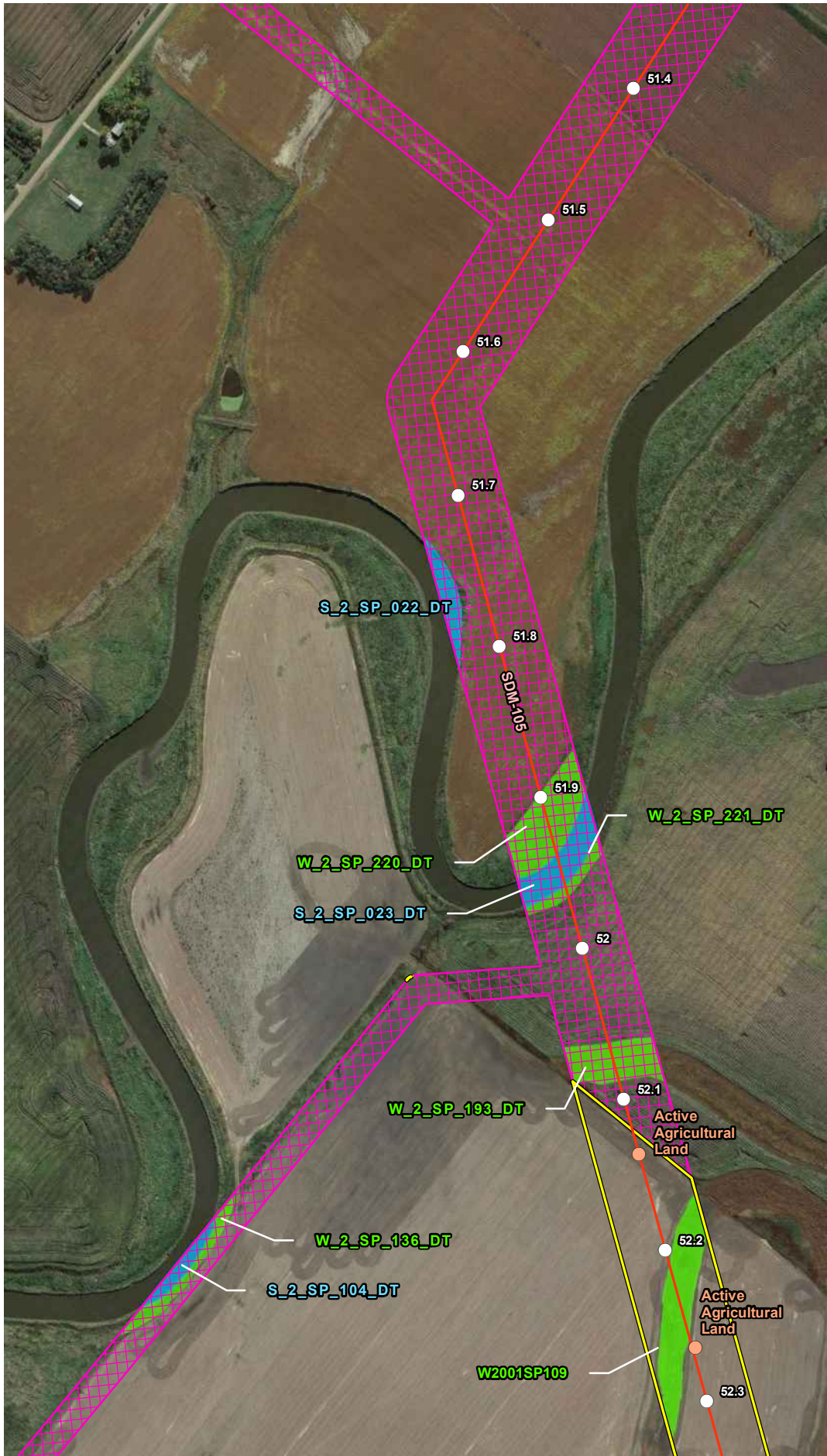
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Sheet 86 of 517

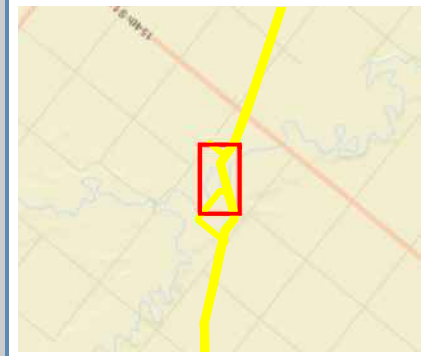
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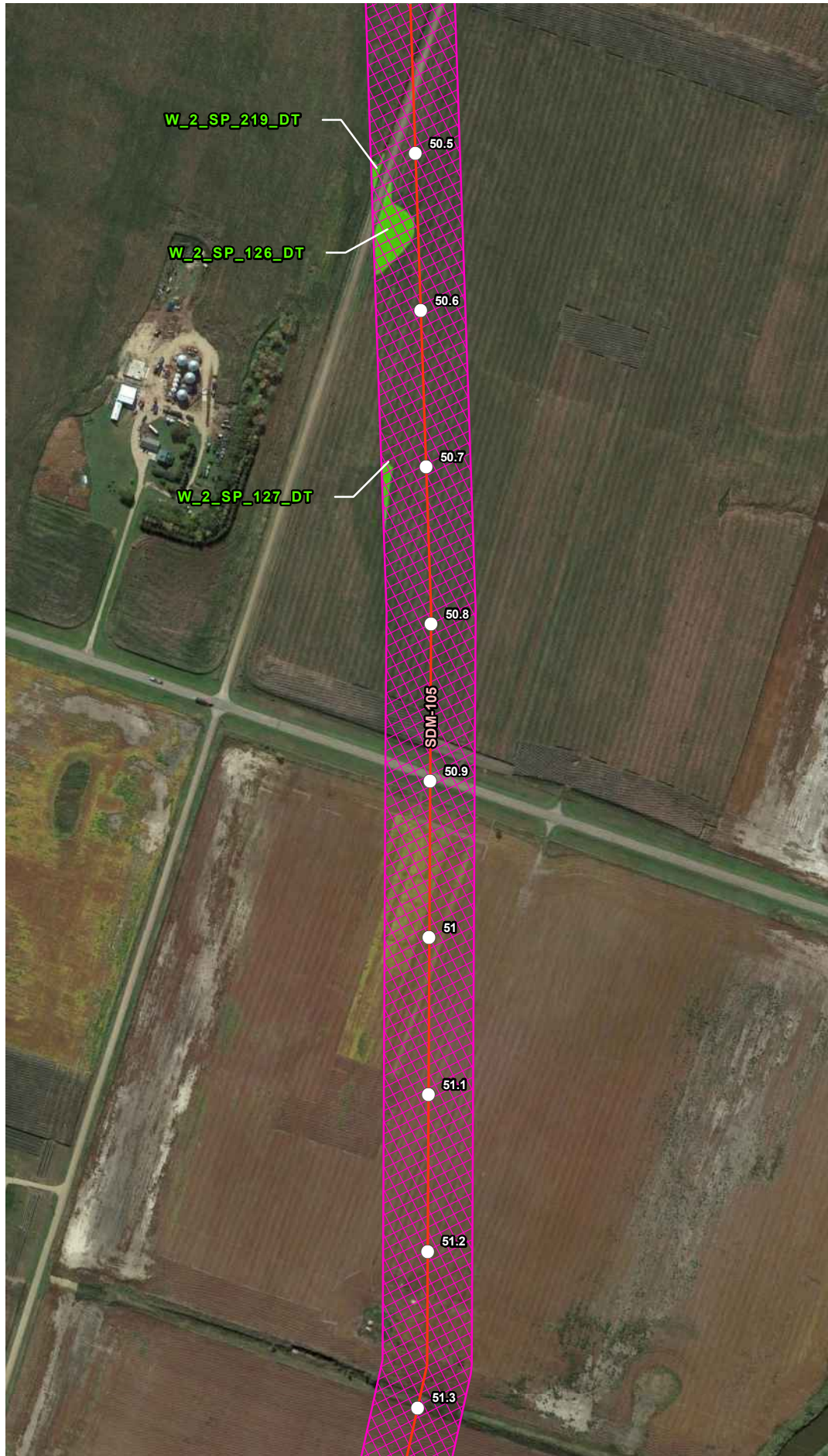
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 Sheet 87 of 517

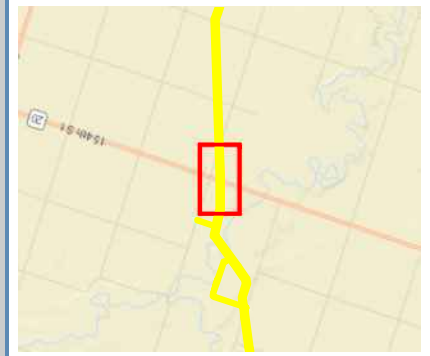
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Scale:

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NAD 1983 UTM Zone 14N

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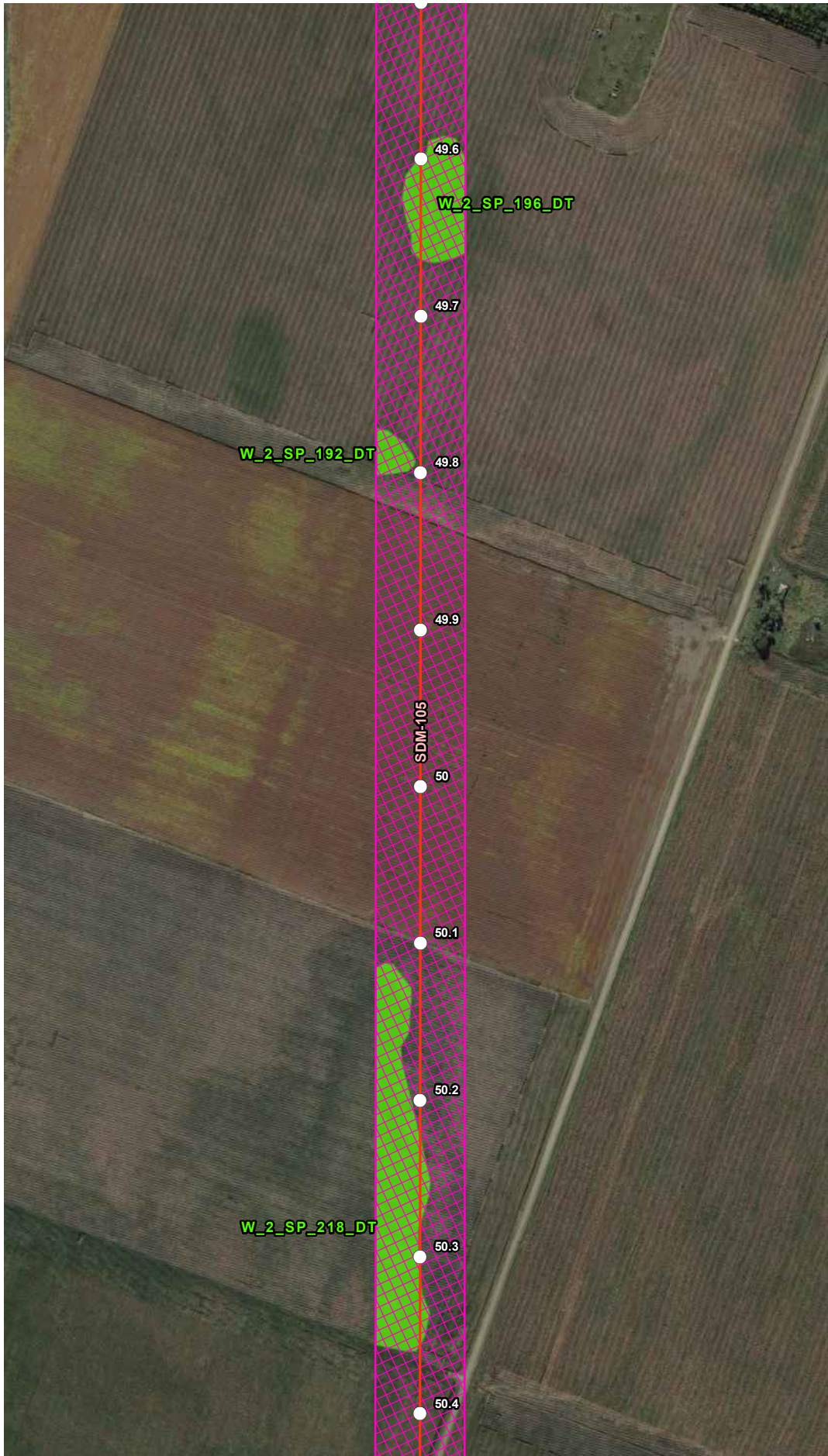
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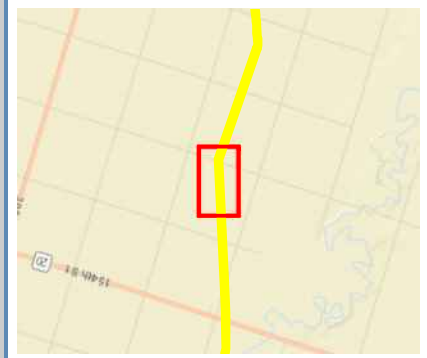
Sheet:
 89
 Sheet 89 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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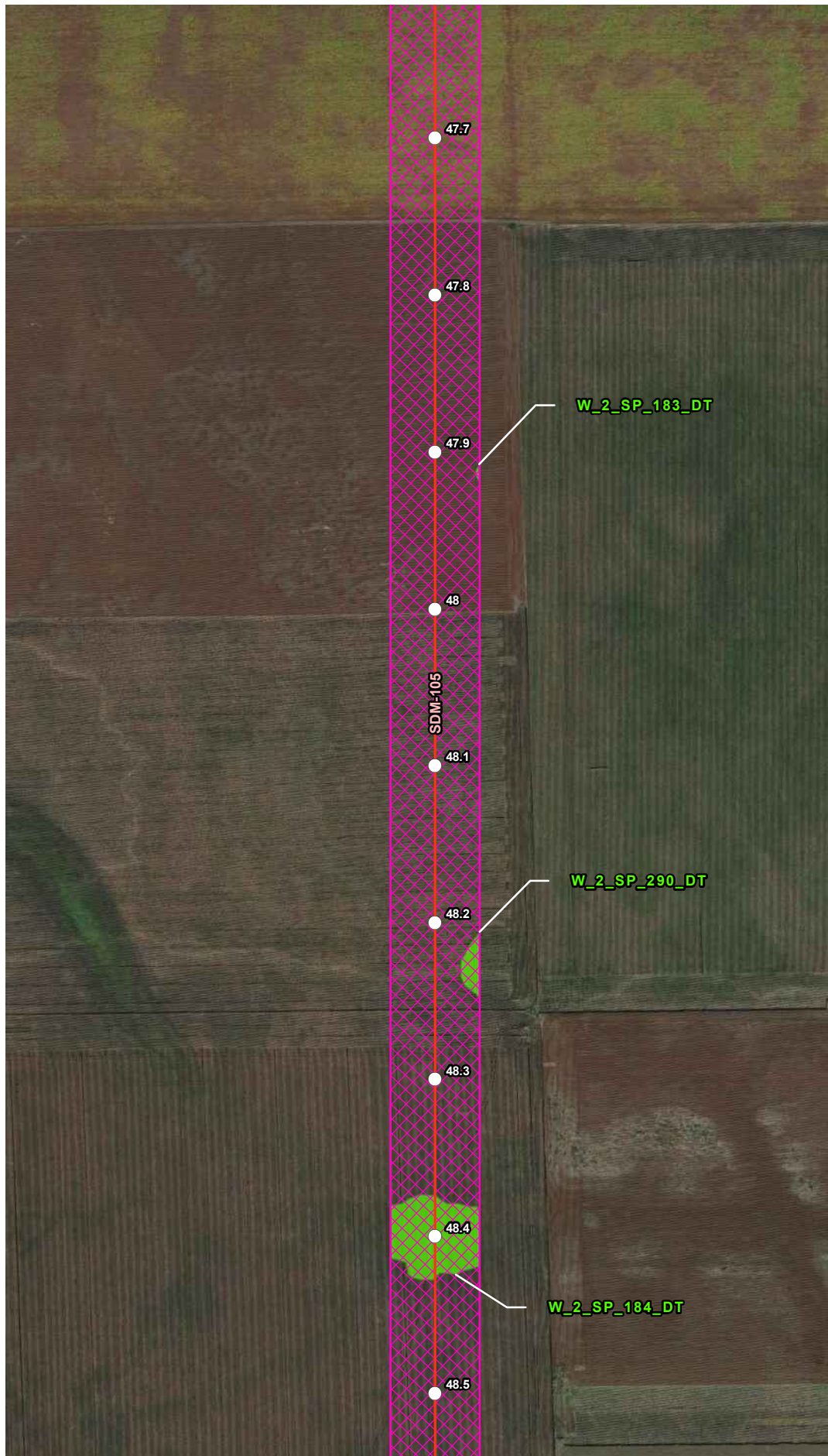
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Sheet 90 of 517

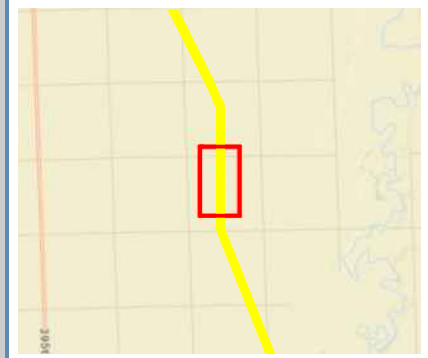
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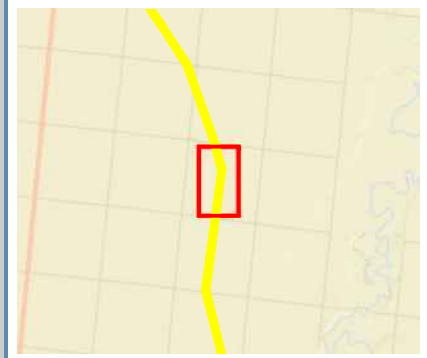
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91
 Sheet 91 of 517

Drawing Number:
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 92 of 517

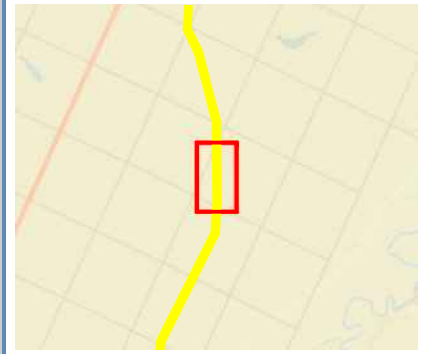
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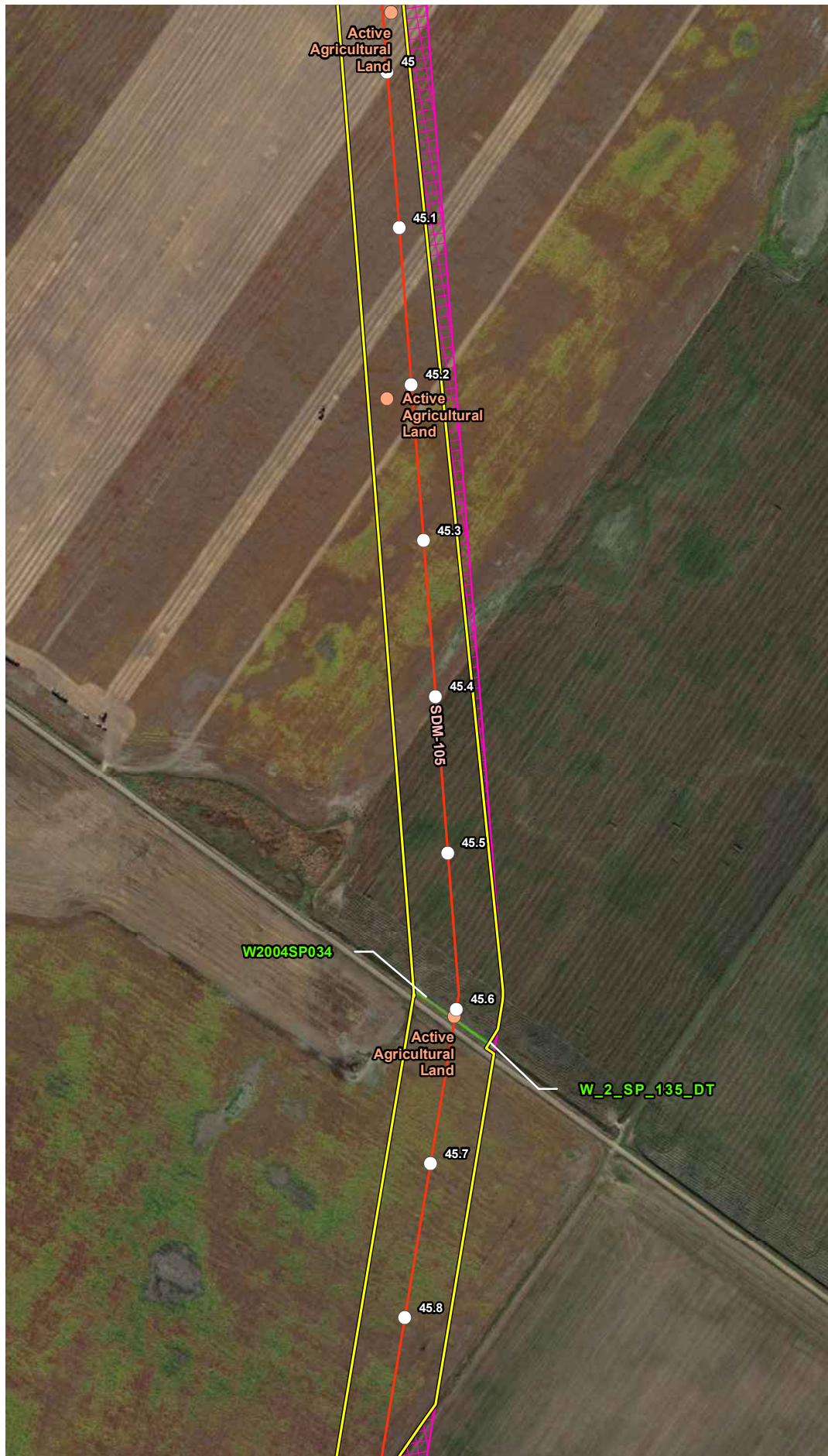
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Sheet 93 of 517

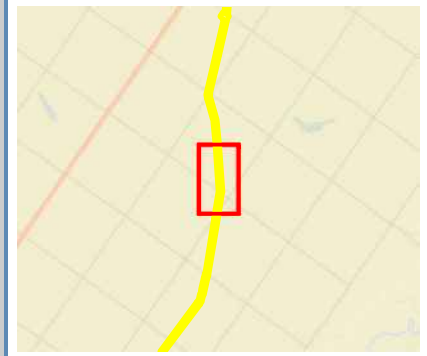
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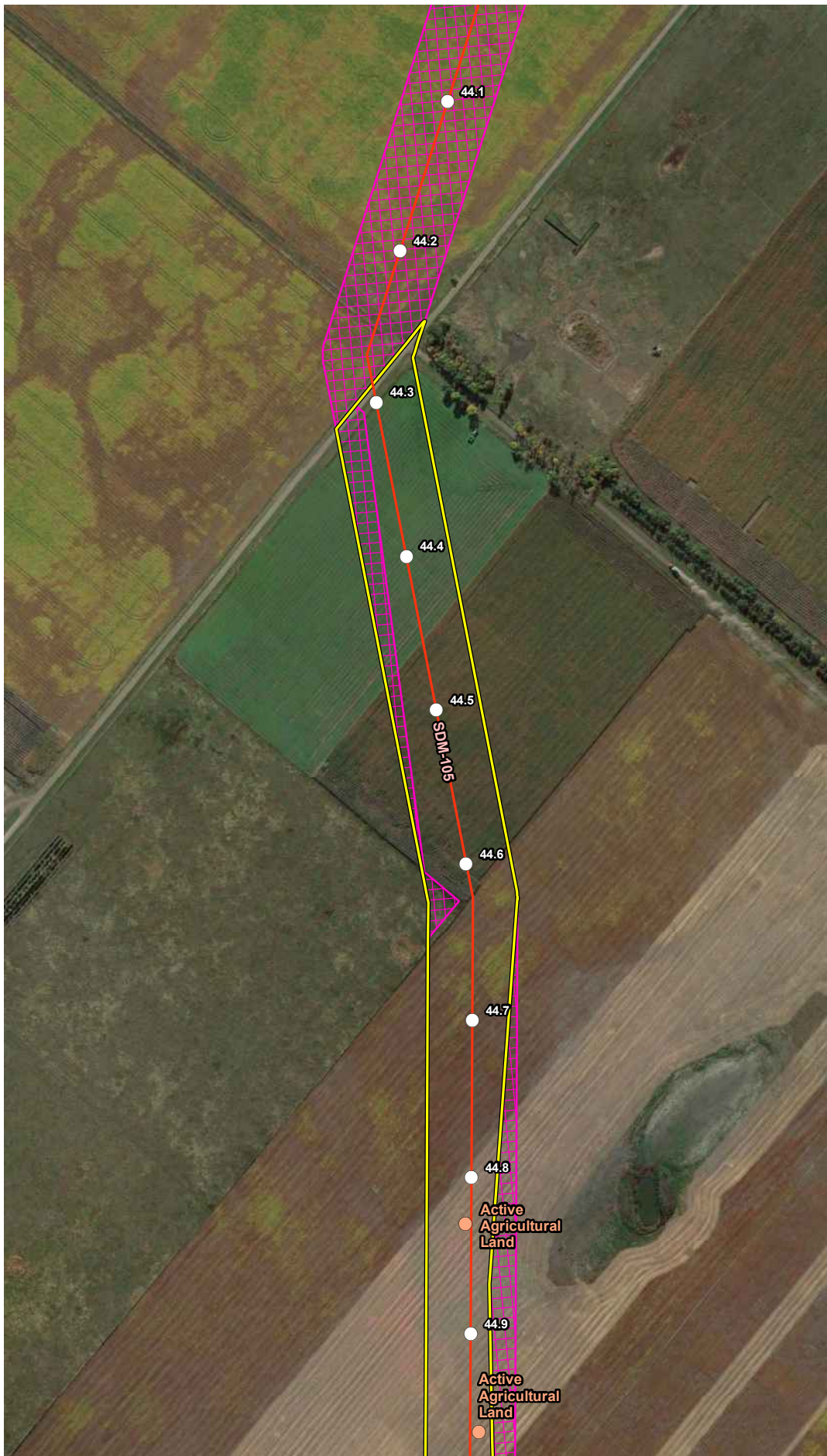
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 Sheet 94 of 517

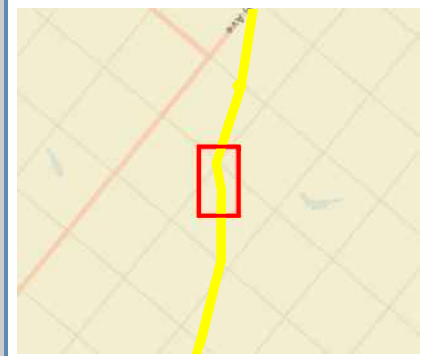
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 Sheet 95 of 517

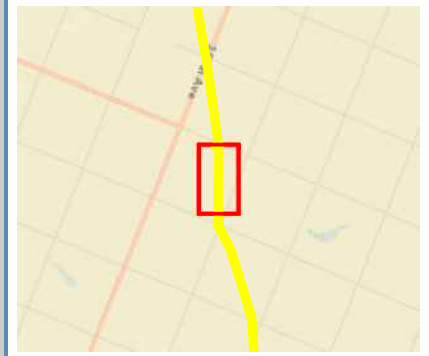
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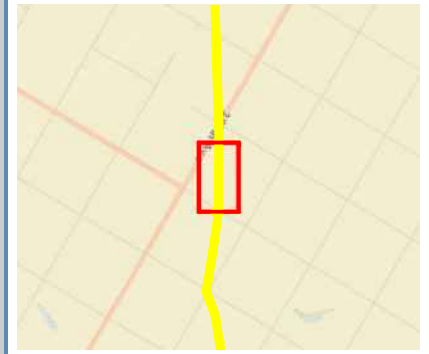
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Sheet 96 of 517

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Figure Number: 2

Scale:
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1 inch = 500 feet

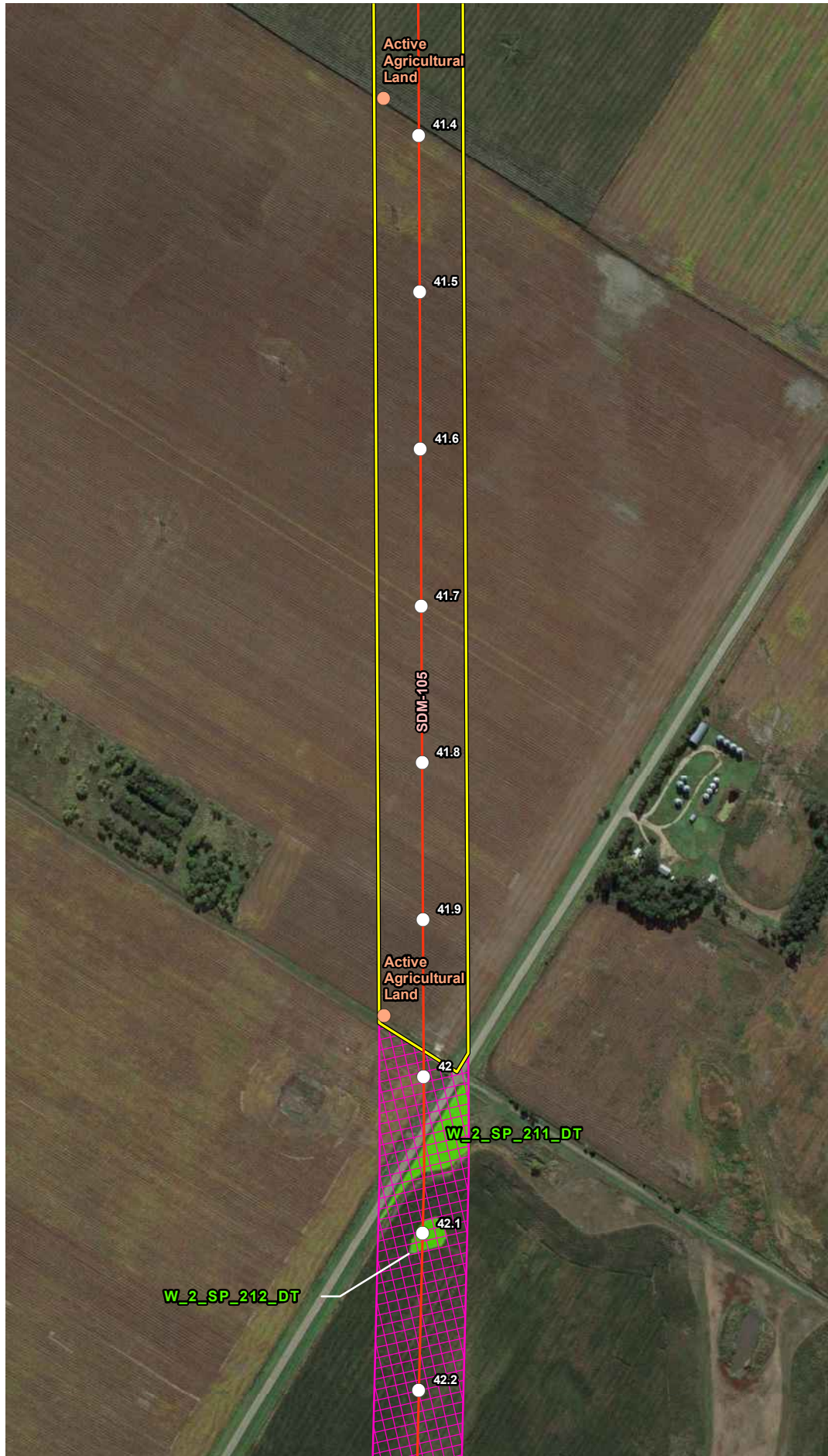
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 97 of 517

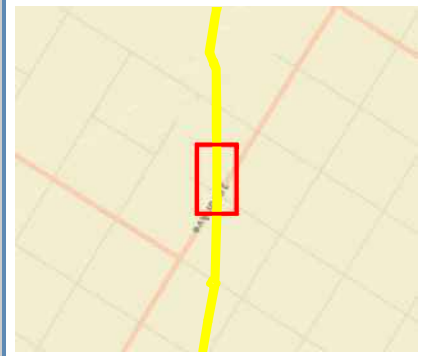
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
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- Open Water
- PEM Wetland
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0 250 500 Feet



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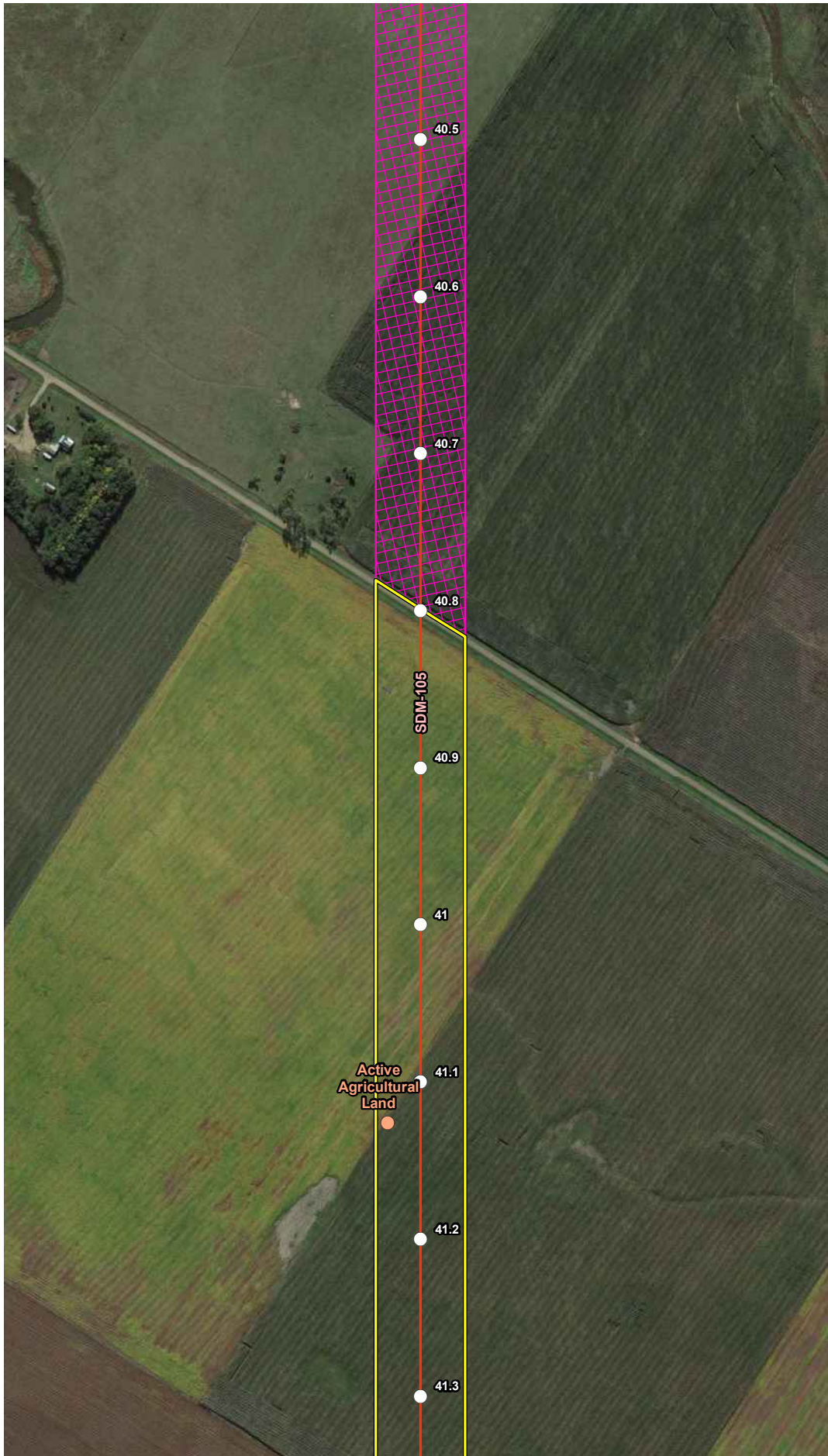
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 Sheet 98 of 517

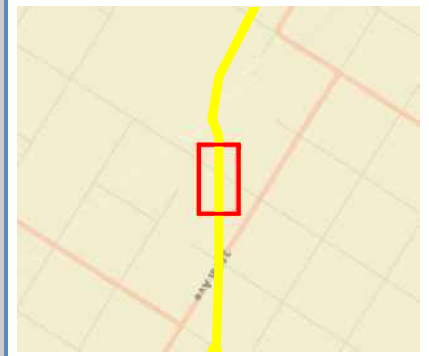
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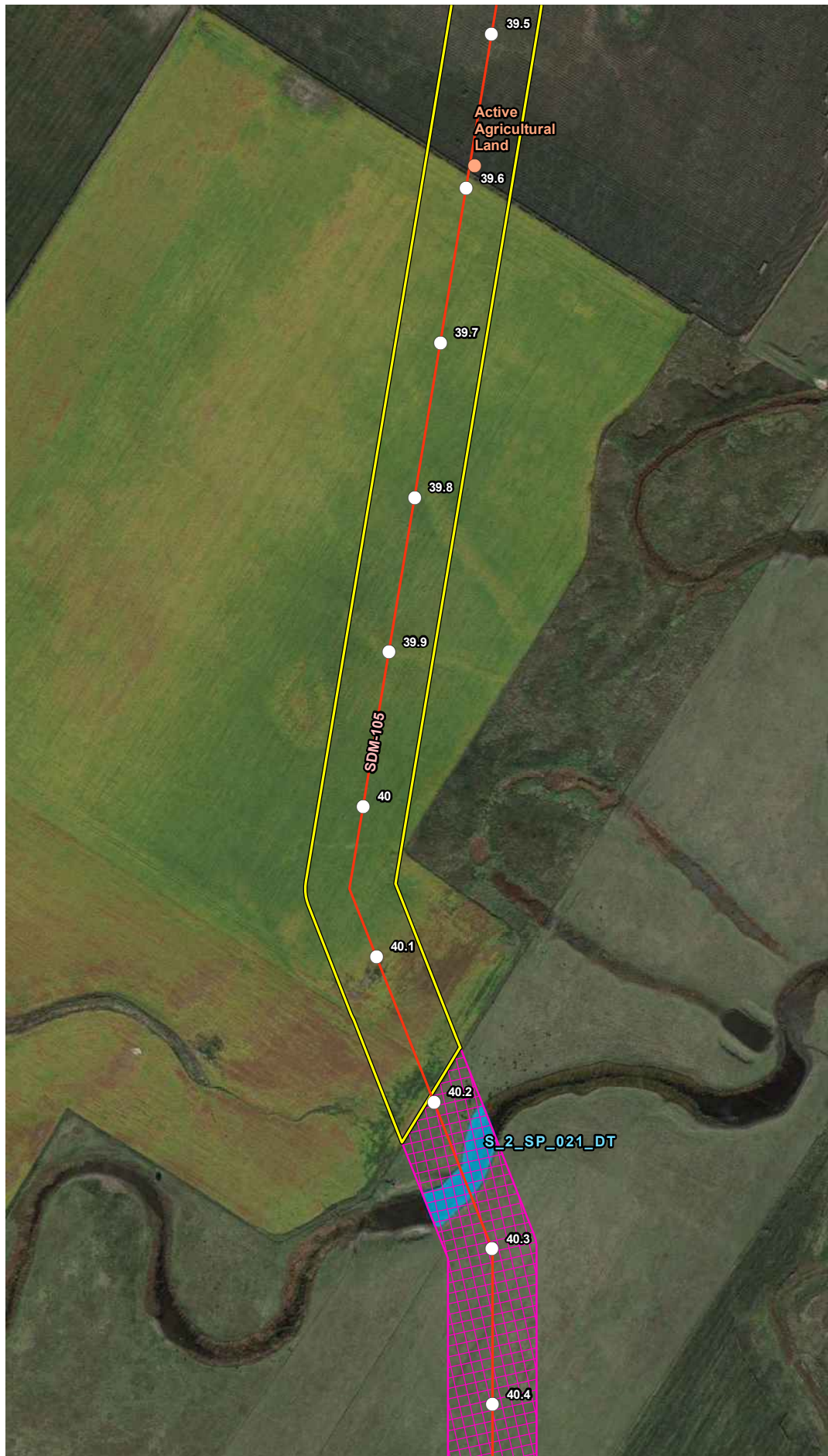
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Sheet 99 of 517

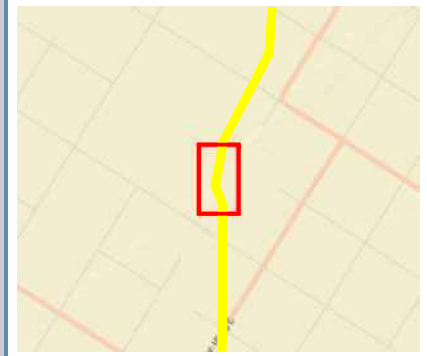
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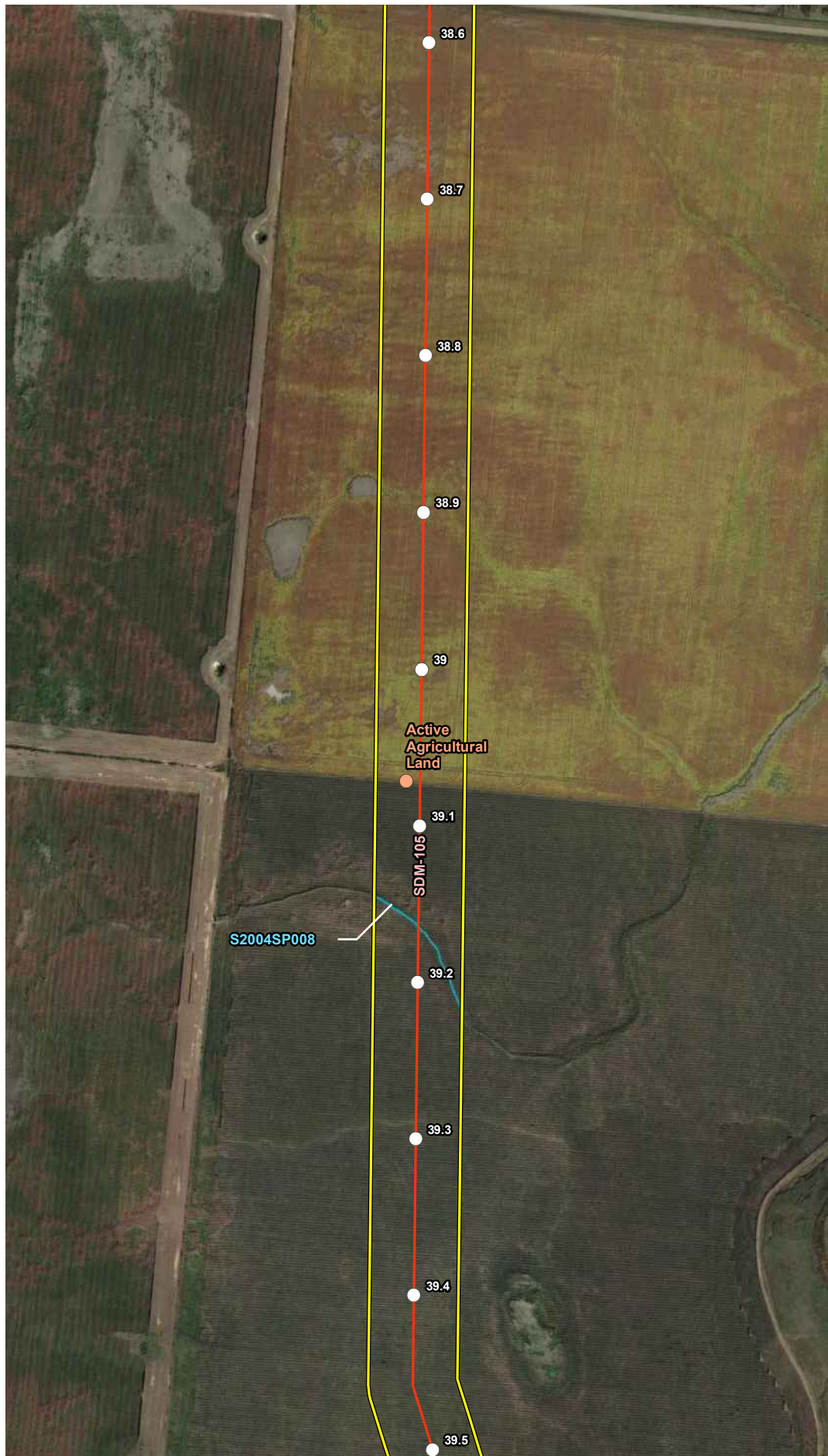
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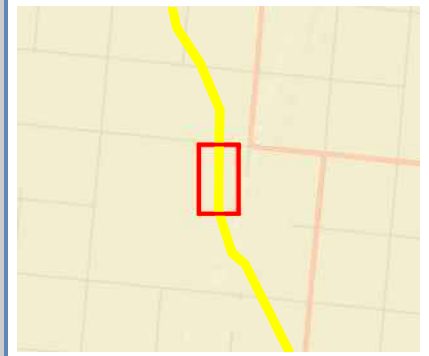
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Sheet:
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Sheet 101 of 517

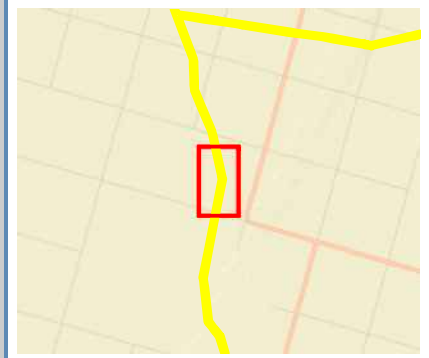
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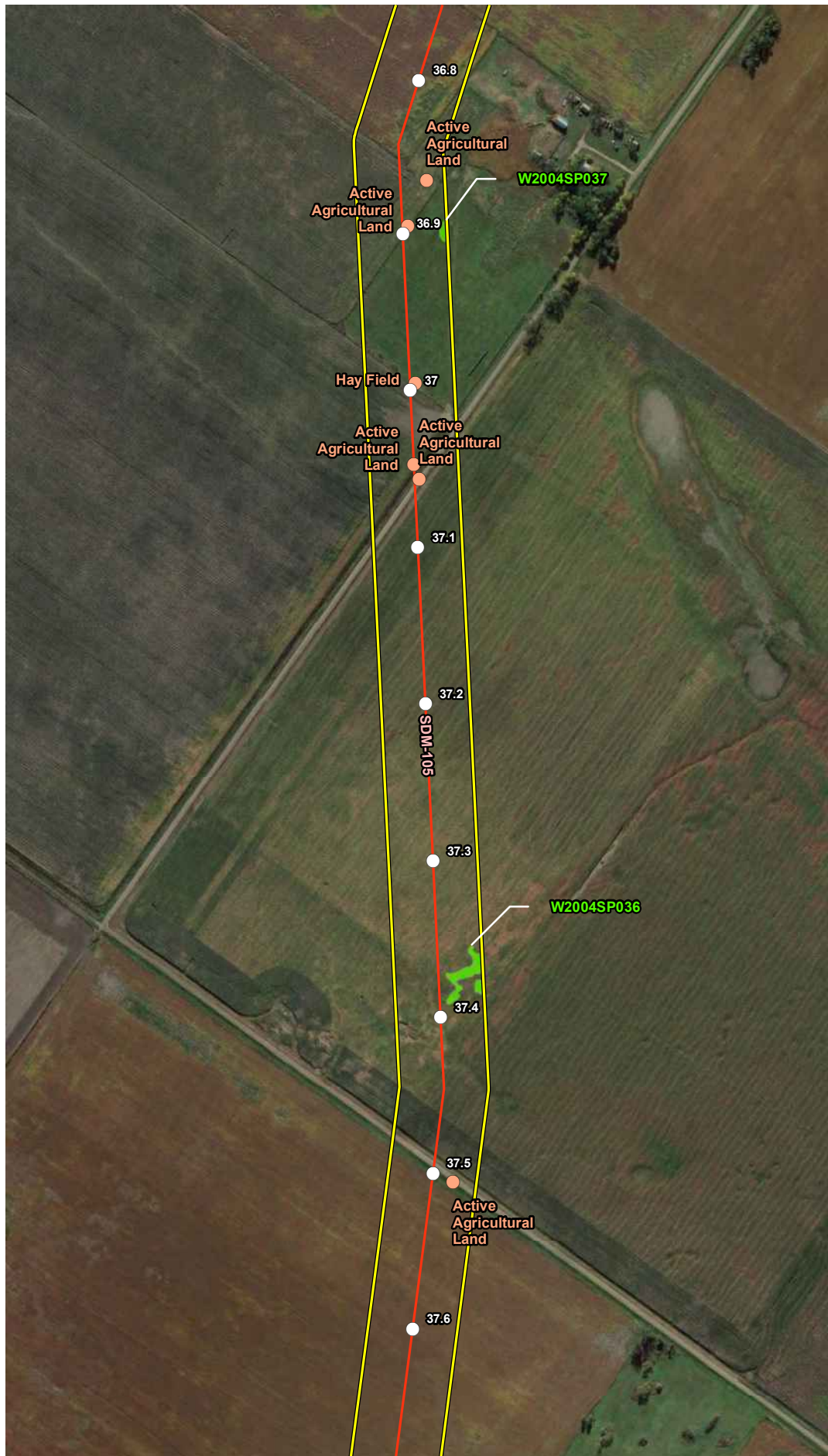
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Sheet 102 of 517

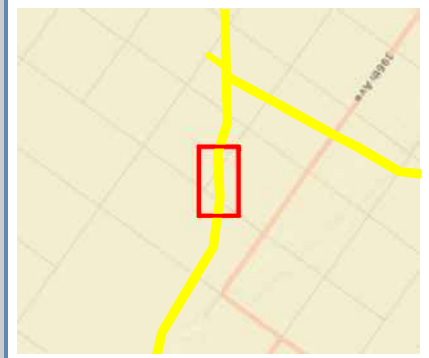
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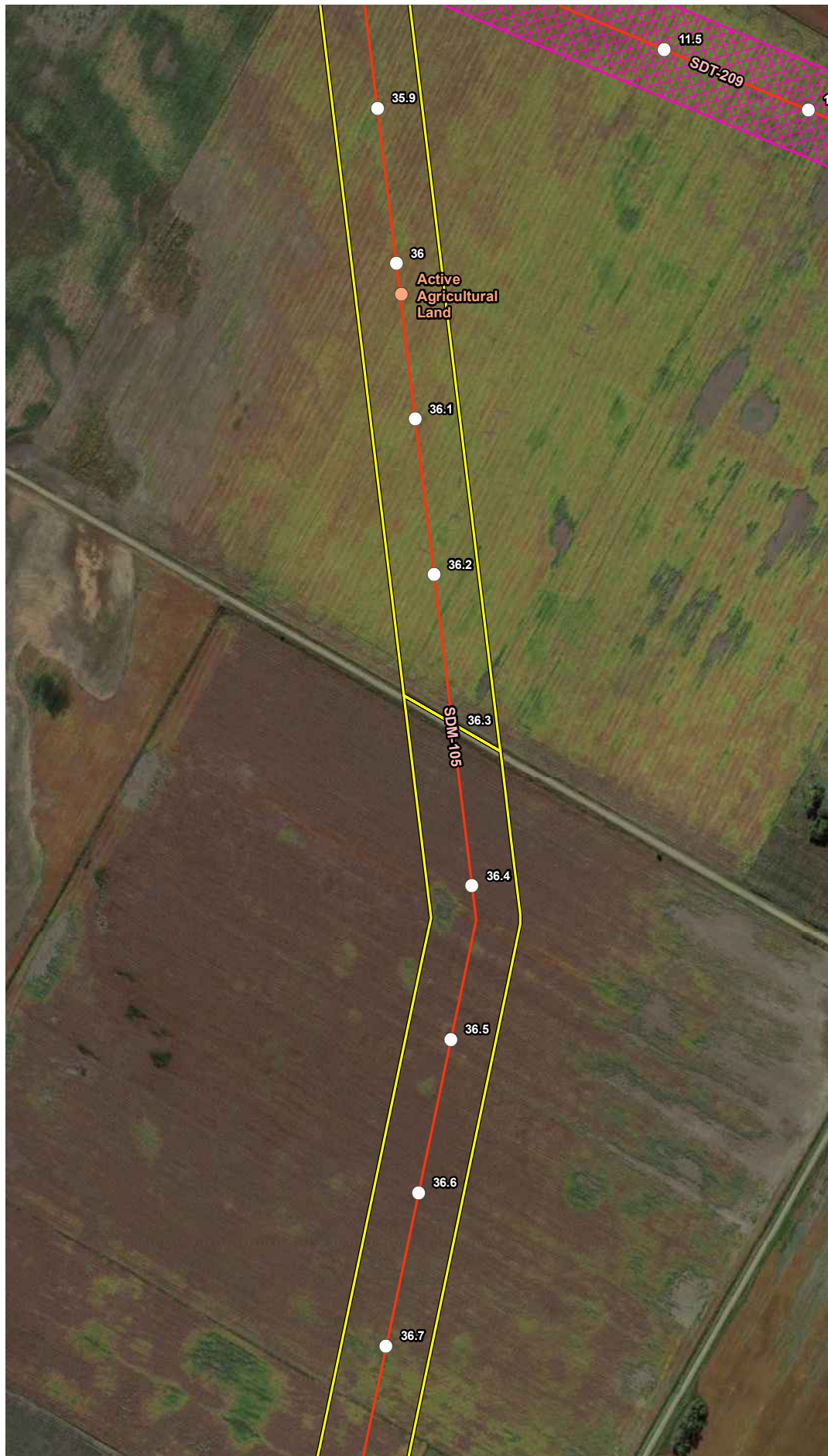
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Sheet 103 of 517

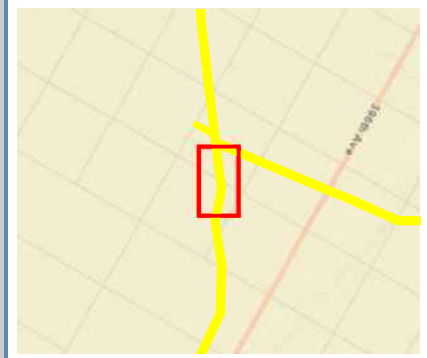
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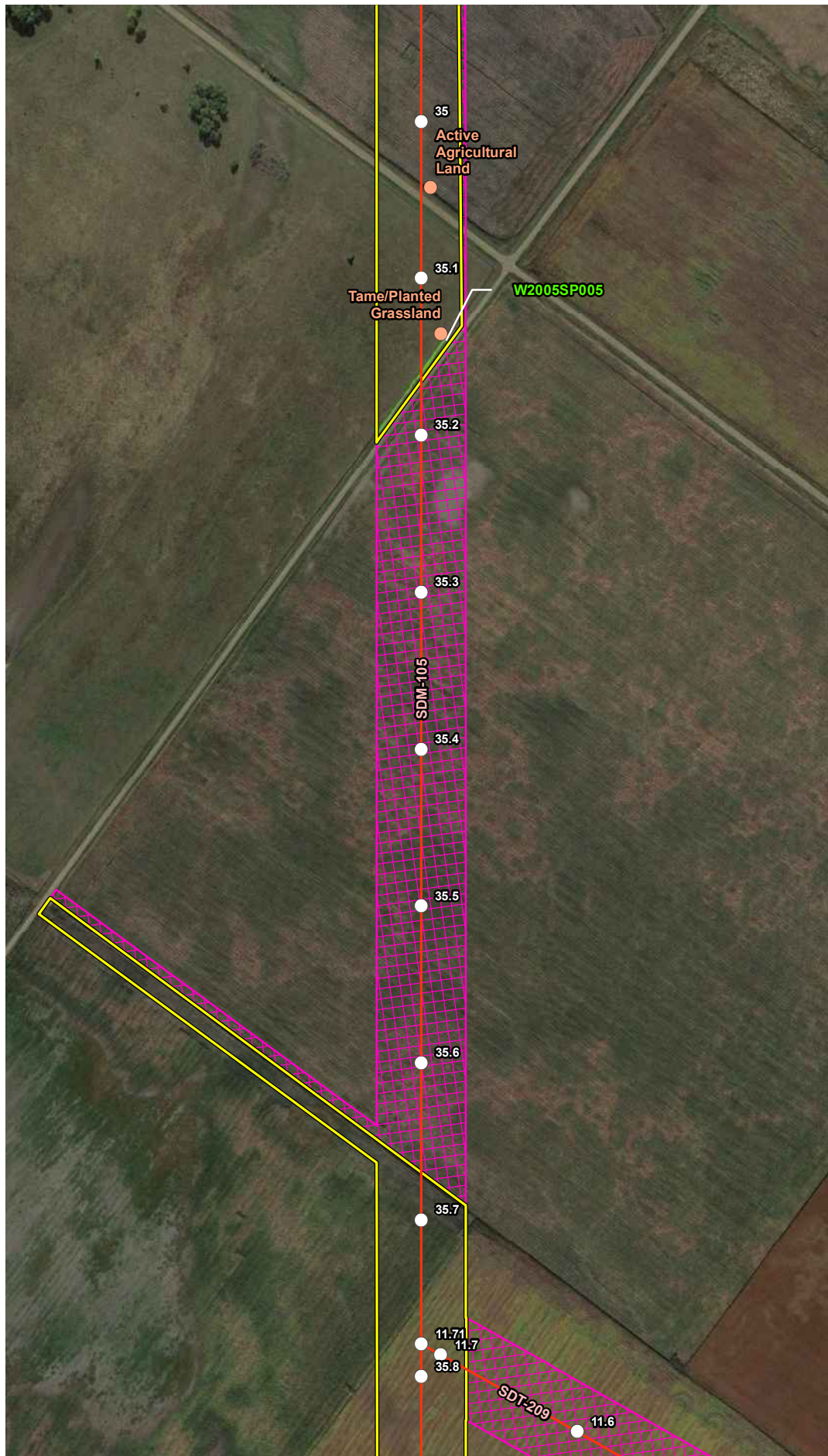
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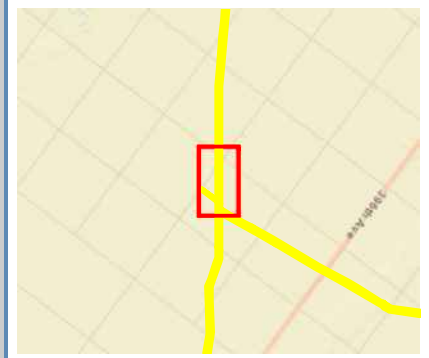
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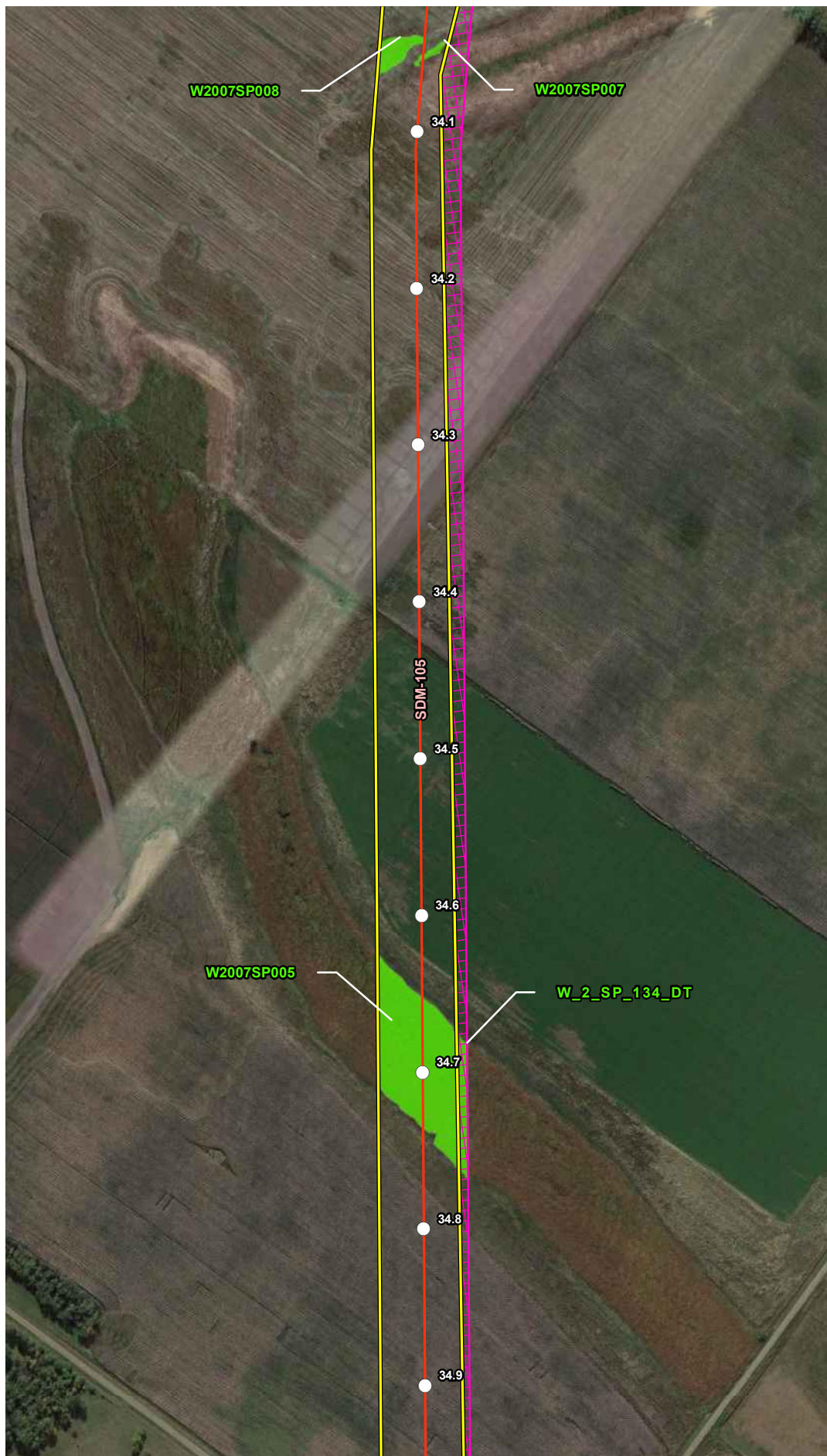
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Sheet 105 of 517

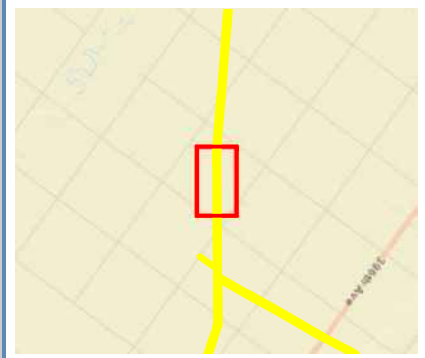
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Sheet:
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Sheet 106 of 517

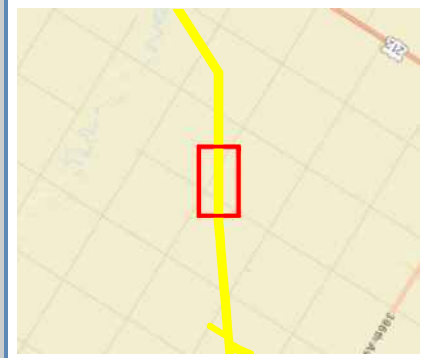
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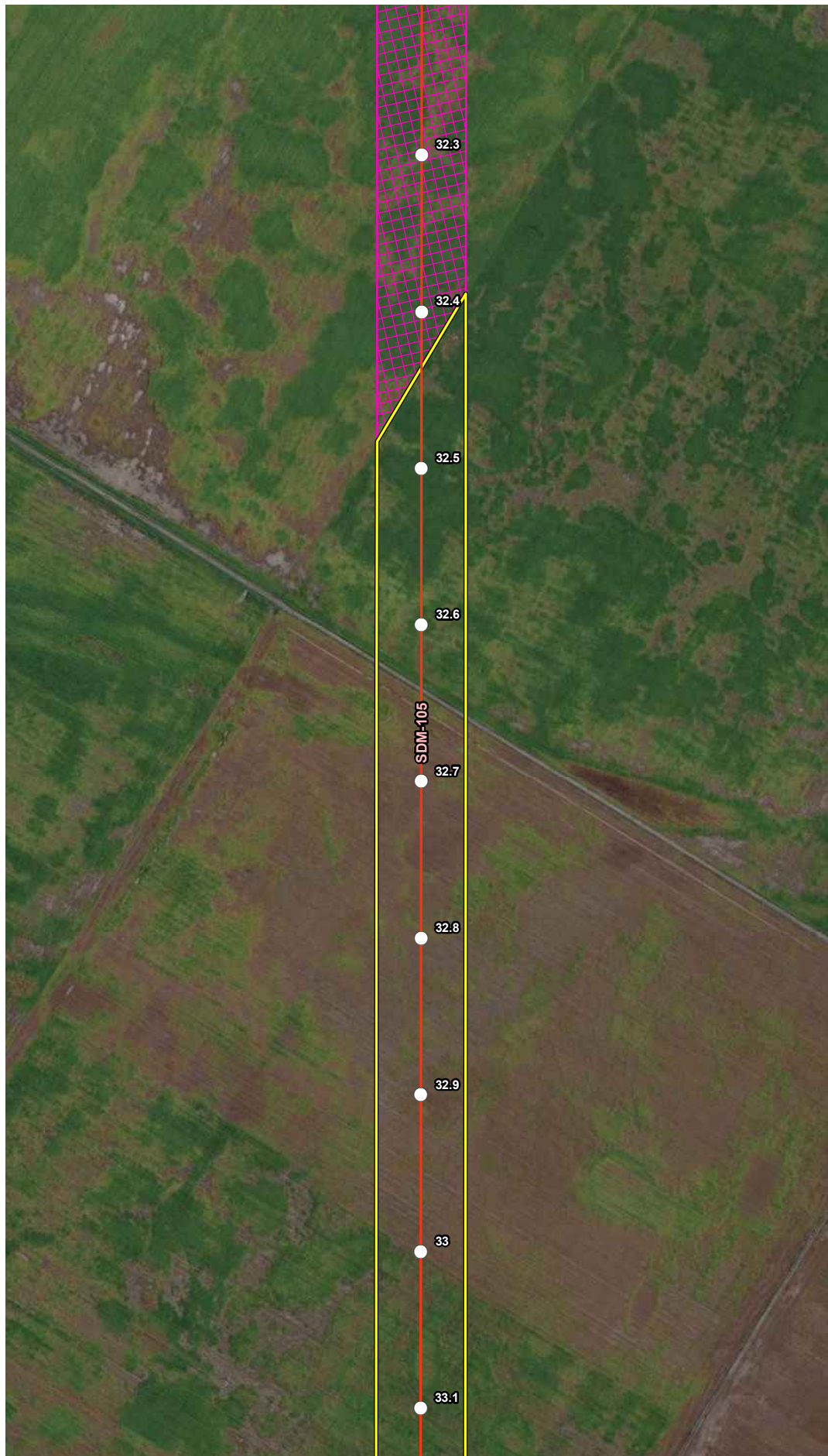
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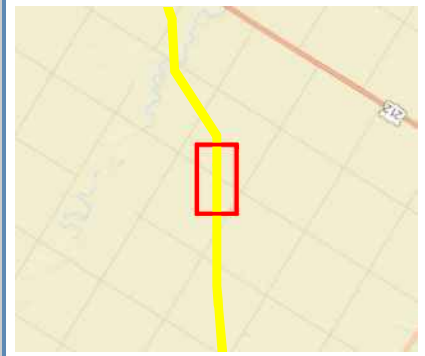
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Sheet:
108
Sheet 108 of 517

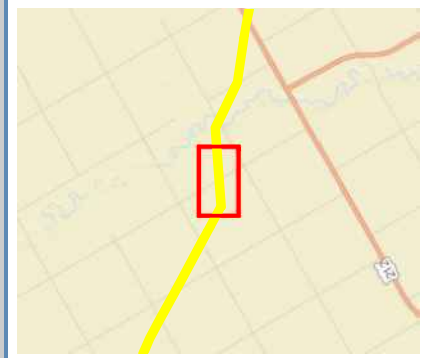
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Sheet:
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Sheet 109 of 517

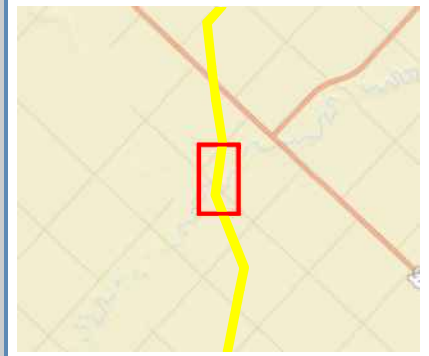
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Sheet:
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Sheet 110 of 517

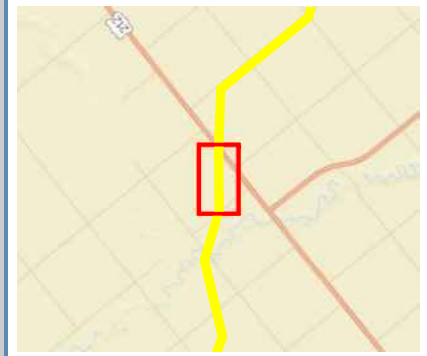
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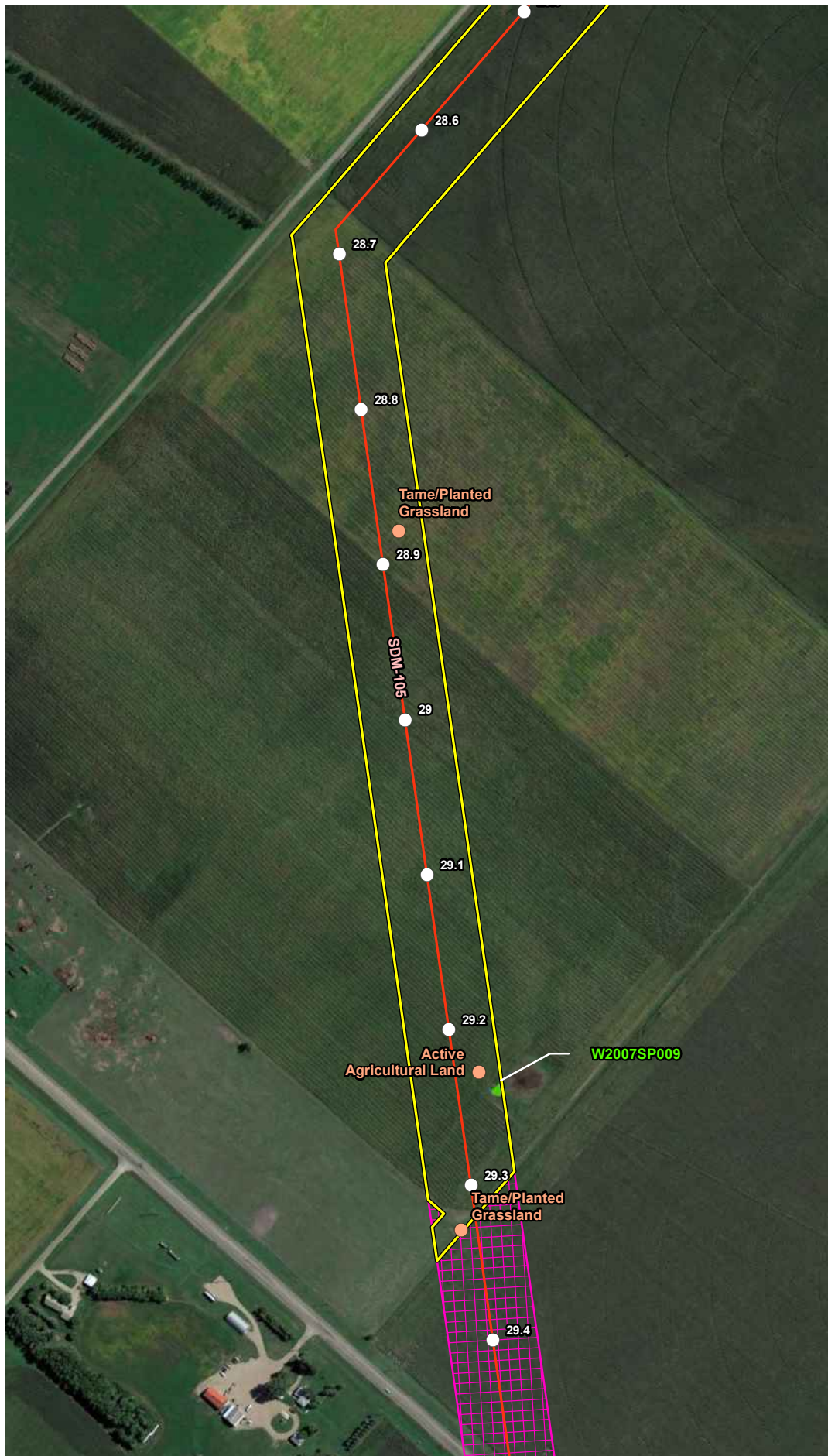
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Sheet:
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Sheet 111 of 517

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
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- Stream
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- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

Revision description

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
112
Sheet 112 of 517

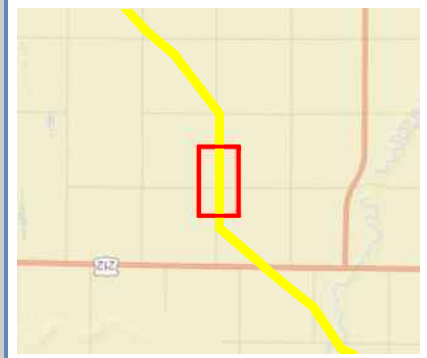
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0 250 500 Feet



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Figure Number: 2

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
113
Sheet 113 of 517

Drawing Number:
2001-21-002
Current Revision

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Figure Number:

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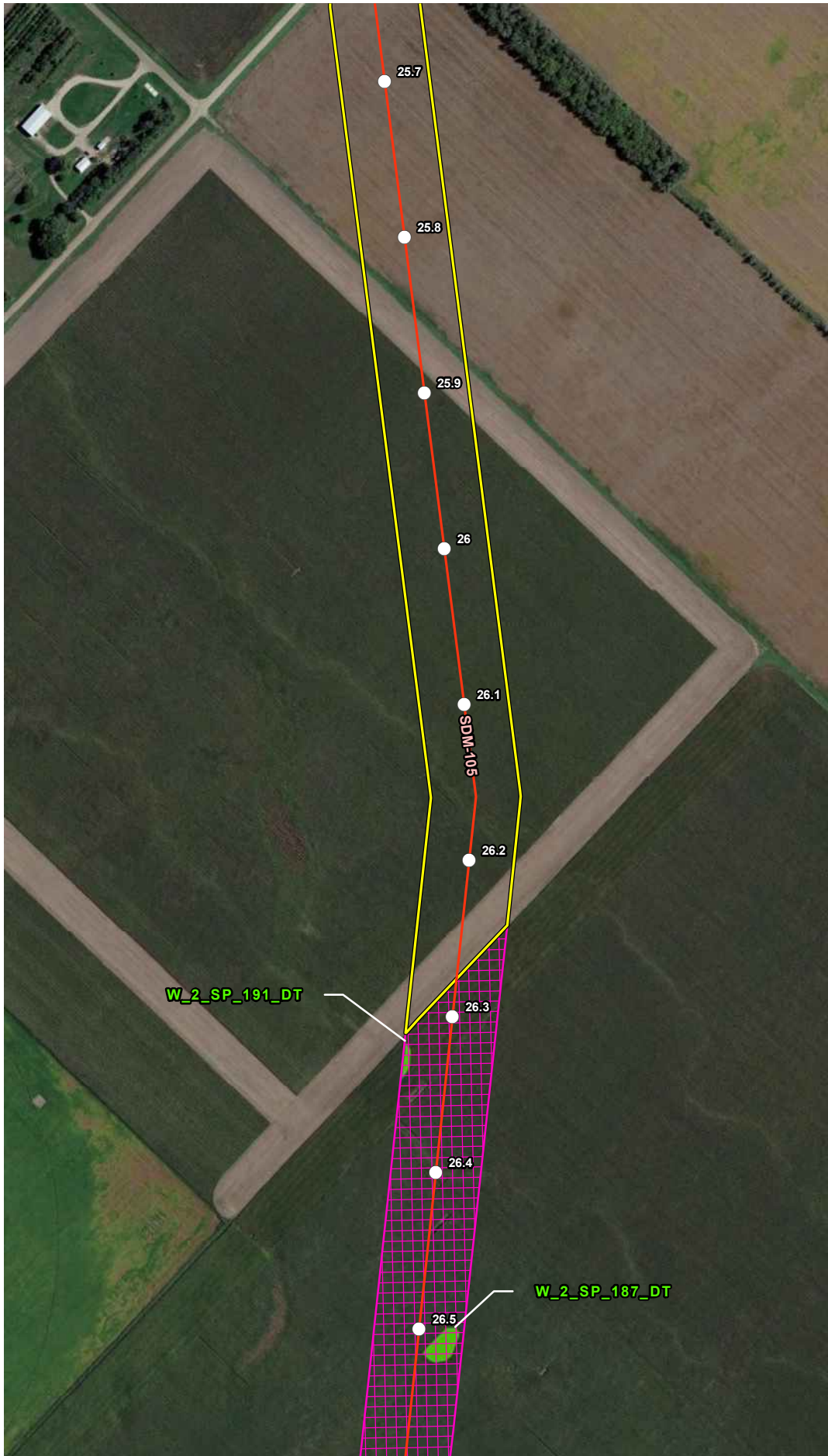
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 114 of 517

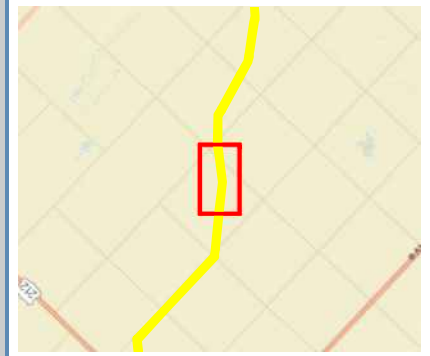
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Scale:
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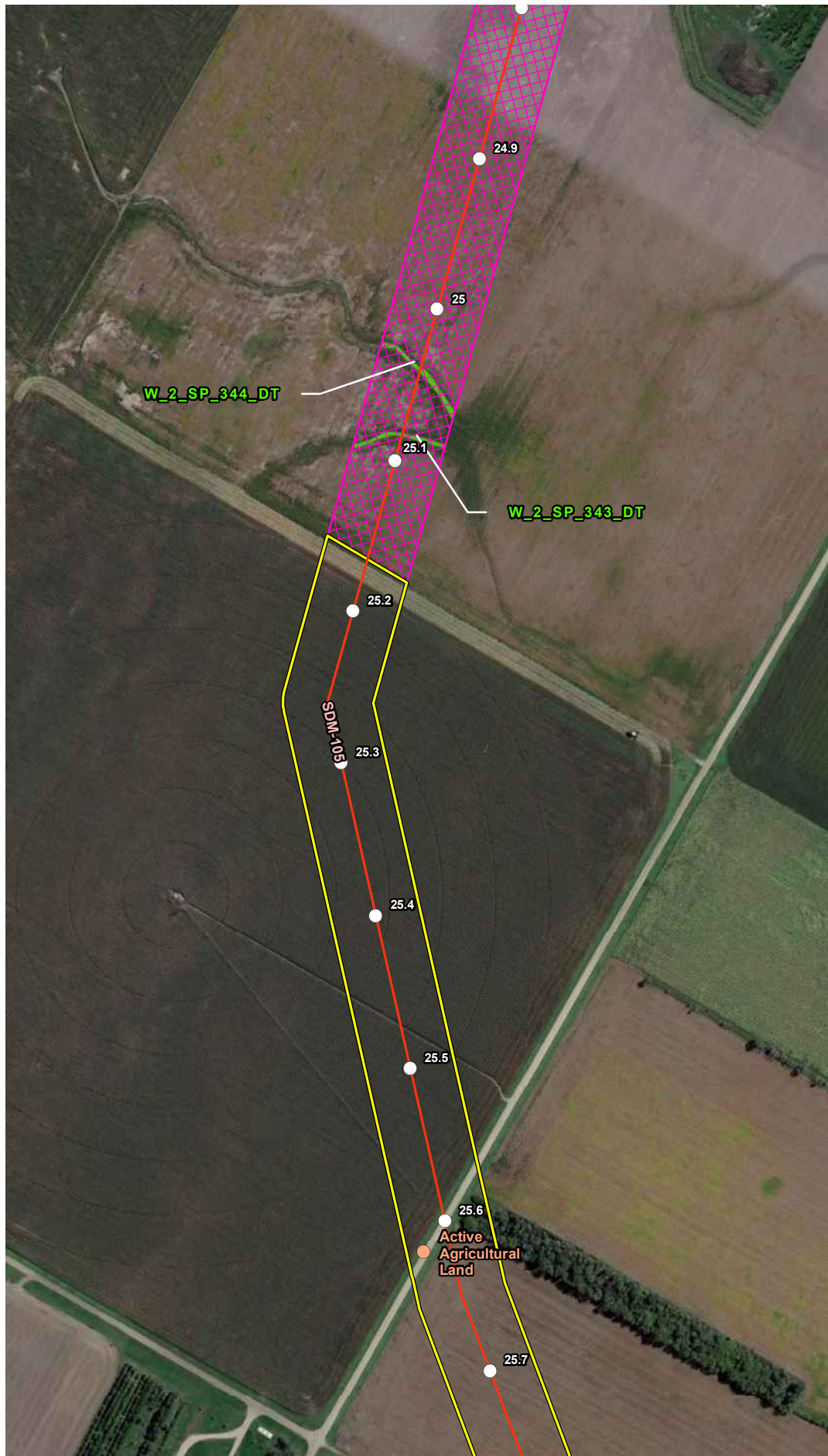
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Sheet:
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Sheet 115 of 517

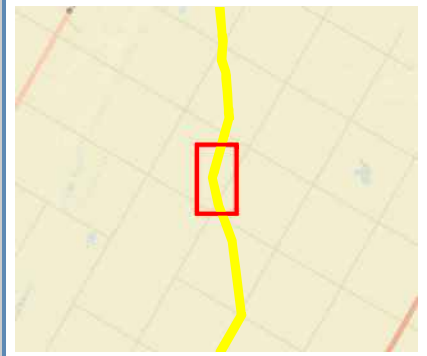
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Figure Number: 2

Scale:
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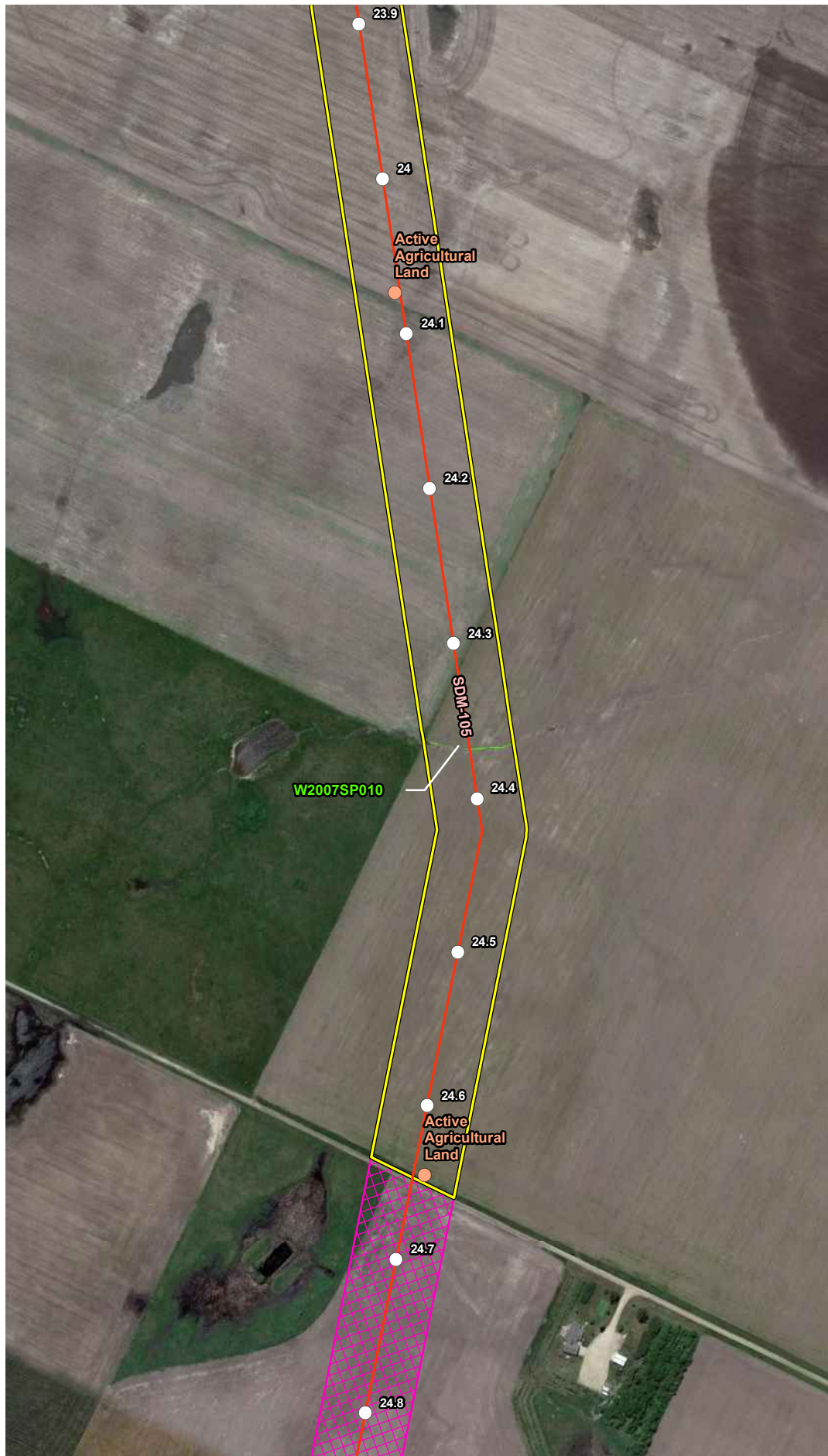
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
116
Sheet 116 of 517

Drawing Number:
2001-21-002
Current Revision

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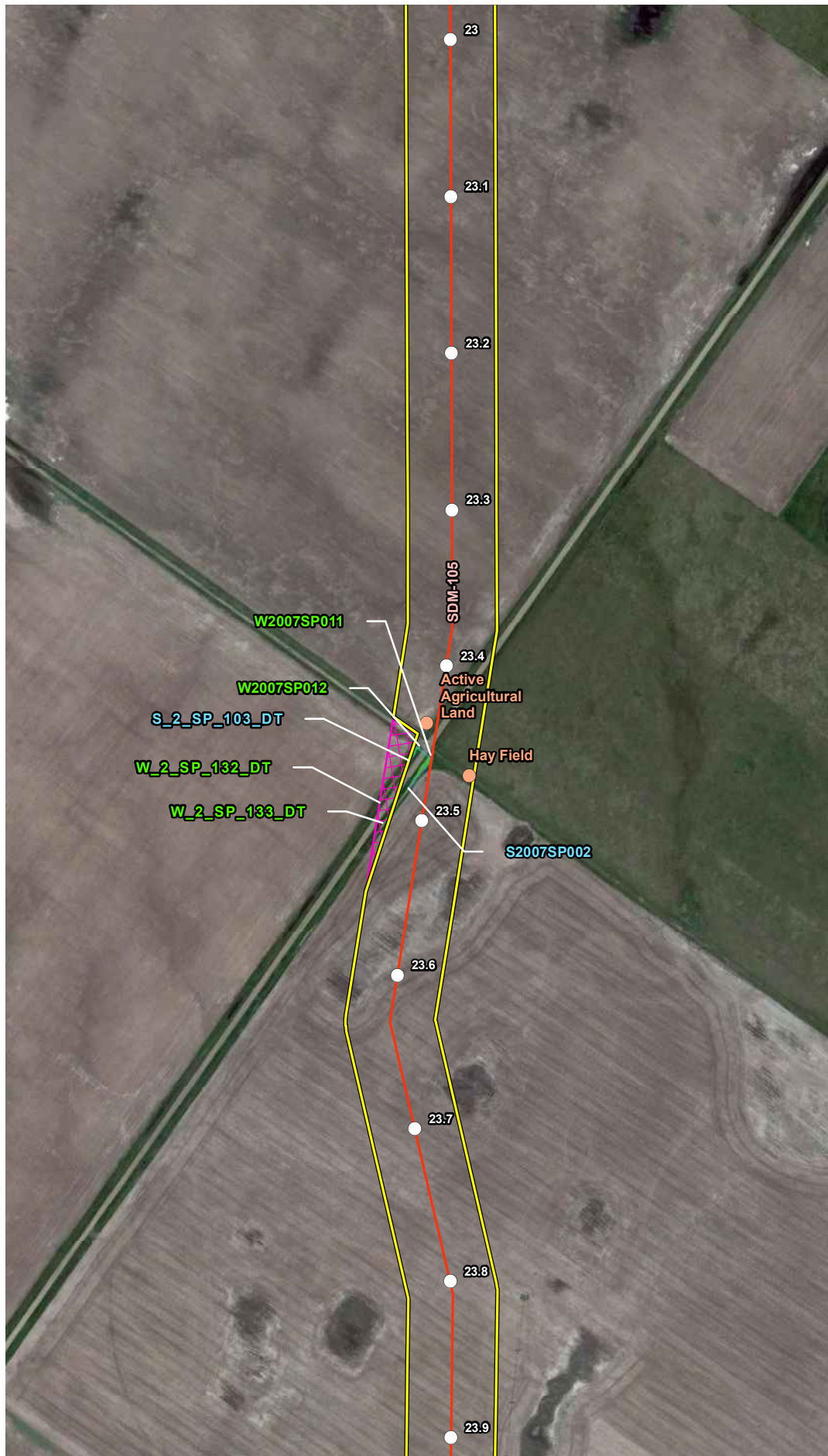
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Sheet:
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Sheet 117 of 517

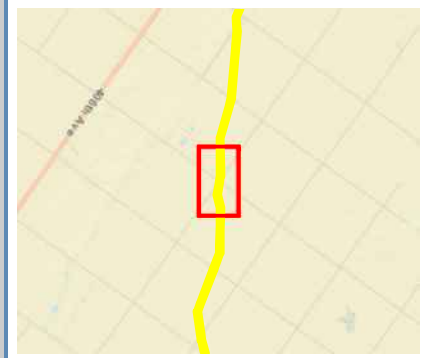
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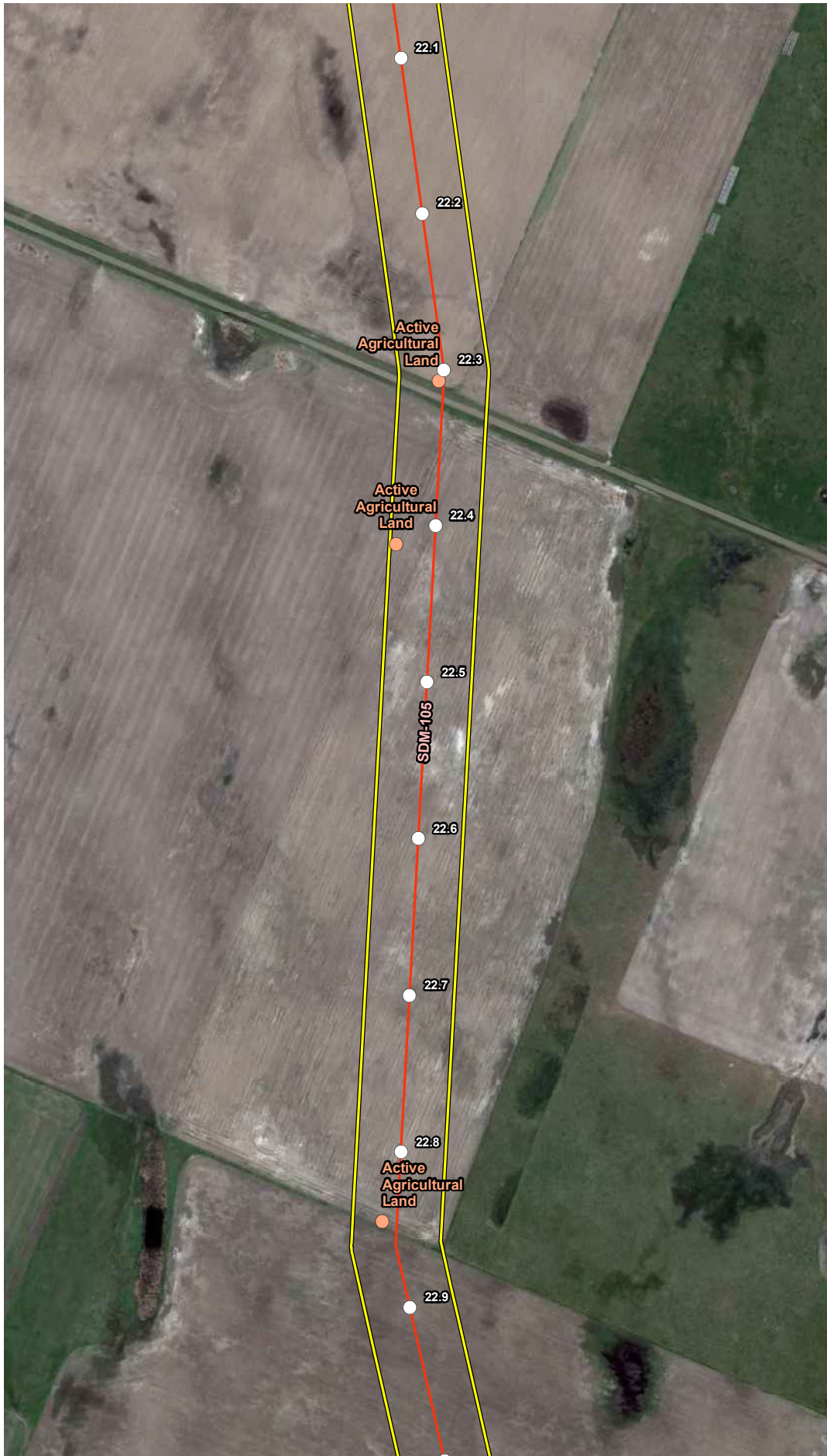
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Sheet 118 of 517

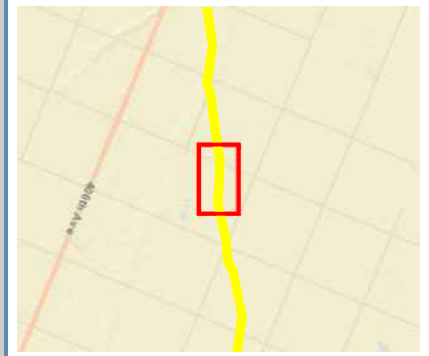
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Scale:
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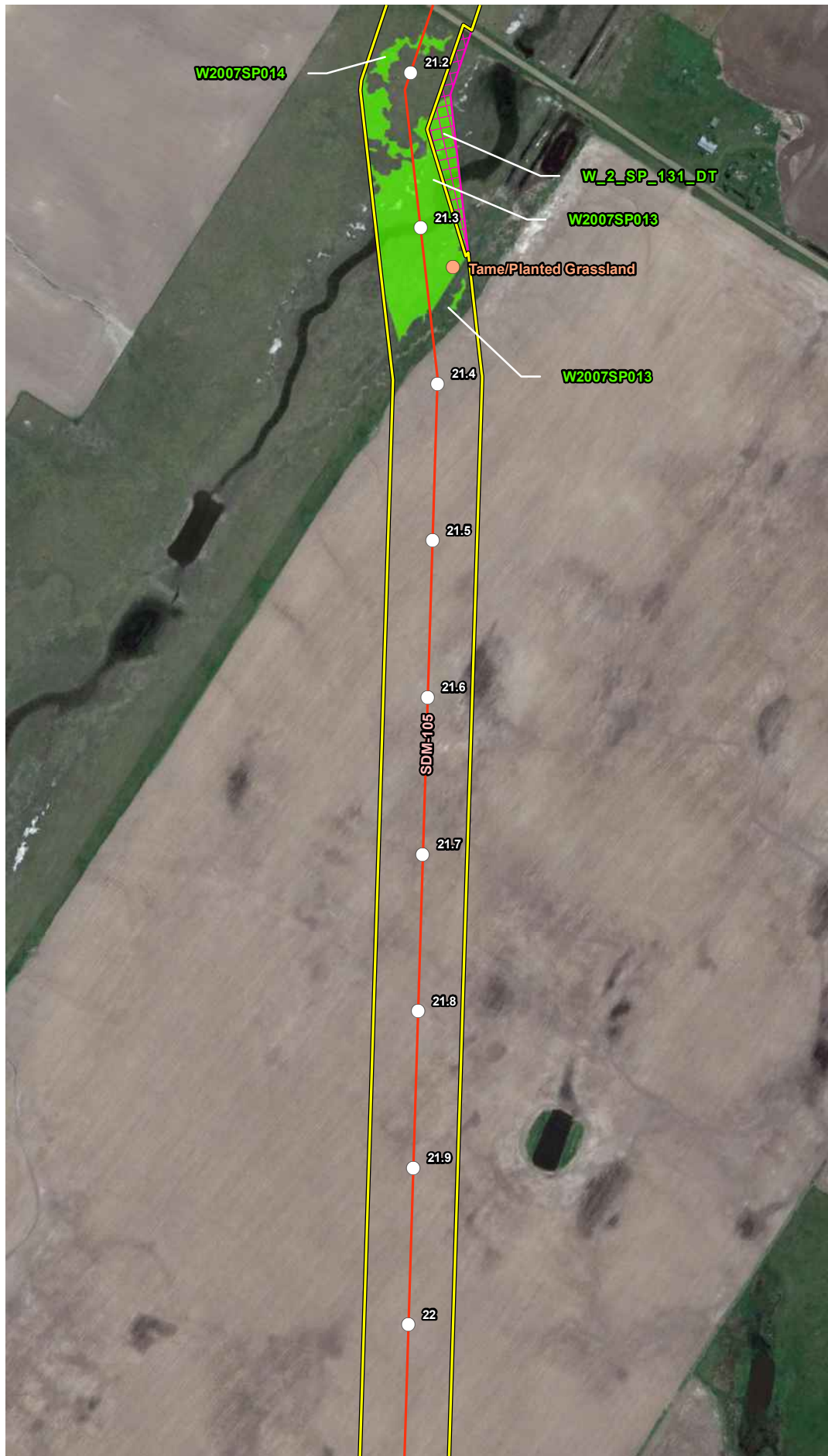
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 Sheet 119 of 517

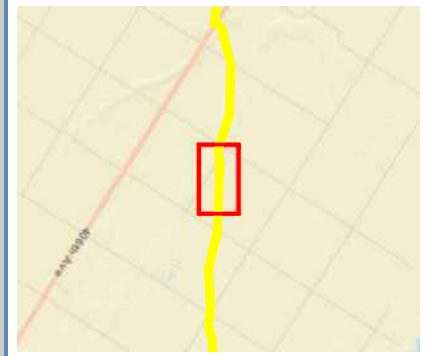
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0 250 500
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2

Scale:
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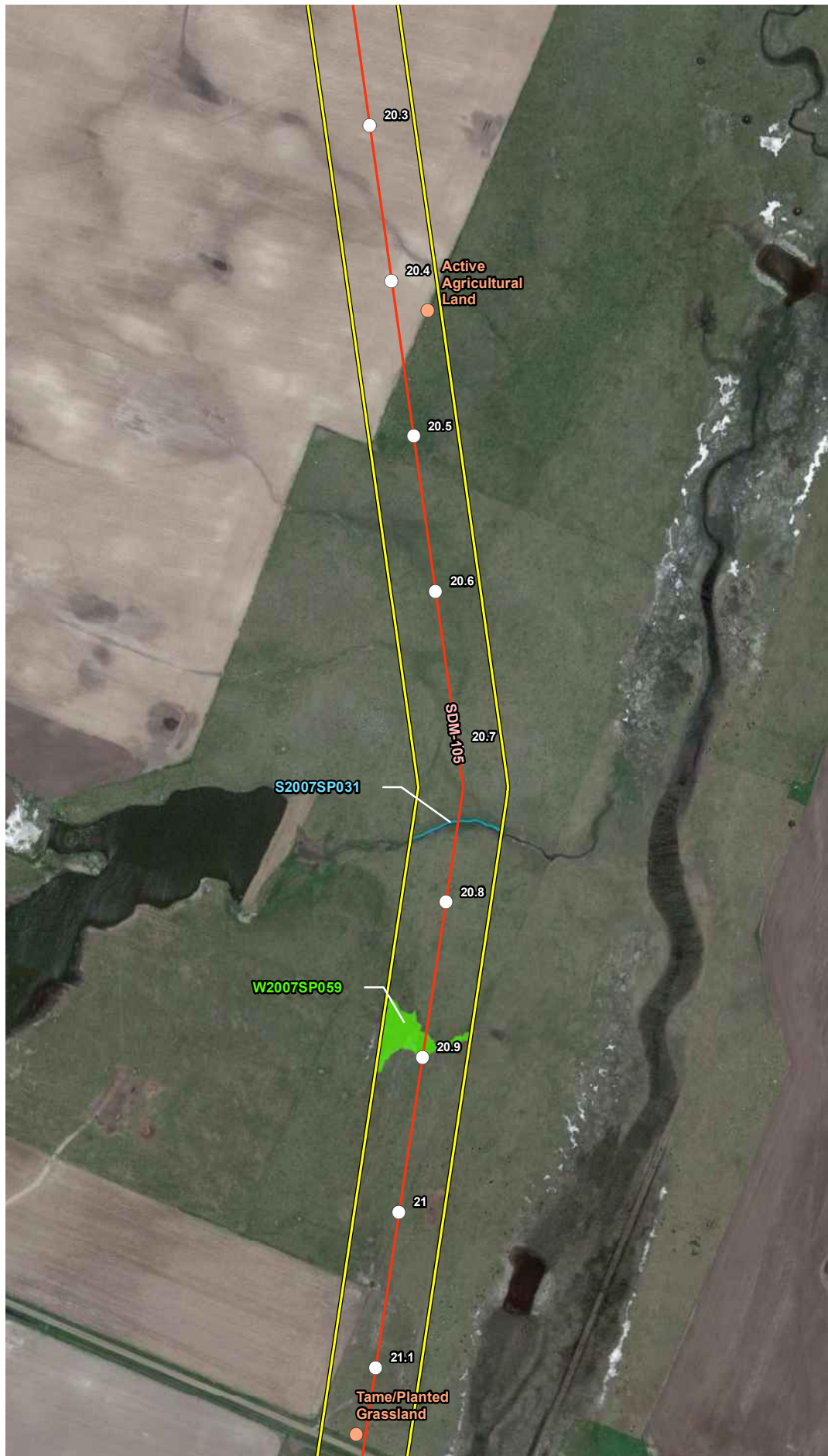
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NAD 1983 UTM Zone 14N

Sheet:
120
Sheet 120 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



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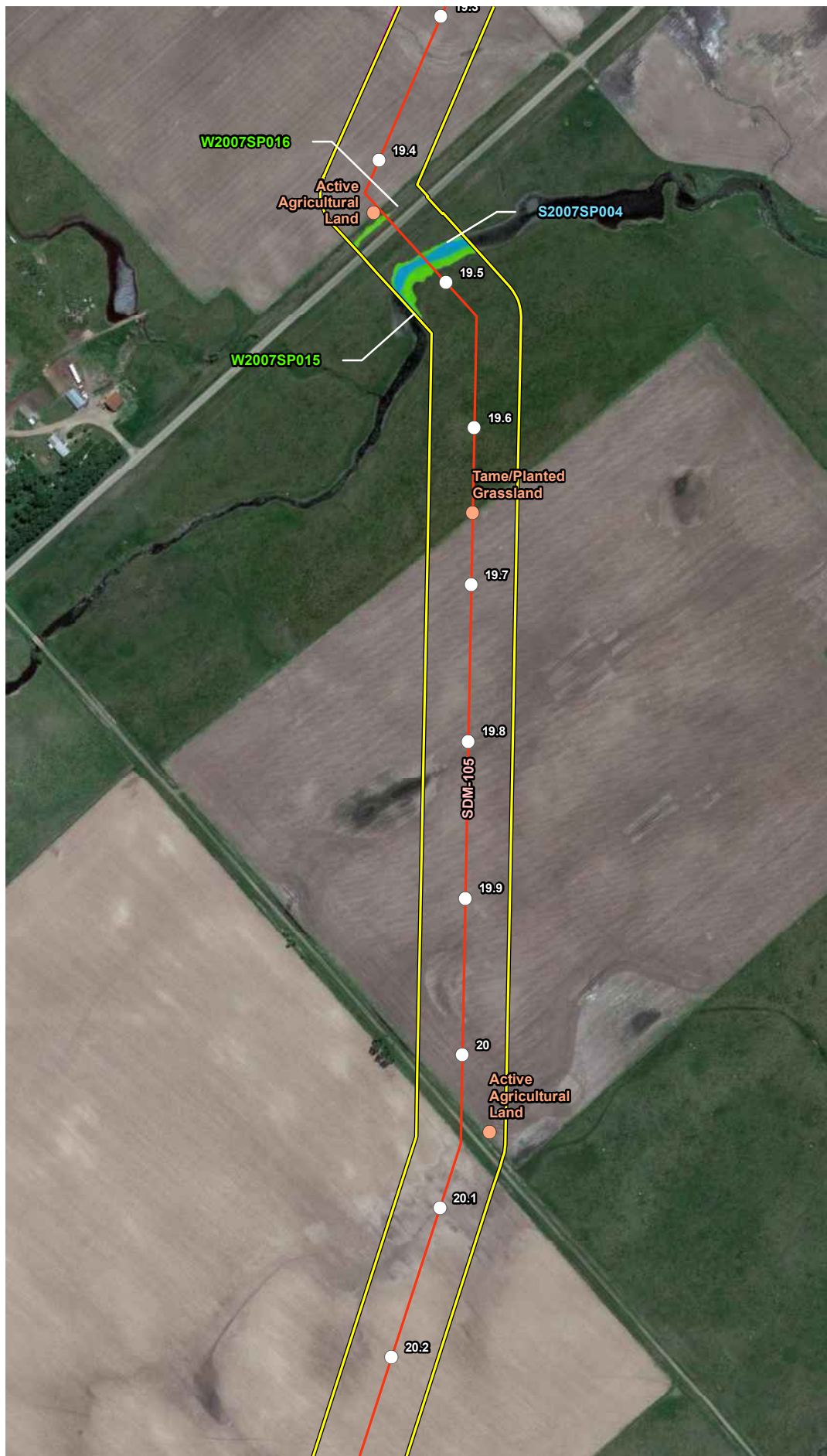
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NAD 1983 UTM Zone 14N

Sheet:
121
Sheet 121 of 517

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Sheet:
122
Sheet 122 of 517

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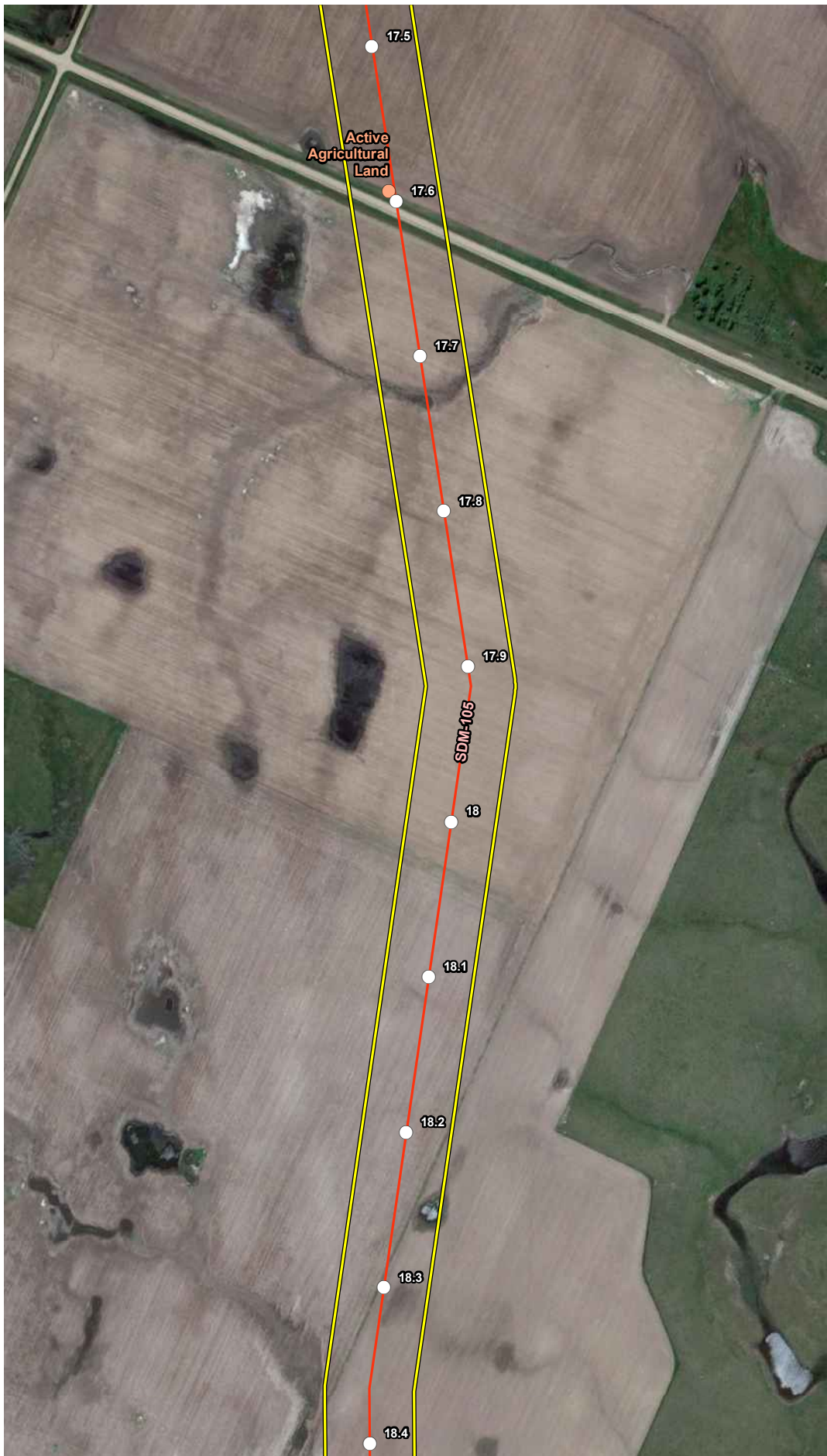
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Sheet:
123
Sheet 123 of 517

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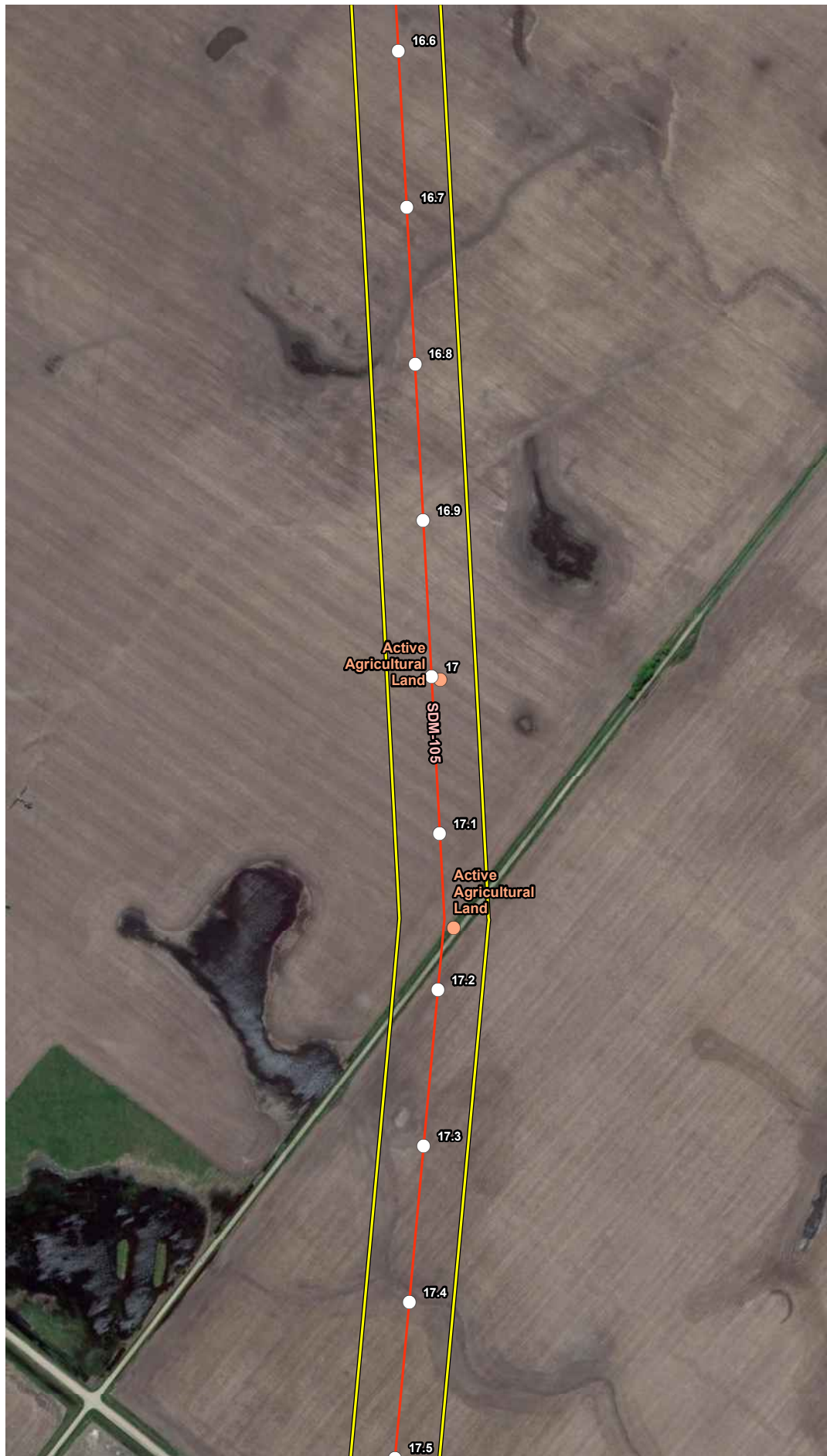
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Sheet 124 of 517

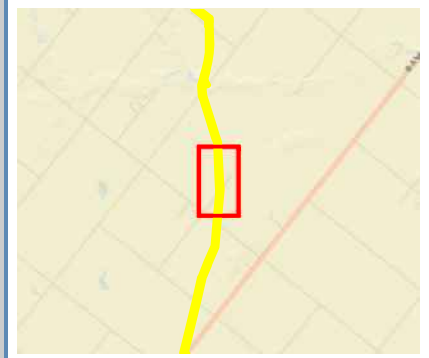
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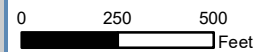


VICINITY MAP



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Projection:
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 NAD 1983 UTM Zone 14N

Sheet:
125
 Sheet 125 of 517

Drawing Number:
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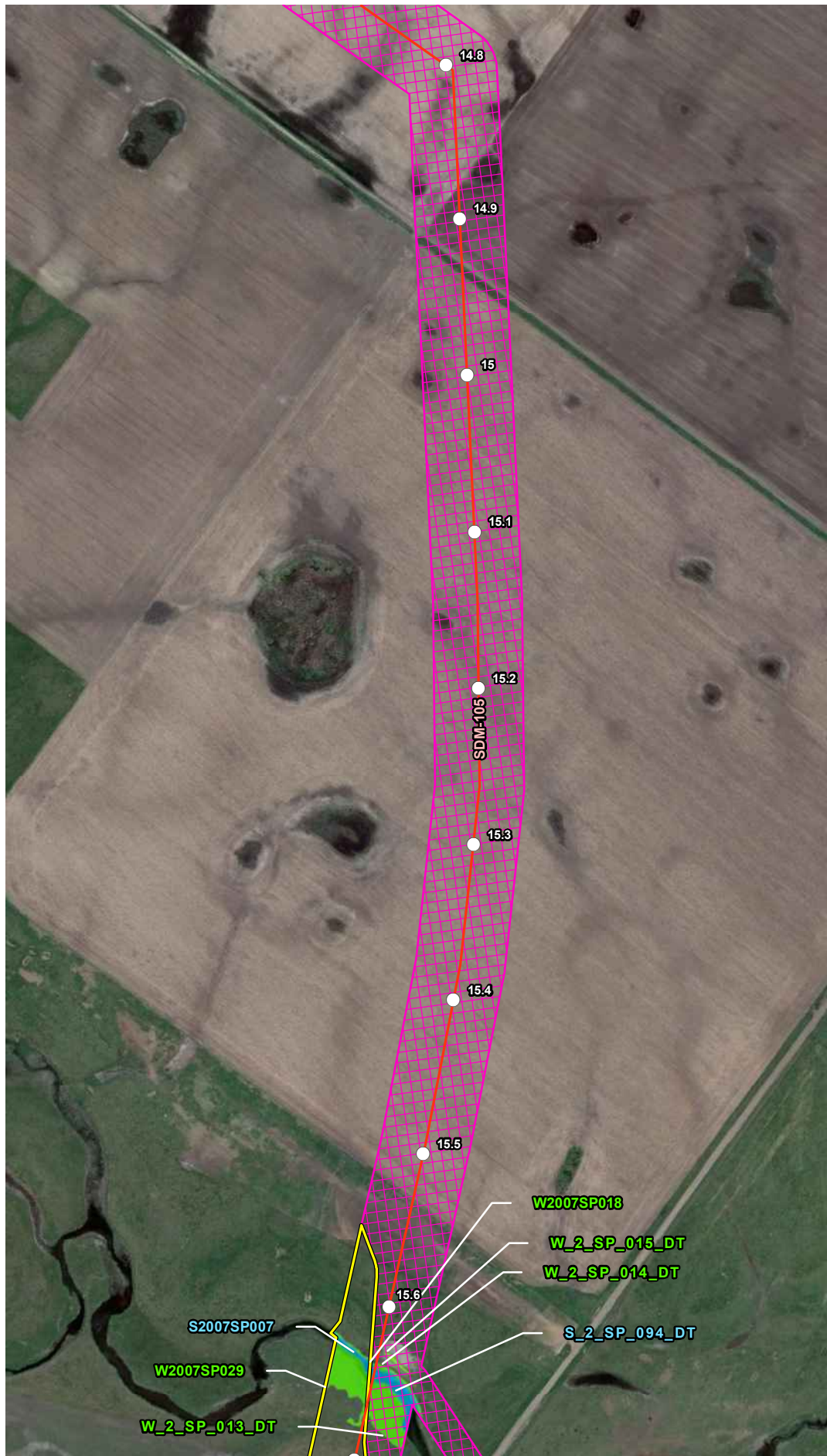
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Sheet 126 of 517

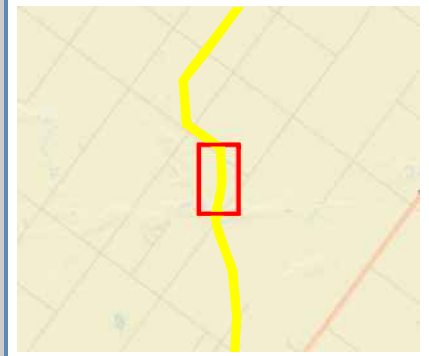
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0 250 500
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

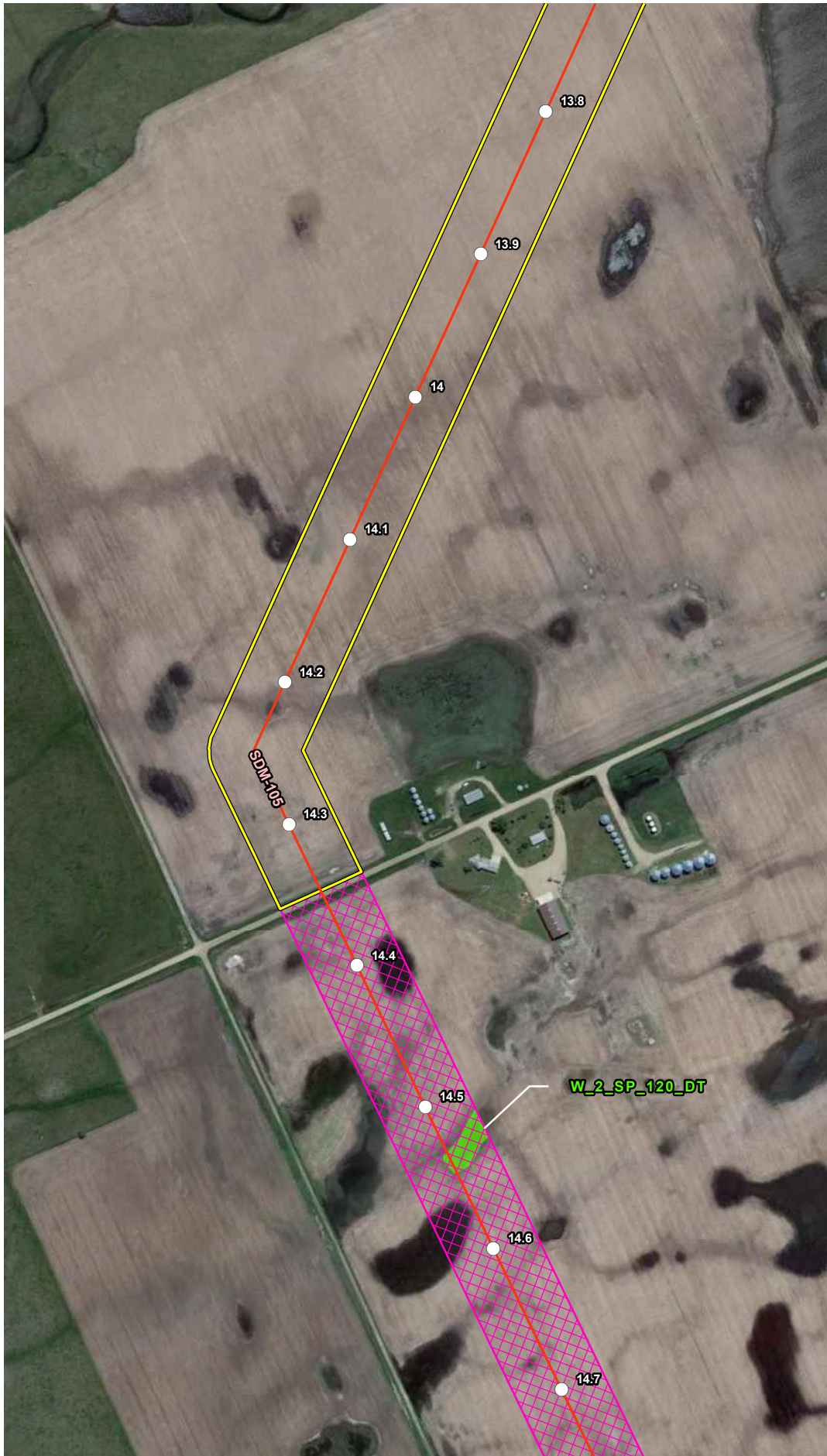
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NAD 1983 UTM Zone 14N

Sheet:
127
Sheet 127 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



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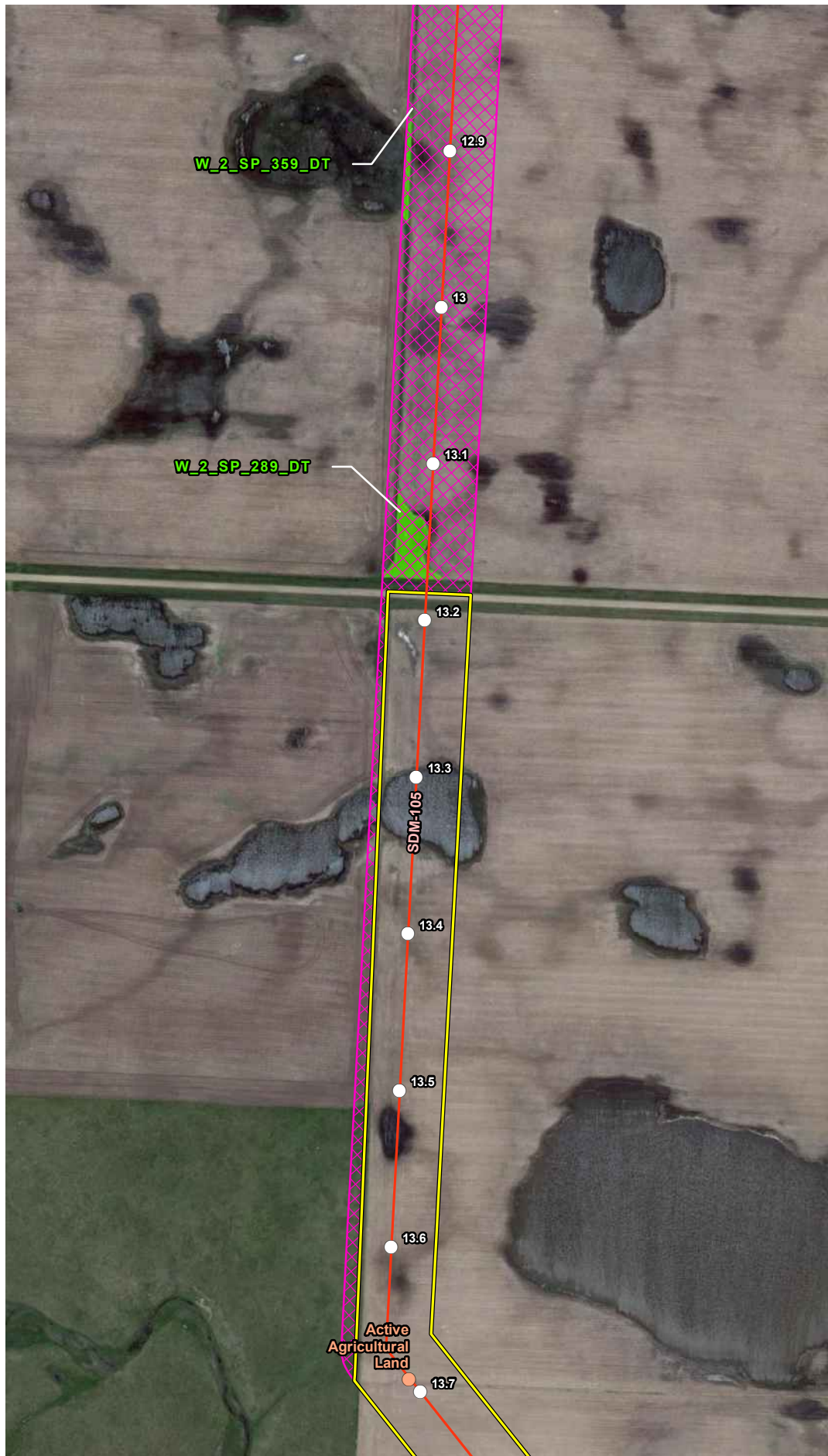
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Sheet:
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 Sheet 128 of 517

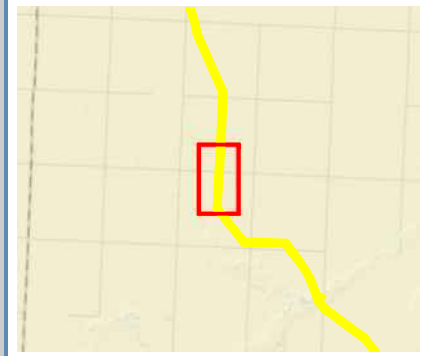
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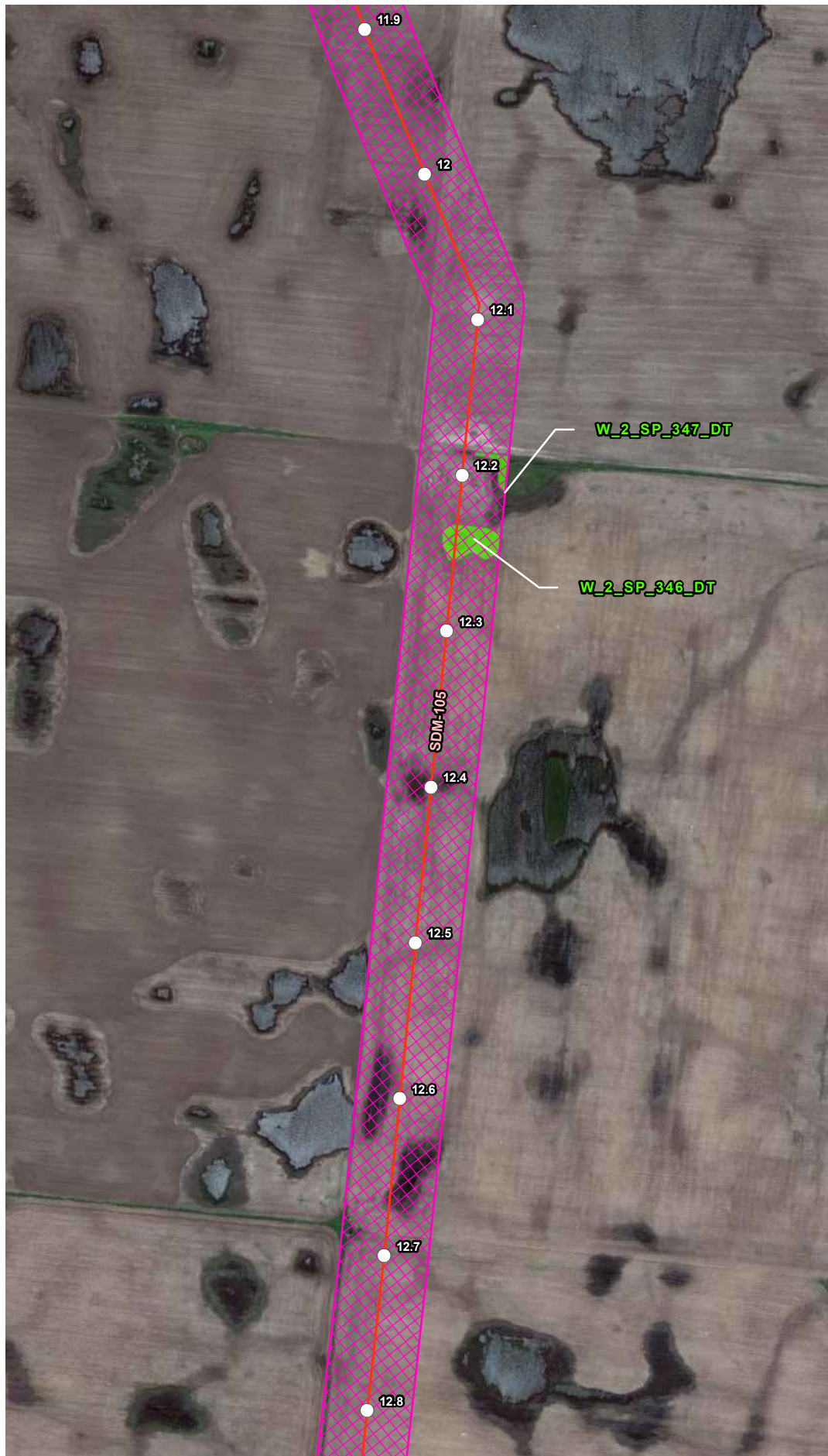
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Sheet:
129
Sheet 129 of 517

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Sheet:
 130
 Sheet 130 of 517

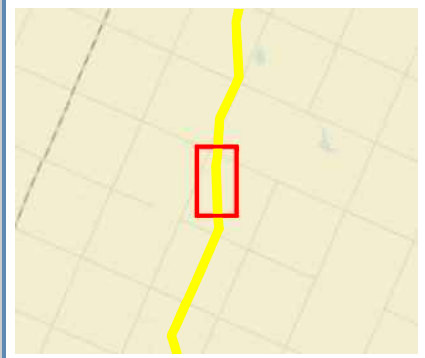
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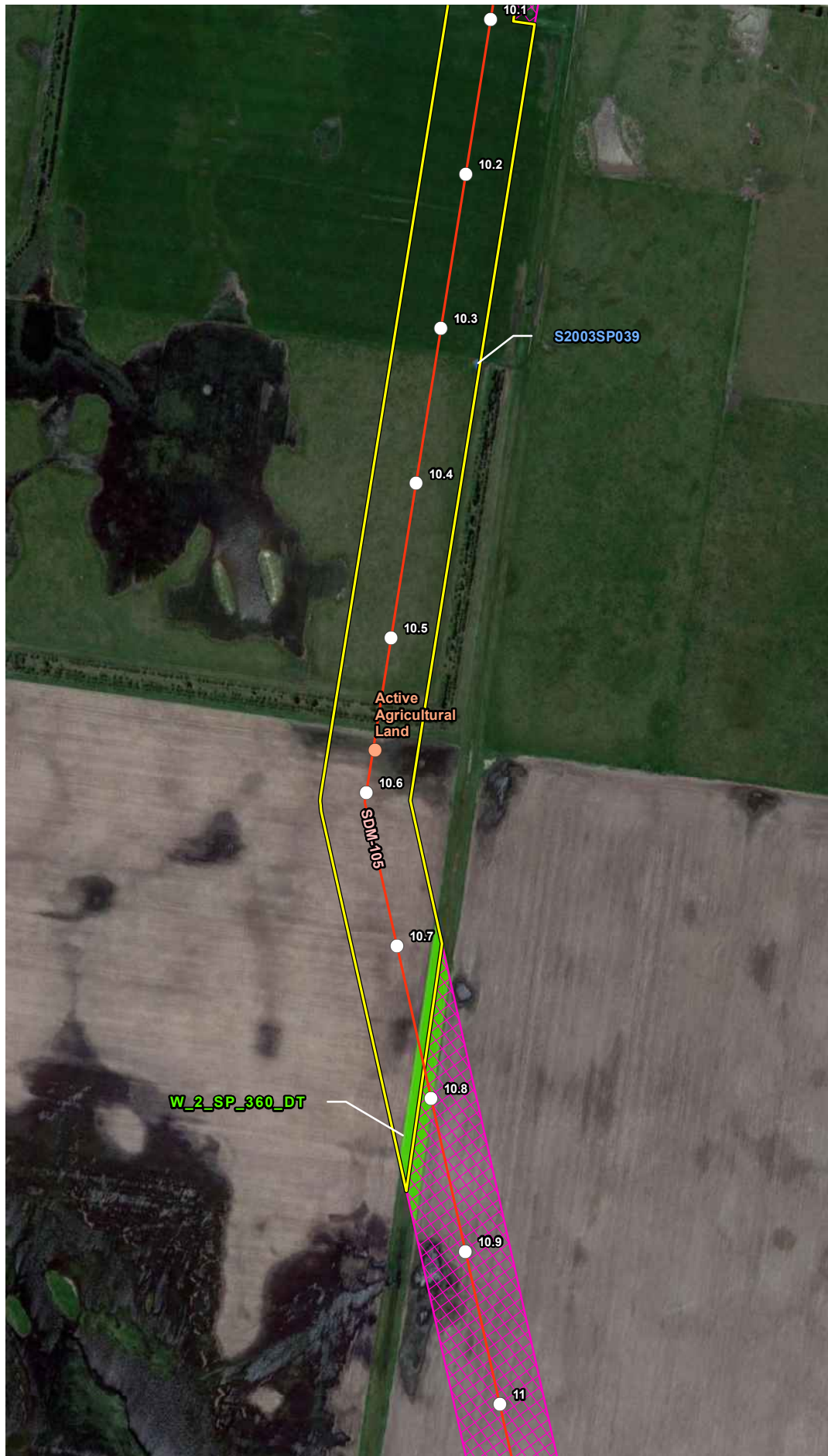
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Sheet:
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 Sheet 131 of 517

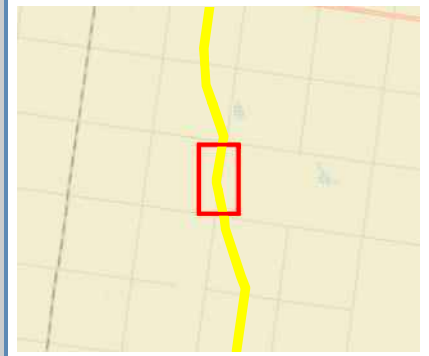
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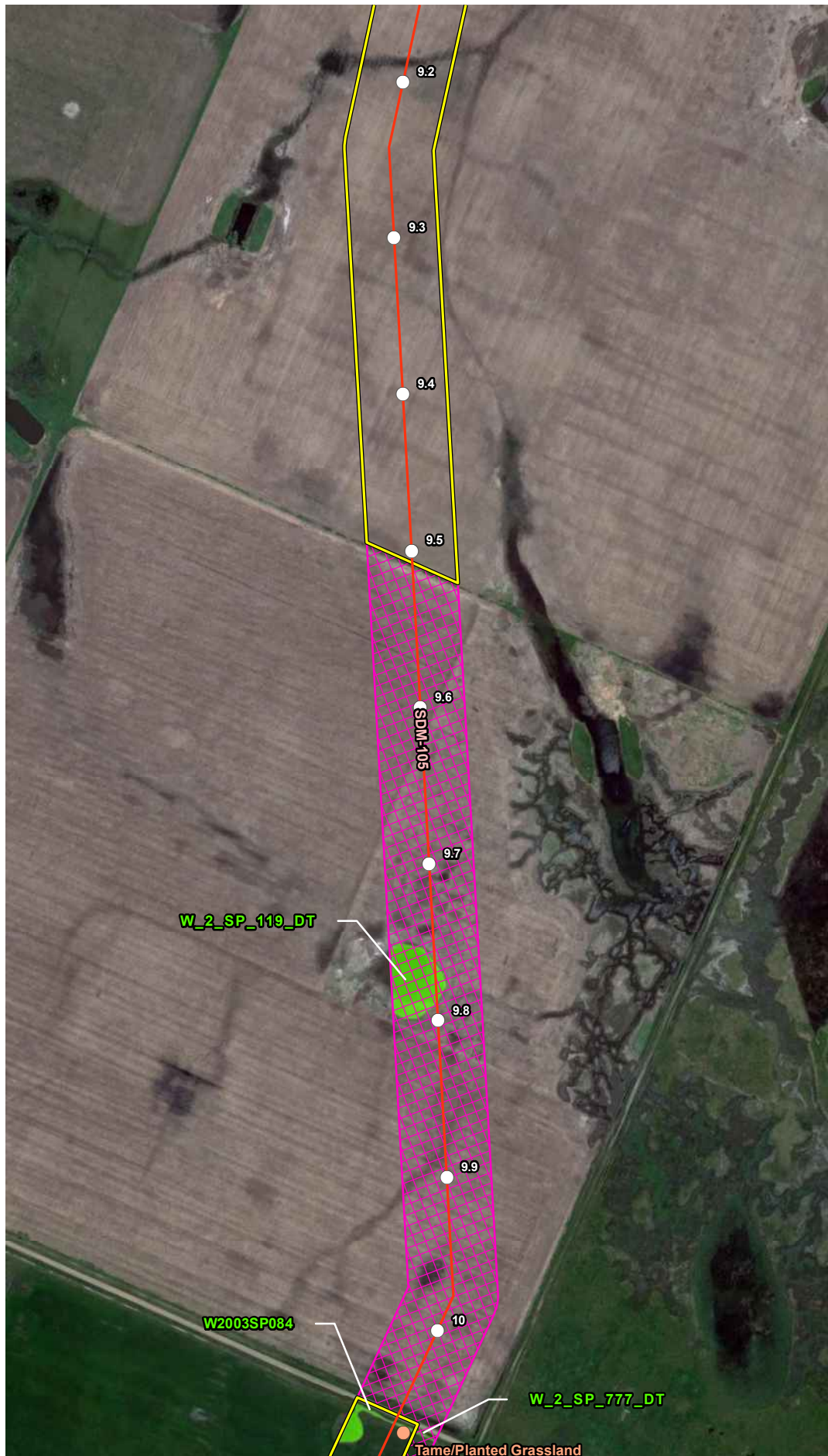
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 132 of 517

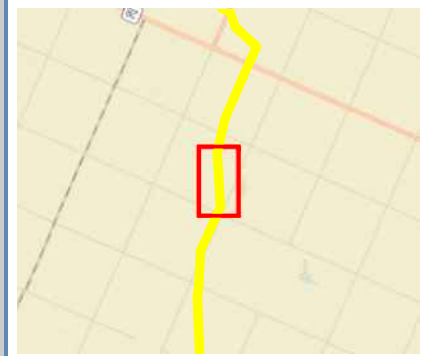
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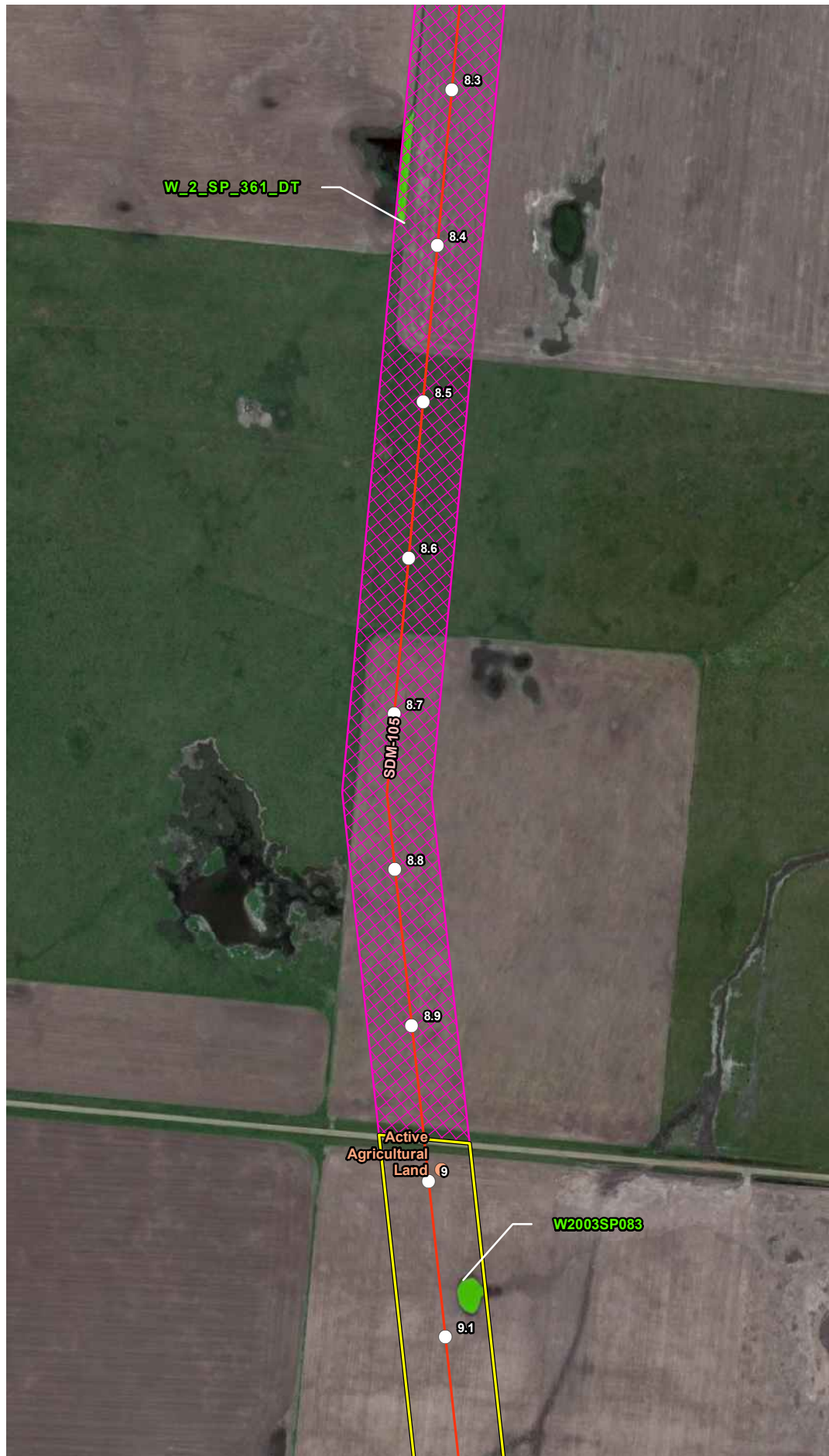
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Sheet:
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Sheet 133 of 517

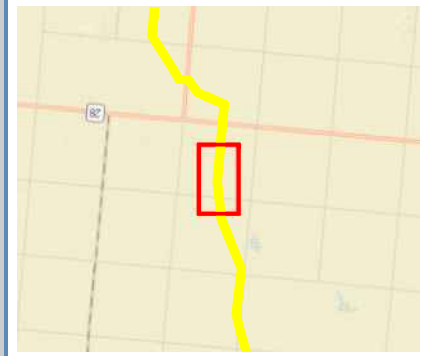
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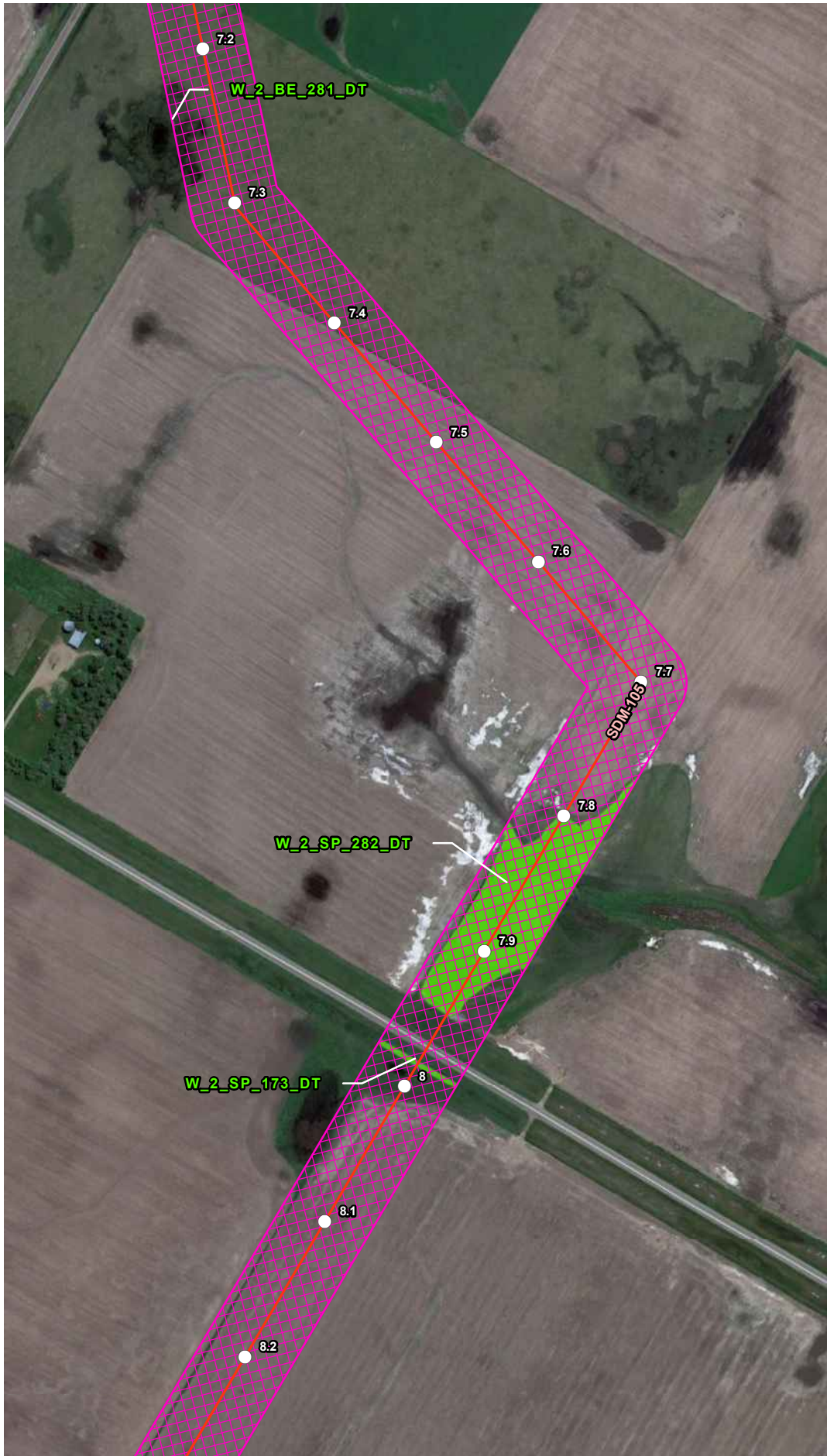
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Sheet:
134
Sheet 134 of 517

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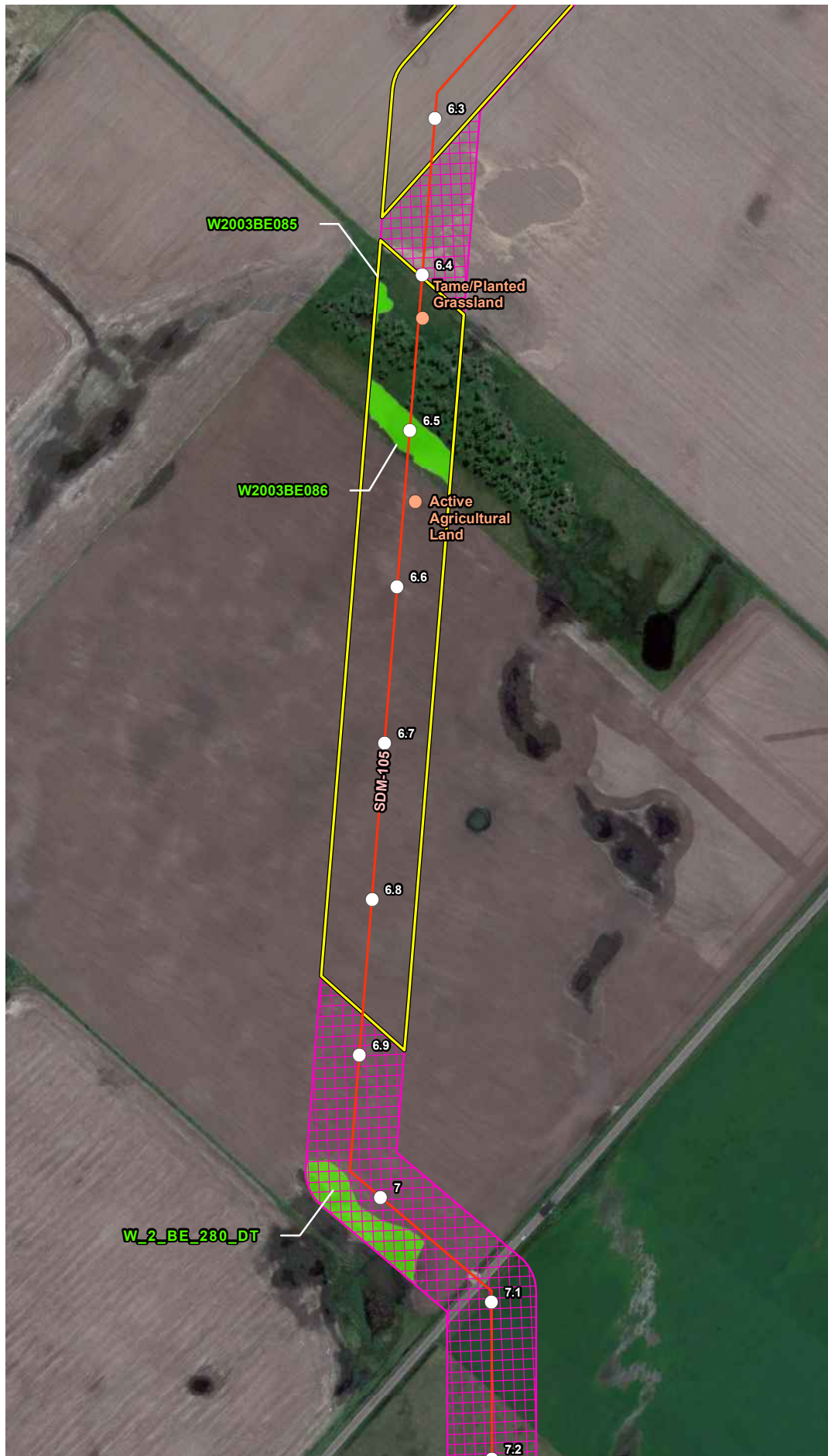
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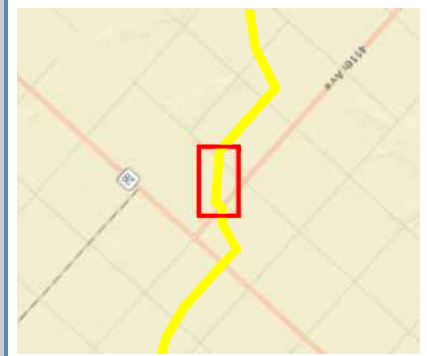
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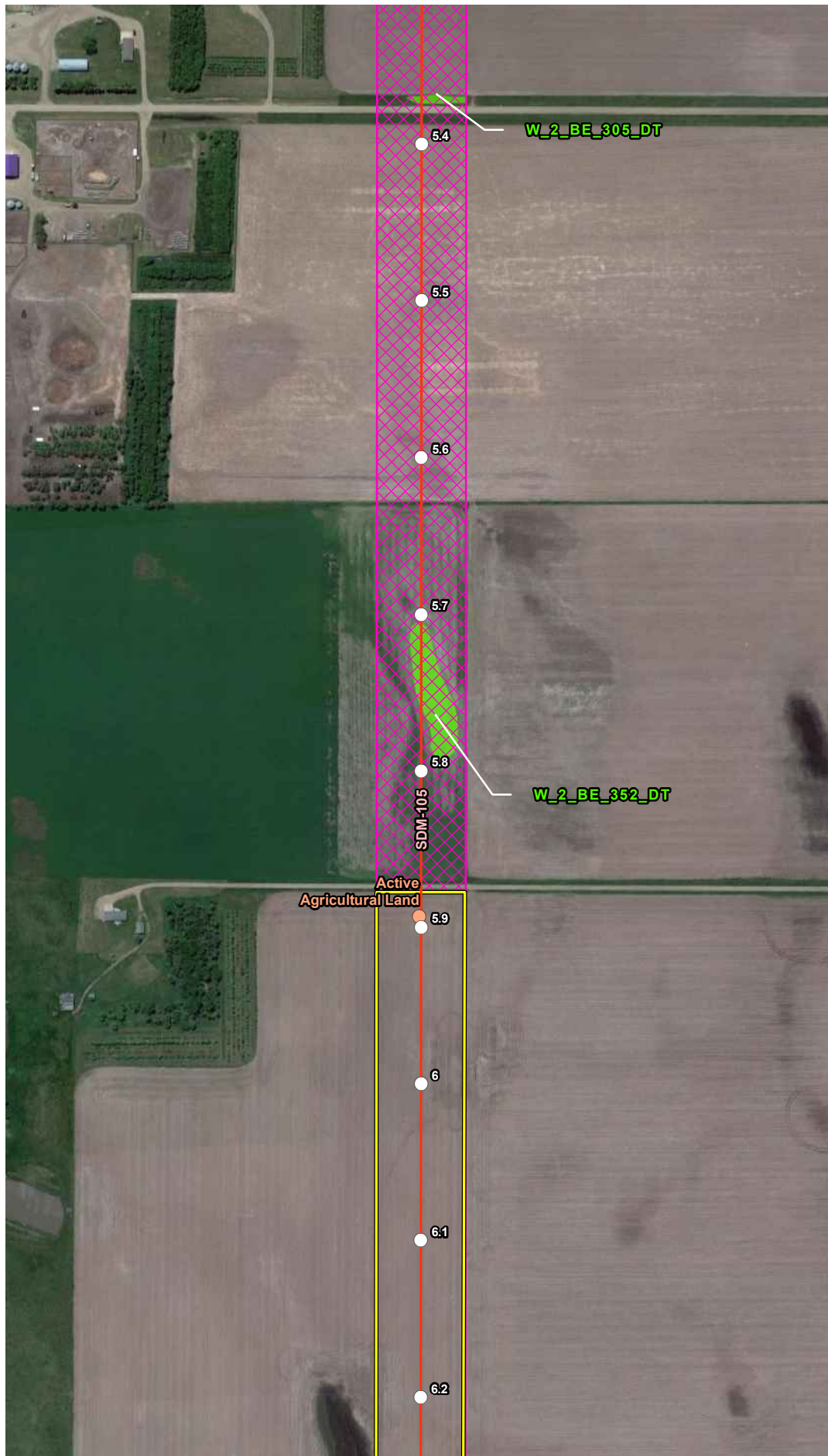
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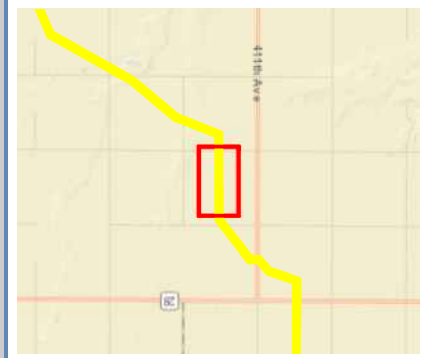
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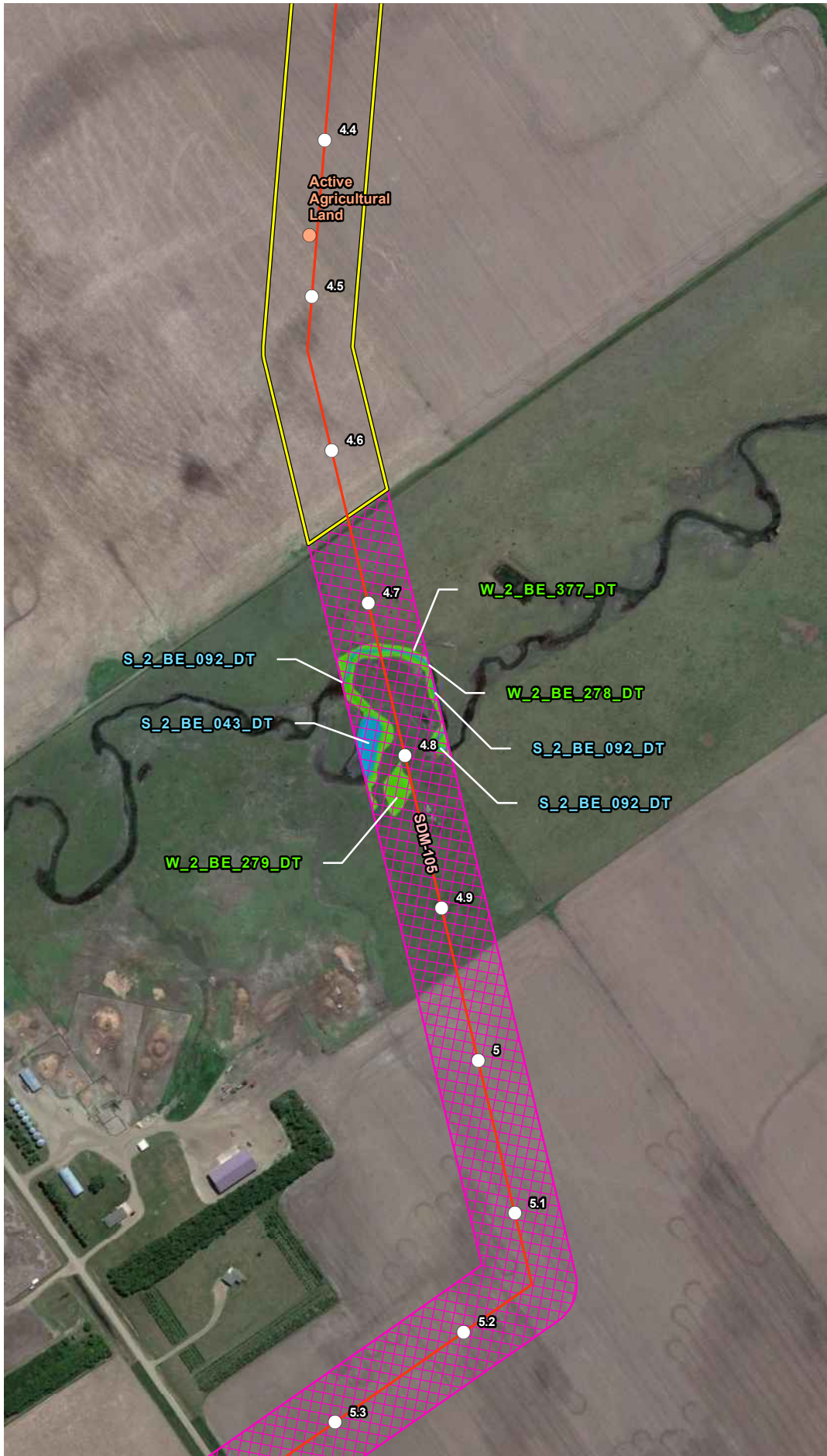
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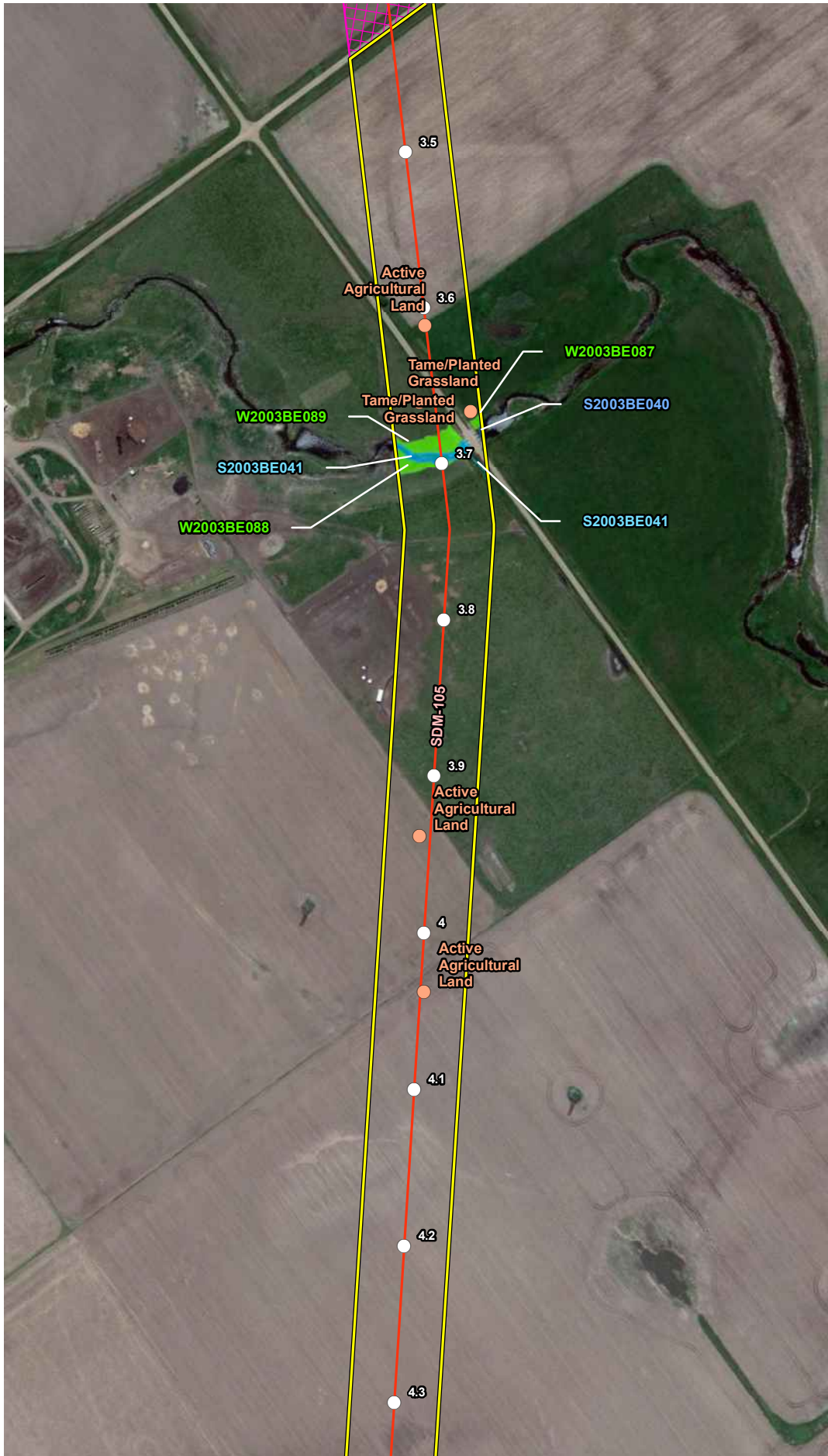
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Sheet:
139
Sheet 139 of 517

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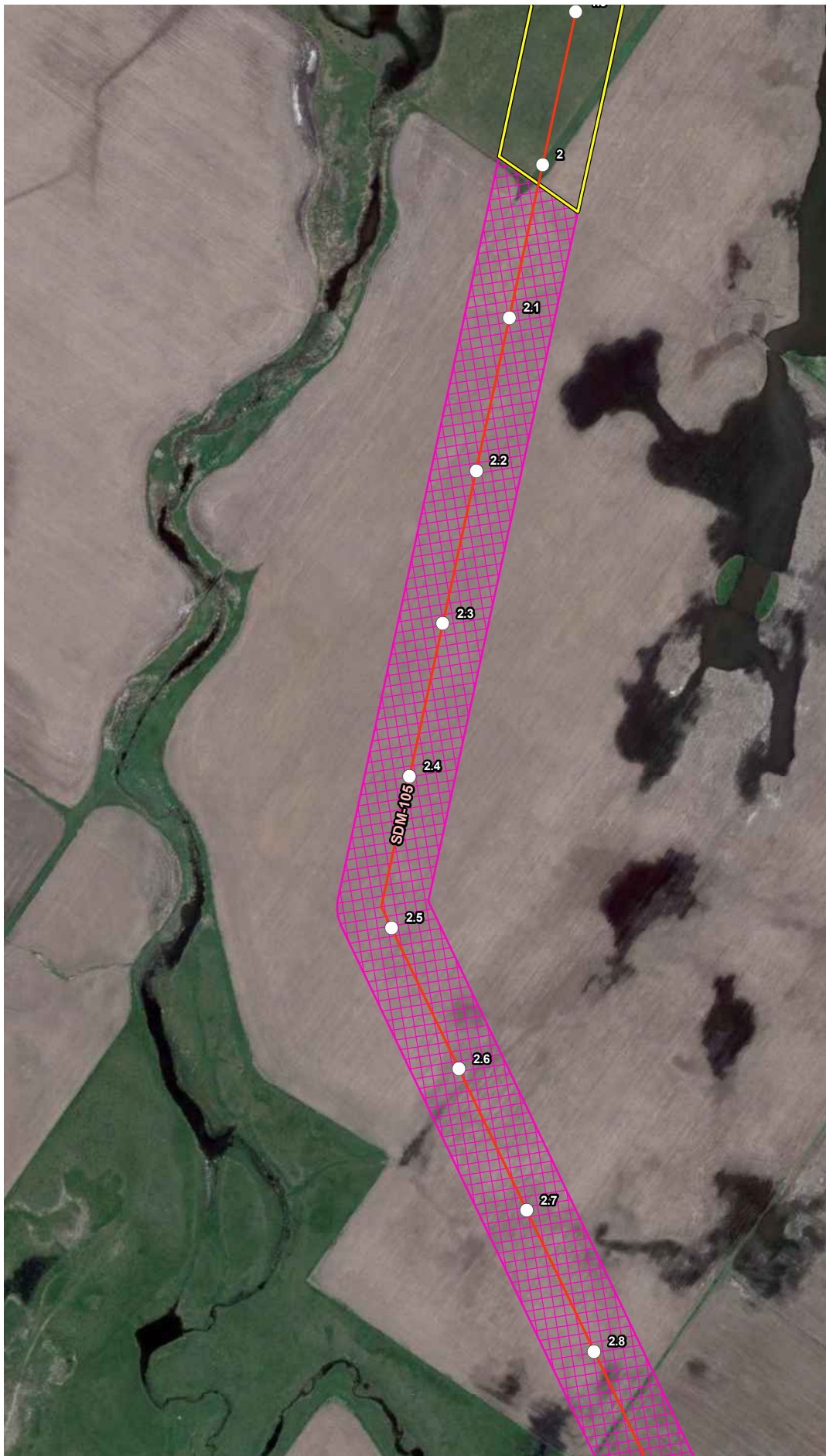
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Sheet:
140
Sheet 140 of 517

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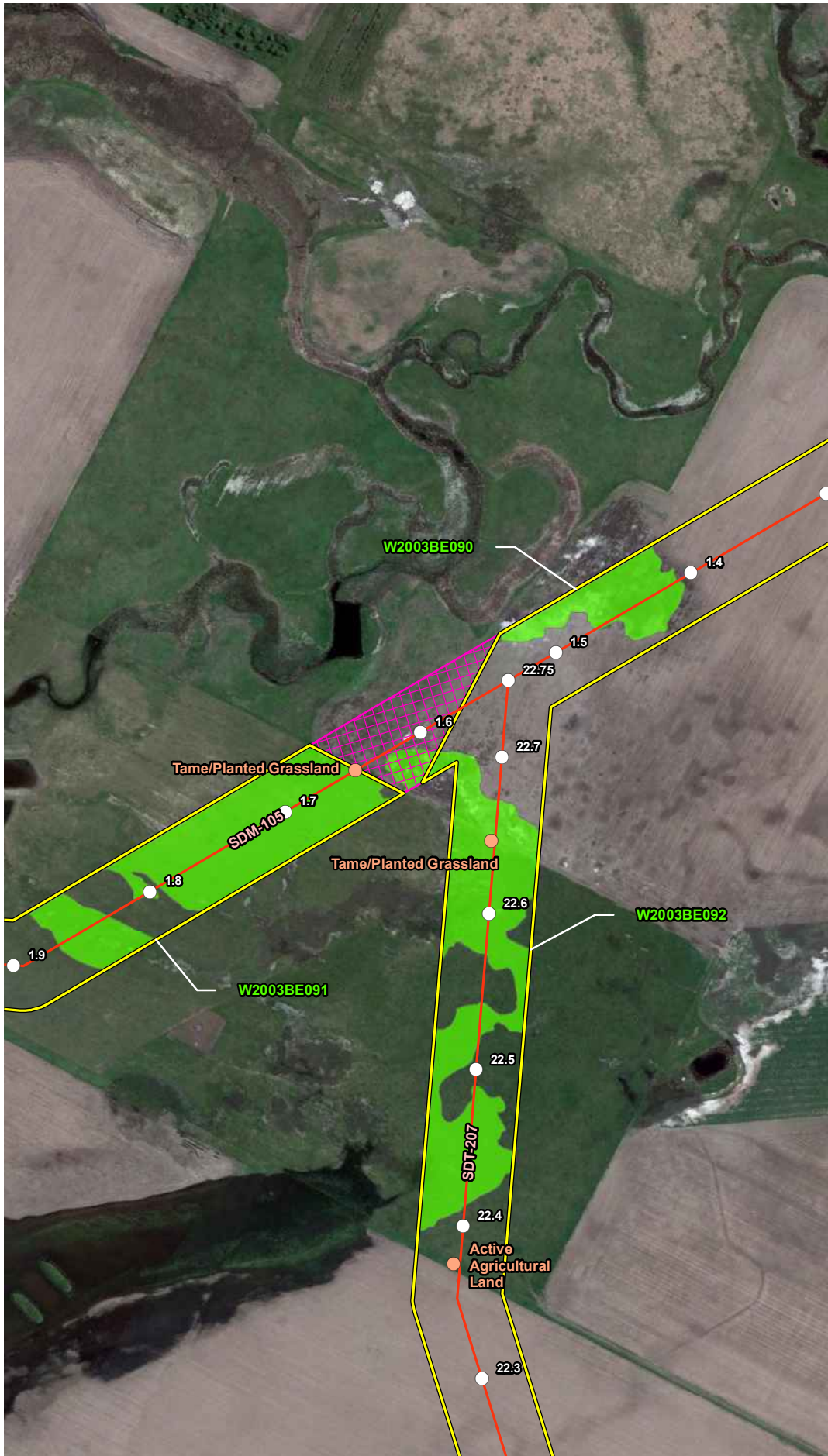
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Sheet:
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0 250 500 Feet



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Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

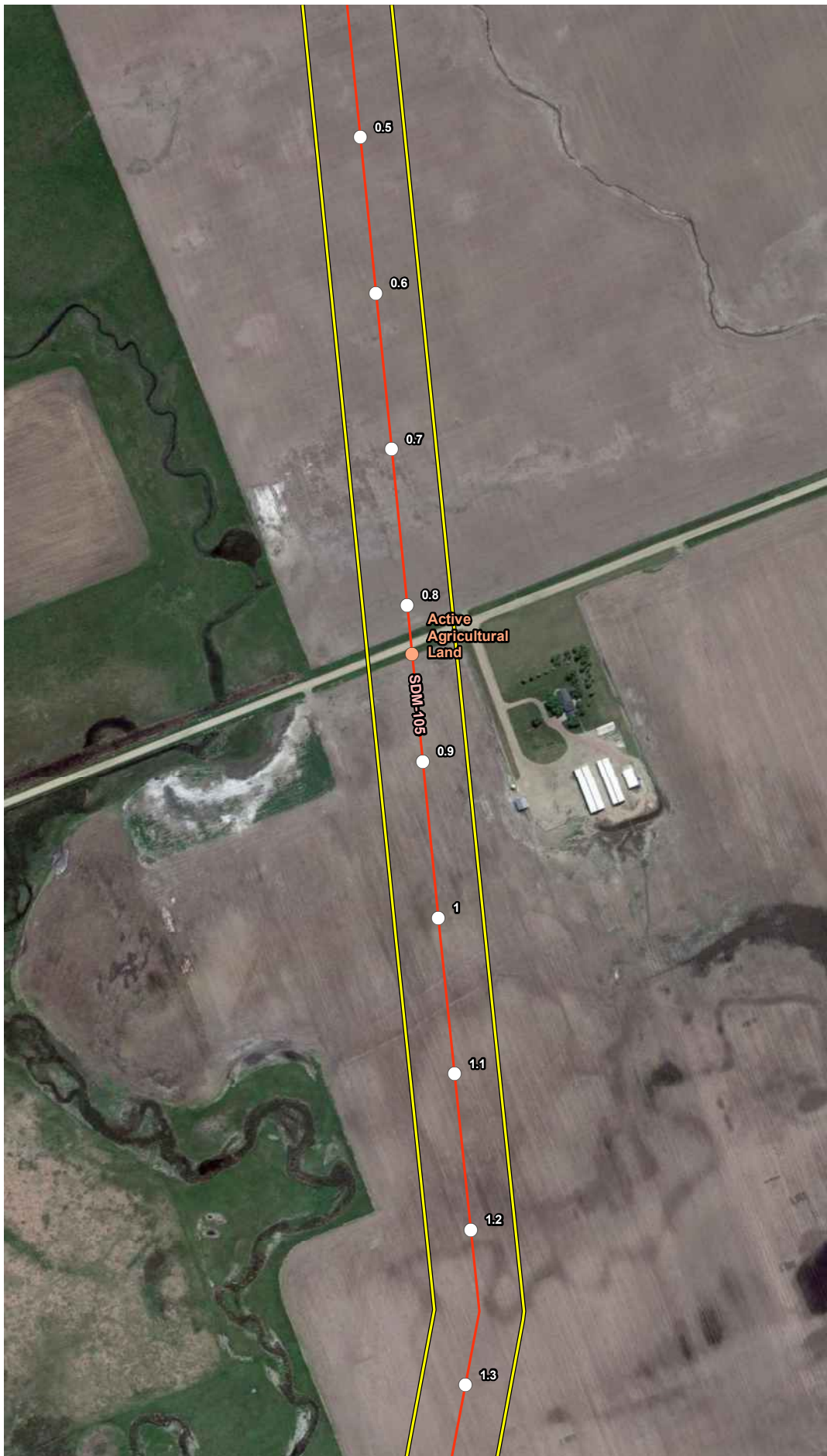
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NAD 1983 UTM Zone 14N

Sheet:
142
Sheet 142 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
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0 250 500 Feet



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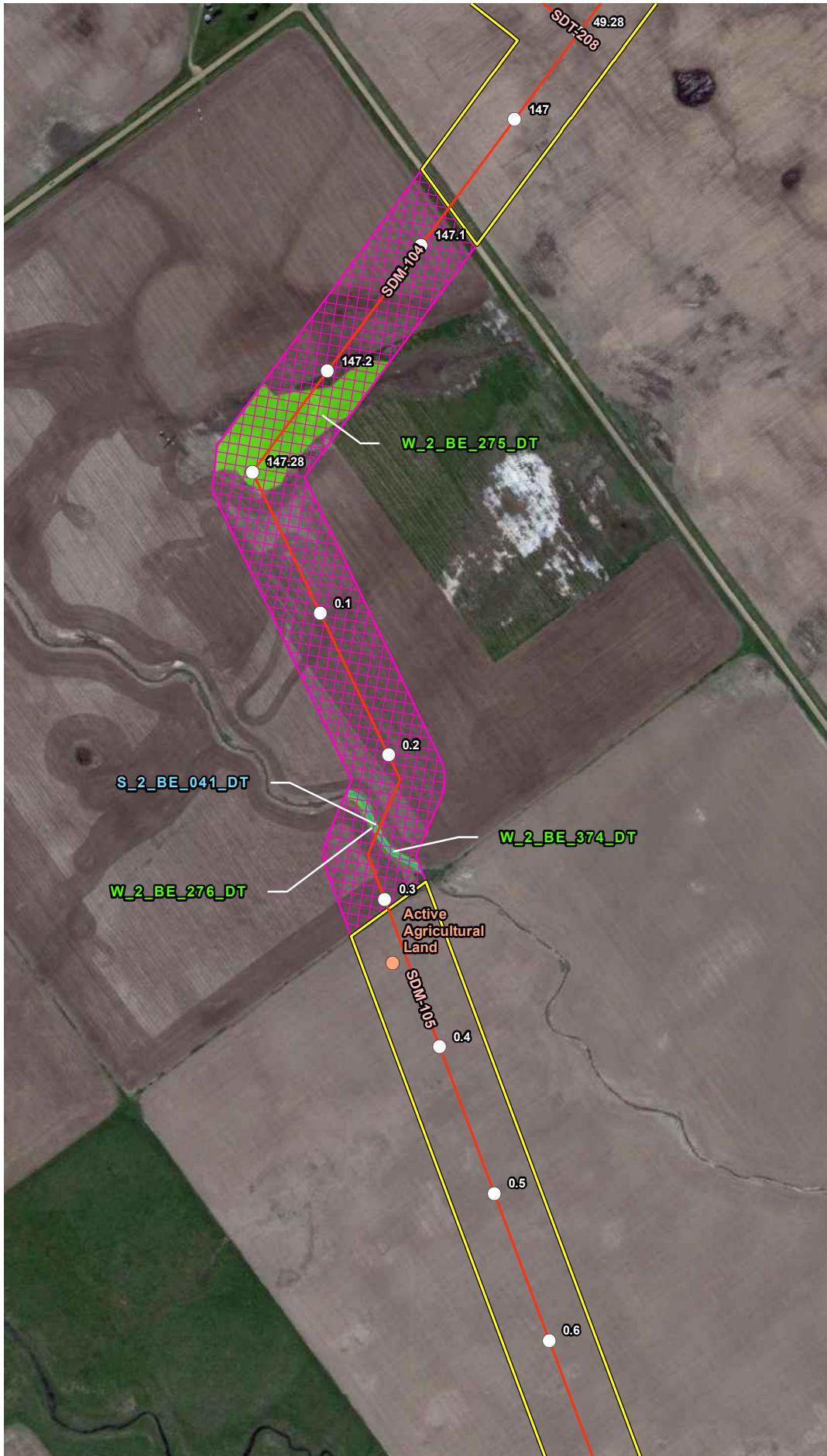
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Sheet 143 of 517

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AERIAL MAP

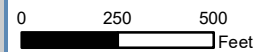


VICINITY MAP



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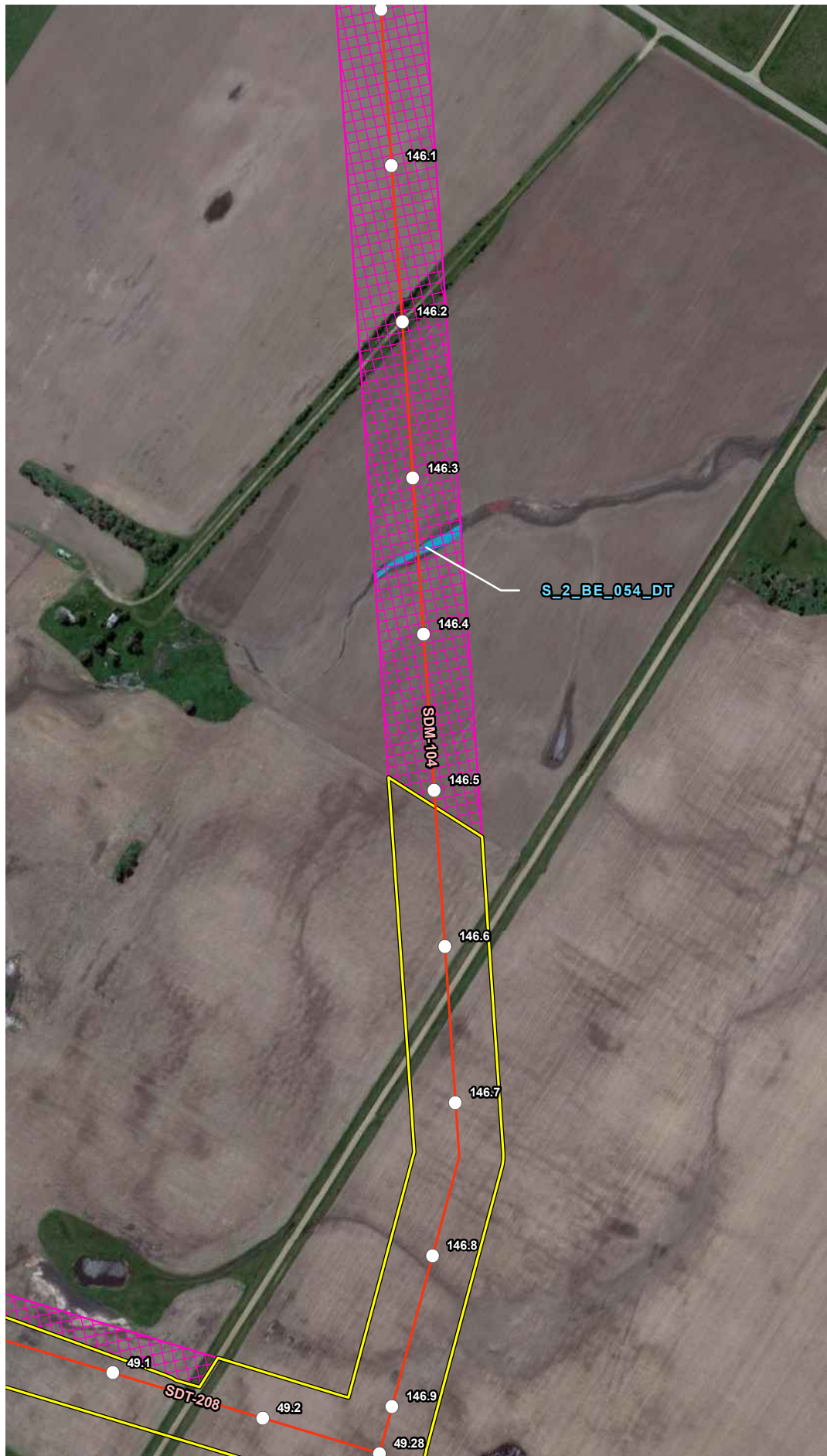
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Sheet 144 of 517

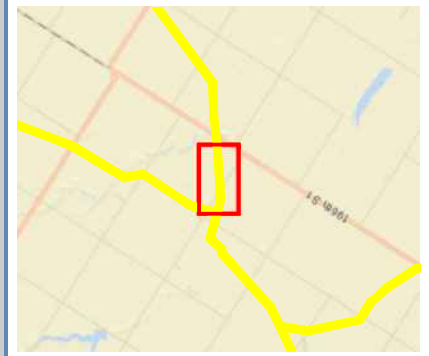
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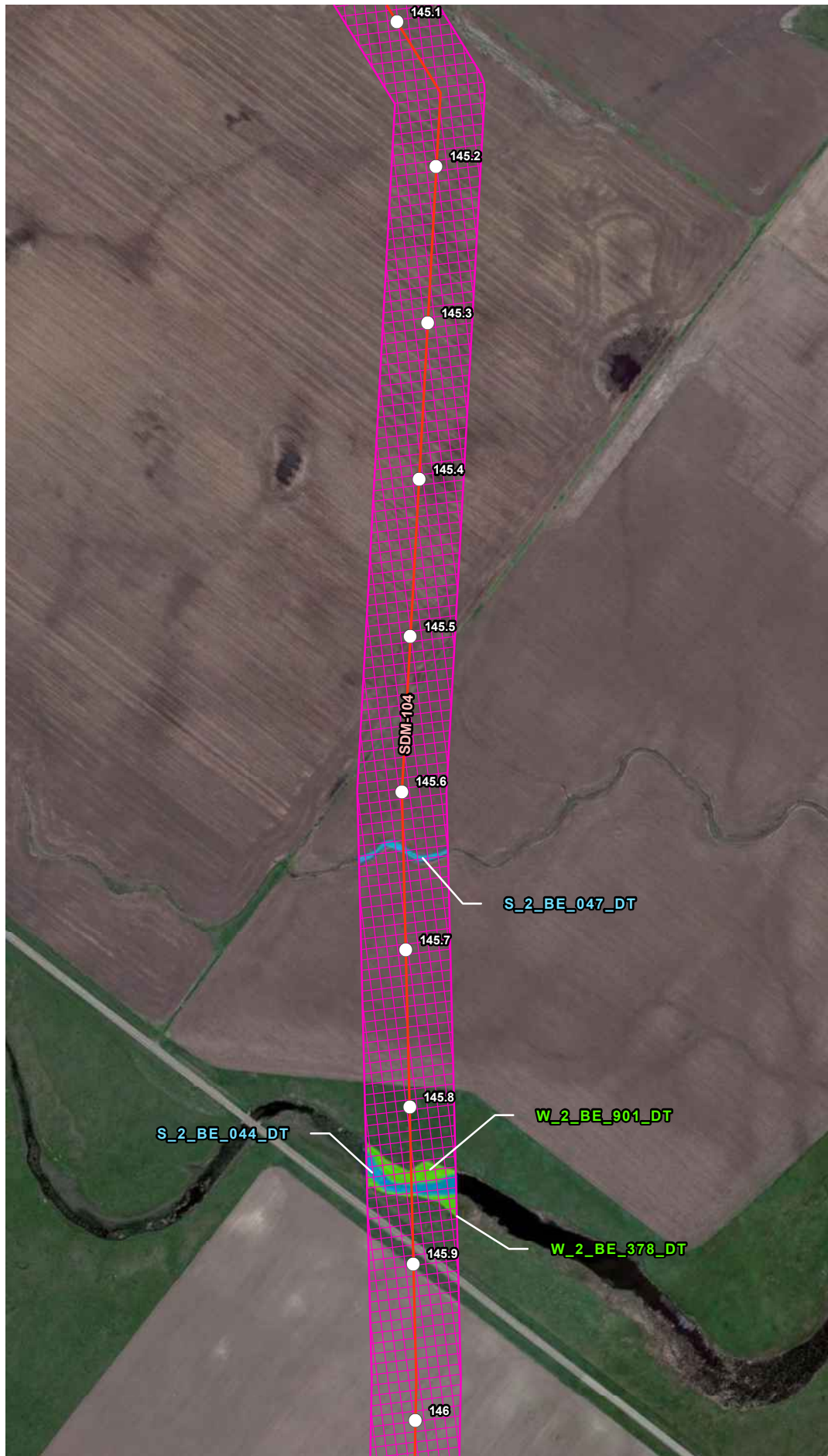
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Sheet:
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Sheet 145 of 517

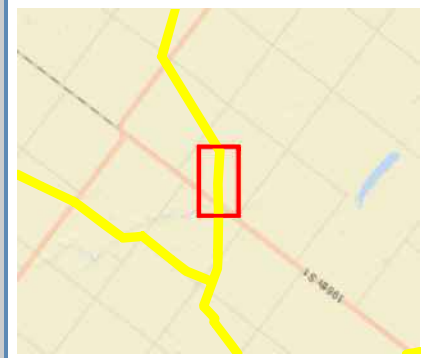
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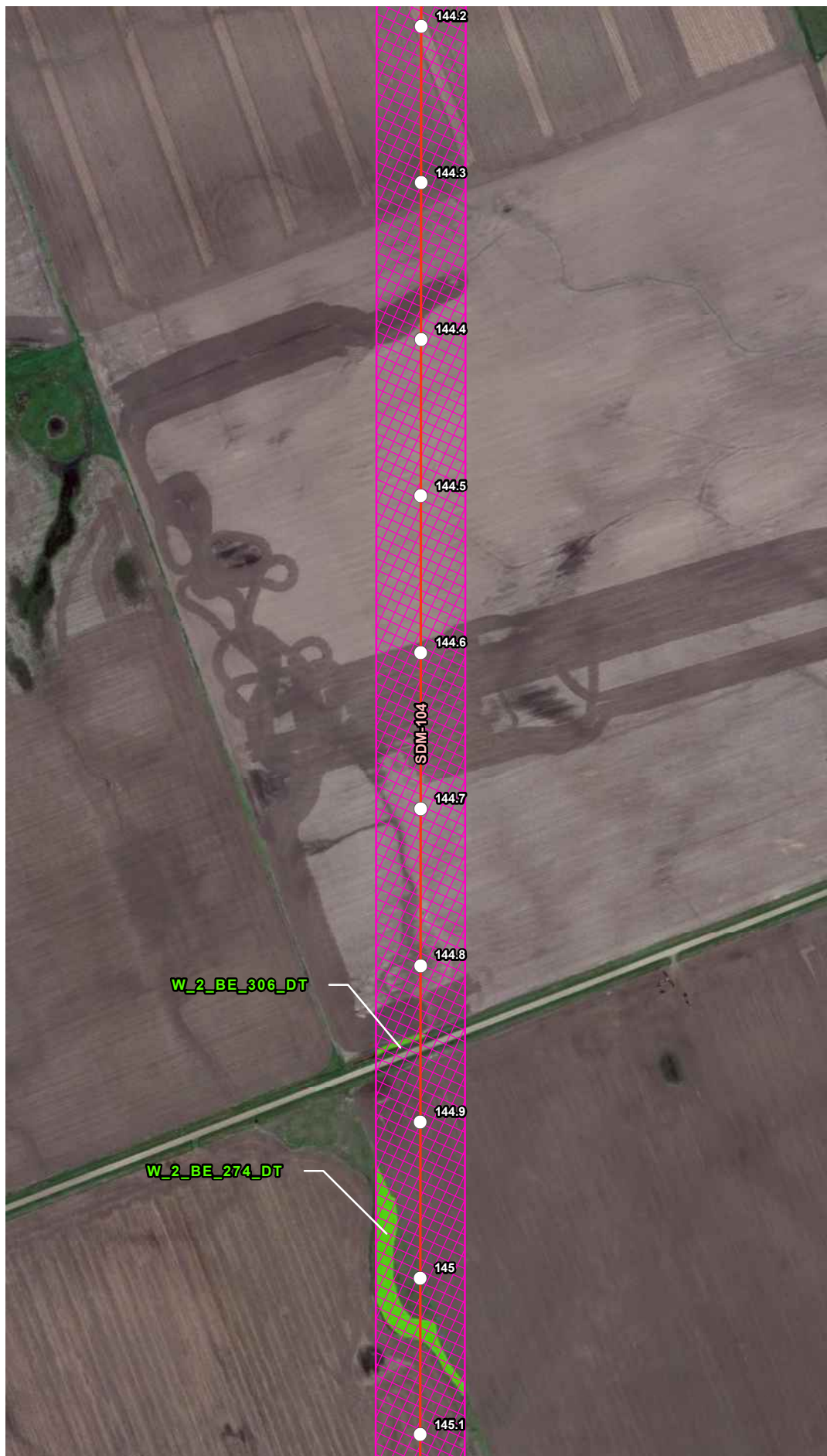
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Sheet:
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Sheet 146 of 517

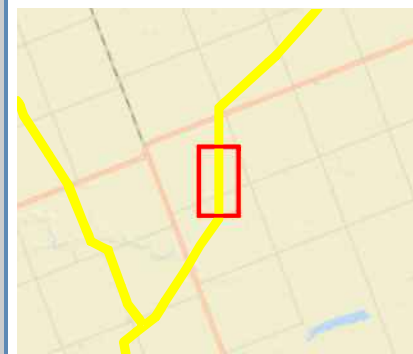
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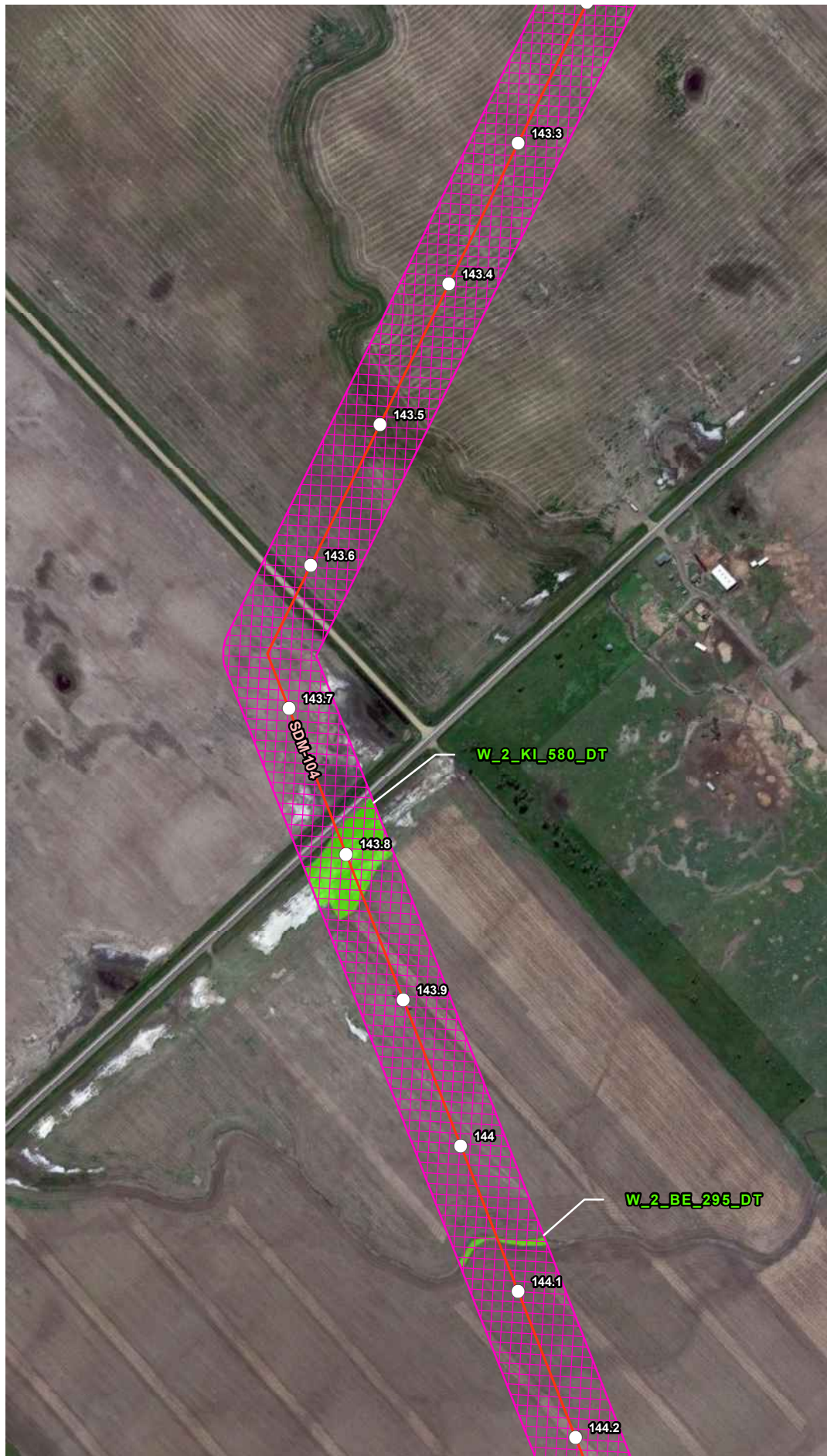
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Sheet:
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Sheet 147 of 517

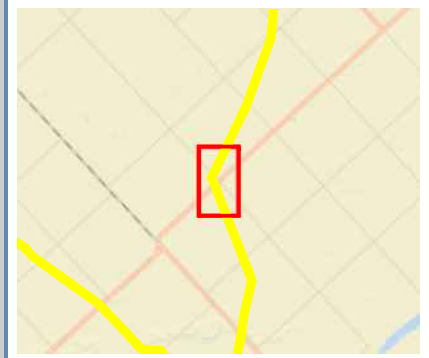
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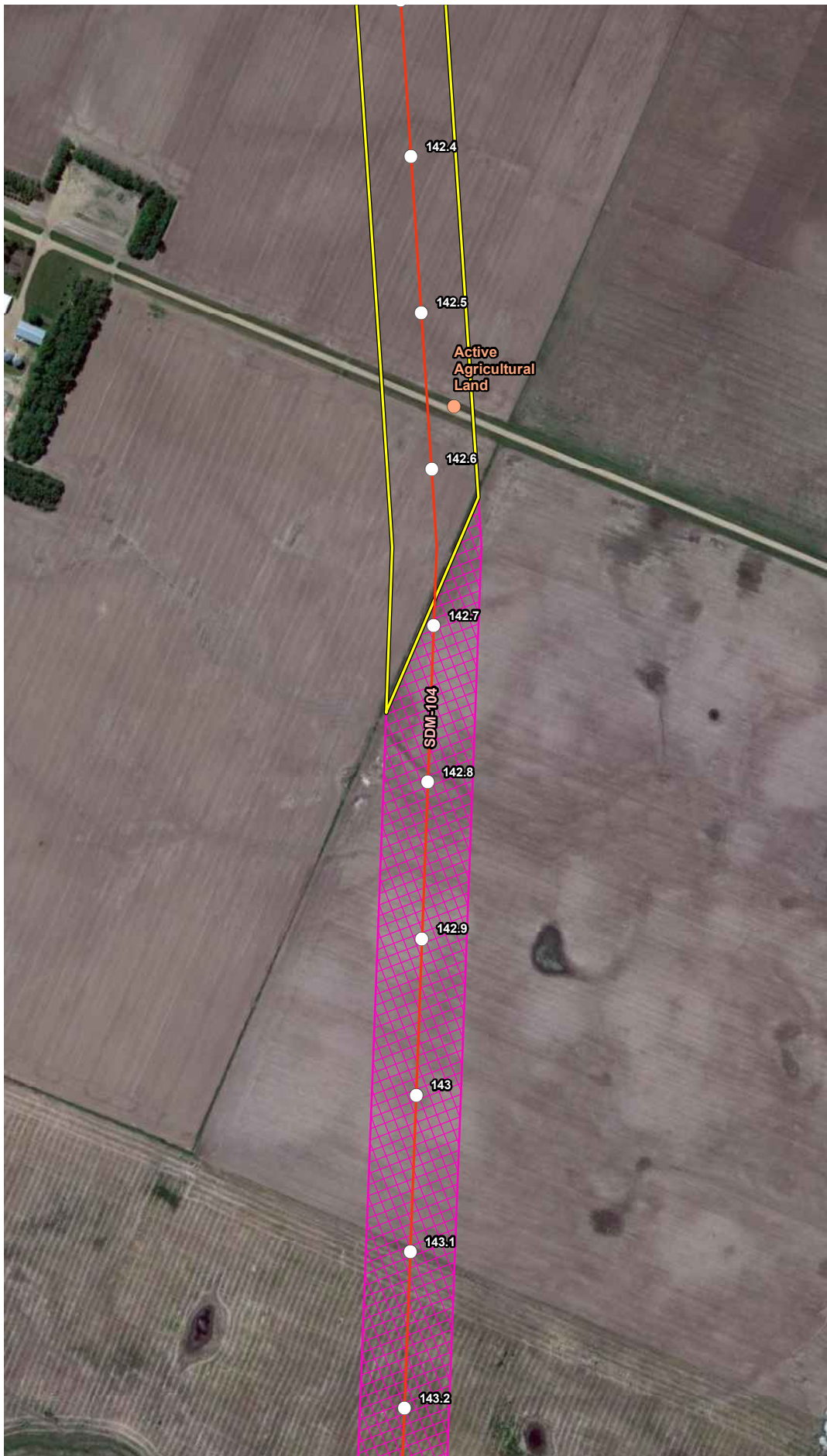
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Sheet:
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Sheet 148 of 517

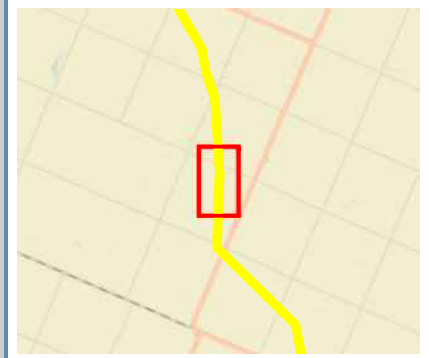
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Sheet:
149
Sheet 149 of 517

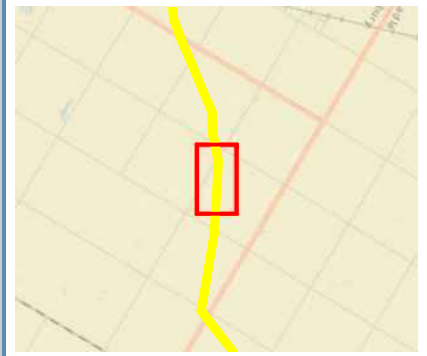
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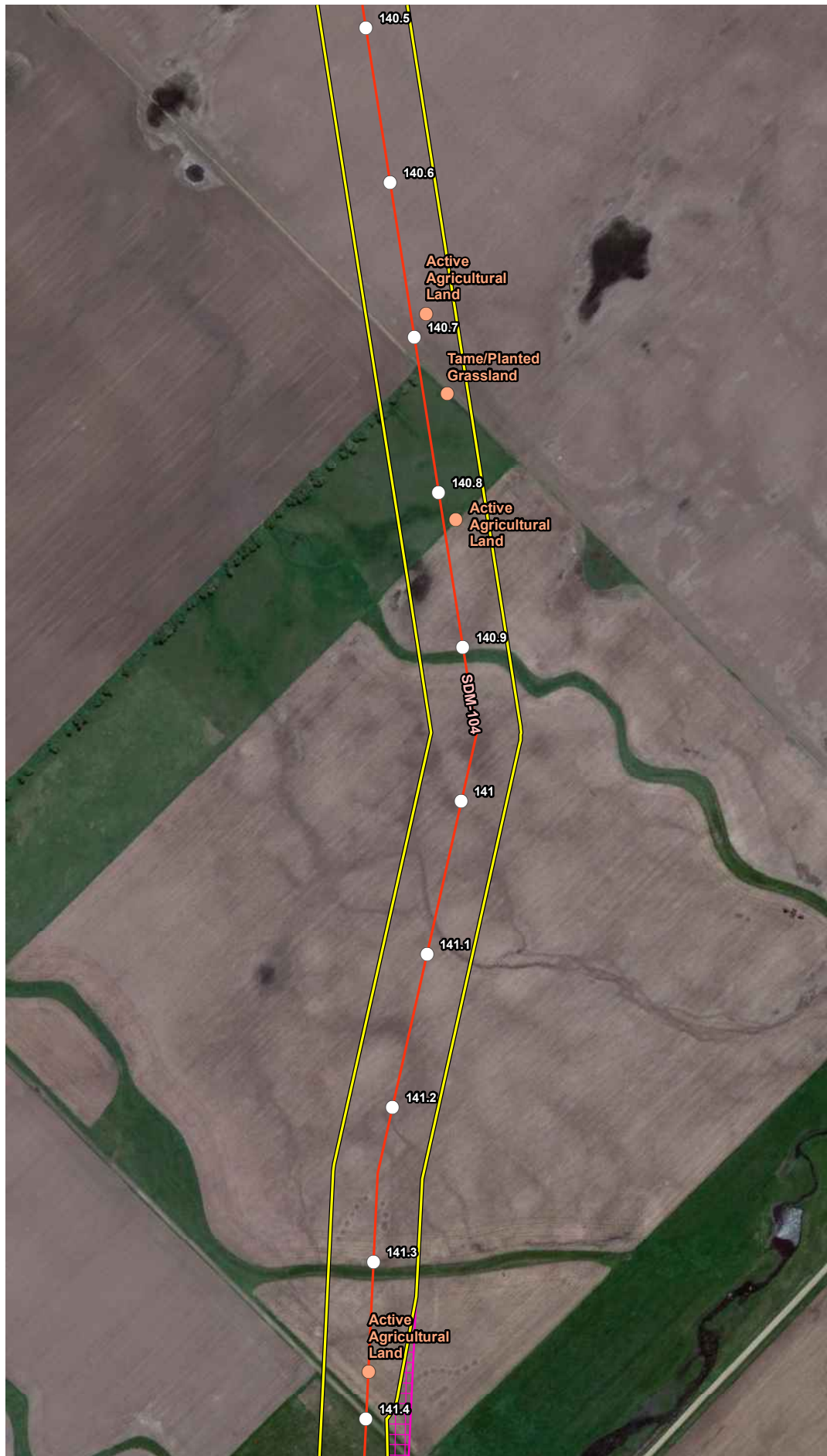
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Sheet 150 of 517

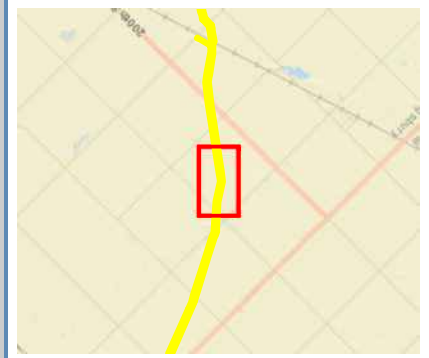
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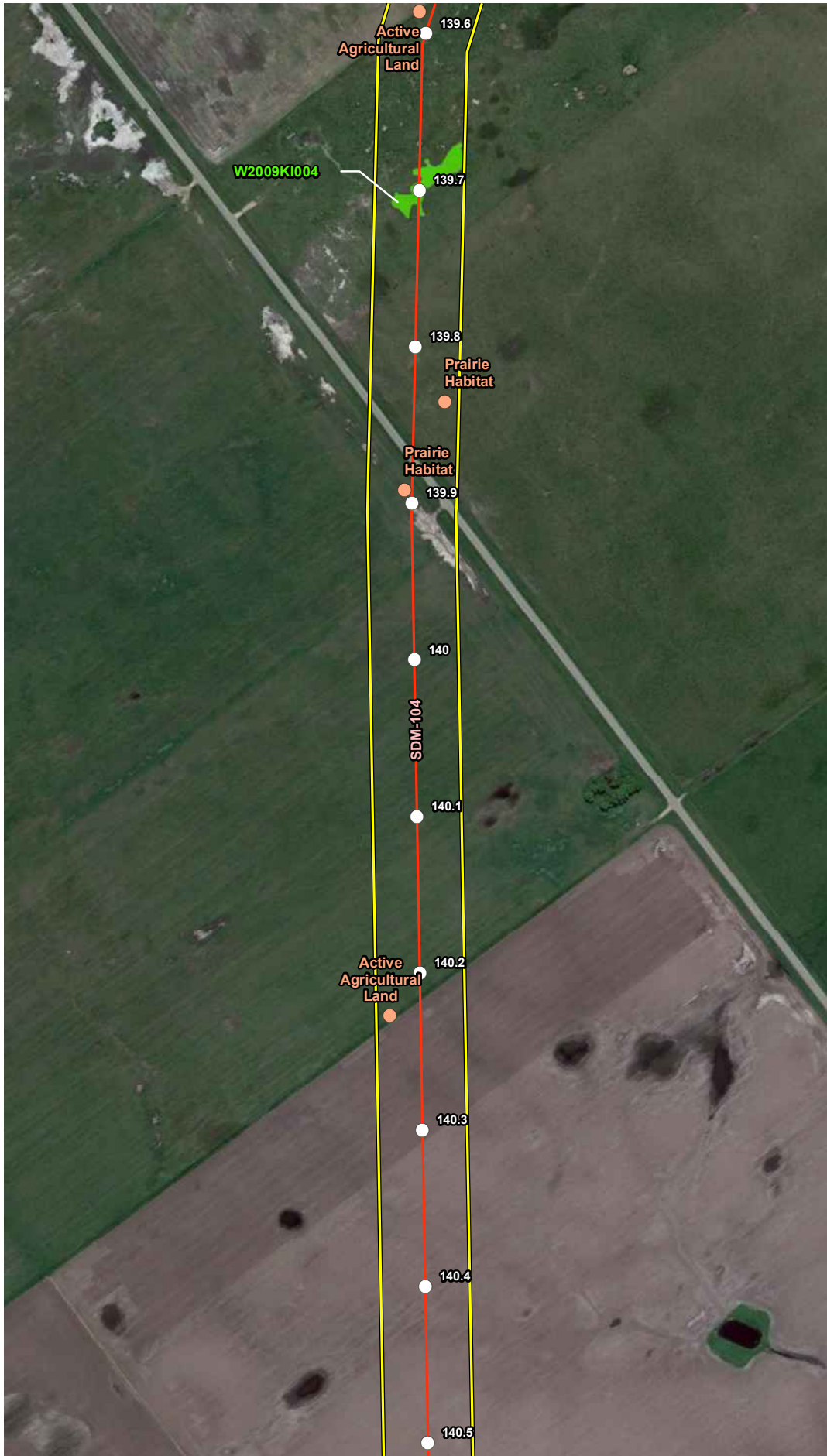
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Sheet 151 of 517

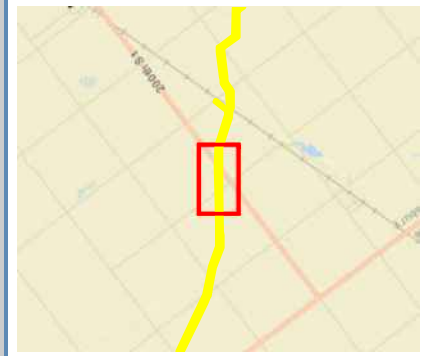
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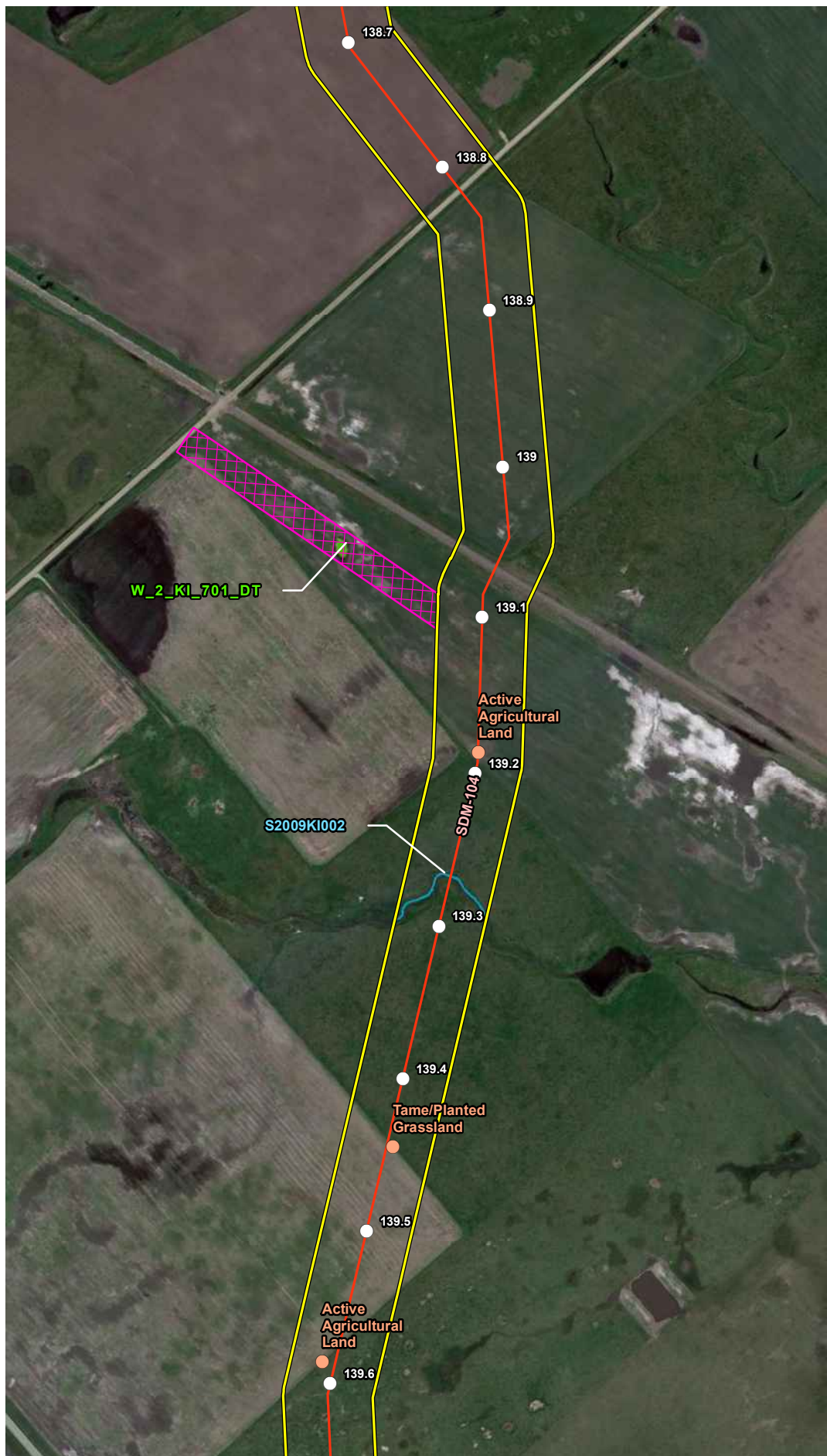
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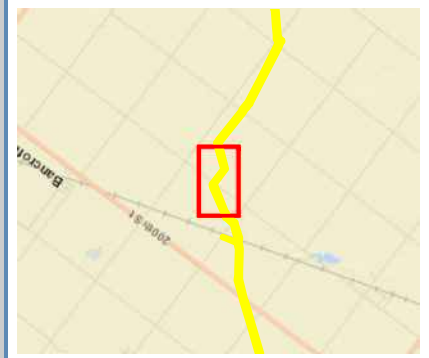
Sheet:
153
Sheet 153 of 517

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Sheet 154 of 517

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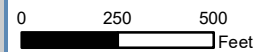


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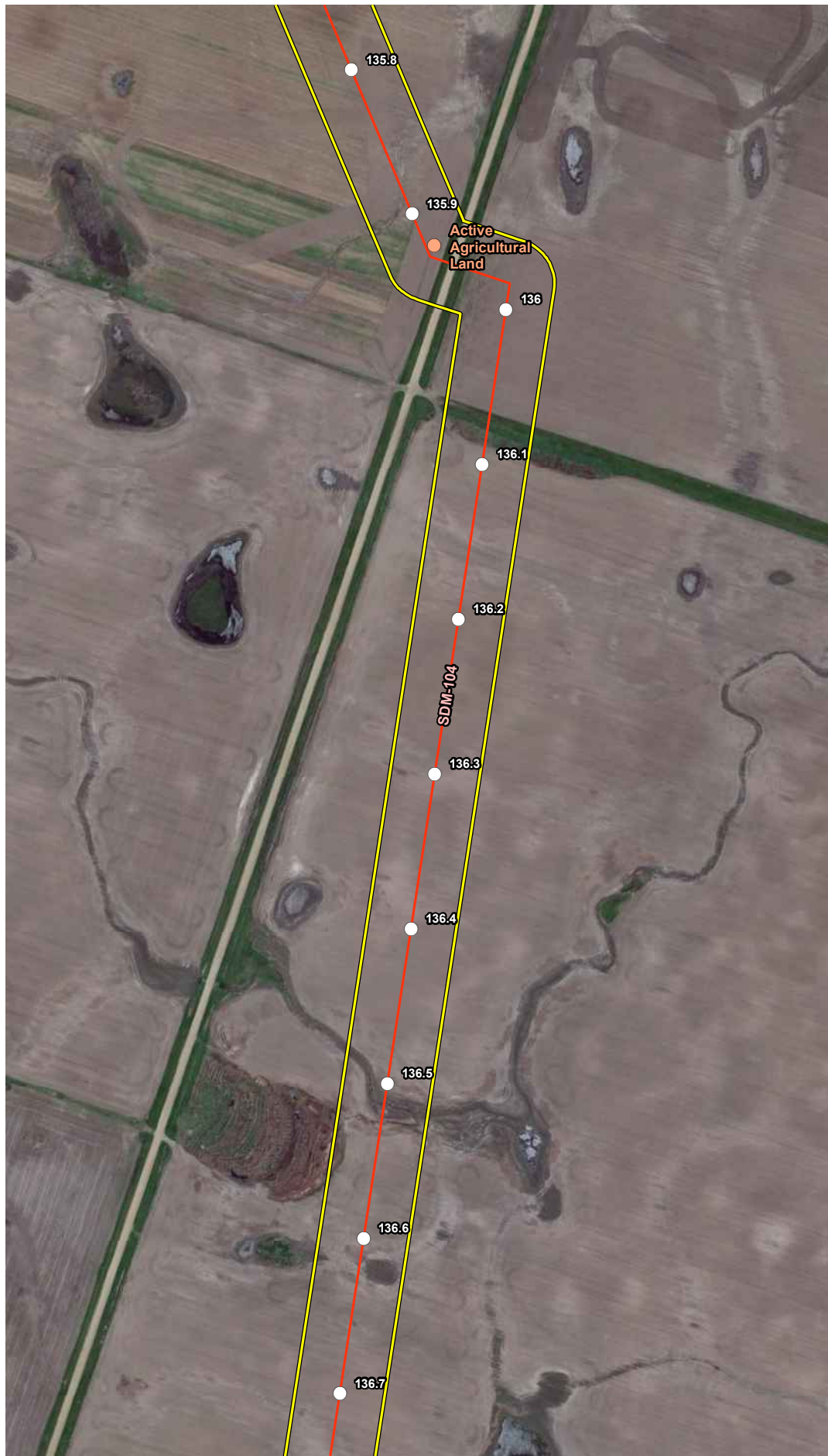
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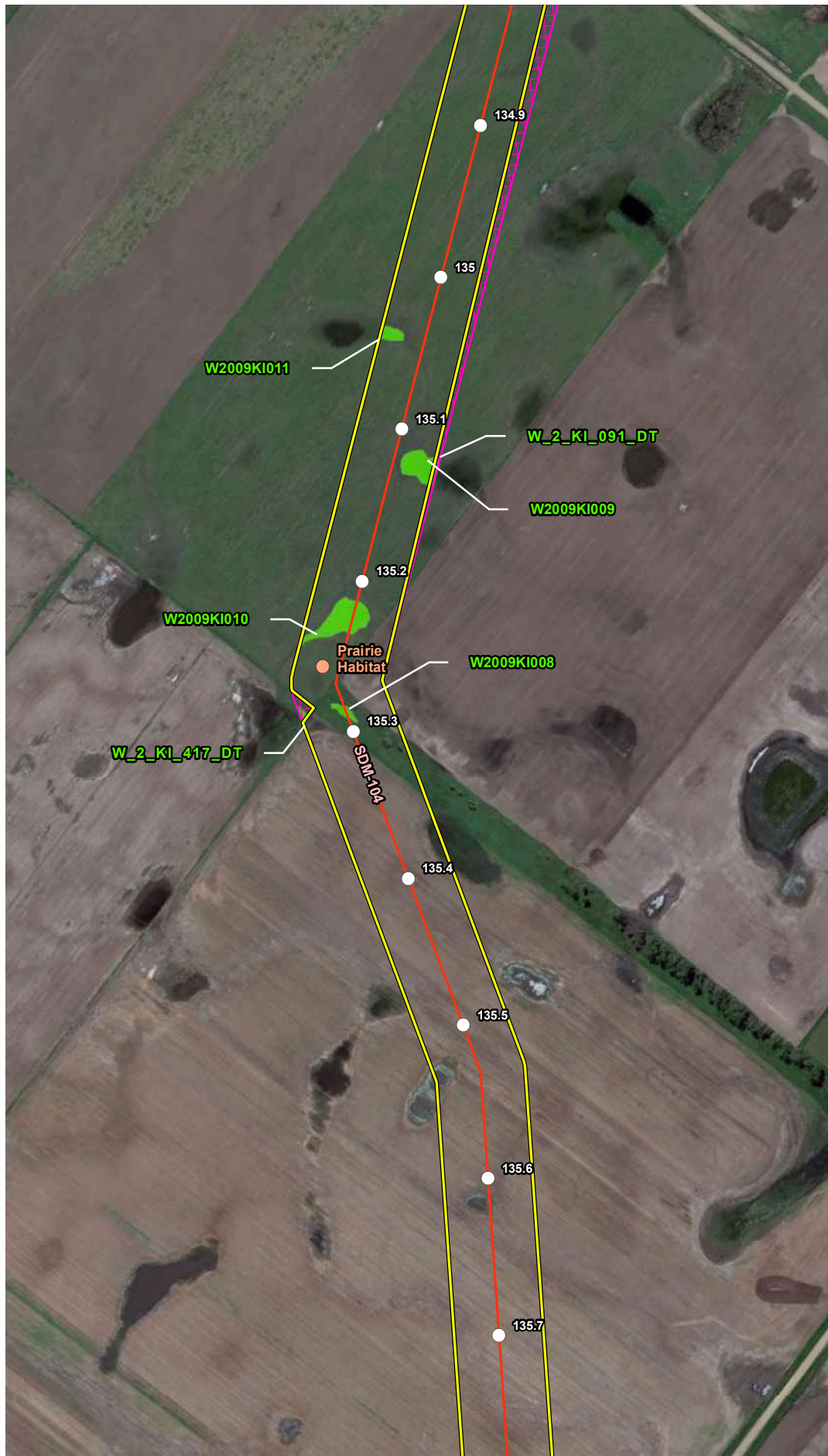
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VICINITY MAP



LEGEND

- Milepost
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- Stream
- Open Water
- PEM Wetland
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- State Boundary

0 250 500 Feet



REVISIONS

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Revision description		
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Figure Number:
2

Scale:
Scale: 1:6,000
1 inch = 500 feet

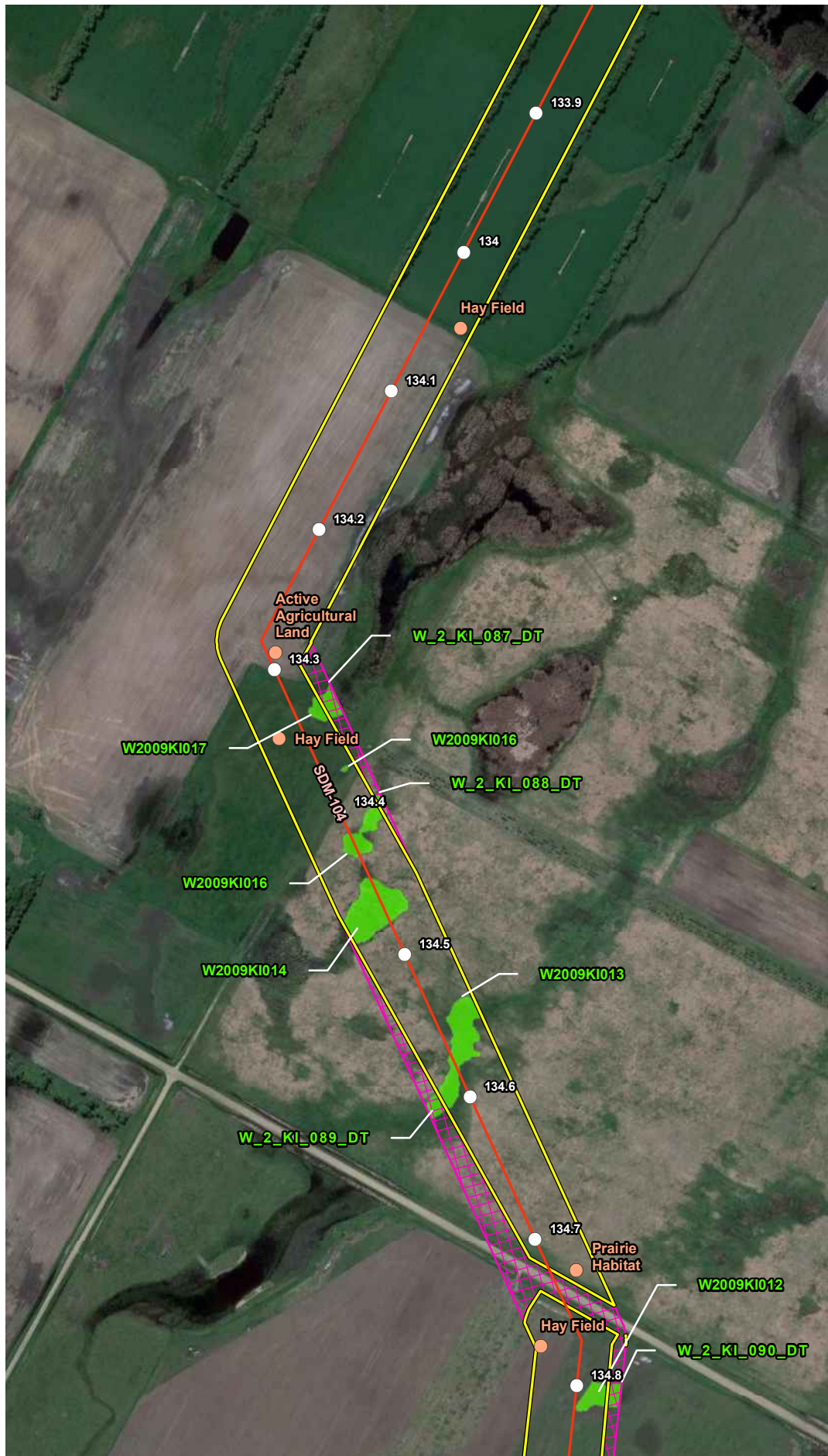
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 157 of 517

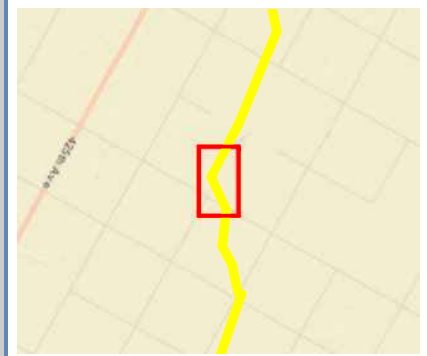
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
158
Sheet 158 of 517

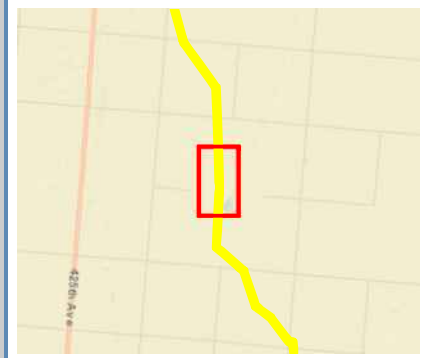
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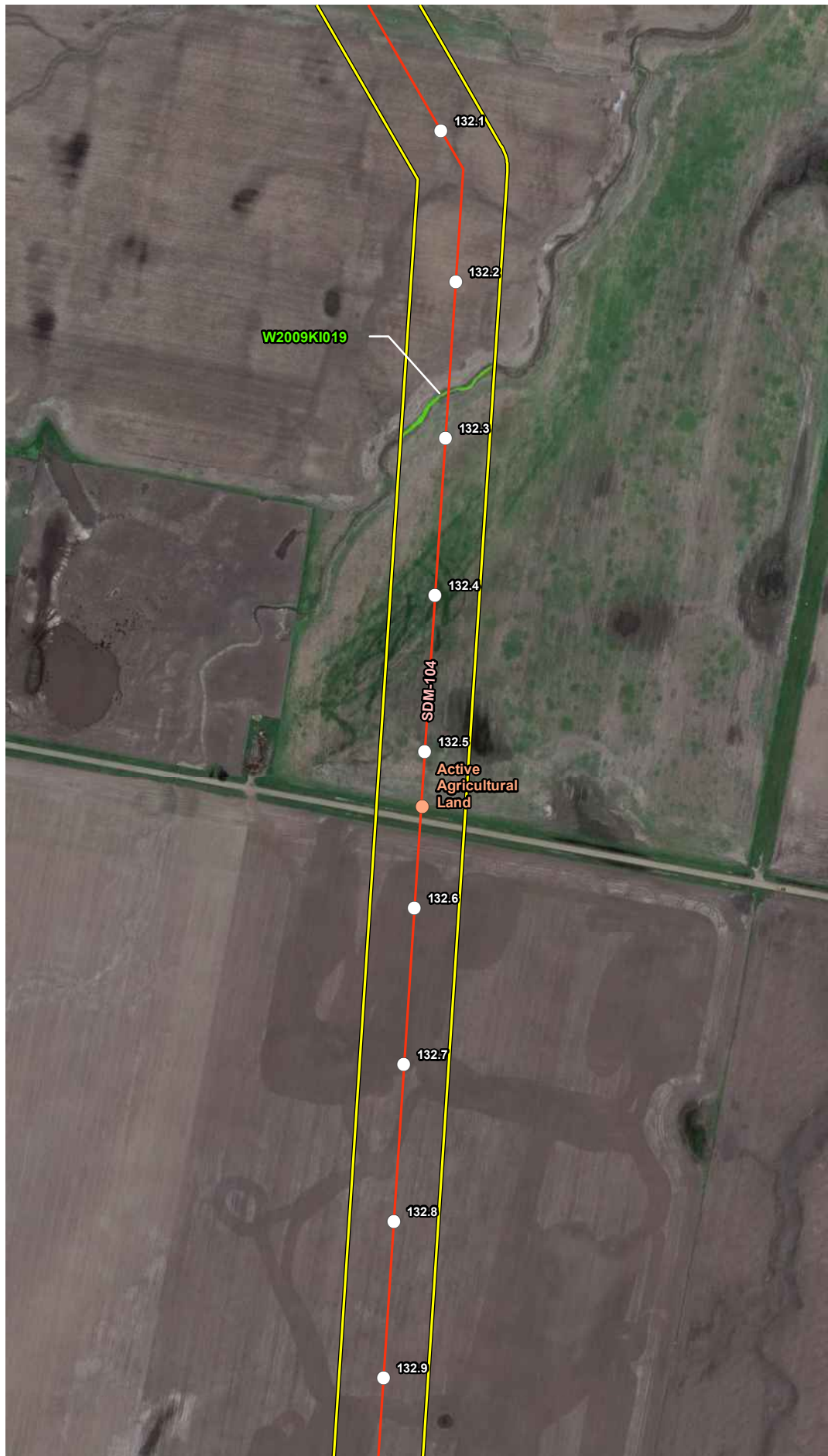
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 1 inch = 500 feet

Projection:
 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 159
 Sheet 159 of 517

Drawing Number:
 2001-21-002
 Current Revision

AERIAL MAP



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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
160
Sheet 160 of 517

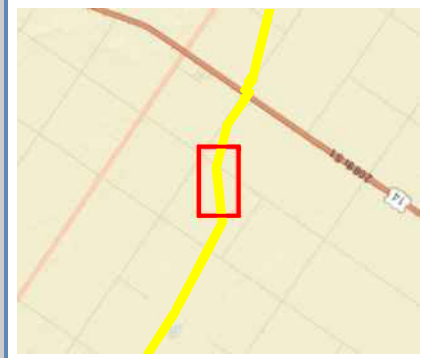
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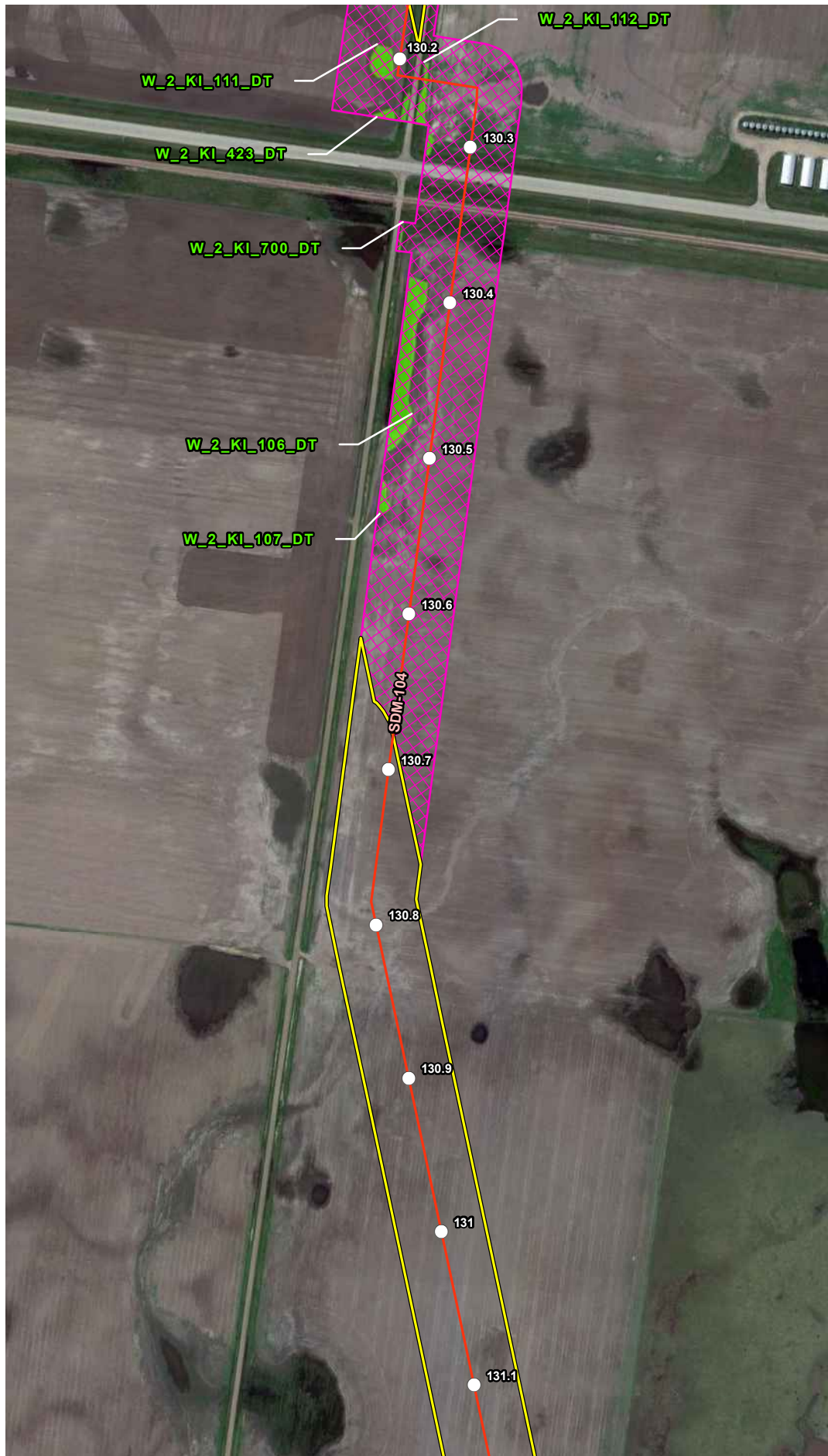
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Sheet:
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Sheet 161 of 517

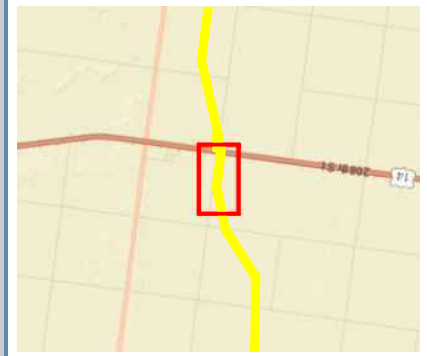
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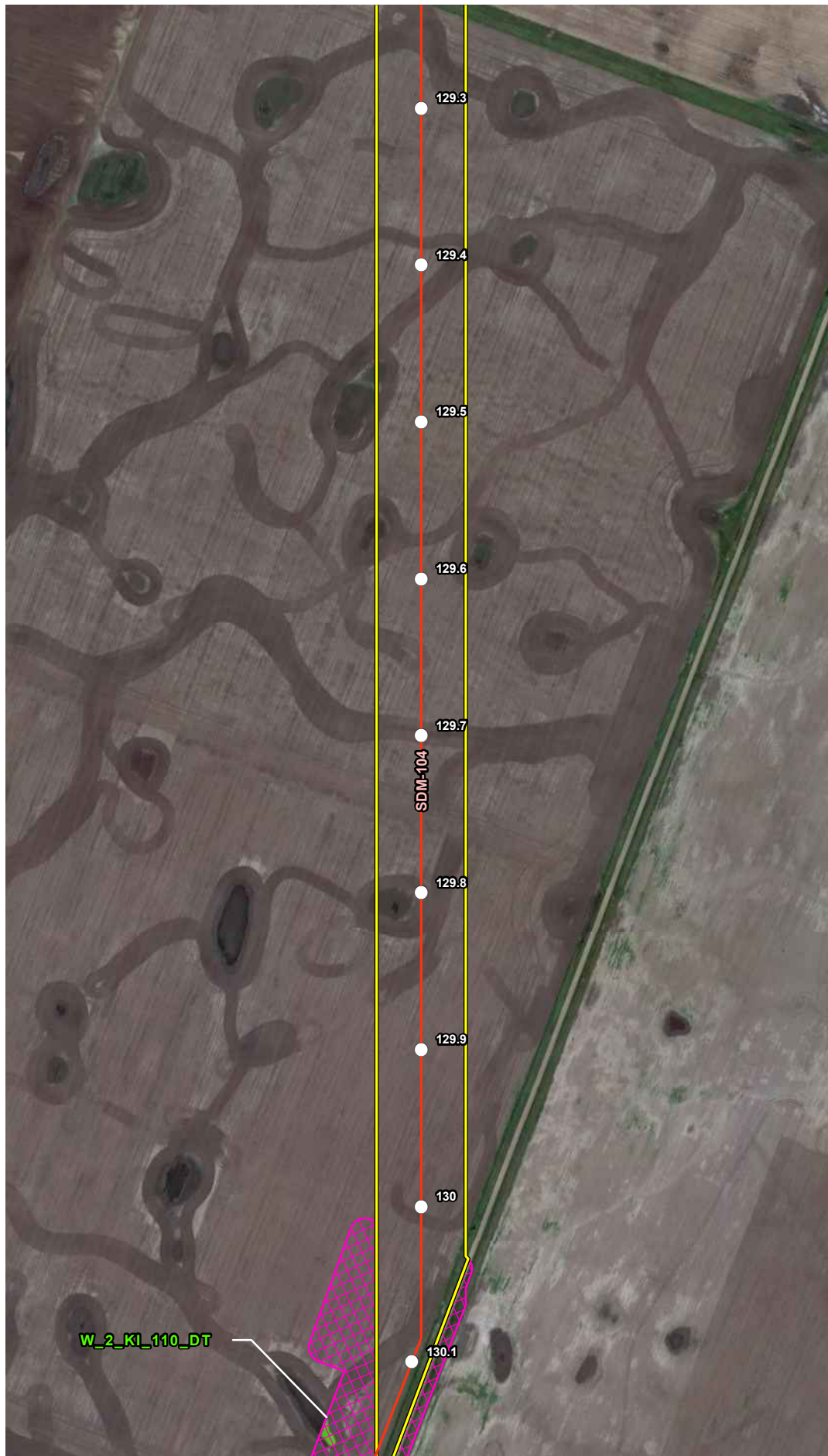
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Sheet 162 of 517

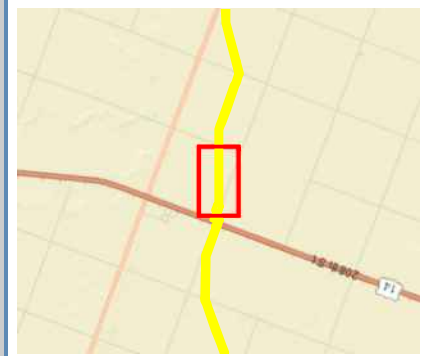
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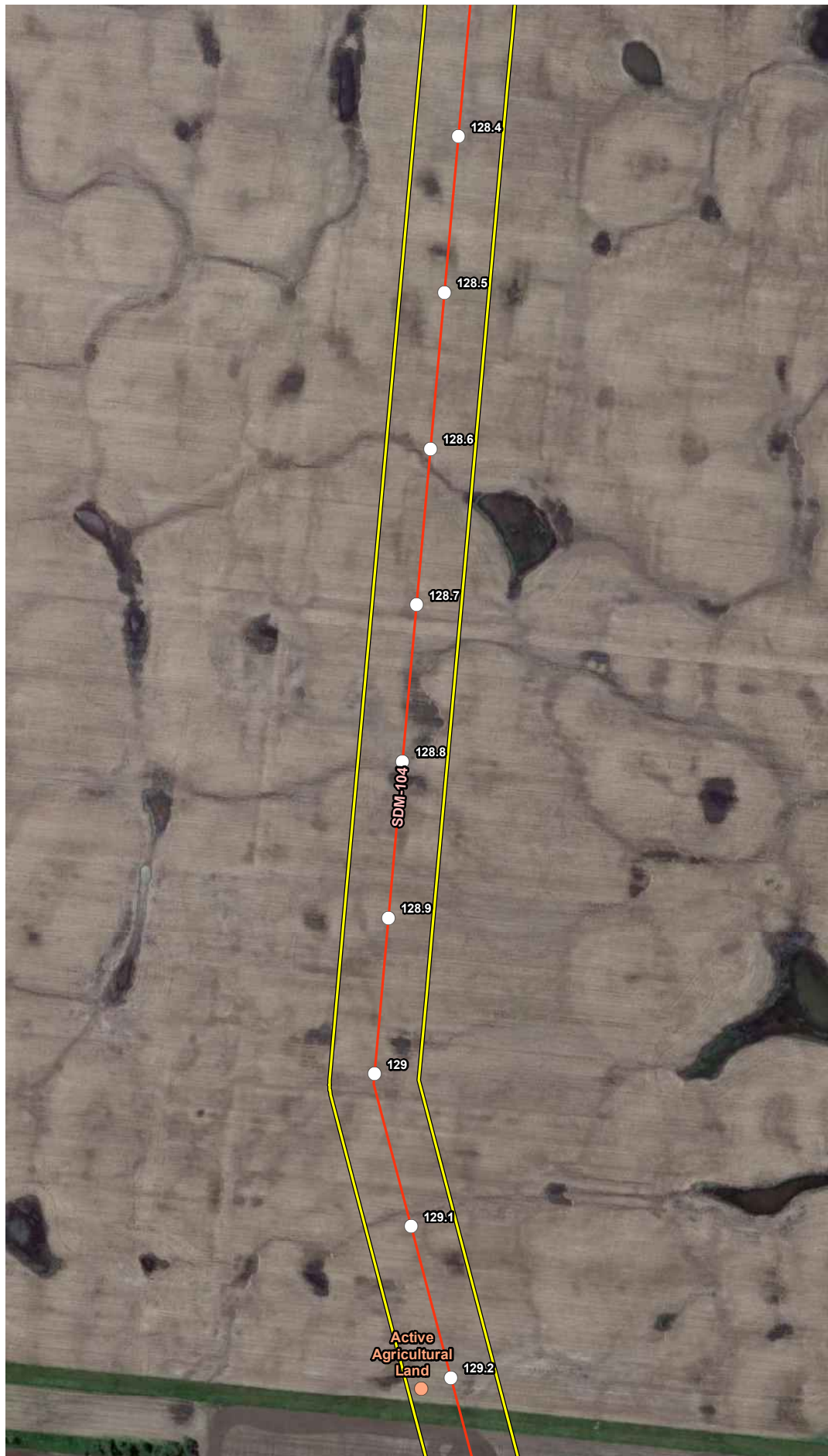
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NAD 1983 UTM Zone 14N

Sheet:
163
Sheet 163 of 517

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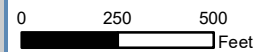


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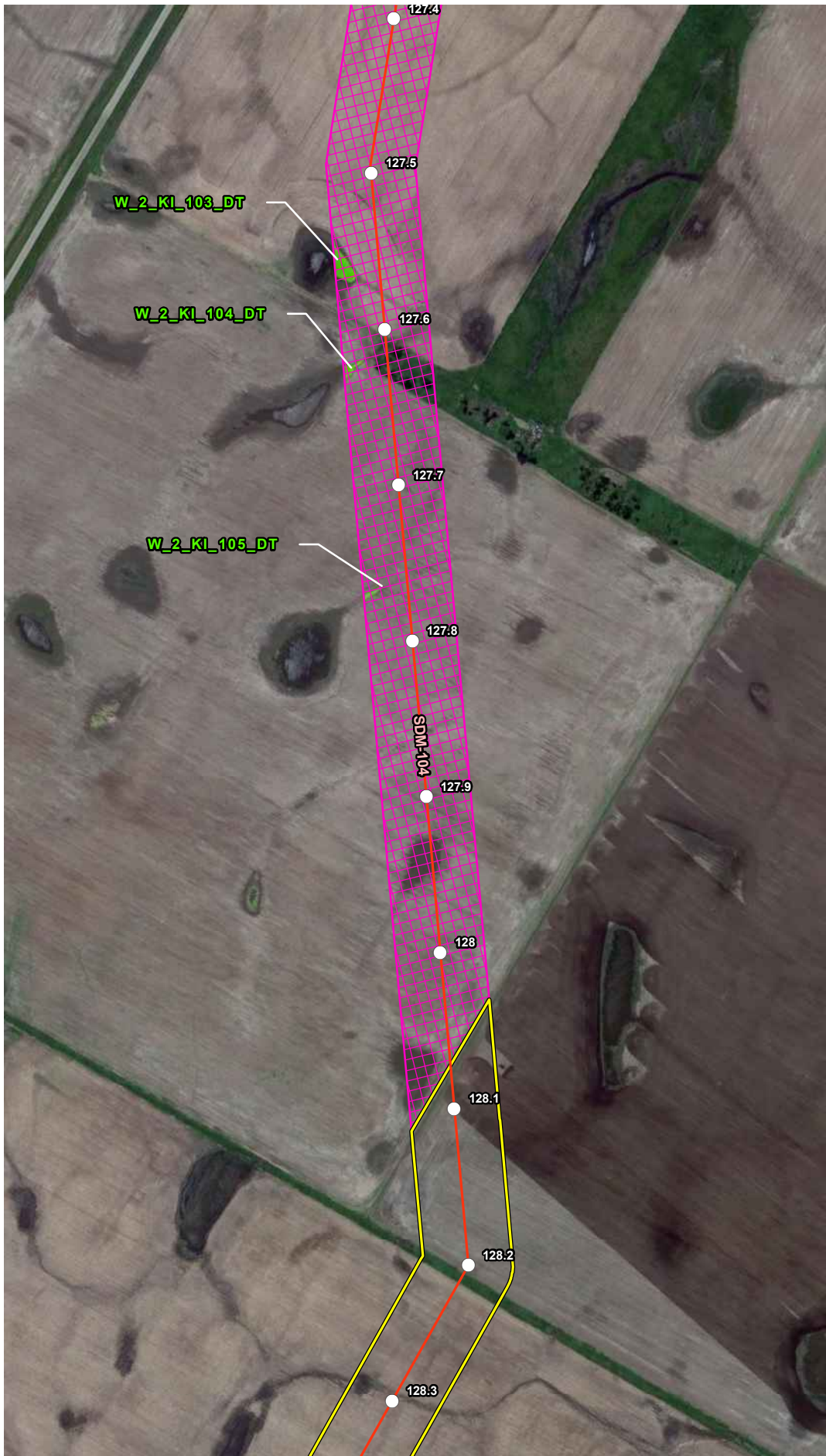
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Sheet:
164
 Sheet 164 of 517

Drawing Number:
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0 250 500
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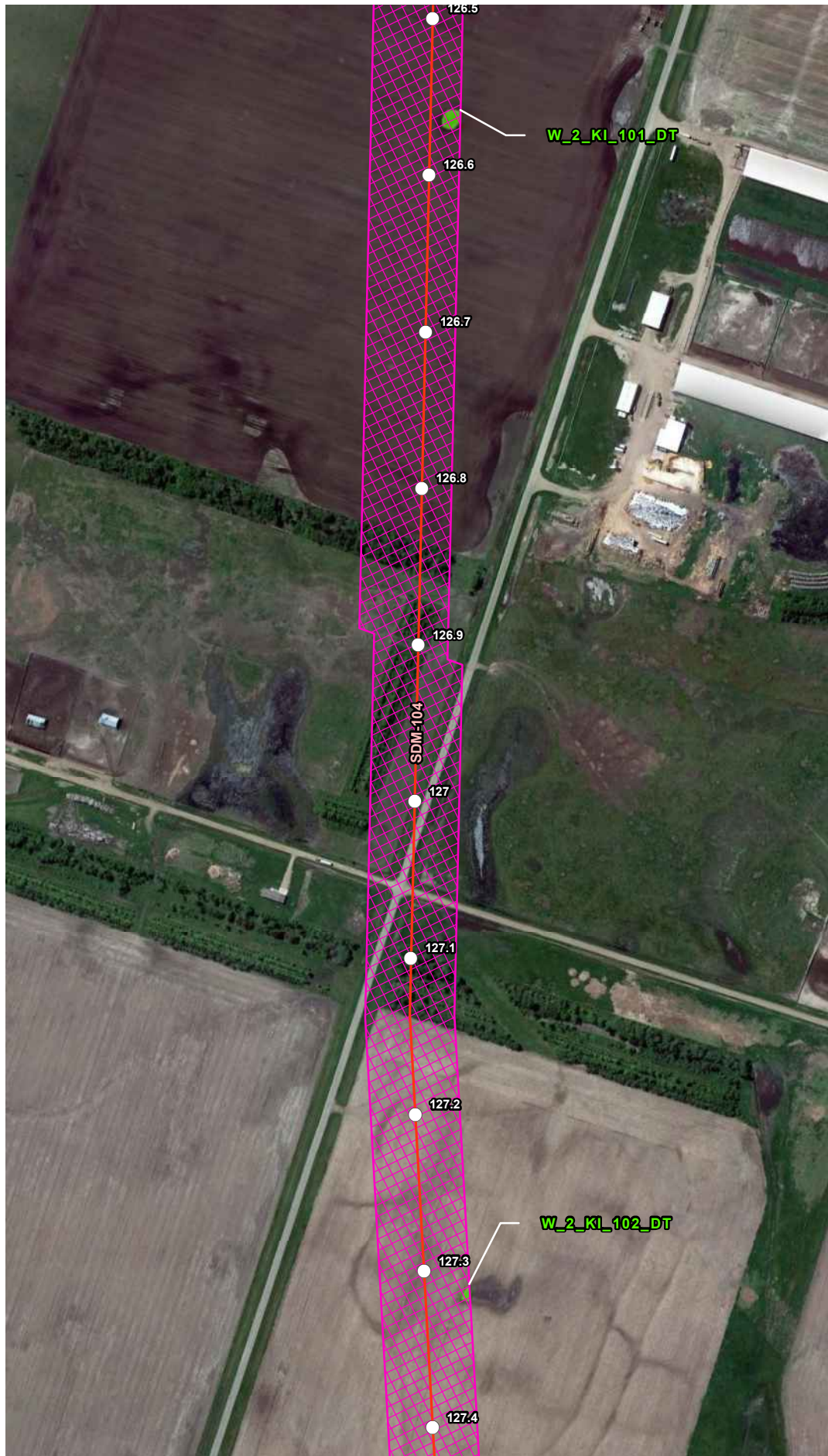
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Sheet 165 of 517

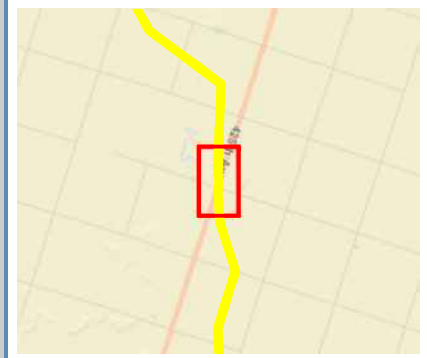
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Sheet:
166
Sheet 166 of 517

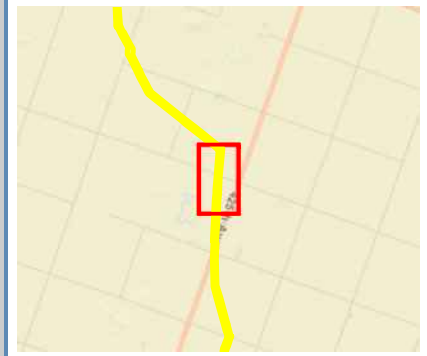
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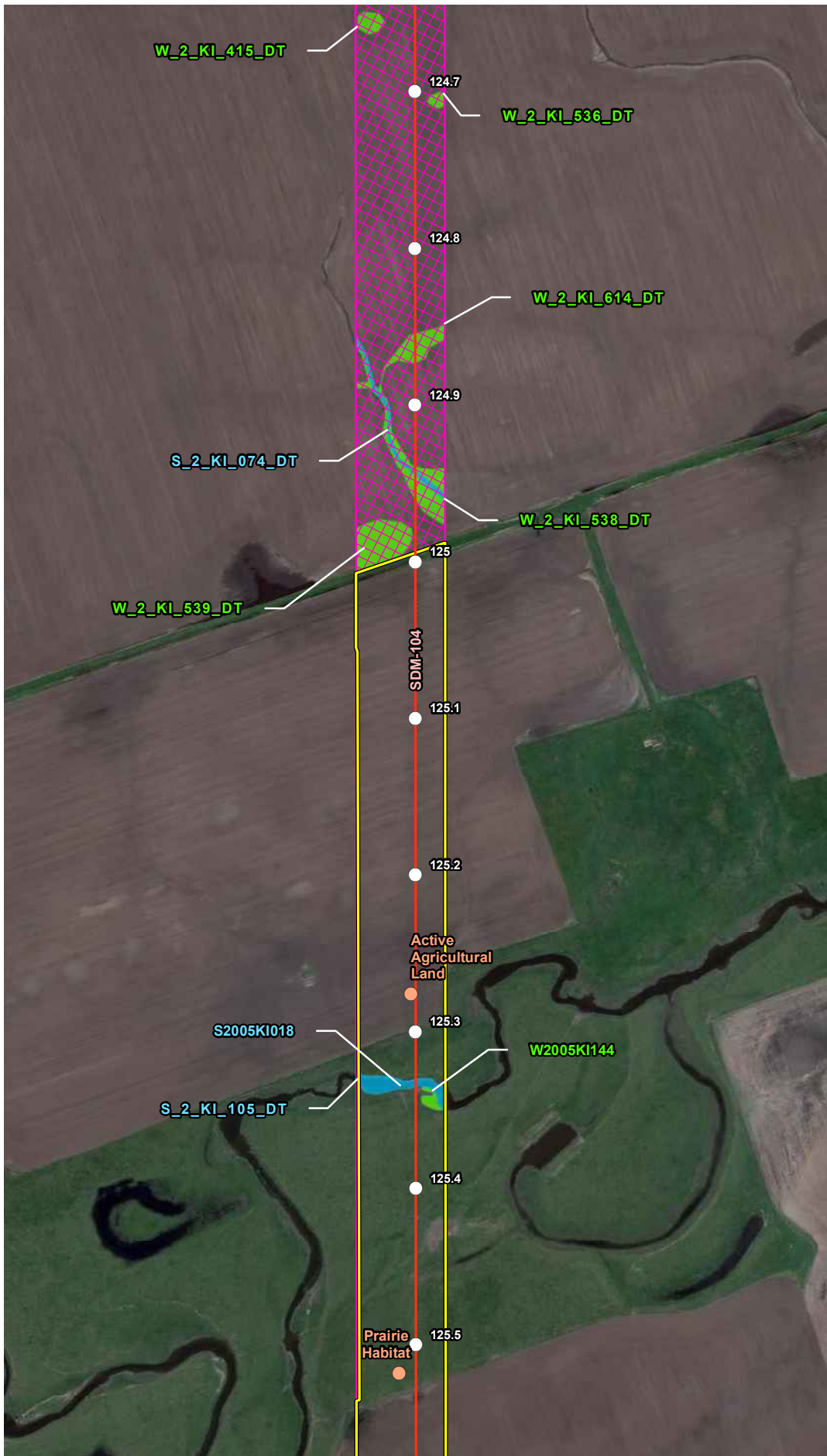
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Sheet 167 of 517

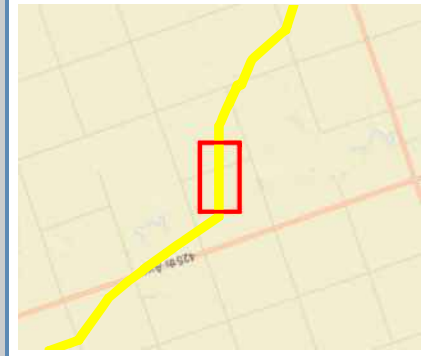
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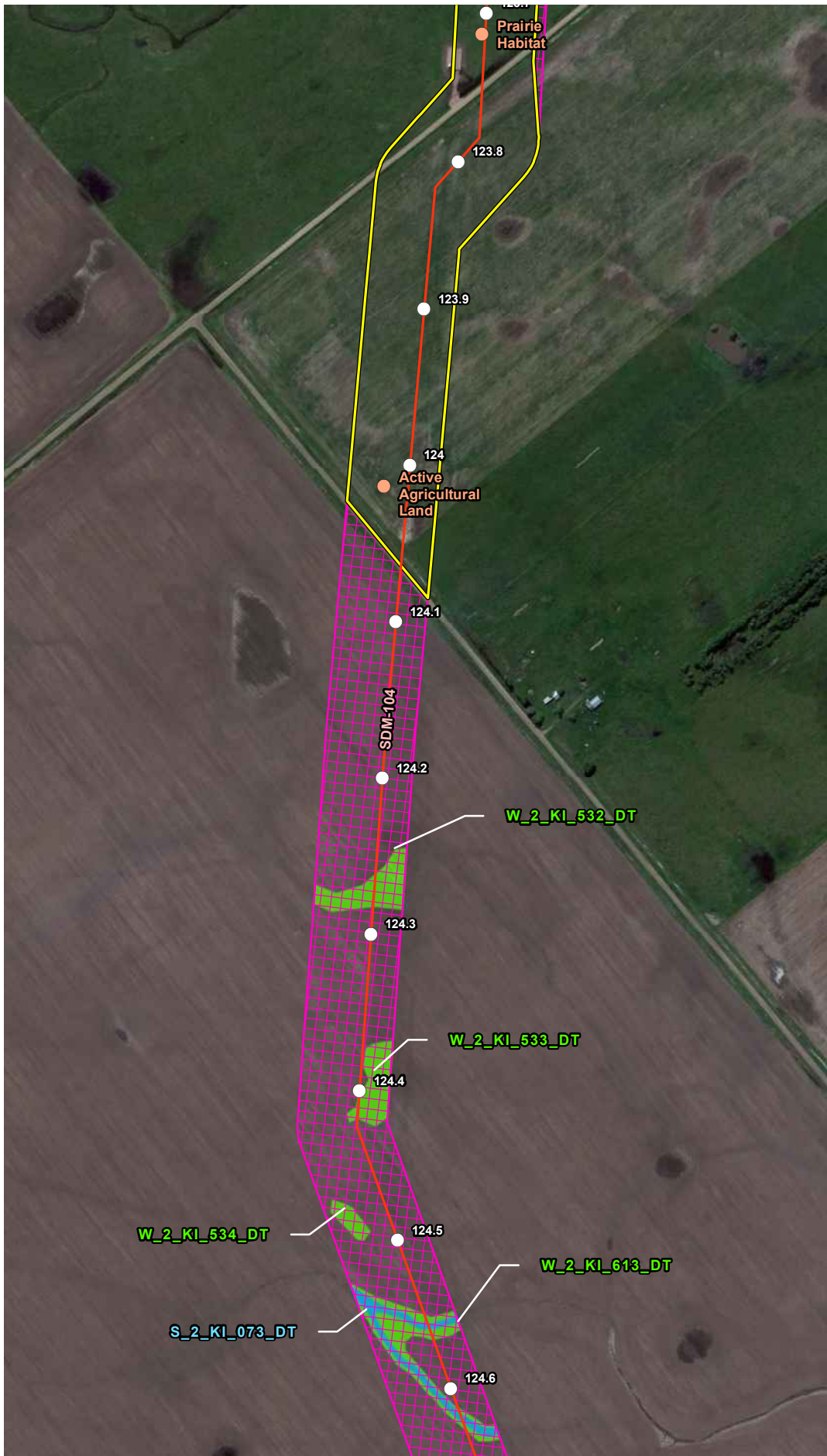
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Sheet 168 of 517

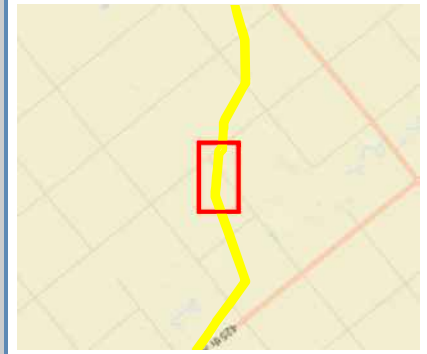
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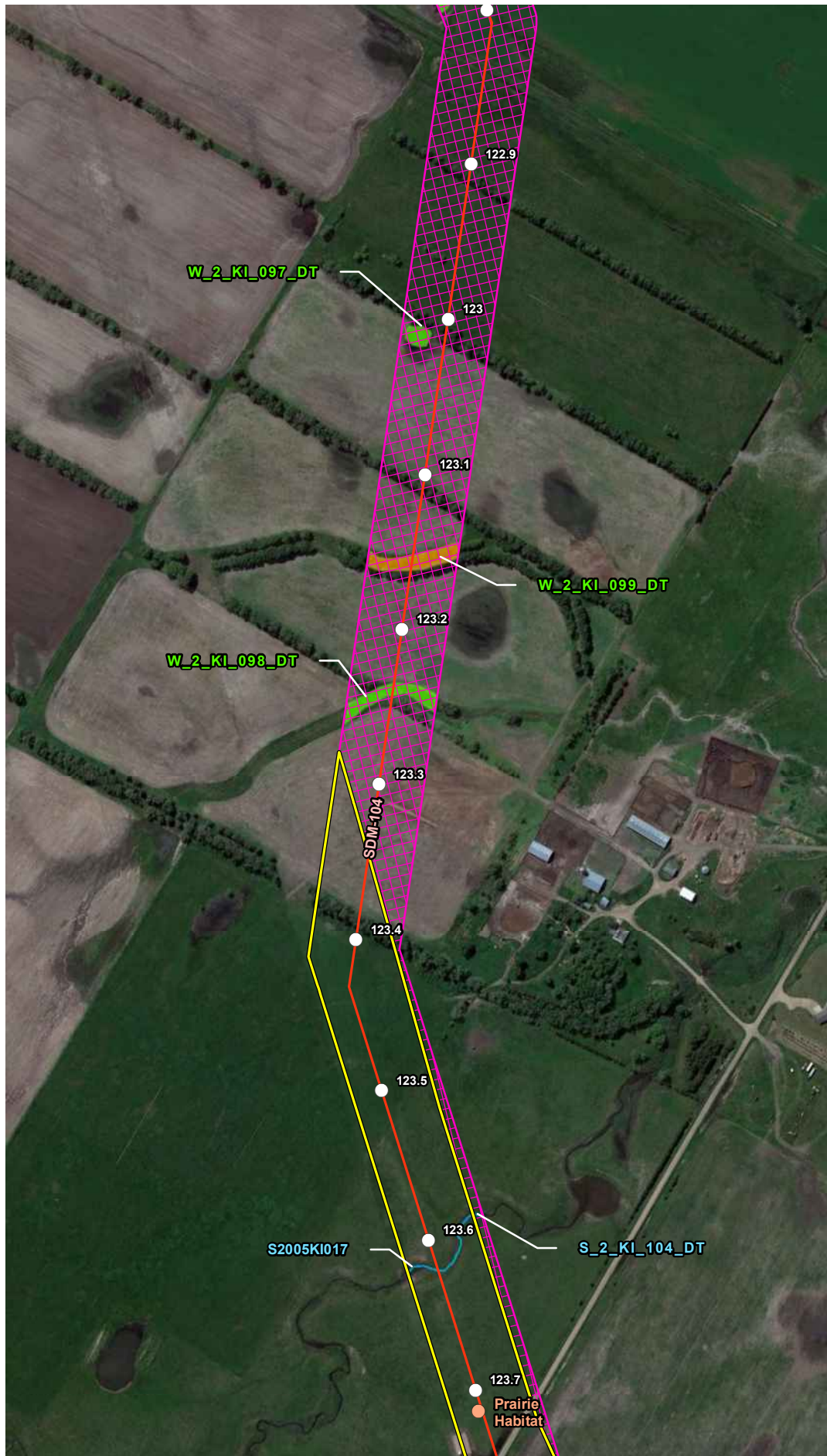
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Sheet:
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Sheet 169 of 517

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NAD 1983 UTM Zone 14N

Sheet:
170
Sheet 170 of 517

Drawing Number:
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Sheet:

171

Sheet 171 of 517

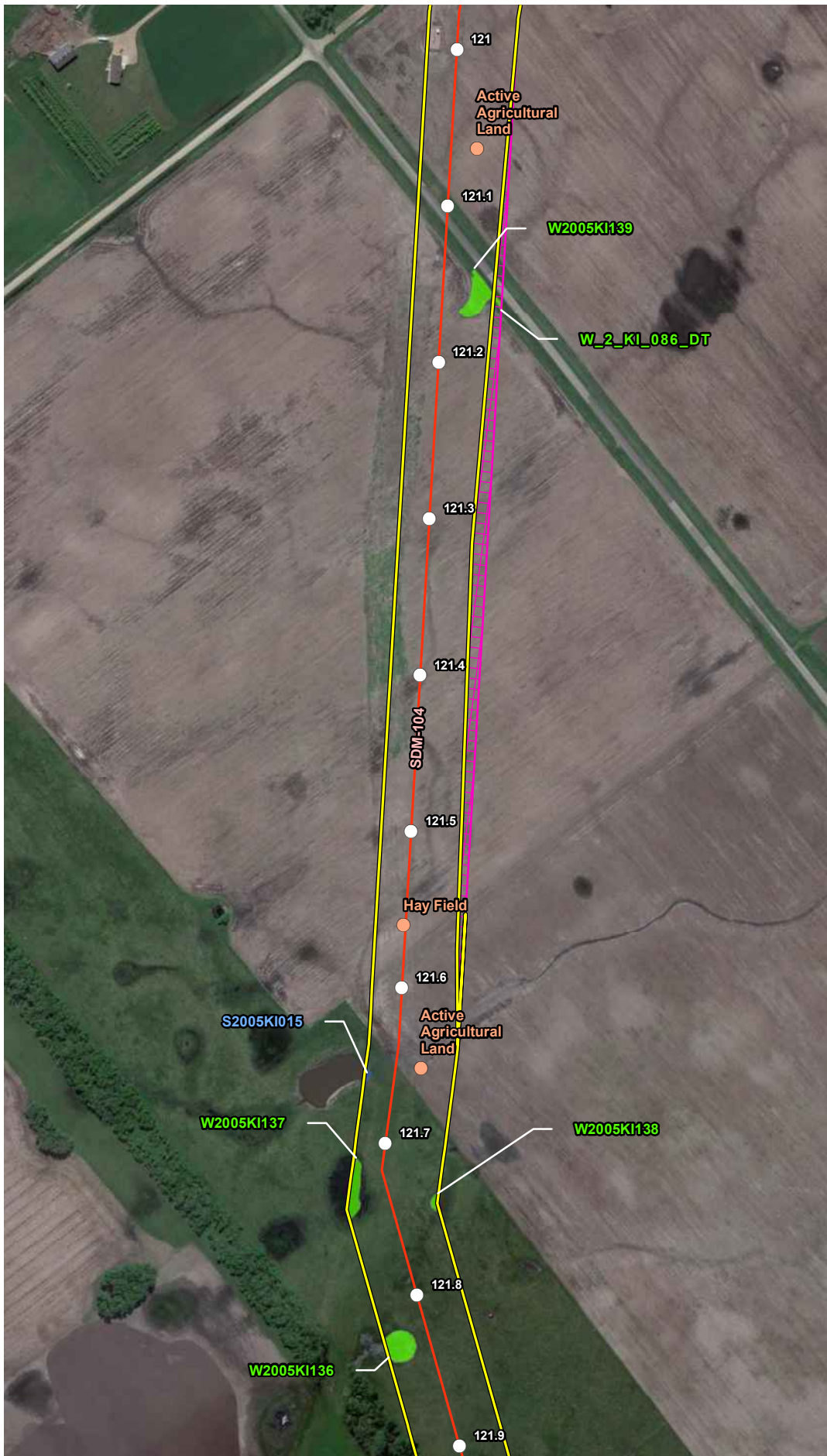
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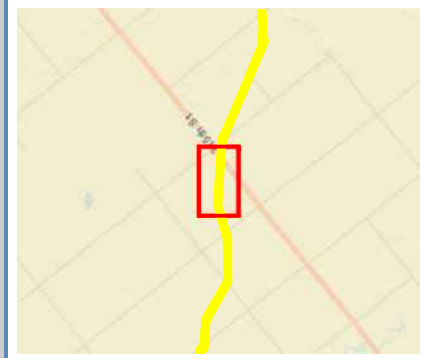
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
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- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
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Revision description		
Date: YYYY-MM-DD	Revised by: TBD	Checked by: TBD
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
172
Sheet 172 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



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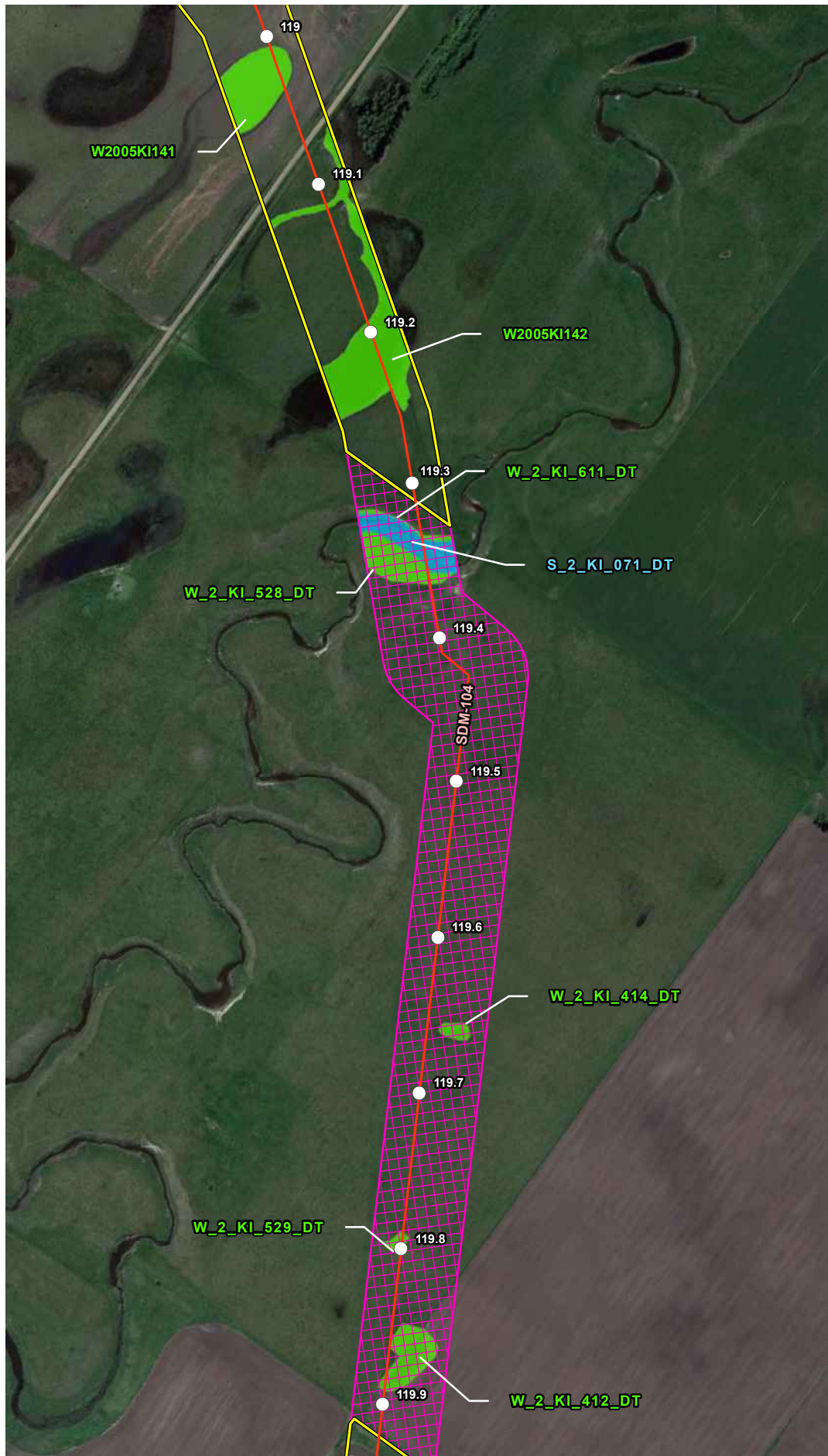
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 173 of 517

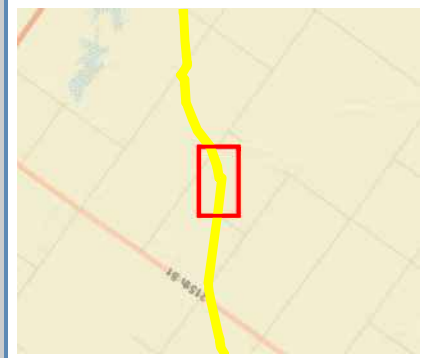
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0 250 500 Feet



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Figure Number: 2

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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
174
Sheet 174 of 517

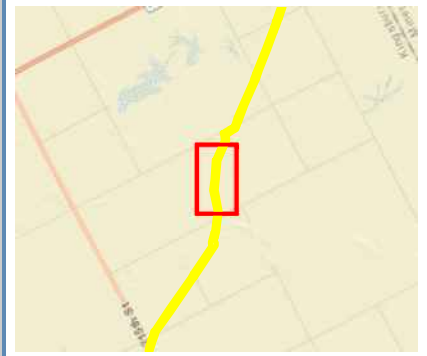
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0 250 500
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Sheet:
175
Sheet 175 of 517

Drawing Number:
2001-21-002
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Sheet:
176
Sheet 176 of 517

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Scale:
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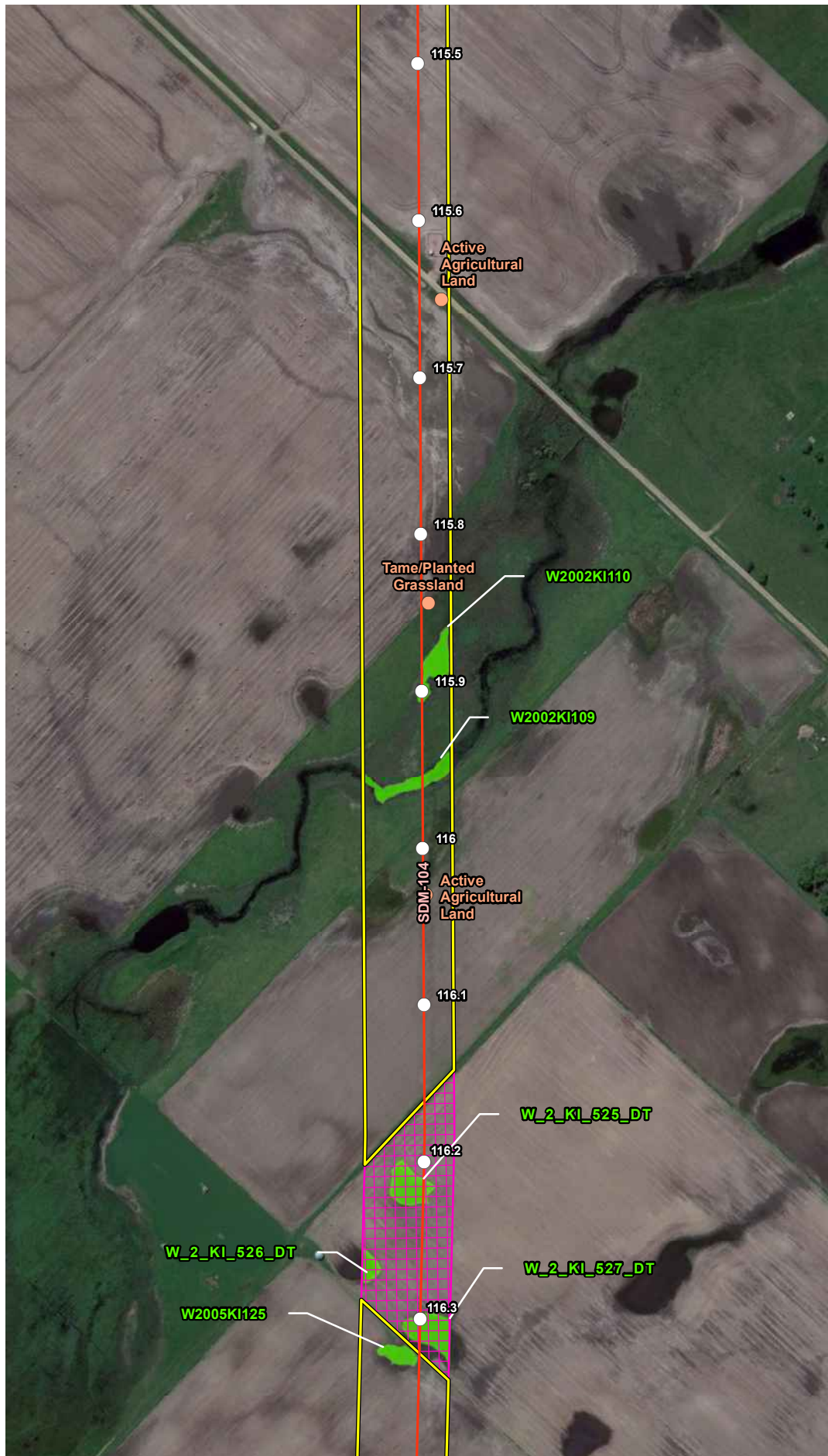
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NAD 1983 UTM Zone 14N

Sheet:
177
Sheet 177 of 517

Drawing Number:
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Current Revision

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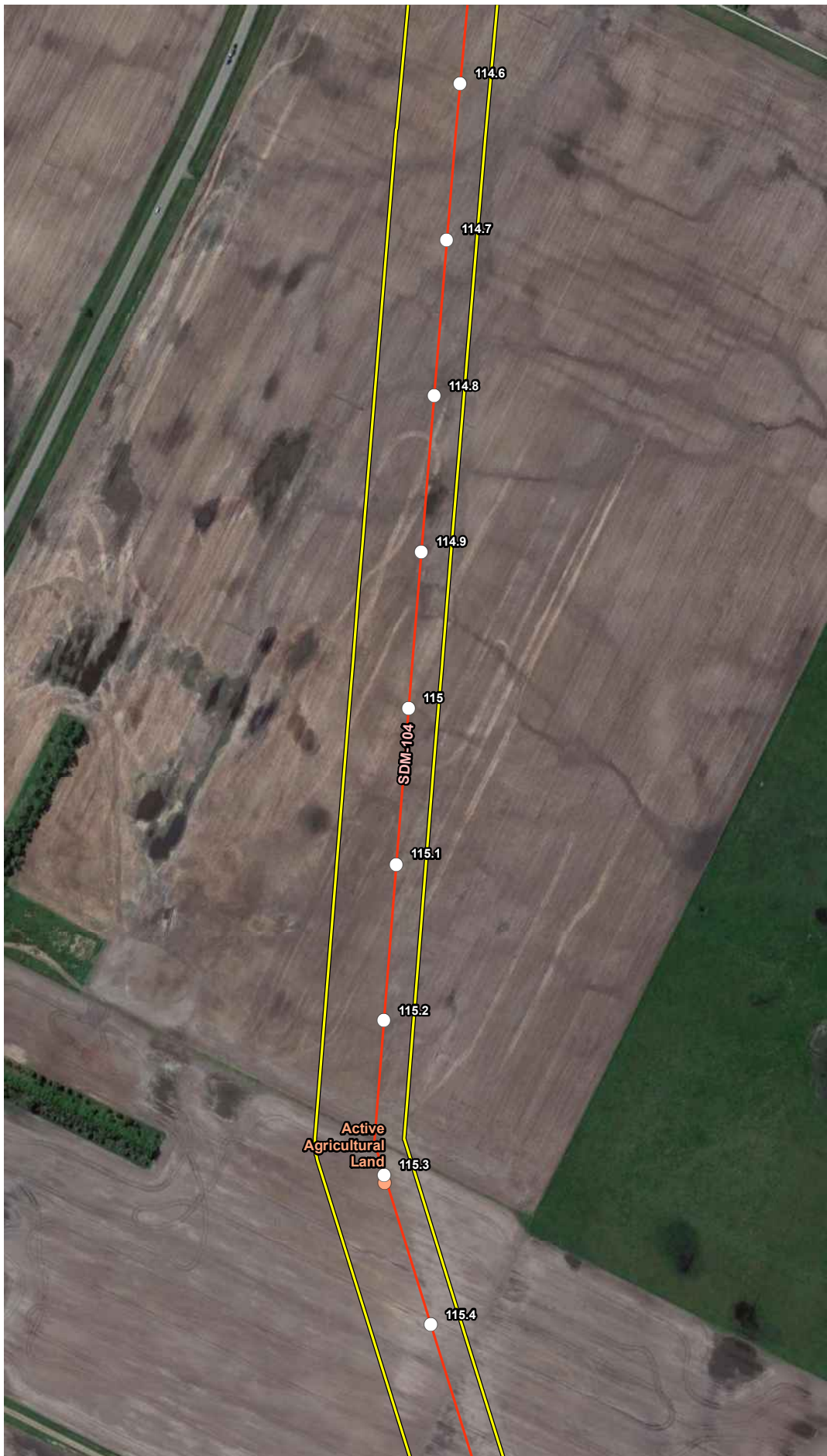
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NAD 1983 UTM Zone 14N

Sheet:
178
Sheet 178 of 517

Drawing Number:
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Current Revision

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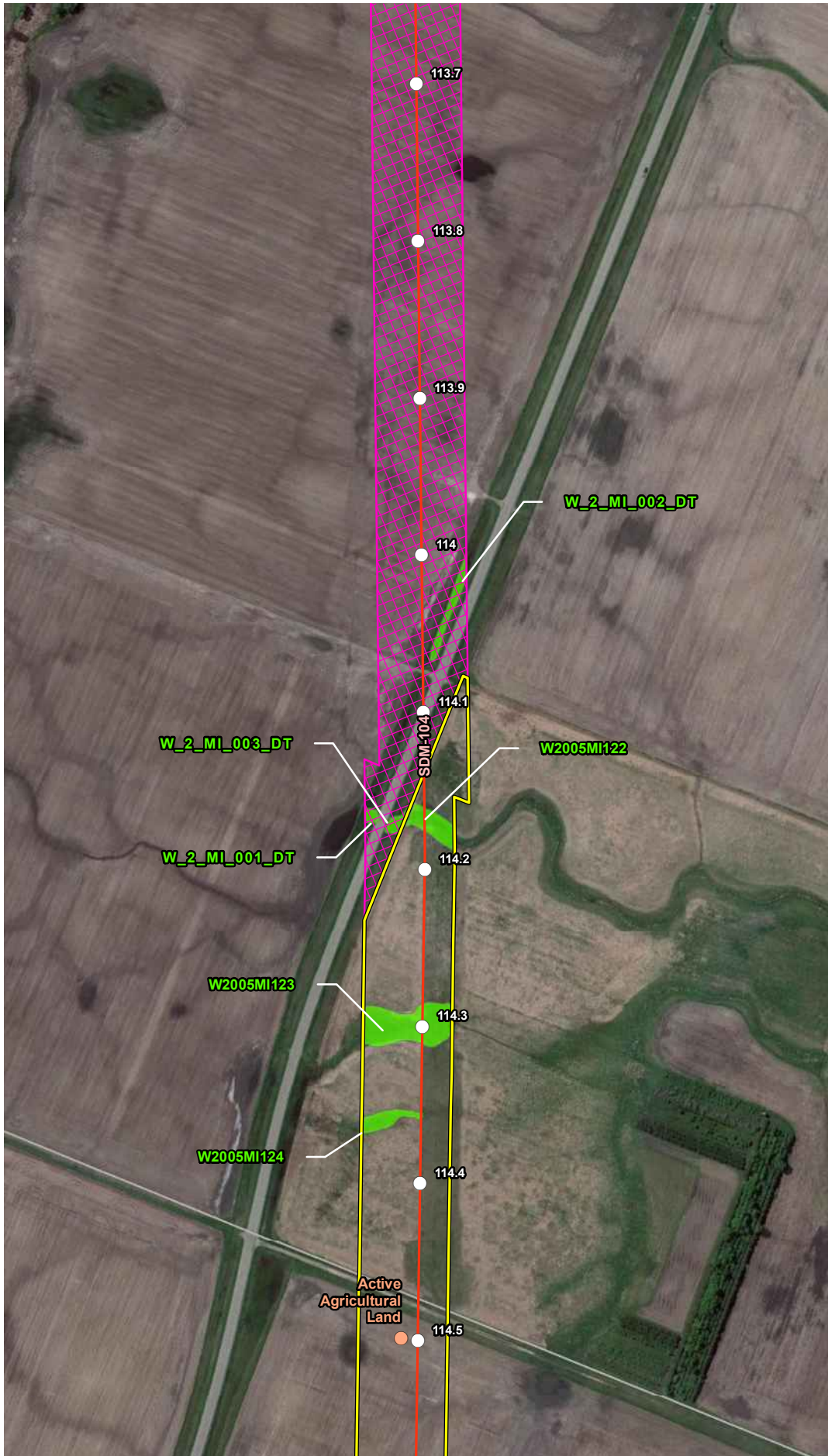
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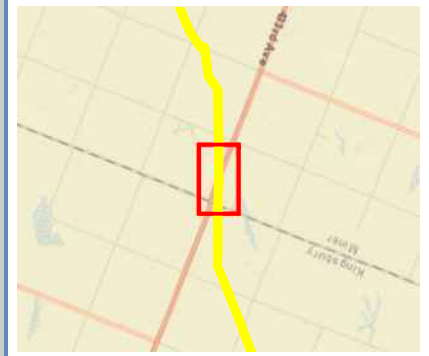
Sheet:
 179
 Sheet 179 of 517

Drawing Number:
 2001-21-002
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AERIAL MAP



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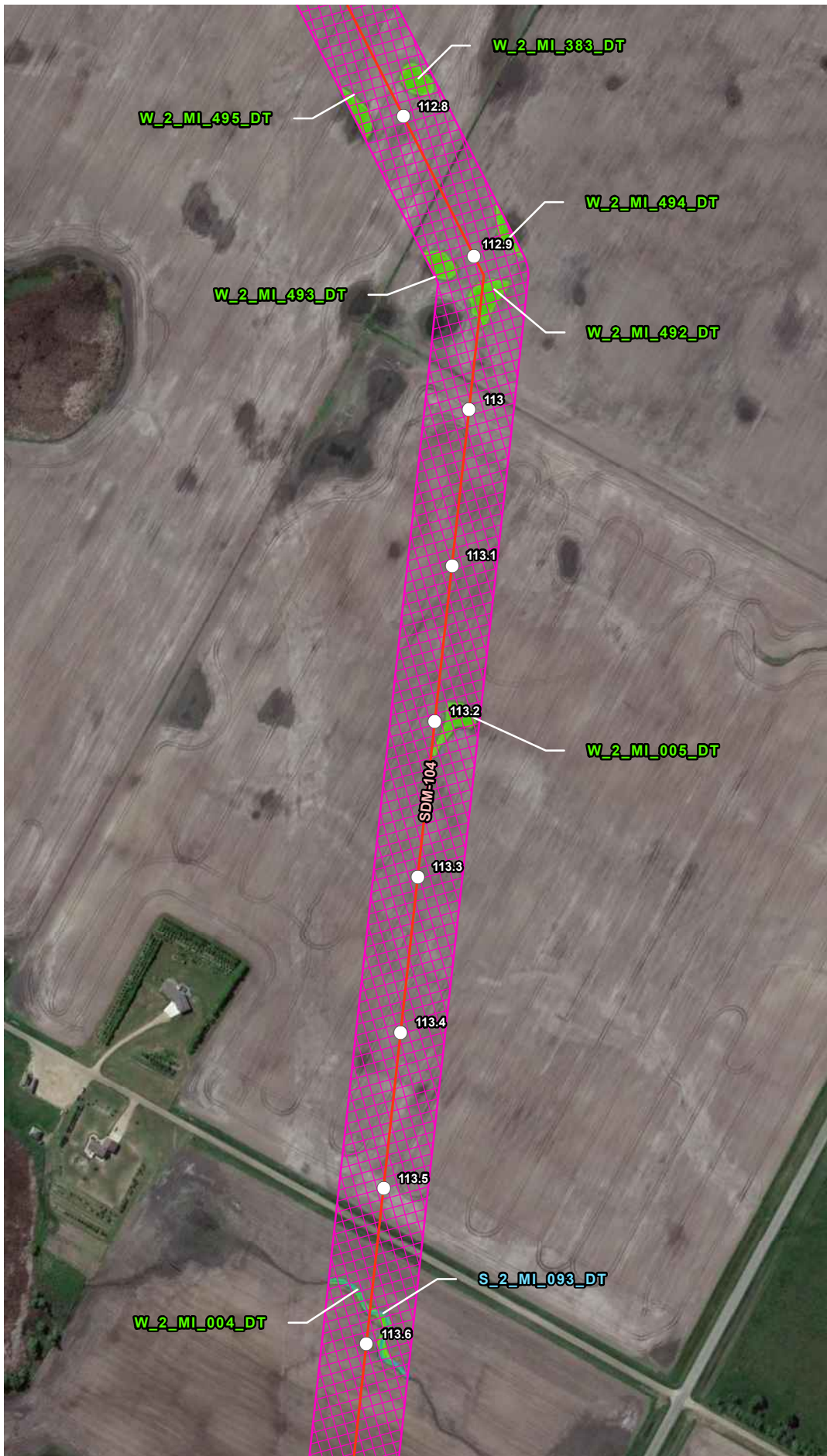
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 180 of 517

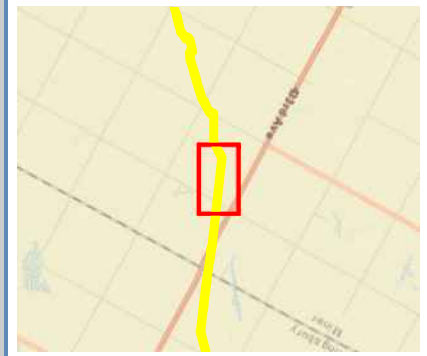
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0 250 500 Feet



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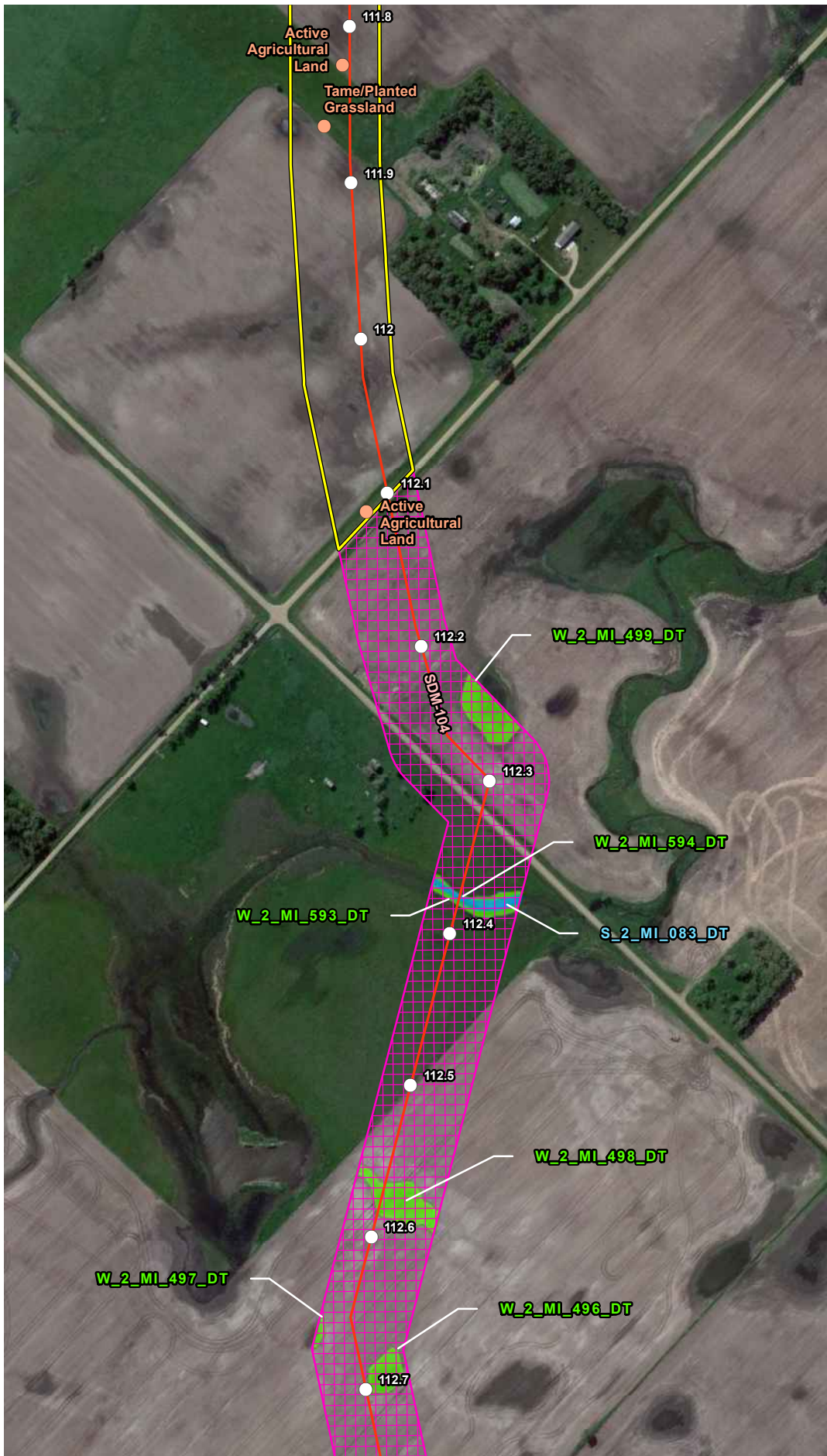
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
181
Sheet 181 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

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2

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
182
Sheet 182 of 517

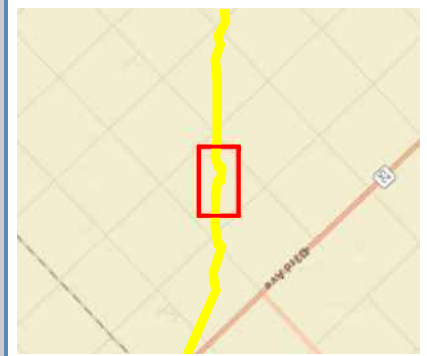
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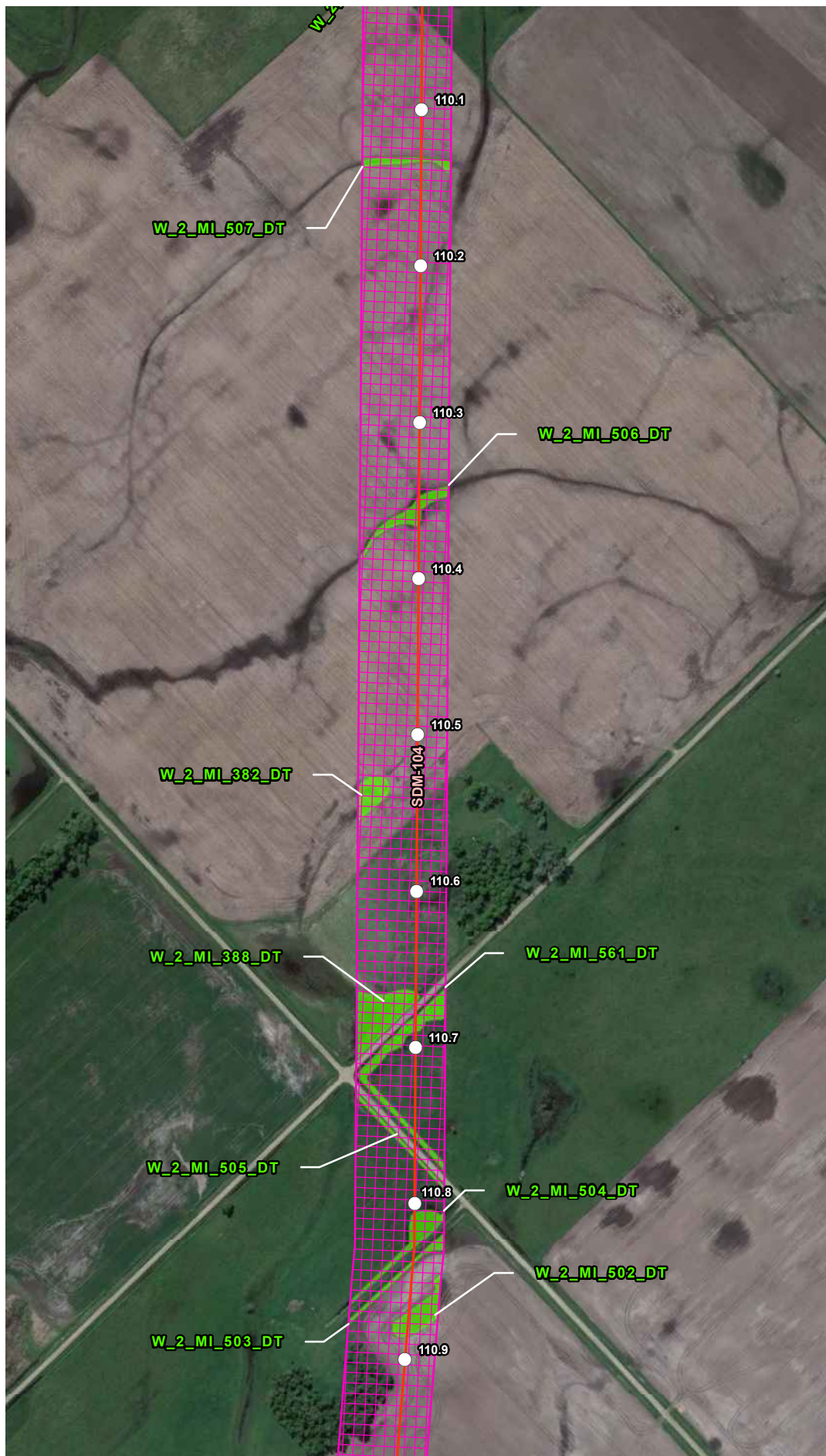
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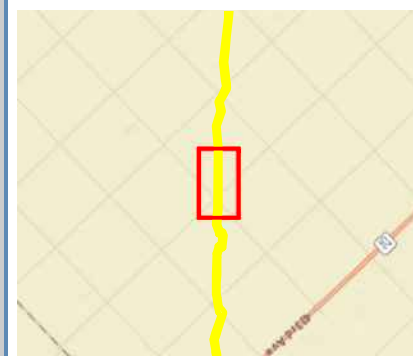
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Sheet 183 of 517

Drawing Number:
2001-21-002
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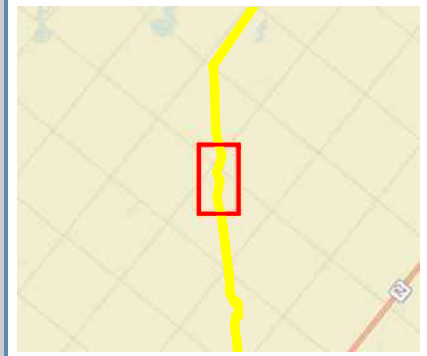
Sheet:
184
Sheet 184 of 517

Drawing Number:
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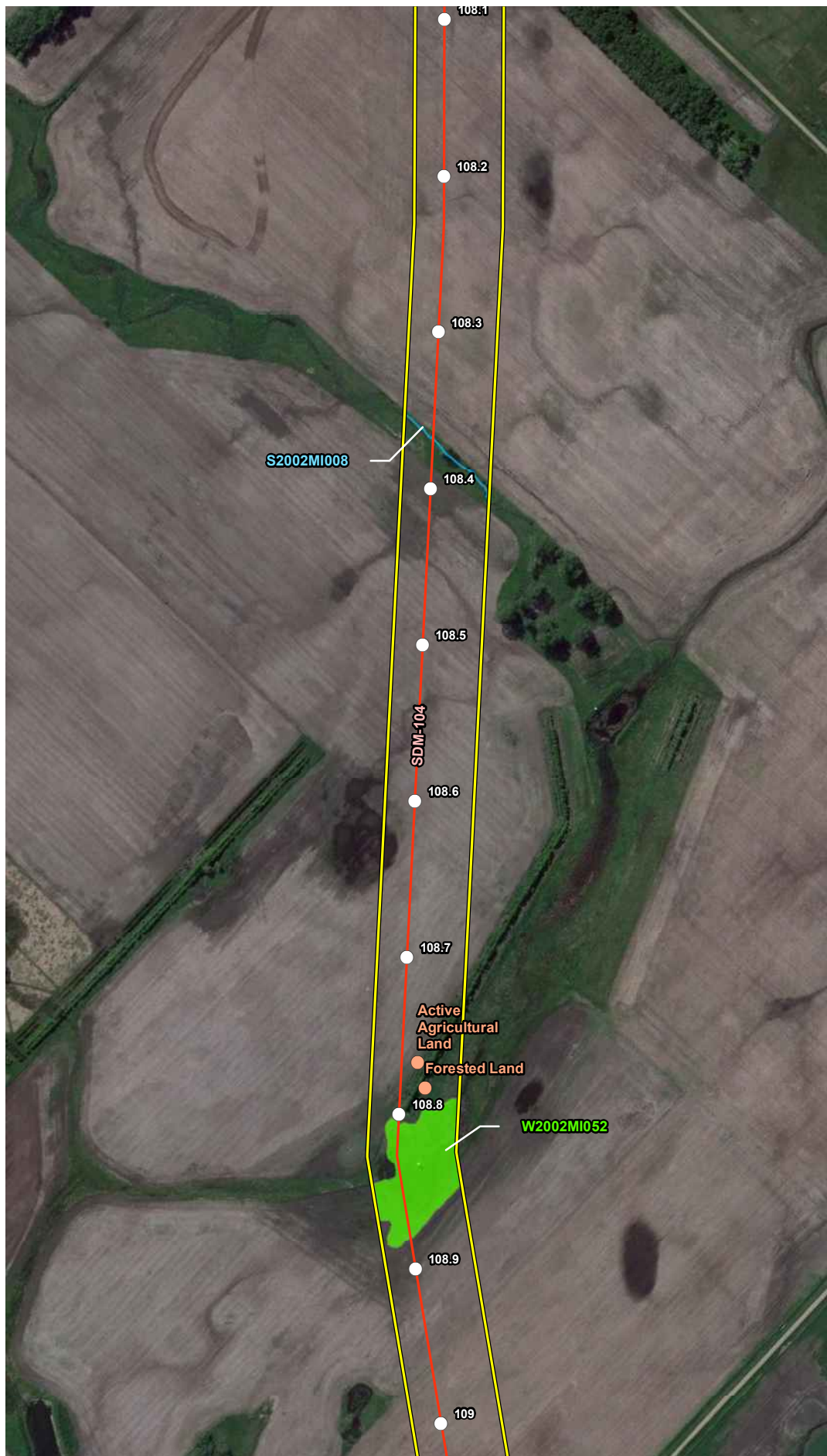
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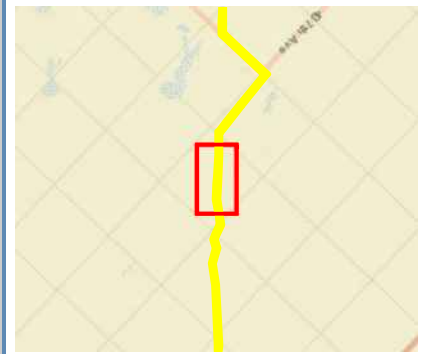
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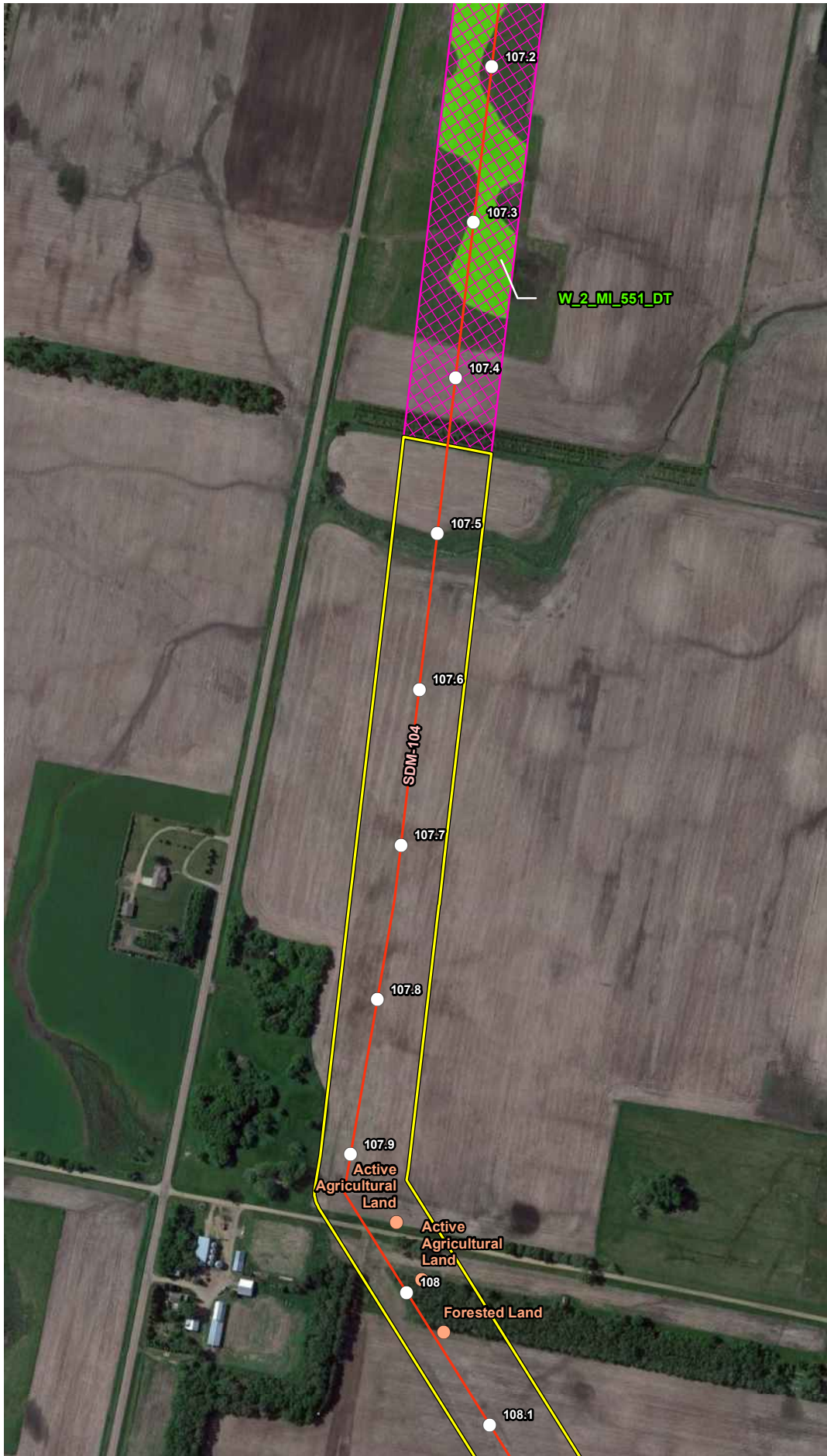
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Sheet 186 of 517

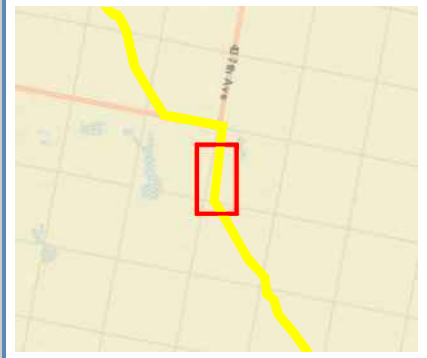
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
187
Sheet 187 of 517

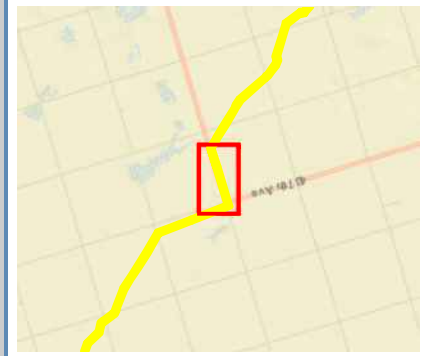
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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- Stream
- Open Water
- PEM Wetland
- PFO Wetland
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- State Boundary

0 250 500 Feet



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 NAD 1983 UTM Zone 14N

Sheet:
 188
 Sheet 188 of 517

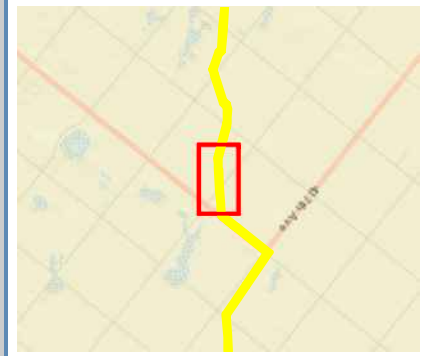
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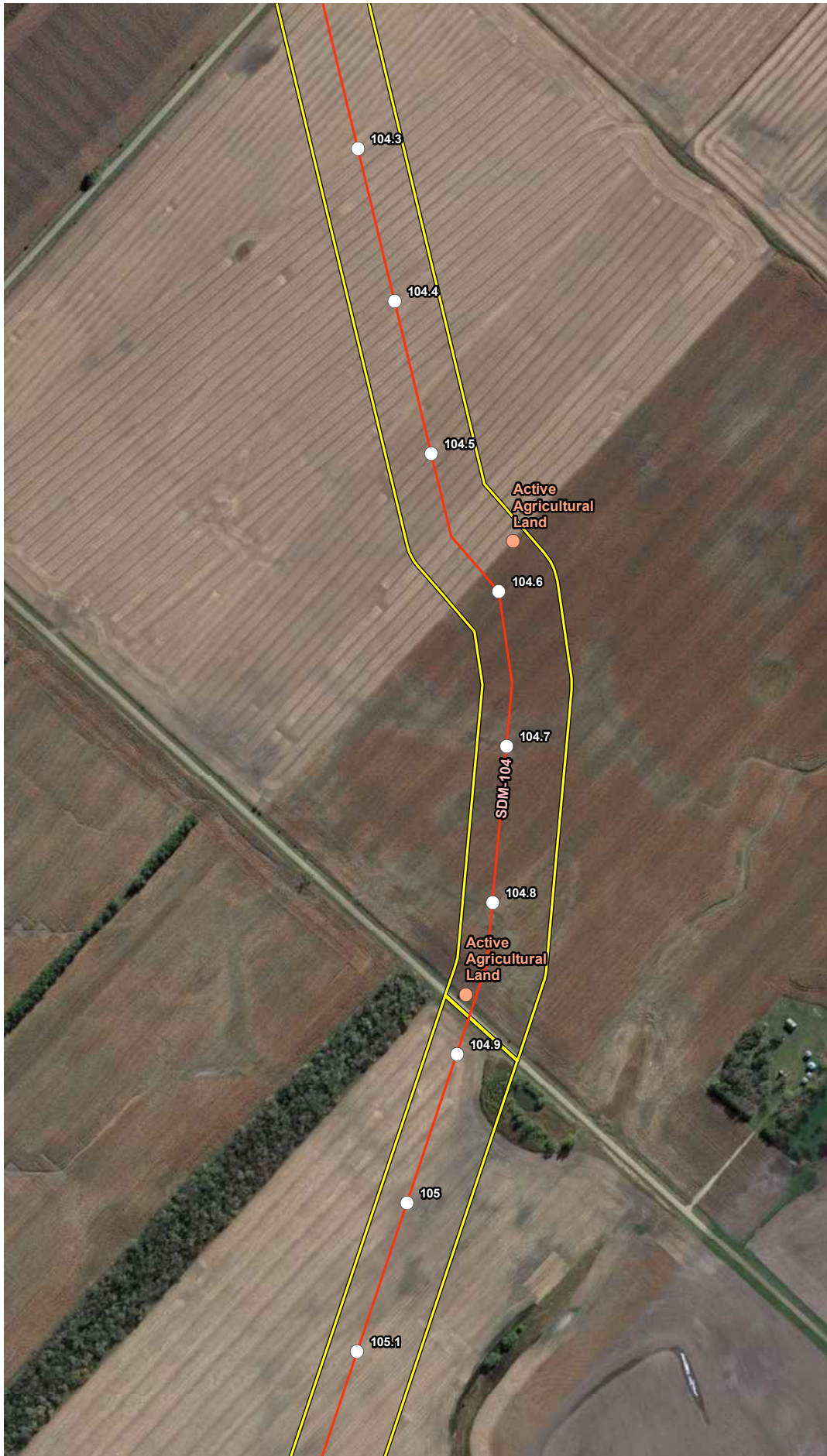
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Sheet:
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Sheet 189 of 517

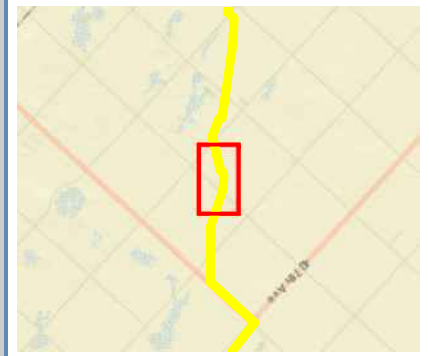
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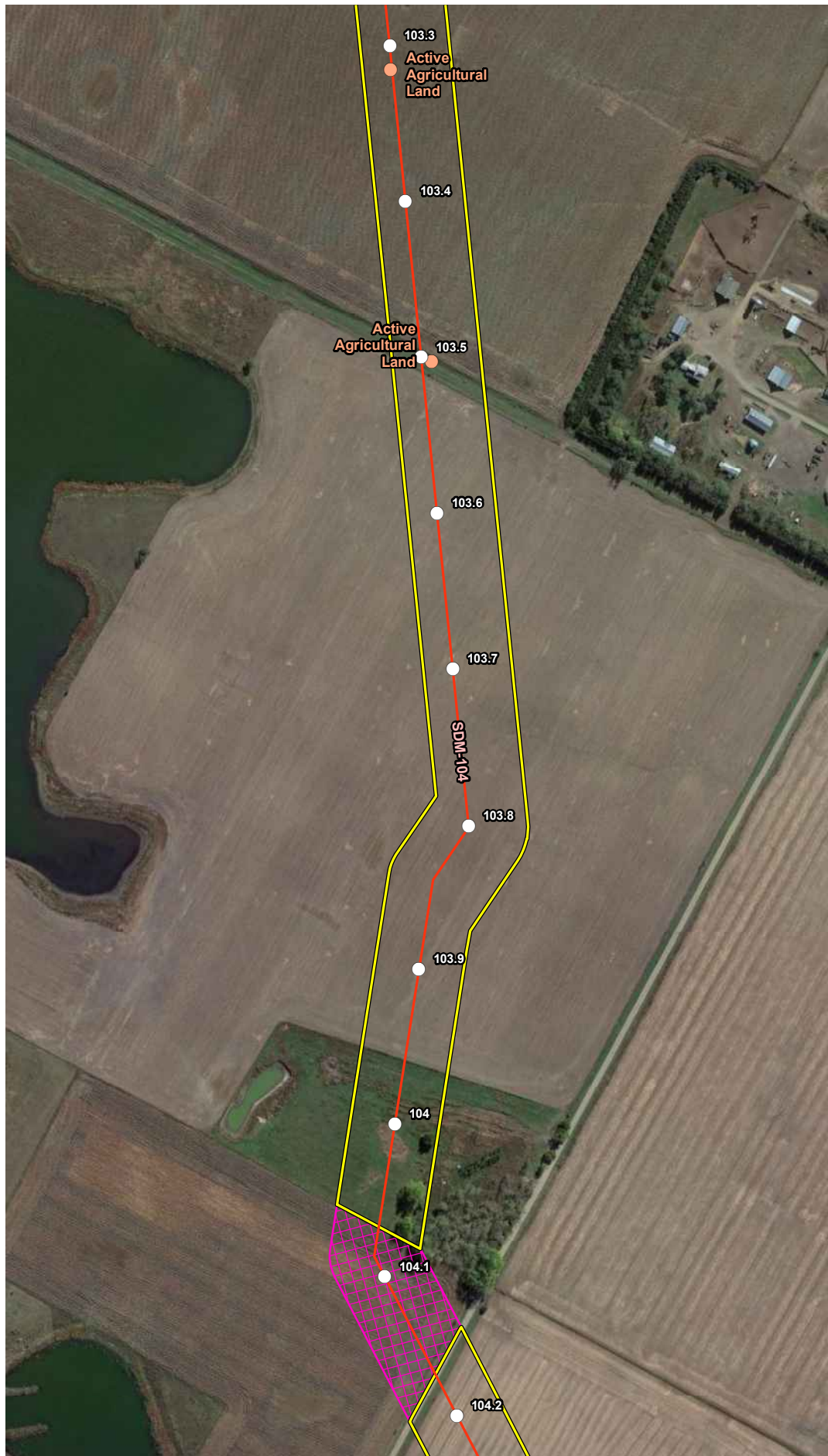
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Sheet:
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Sheet 190 of 517

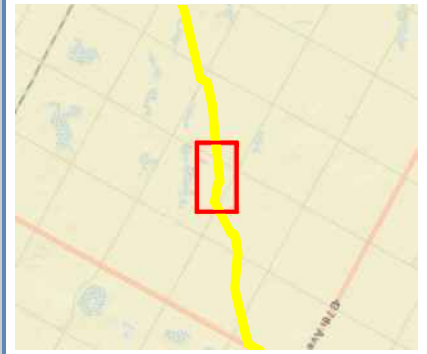
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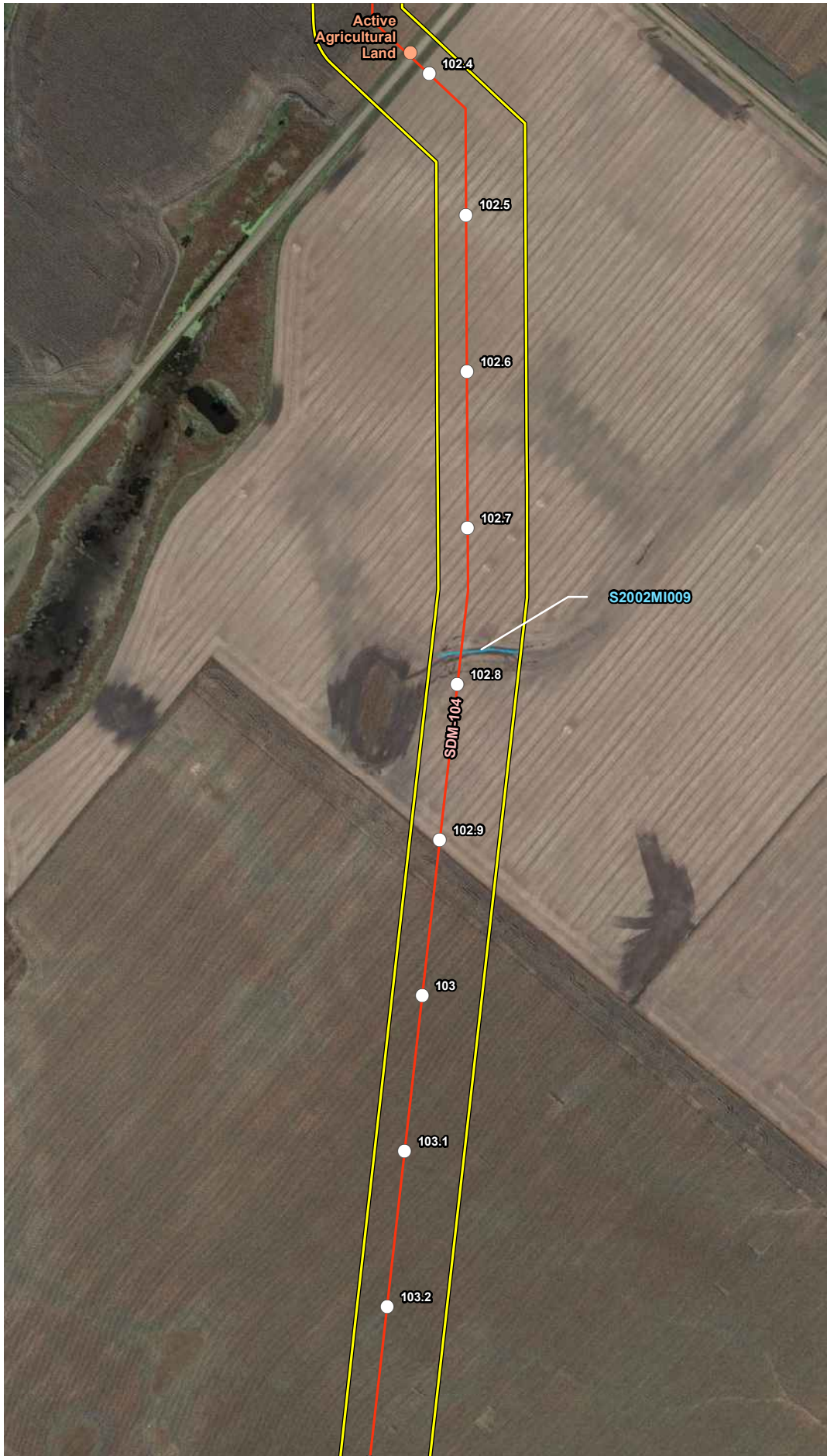
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Sheet:
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Sheet 191 of 517

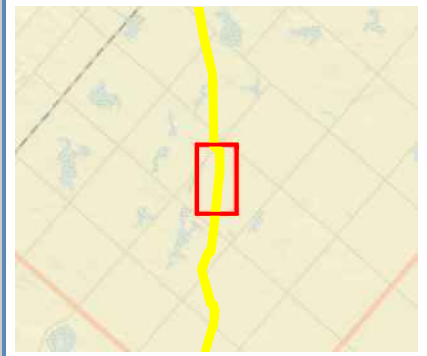
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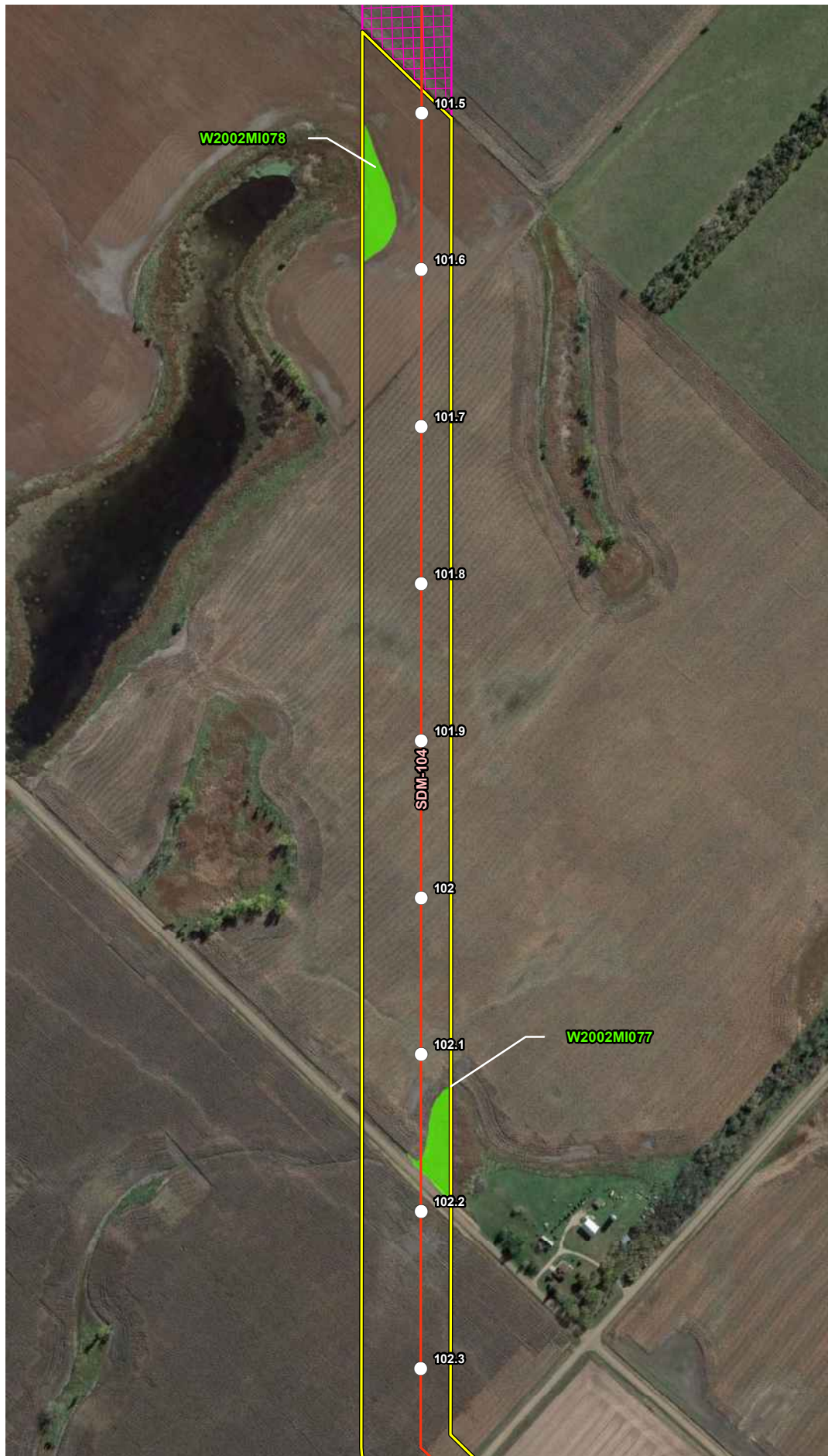
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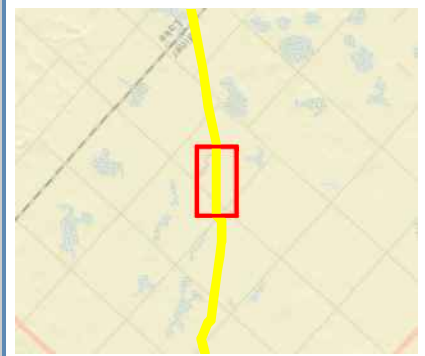
Sheet:
192
Sheet 192 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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NAD 1983 UTM Zone 14N

Sheet:
193
Sheet 193 of 517

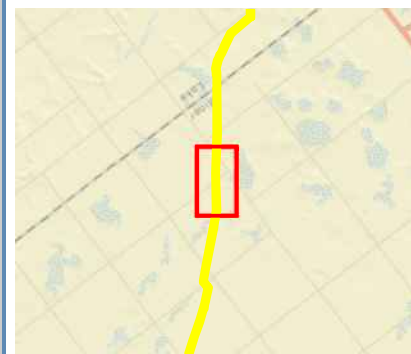
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AERIAL MAP



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0 250 500 Feet



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NAD 1983 UTM Zone 14N

Sheet:
194
Sheet 194 of 517

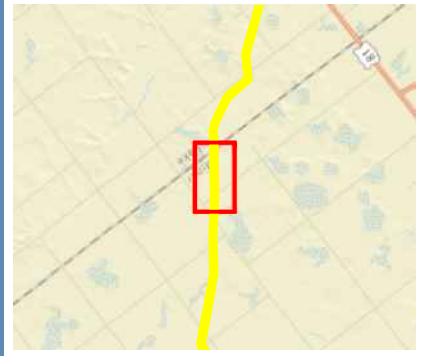
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0 250 500 Feet



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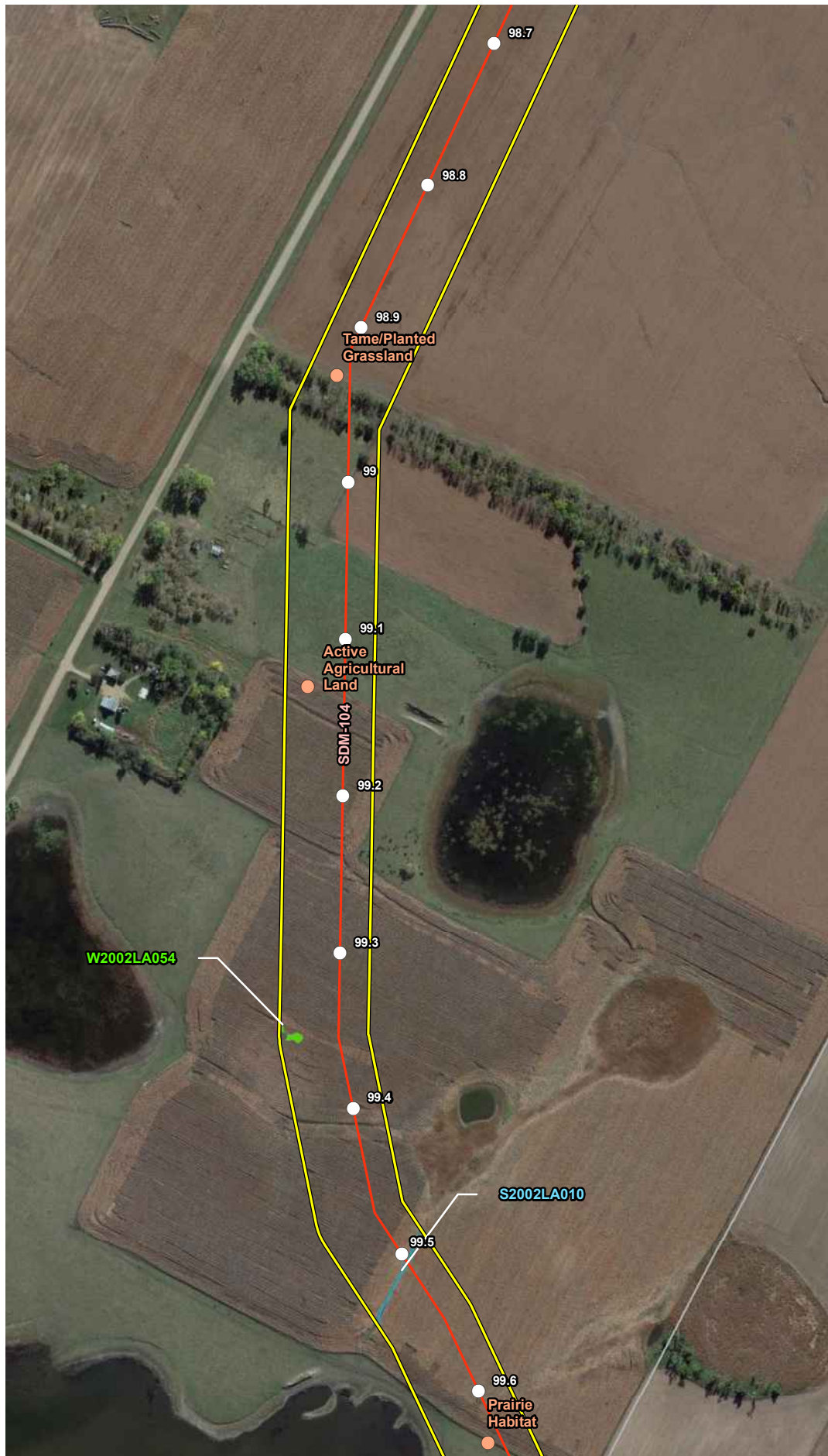
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Sheet 195 of 517

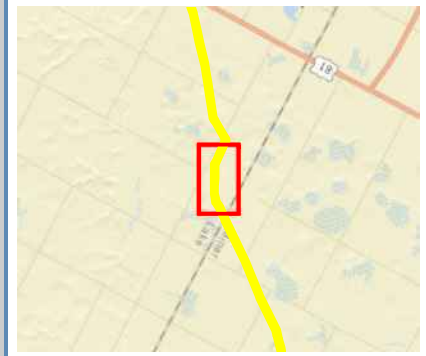
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VICINITY MAP



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0 250 500
Feet



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Figure Number:

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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
196
Sheet 196 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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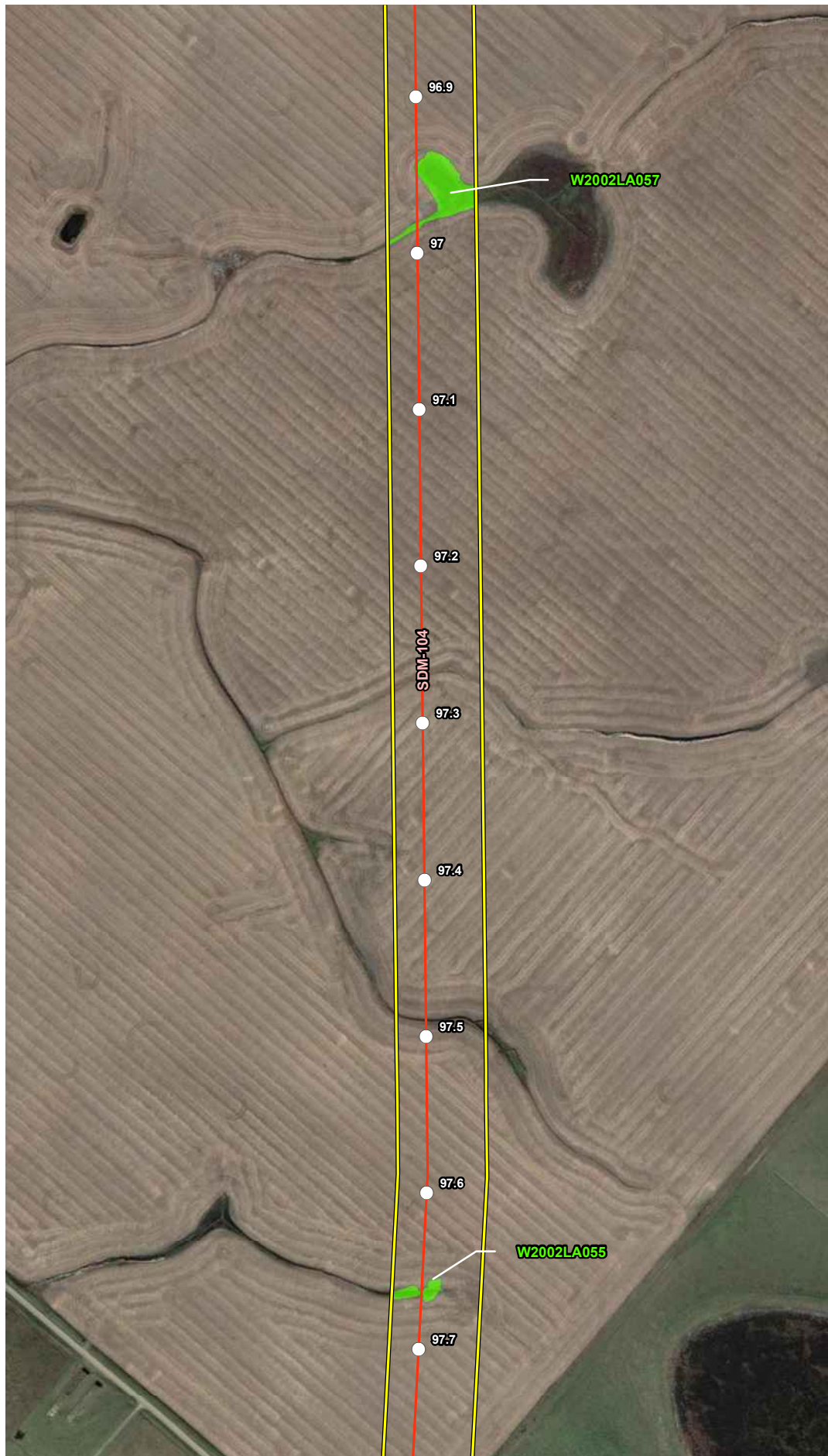
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NAD 1983 UTM Zone 14N

Sheet:
197
Sheet 197 of 517

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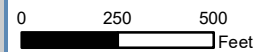


VICINITY MAP



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 NAD 1983 UTM Zone 14N

Sheet: 198
 Sheet 198 of 517

Drawing Number: 2001-21-002
 Current Revision

AERIAL MAP



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0 250 500 Feet



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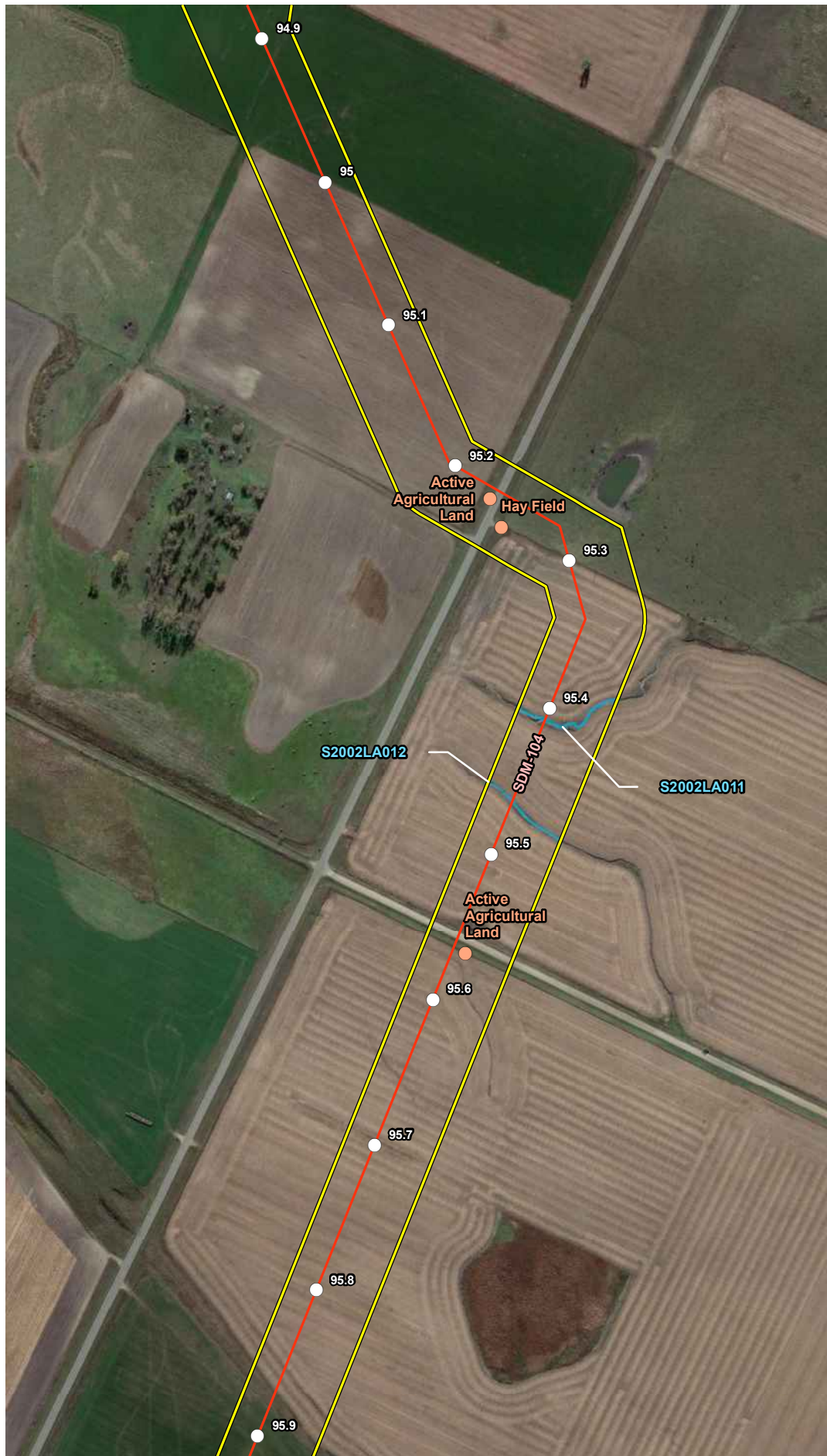
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NAD 1983 UTM Zone 14N

Sheet:
199
Sheet 199 of 517

Drawing Number:
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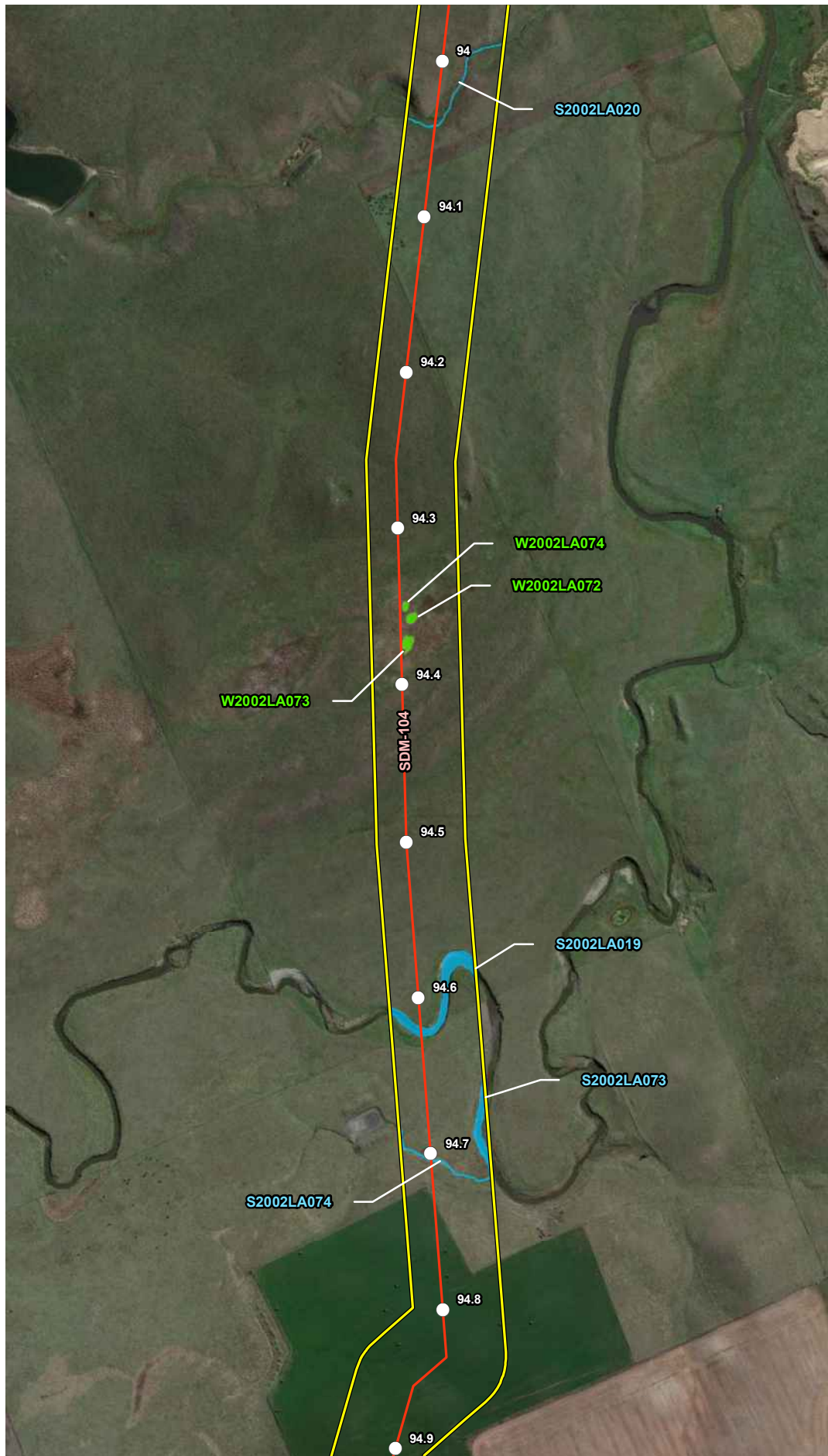
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Sheet:
200
Sheet 200 of 517

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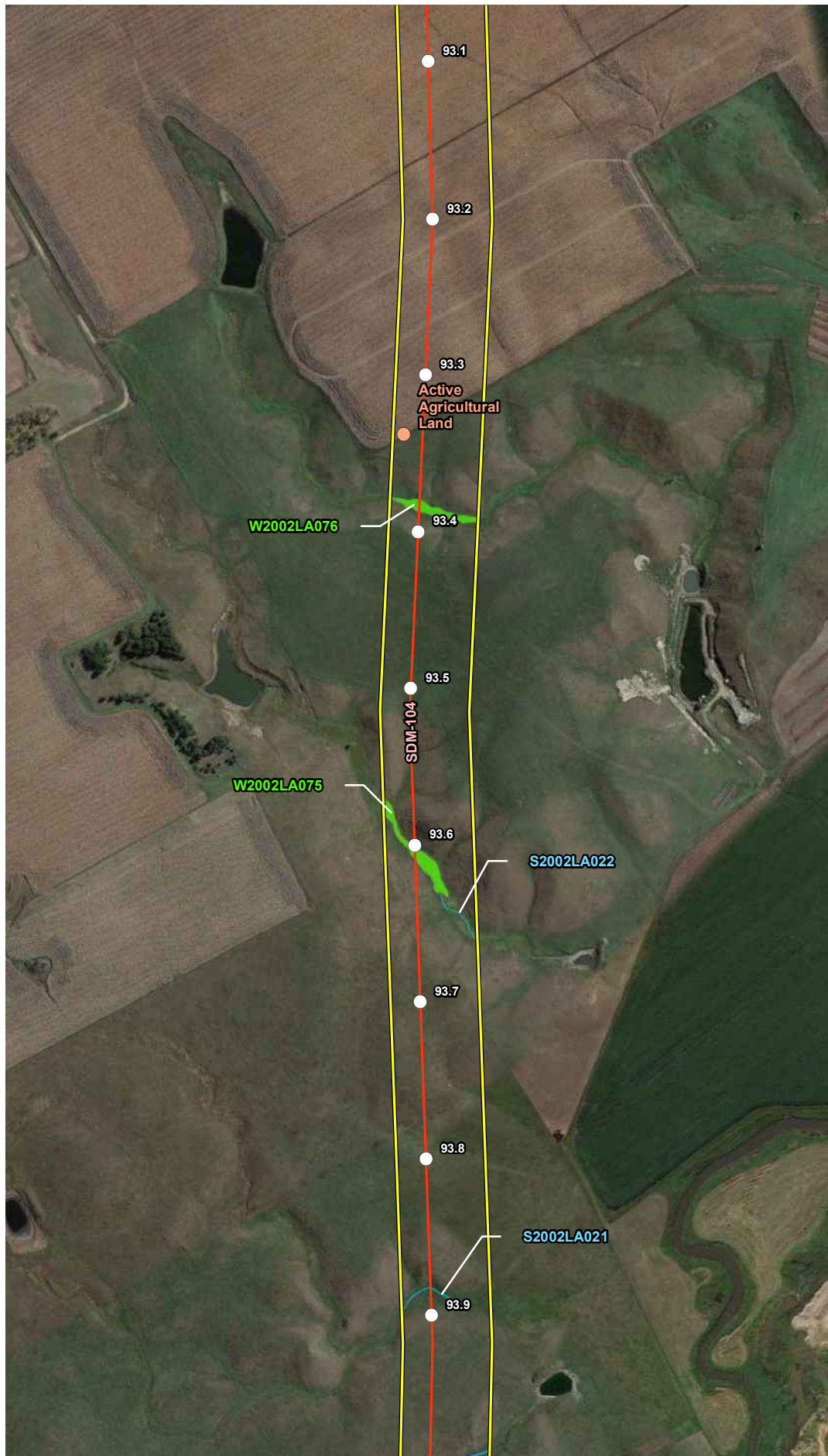
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 Transverse Mercator
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Sheet:
 201
 Sheet 201 of 517

Drawing Number:
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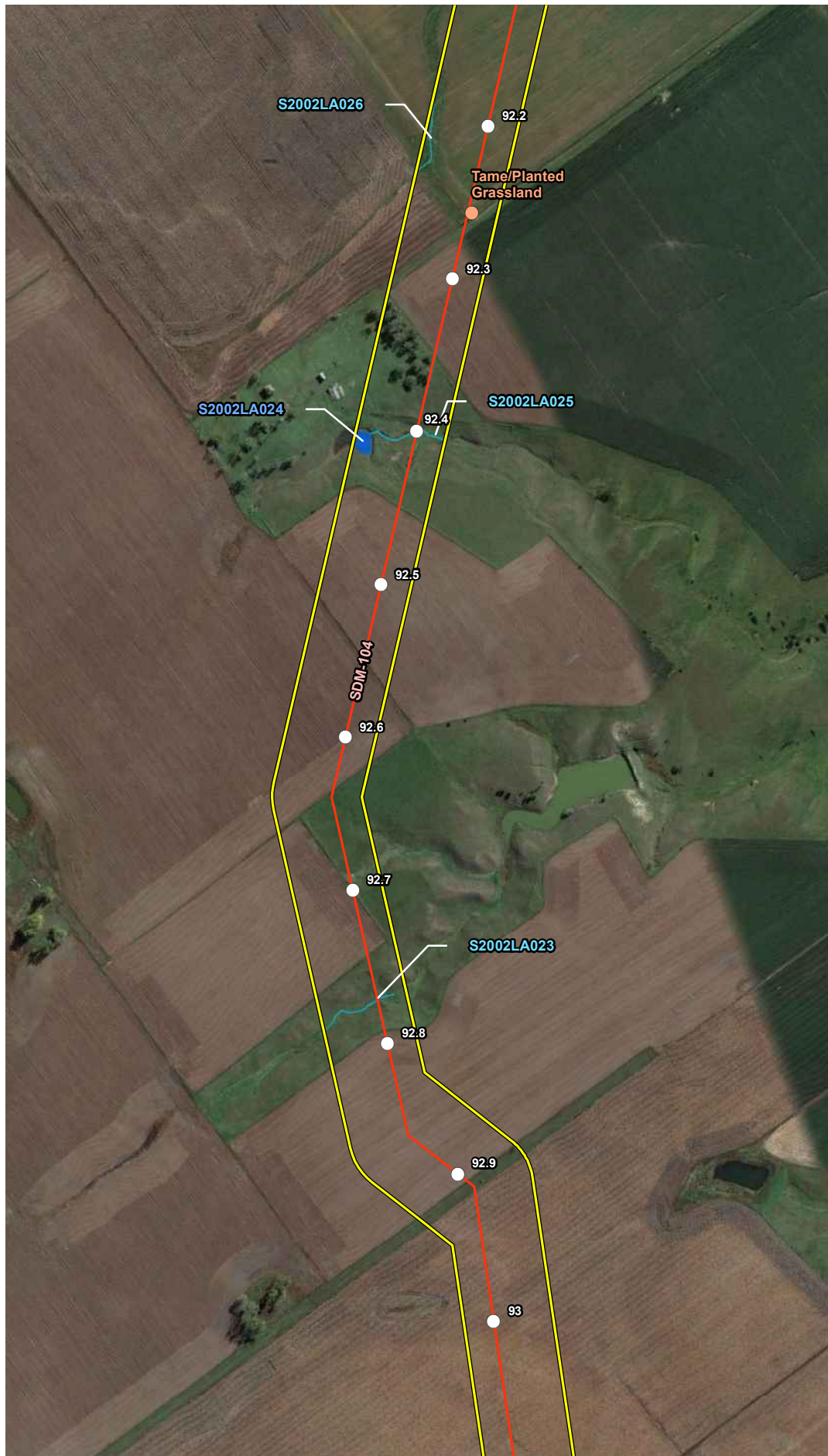
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Sheet:
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Sheet 202 of 517

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- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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Figure Number:
2

Scale:
Scale: 1:6,000
1 inch = 500 feet

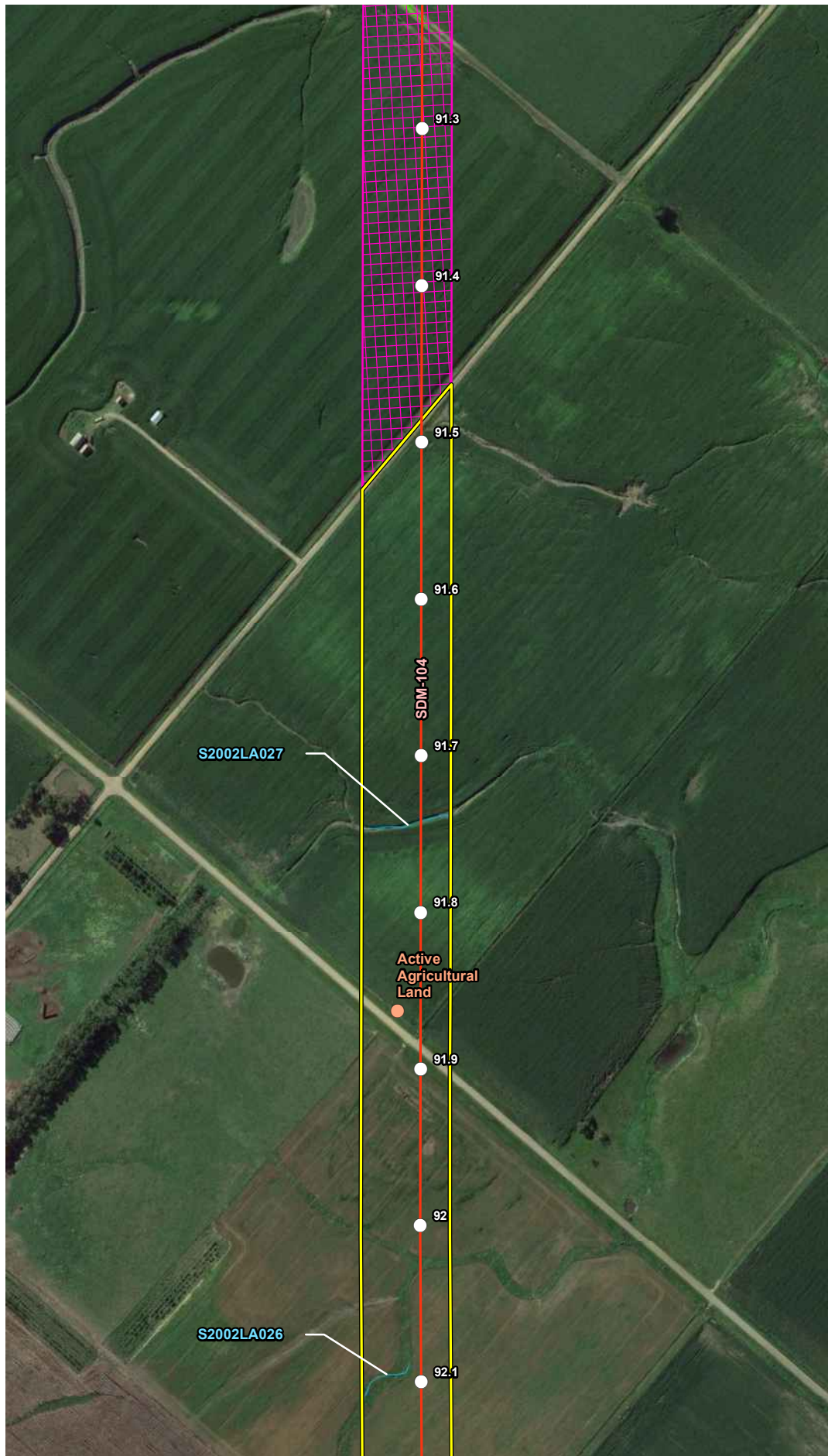
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 203 of 517

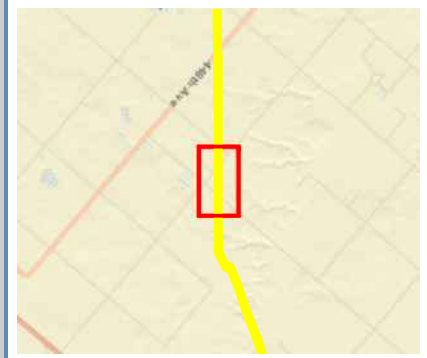
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
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0 250 500 Feet



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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

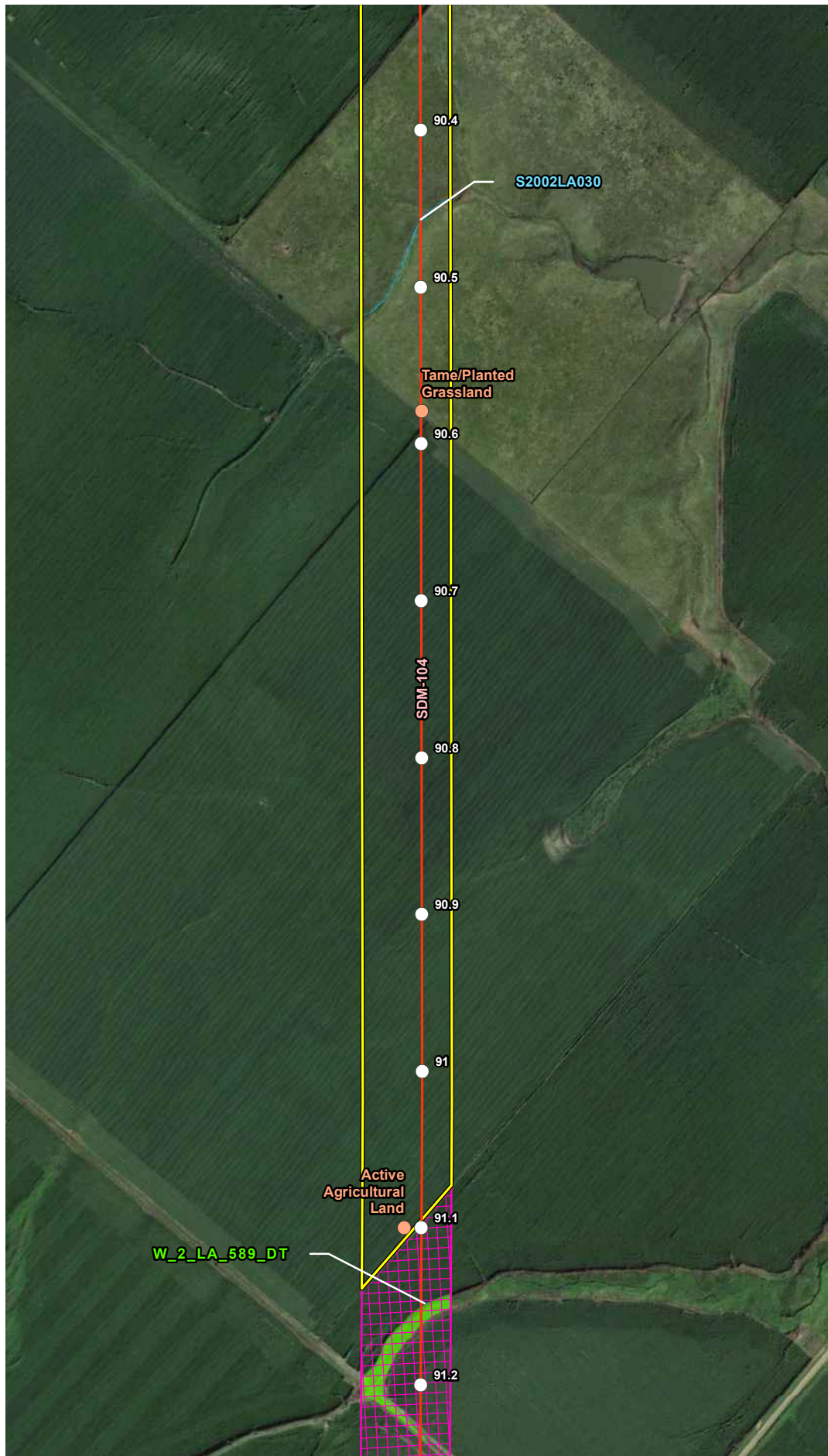
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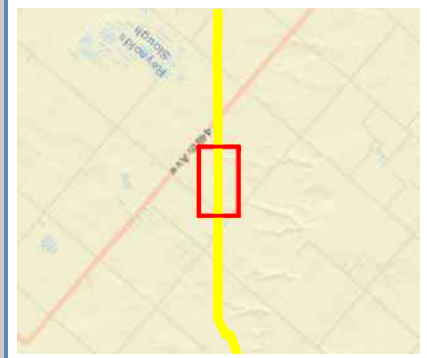
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

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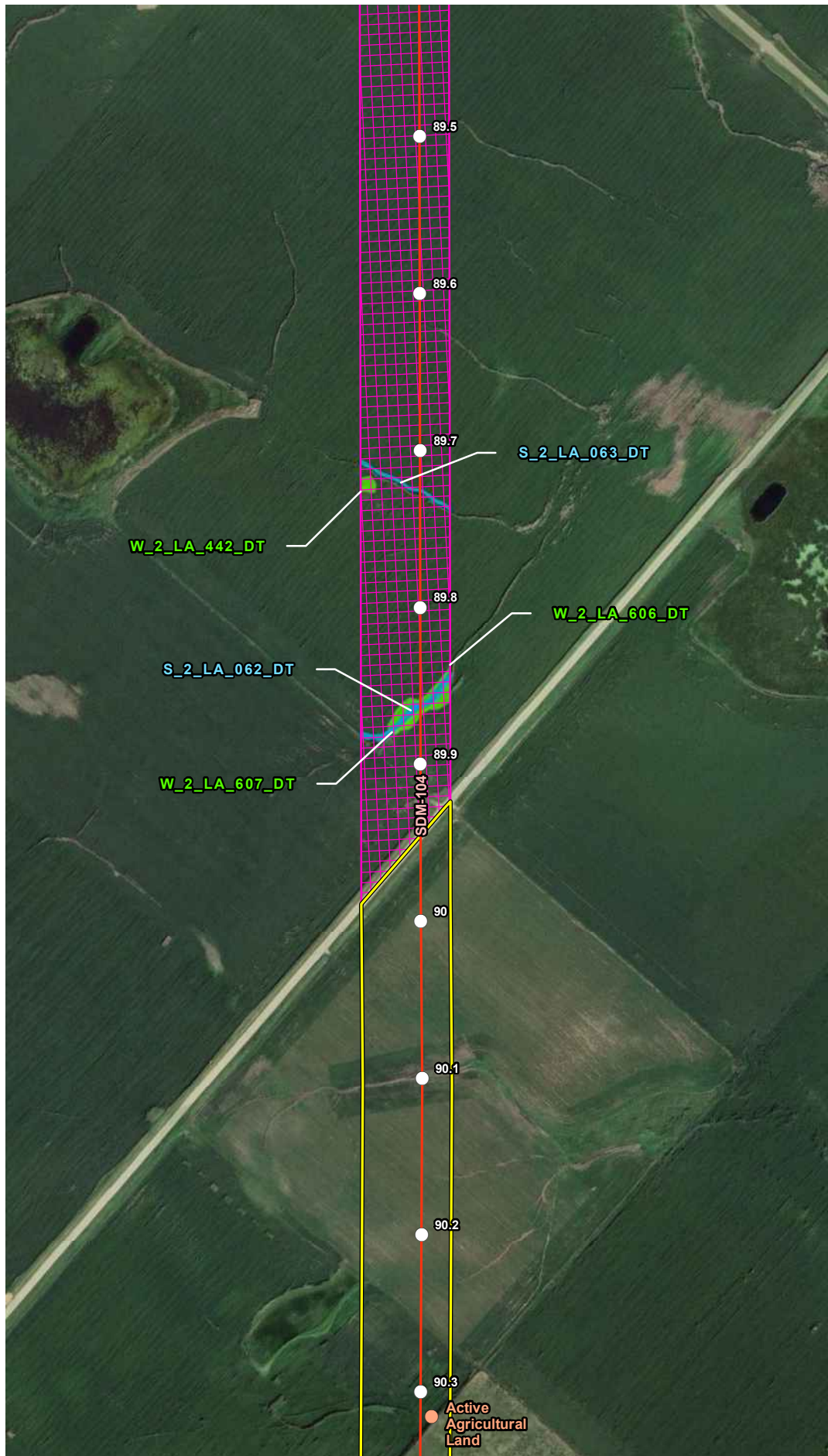
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Sheet 205 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

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0 250 500 Feet



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Figure Number: 2

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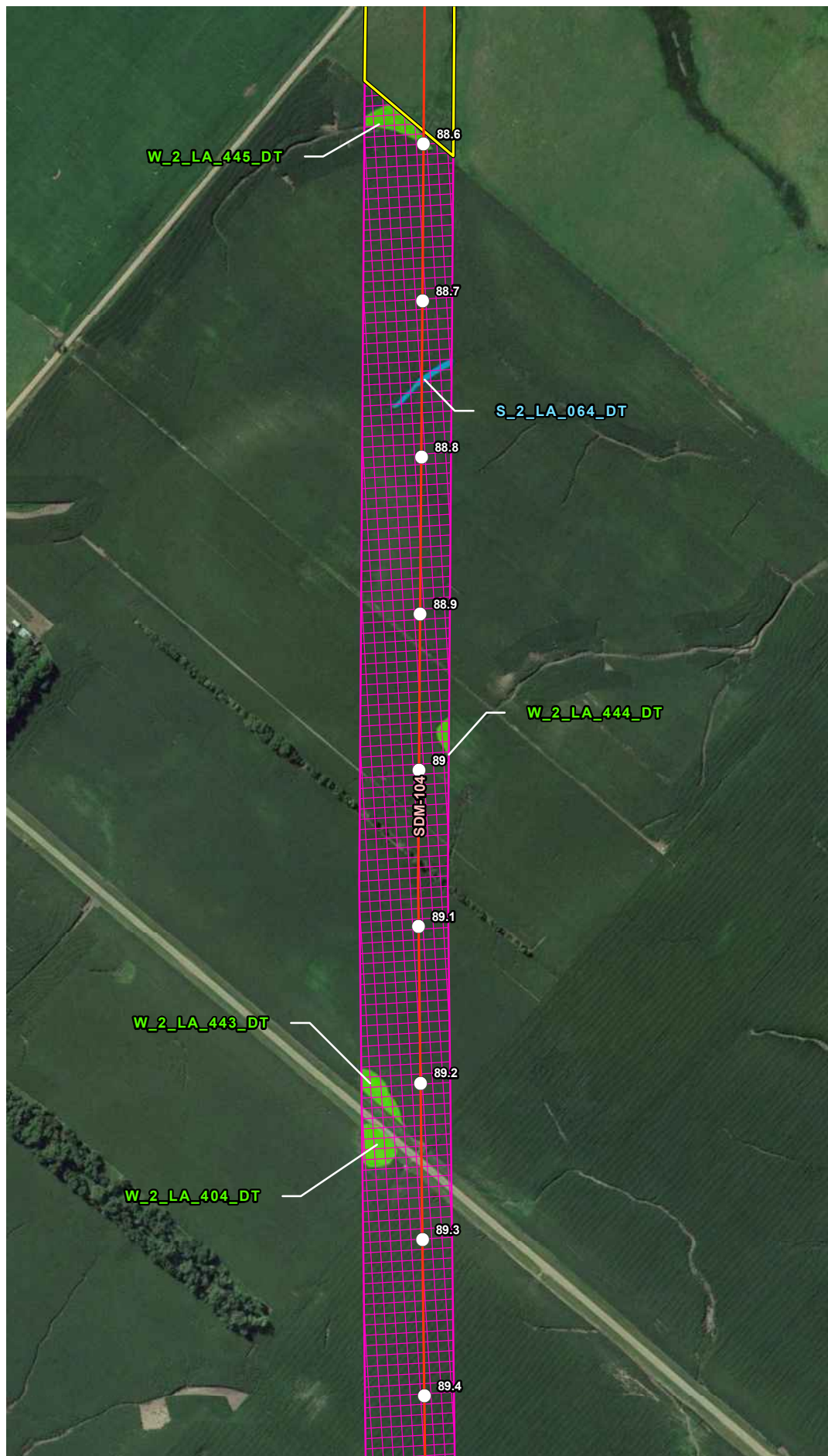
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Sheet:
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Sheet 206 of 517

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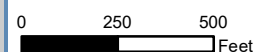


VICINITY MAP



LEGEND

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Scale:
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NAD 1983 UTM Zone 14N

Sheet:
207
Sheet 207 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
208
Sheet 208 of 517

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VICINITY MAP



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Figure Number:
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1 inch = 500 feet

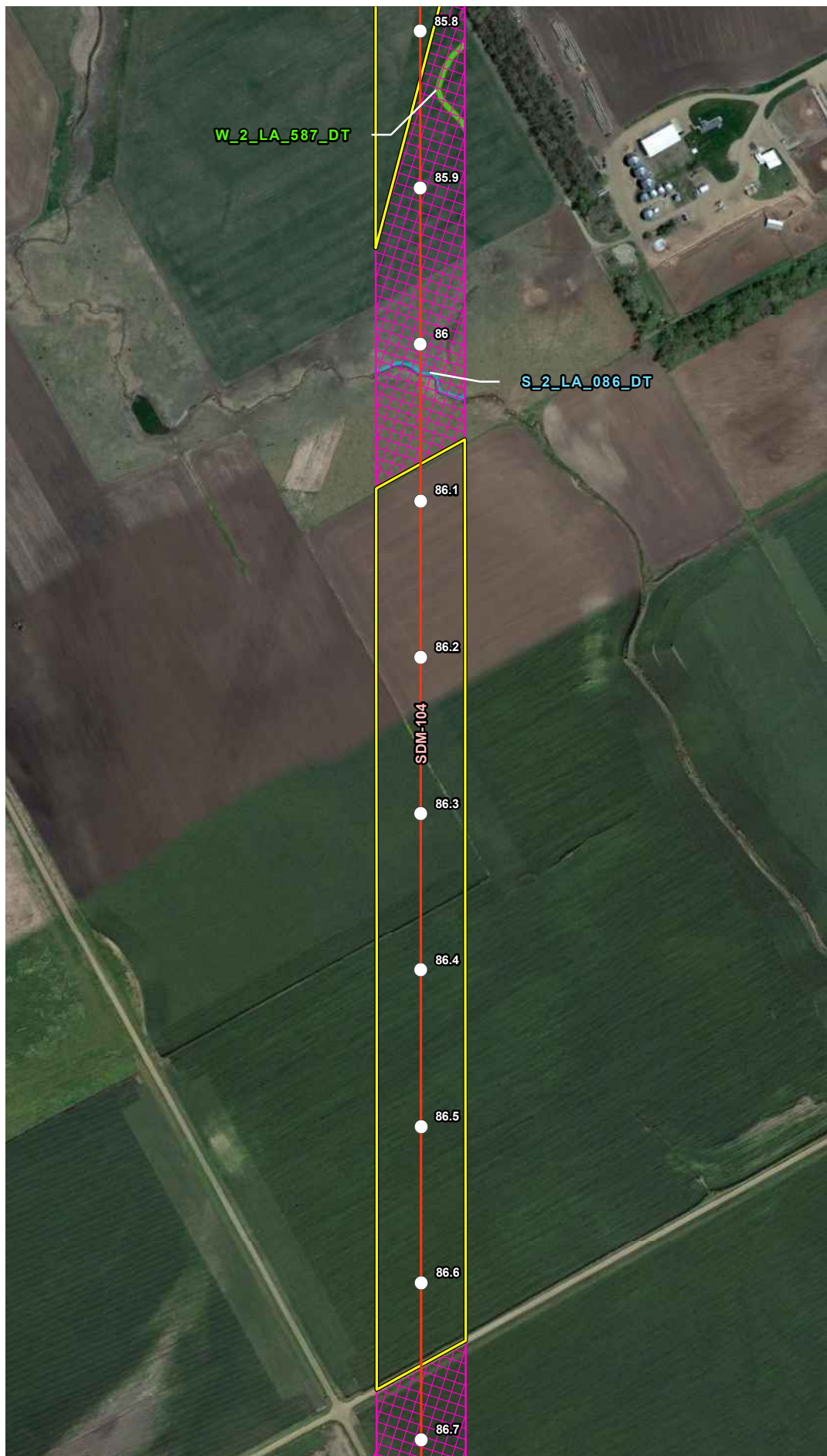
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NAD 1983 UTM Zone 14N

Sheet:
209
Sheet 209 of 517

Drawing Number:
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Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

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1 inch = 500 feet

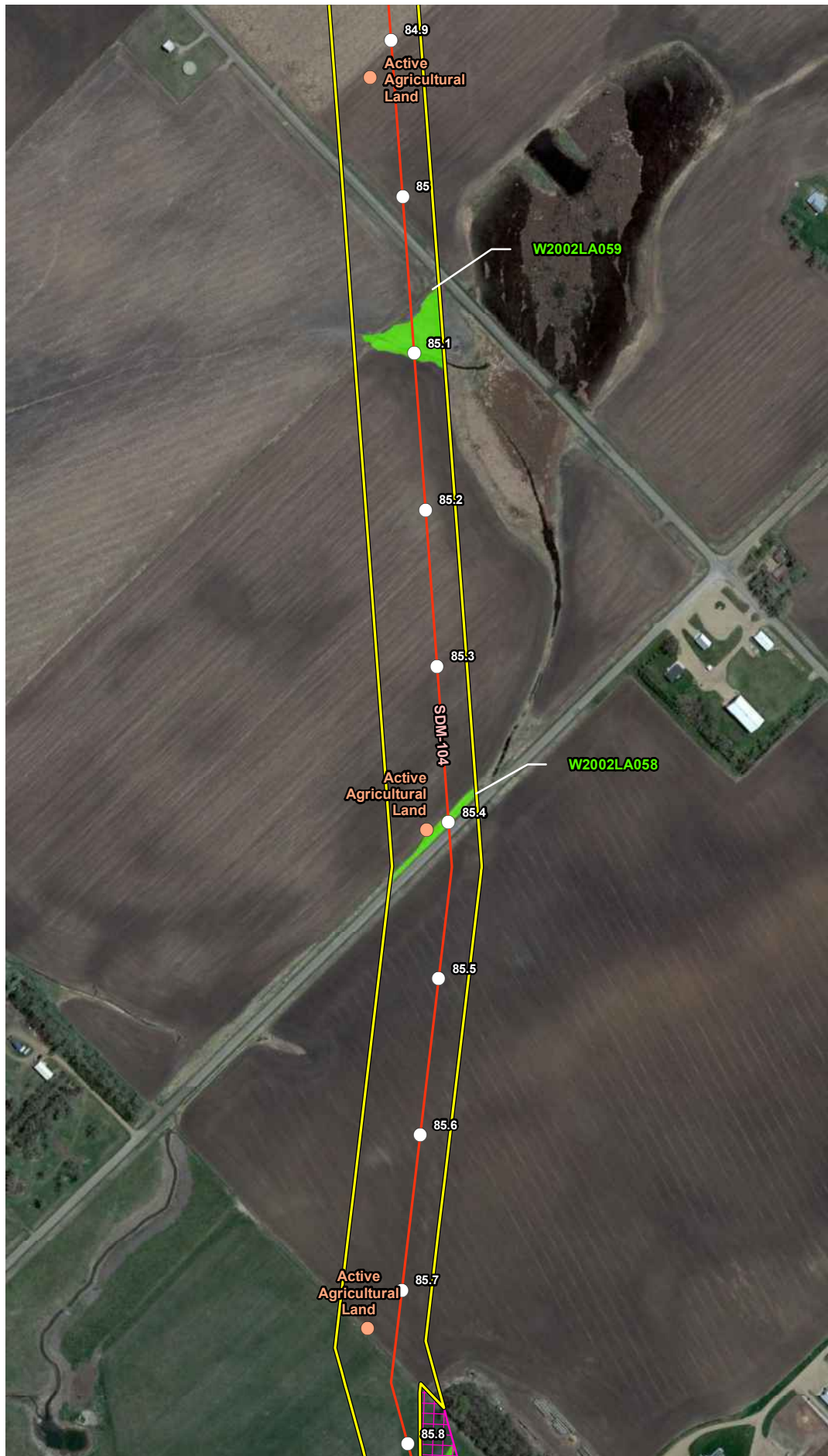
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NAD 1983 UTM Zone 14N

Sheet:
210
Sheet 210 of 517

Drawing Number:
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Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number: 2

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1 inch = 500 feet

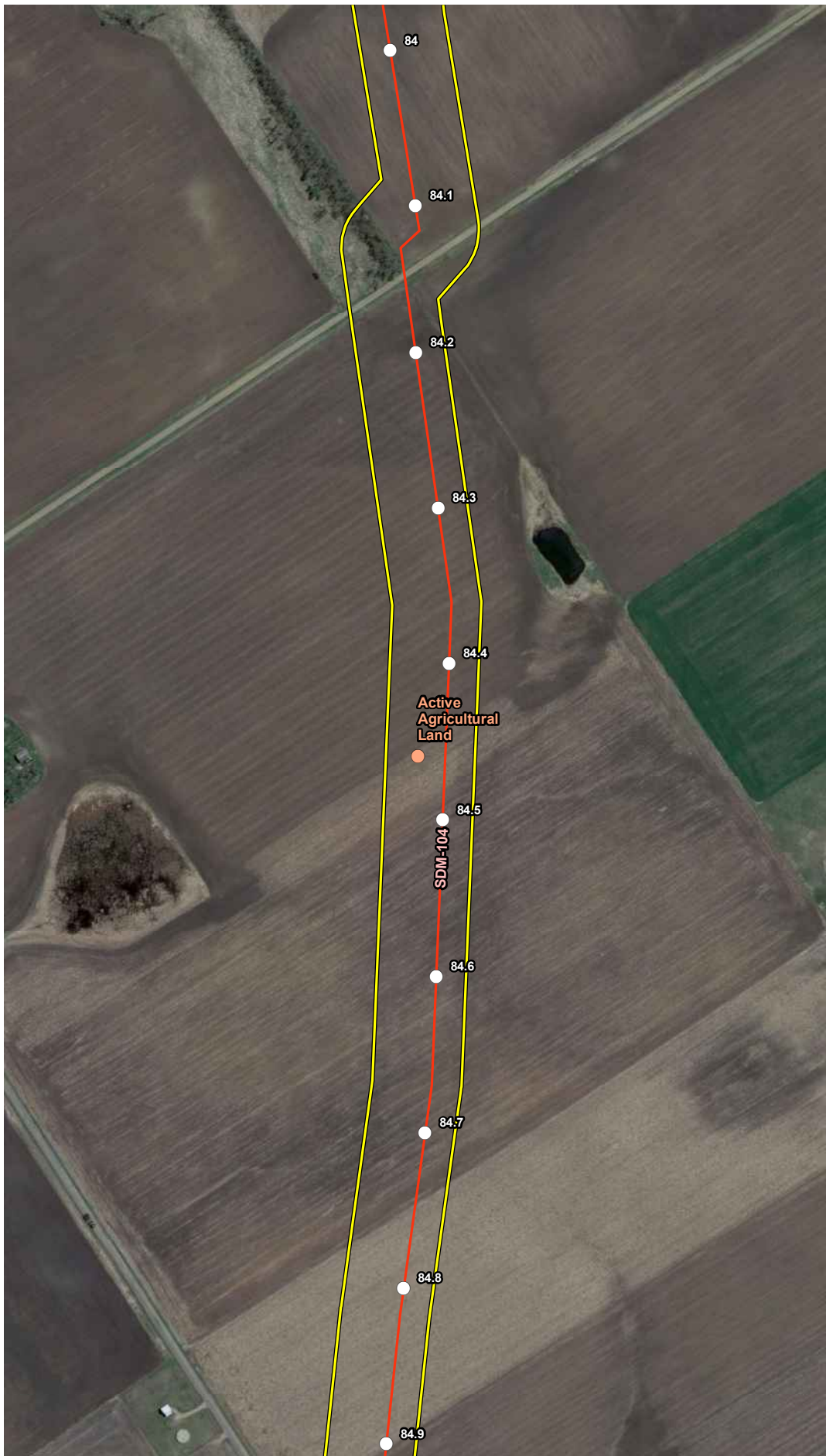
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Sheet:
211
Sheet 211 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

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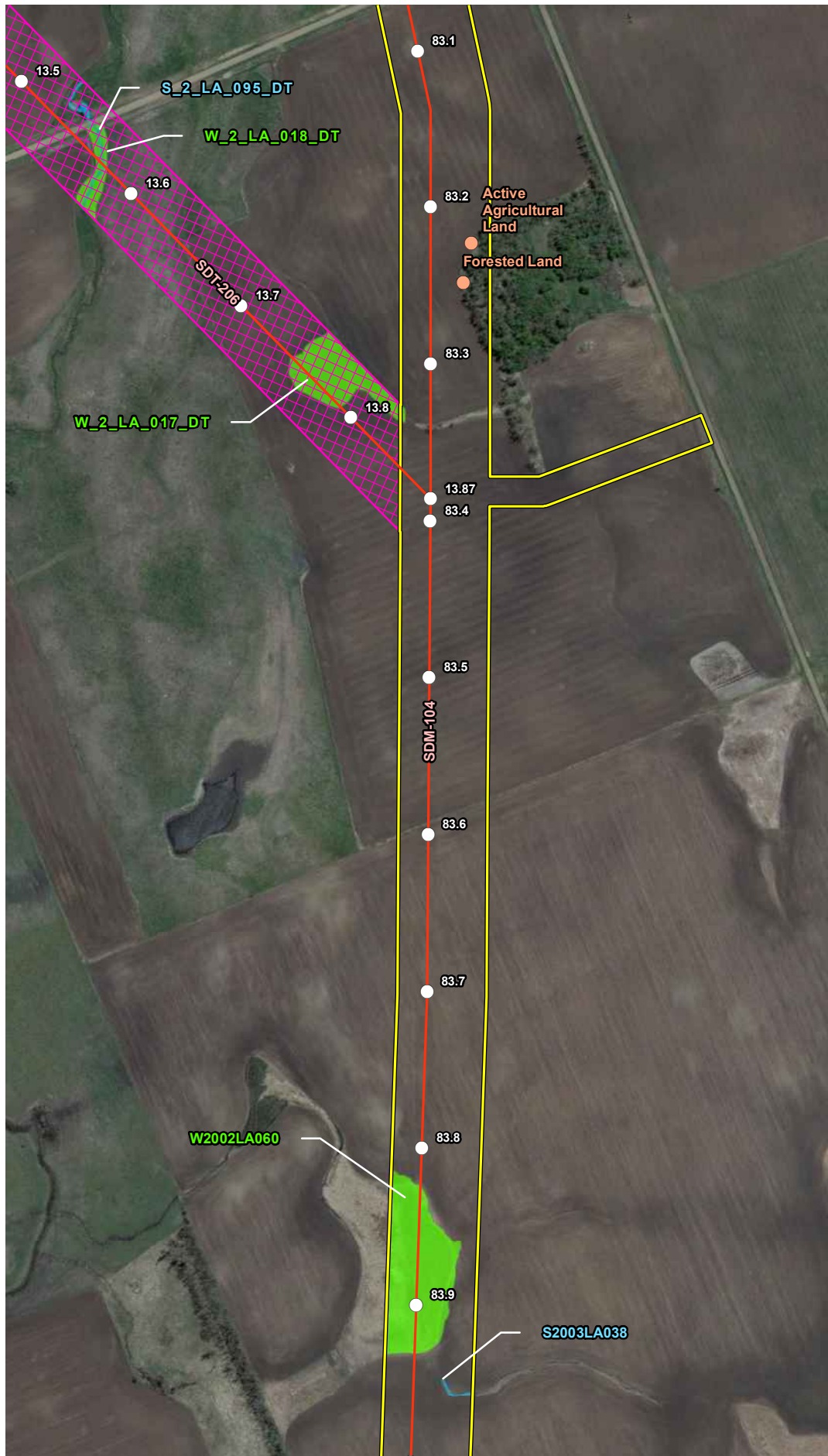
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NAD 1983 UTM Zone 14N

Sheet:
212
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
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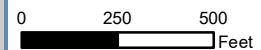


VICINITY MAP



LEGEND

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Projection:
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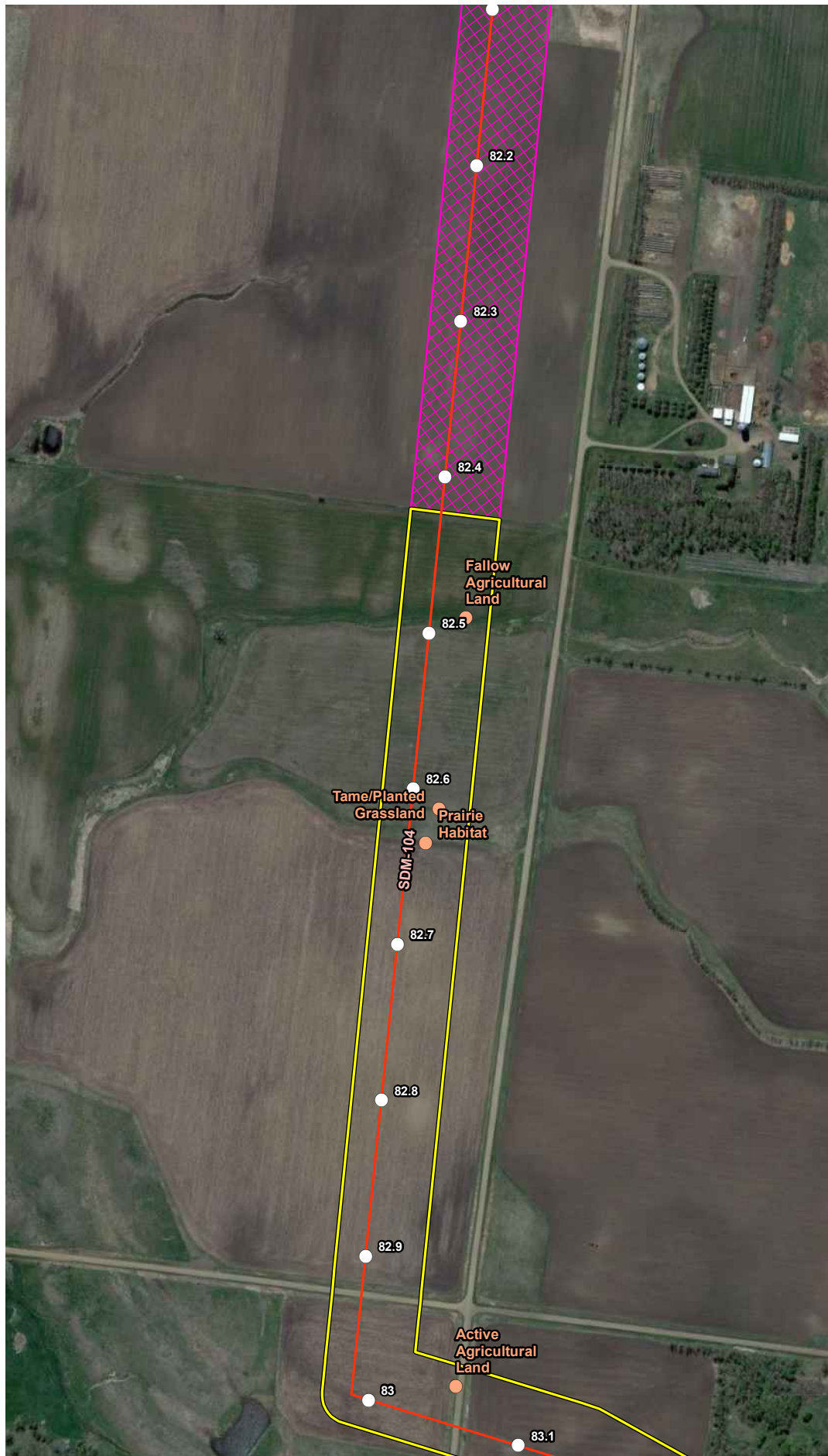
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AERIAL MAP



VICINITY MAP



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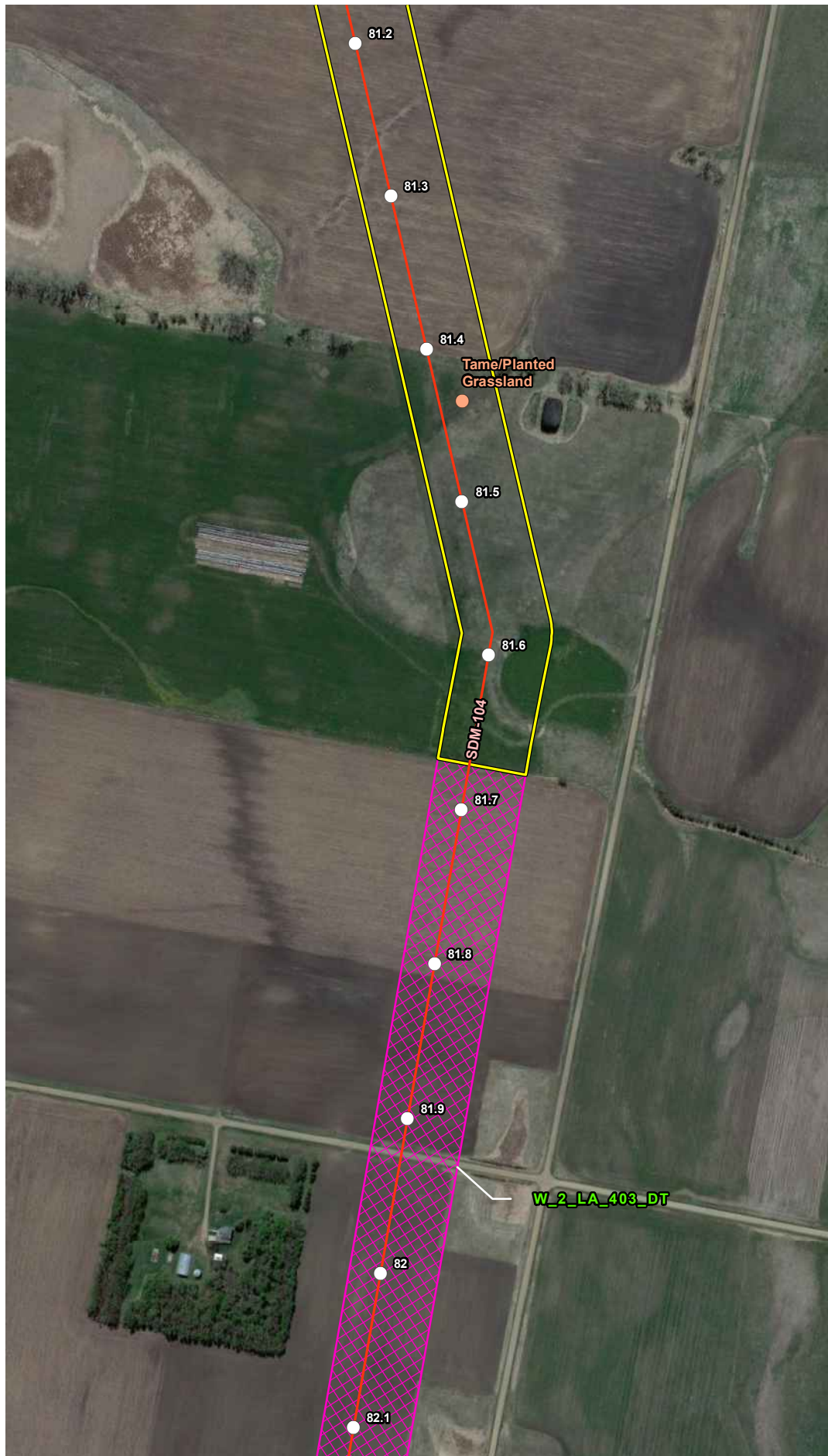
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Sheet 214 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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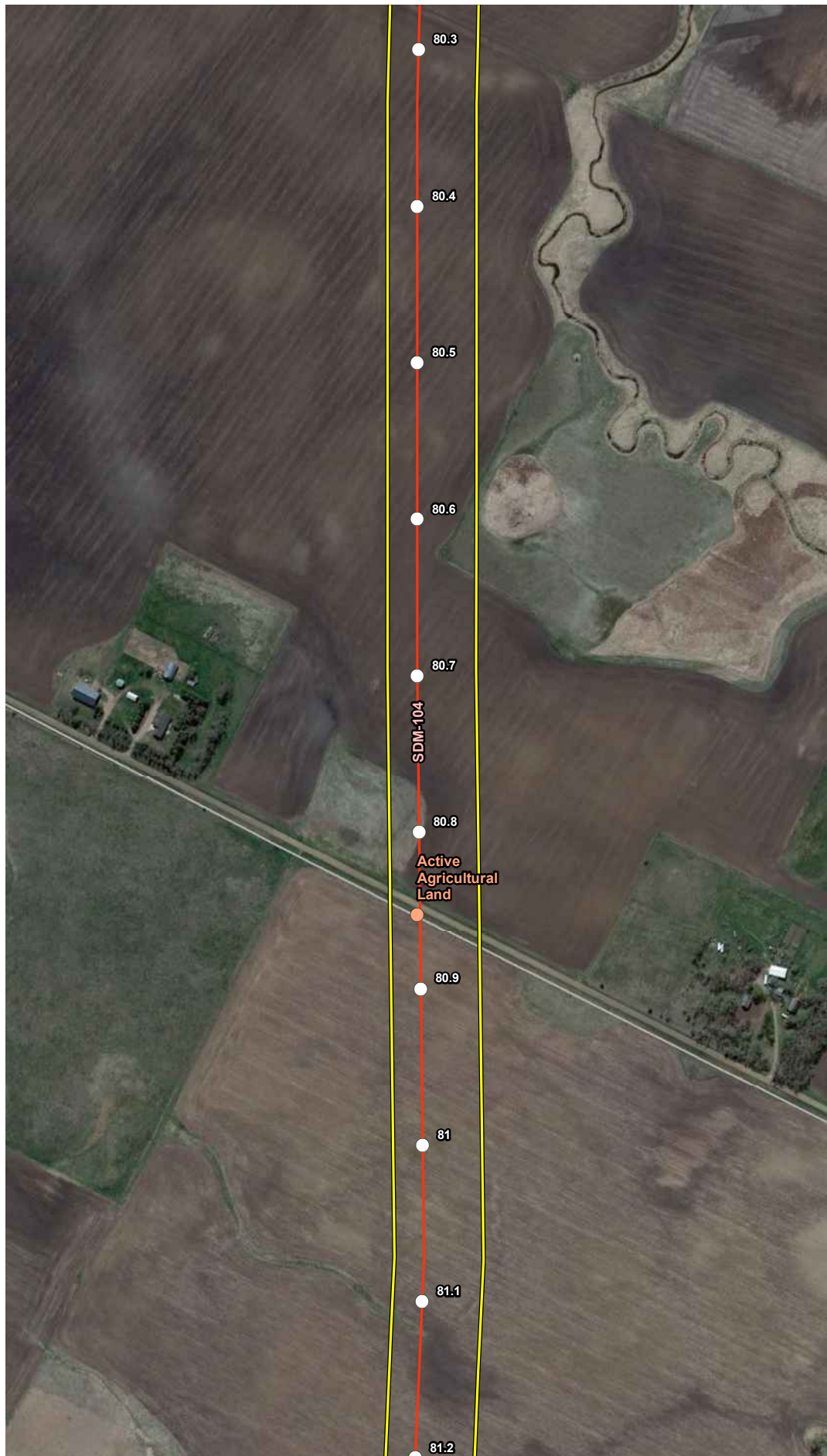
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Sheet 215 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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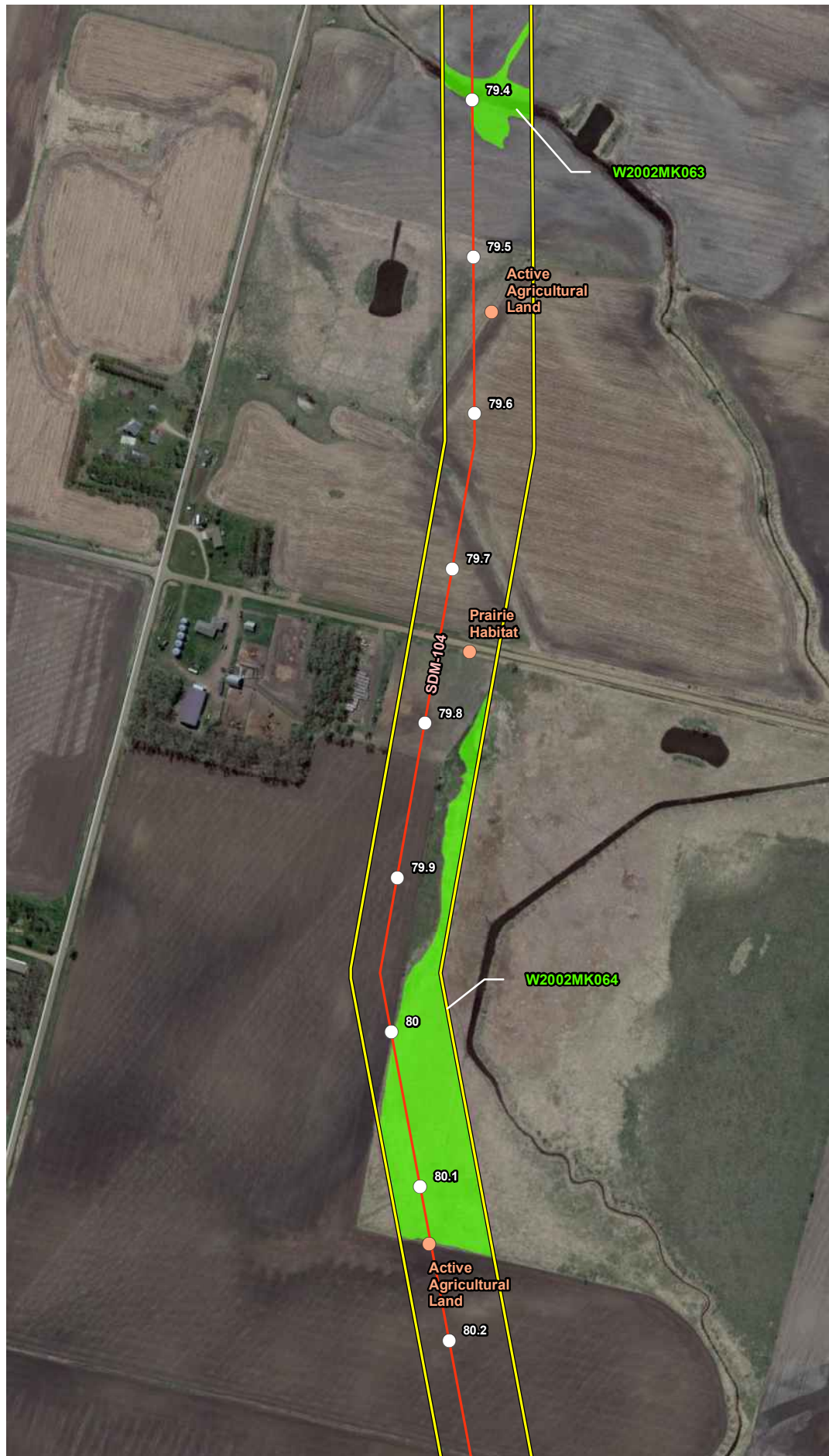
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Sheet 216 of 517

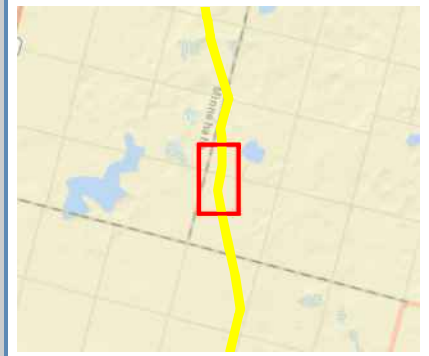
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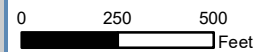


VICINITY MAP



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Sheet:
217
Sheet 217 of 517

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AERIAL MAP



VICINITY MAP



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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
218
Sheet 218 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

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Figure Number:

2

Scale:
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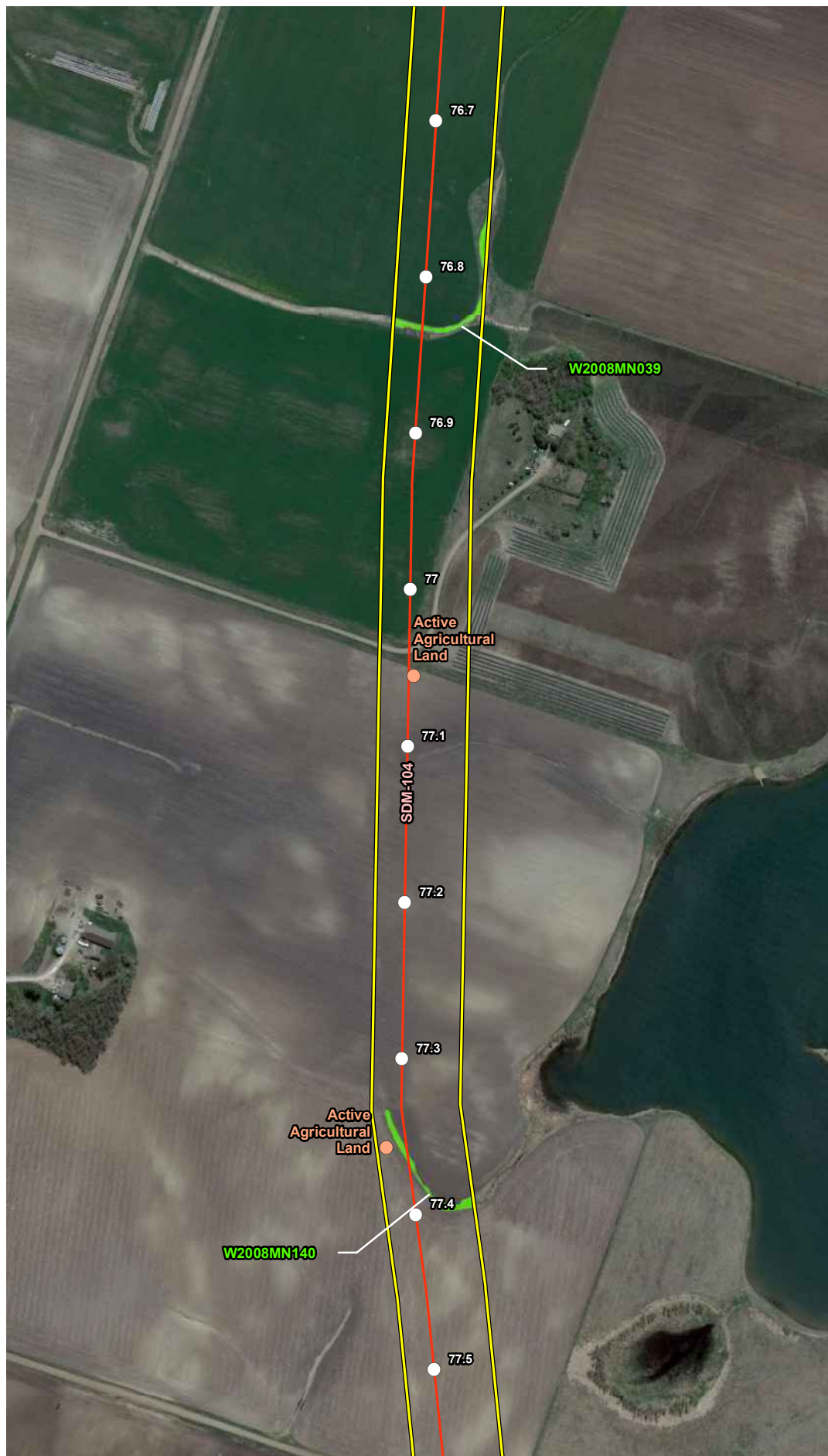
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
219
Sheet 219 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number:

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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
220
Sheet 220 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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Figure Number: 2

Scale:
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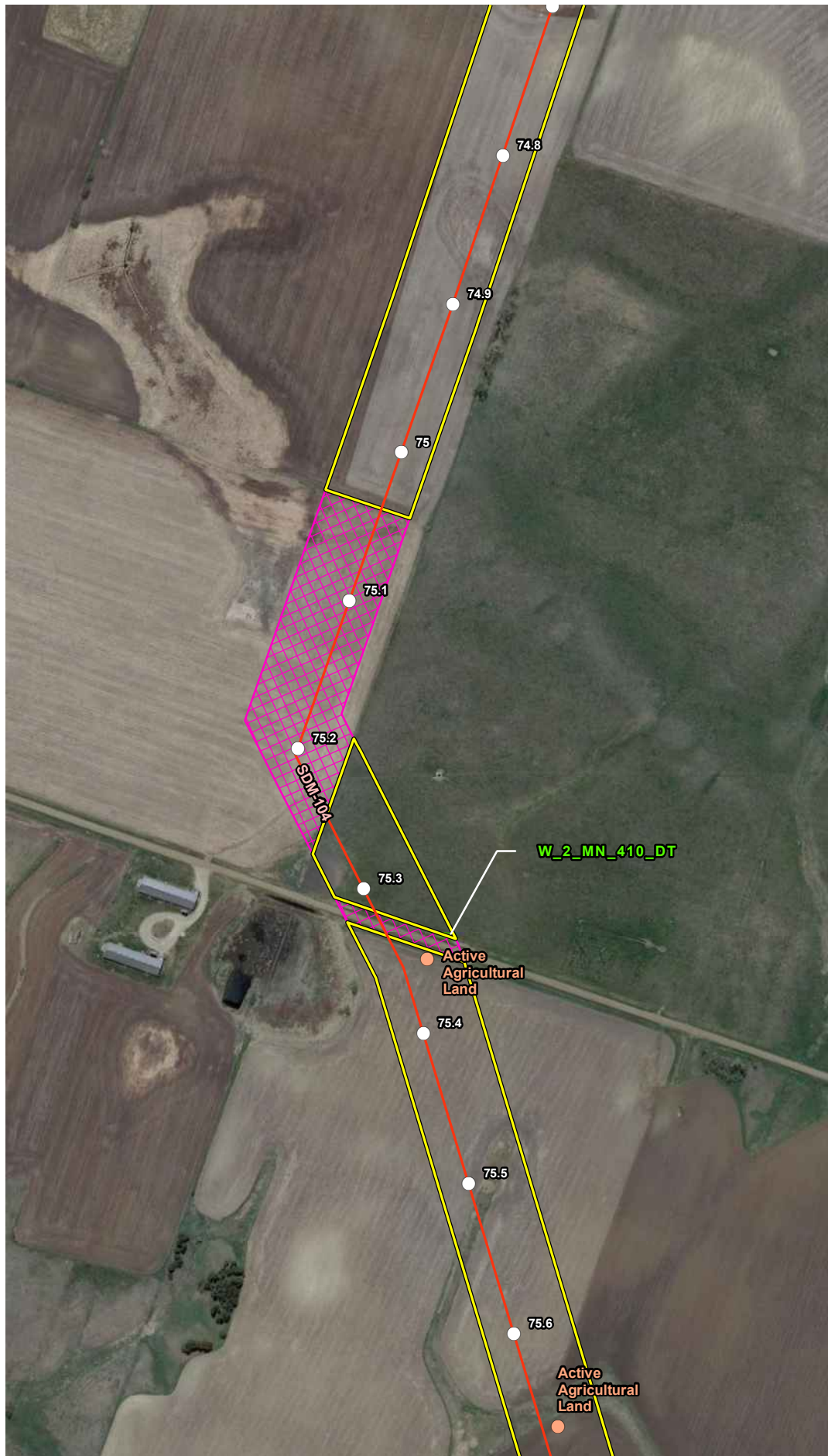
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
221
Sheet 221 of 517

Drawing Number:
2001-21-002
Current Revision

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VICINITY MAP



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2

Scale:
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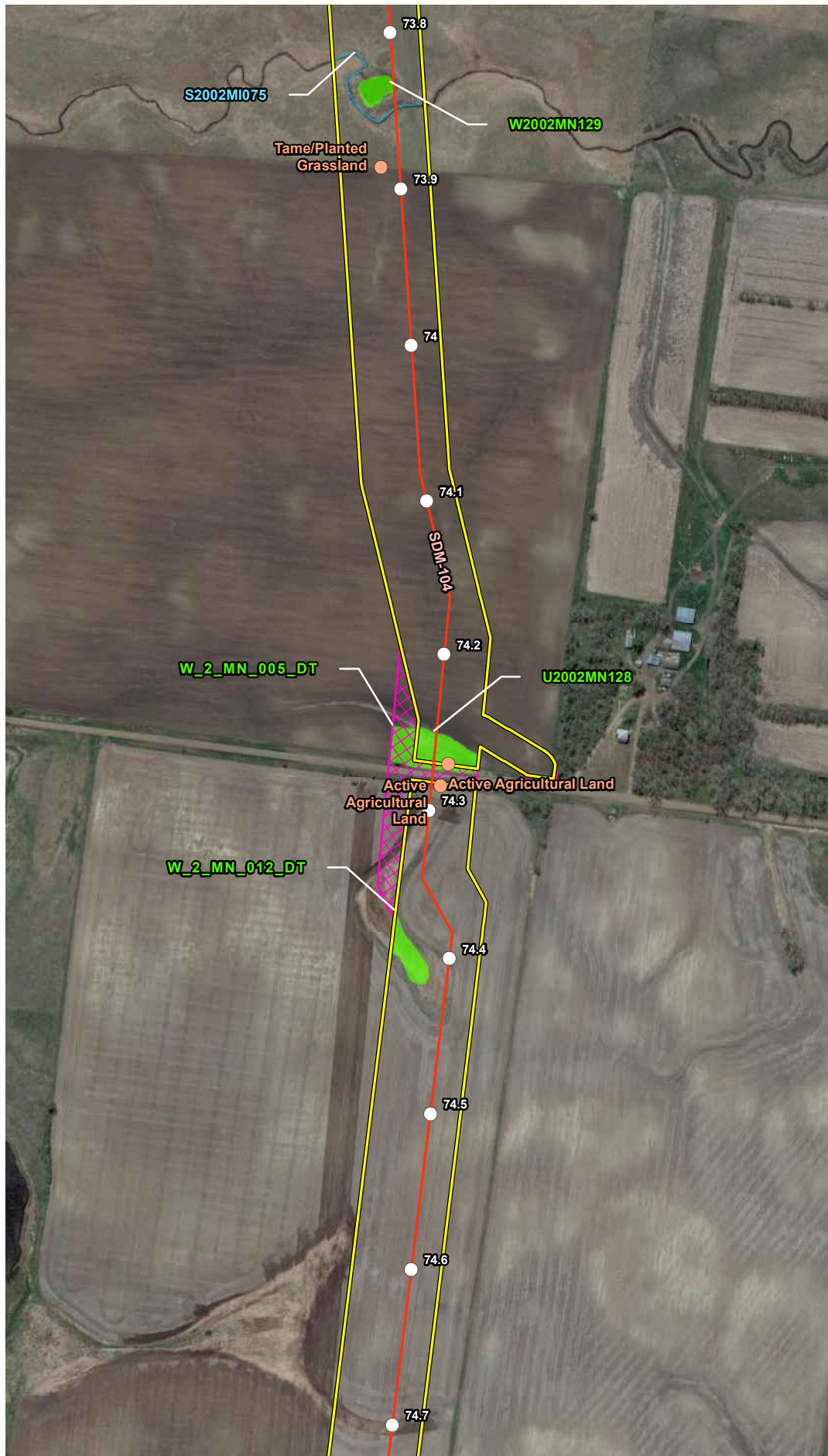
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
222
Sheet 222 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



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Scale:
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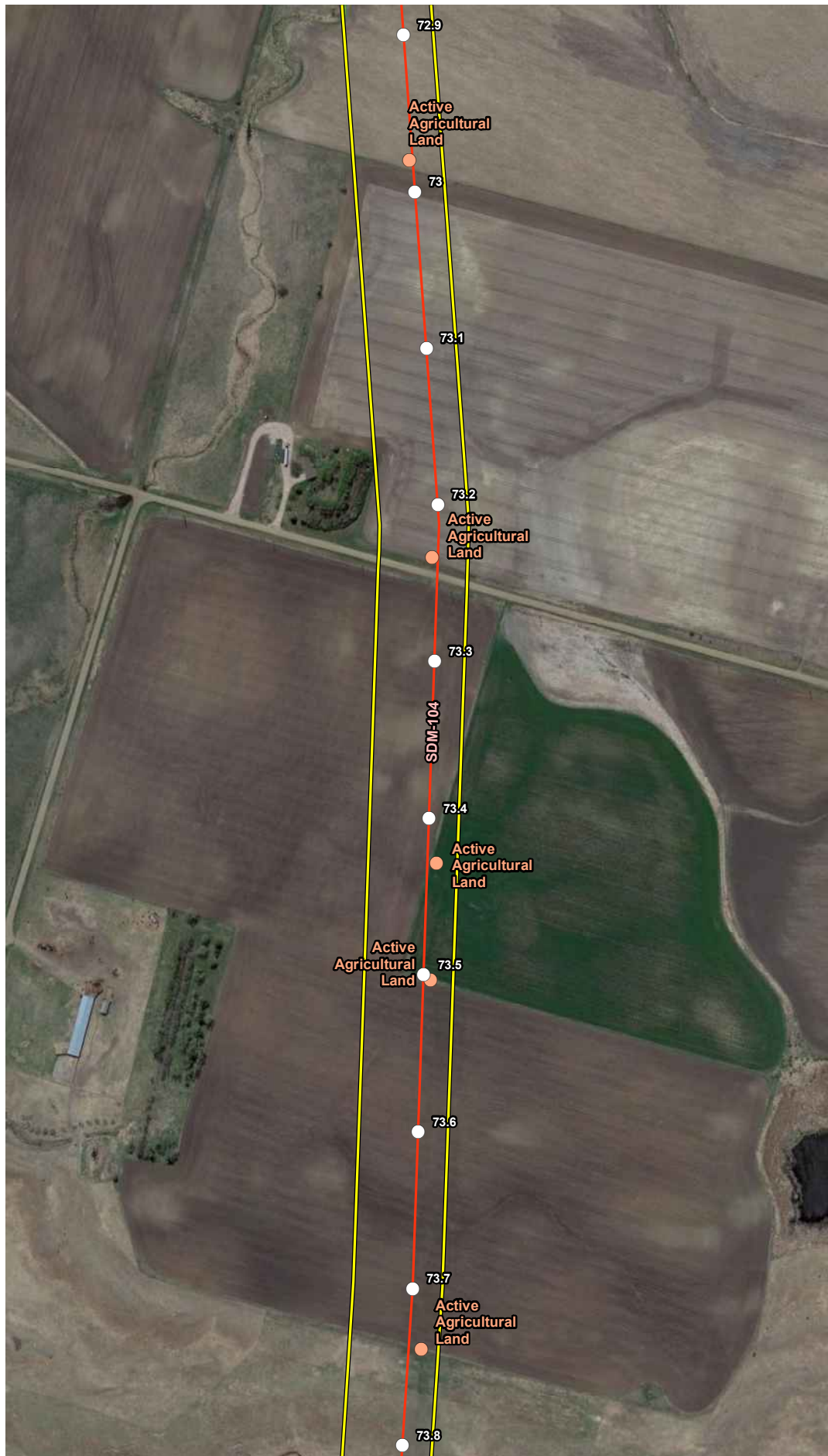
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
223
Sheet 223 of 517

Drawing Number:
2001-21-002
Current Revision

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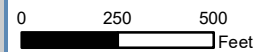


VICINITY MAP



LEGEND

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Scale:
Scale: 1:6,000
1 inch = 500 feet

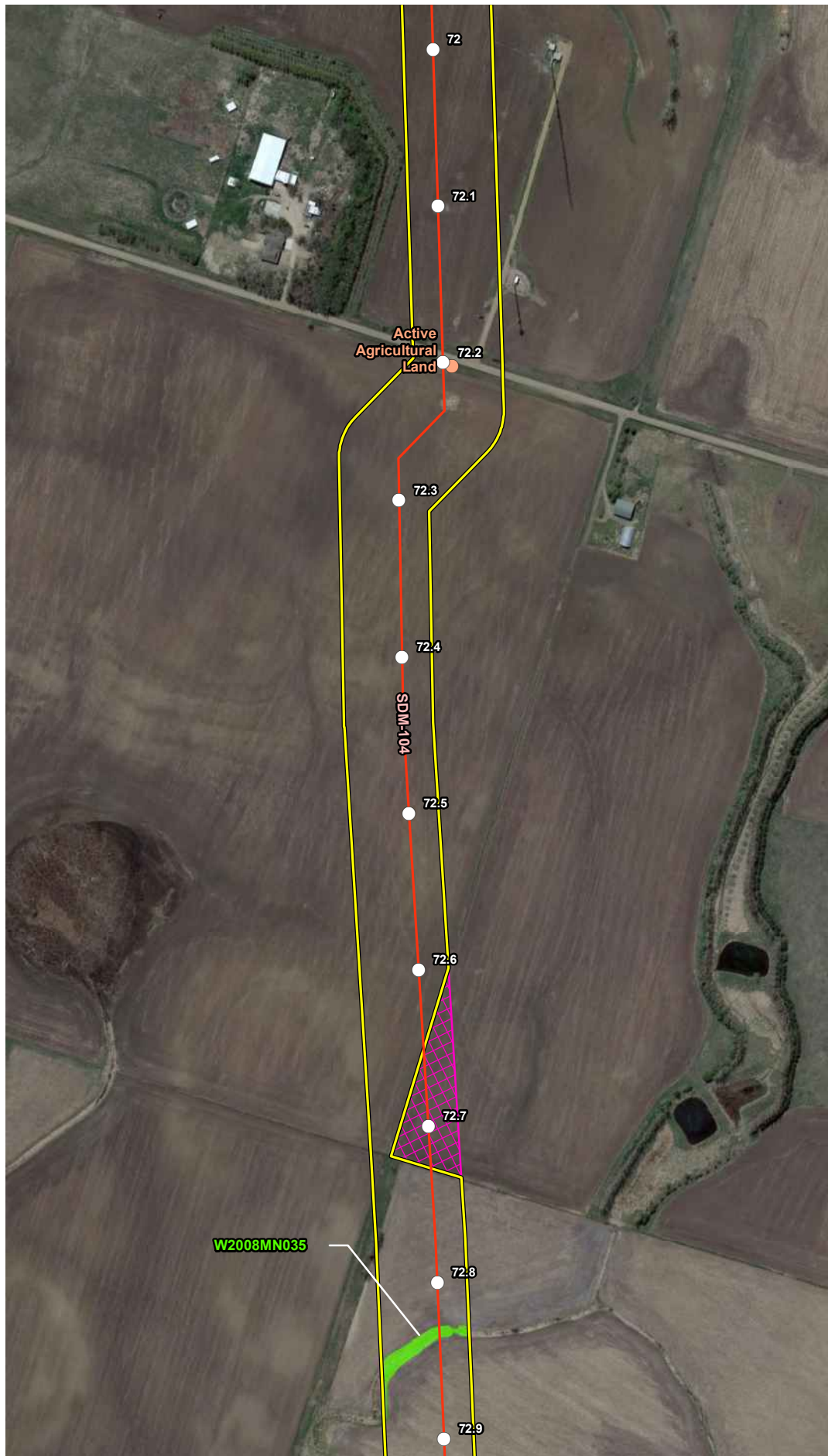
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
224
Sheet 224 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
225
Sheet 225 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500
Feet



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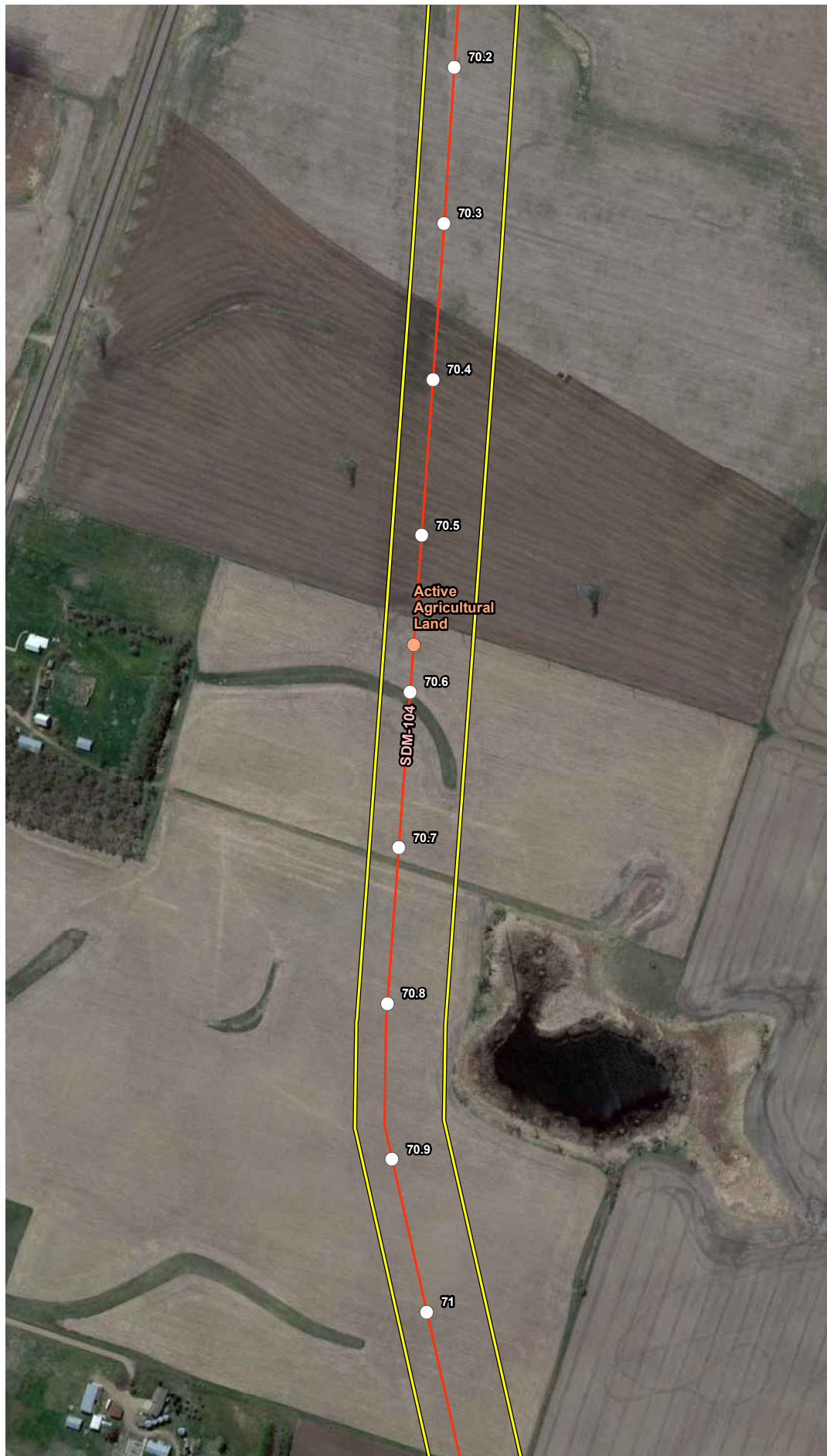
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
226
Sheet 226 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500
Feet



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2

Scale:
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1 inch = 500 feet

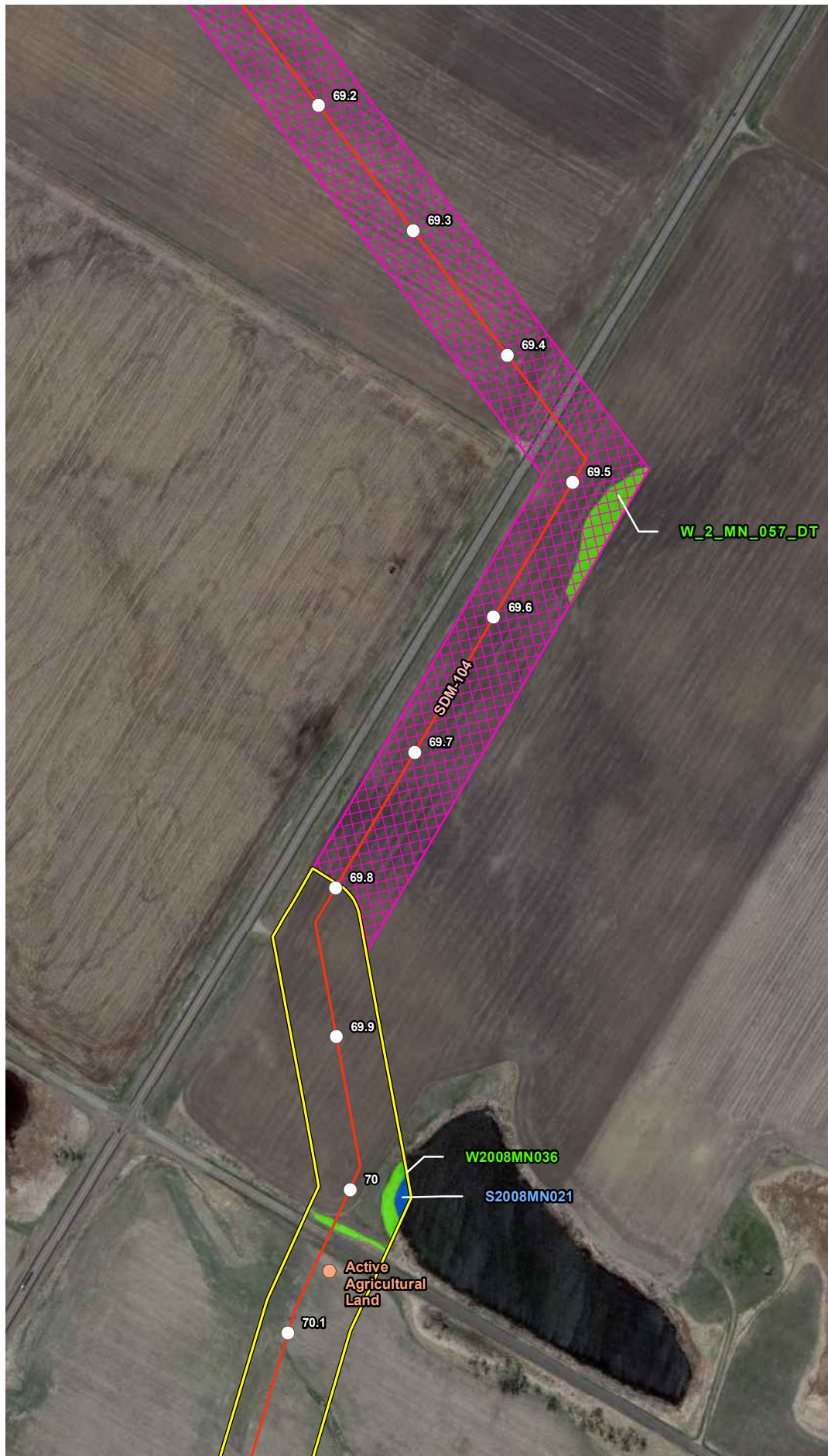
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NAD 1983 UTM Zone 14N

Sheet:
227
Sheet 227 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

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0 250 500 Feet



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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

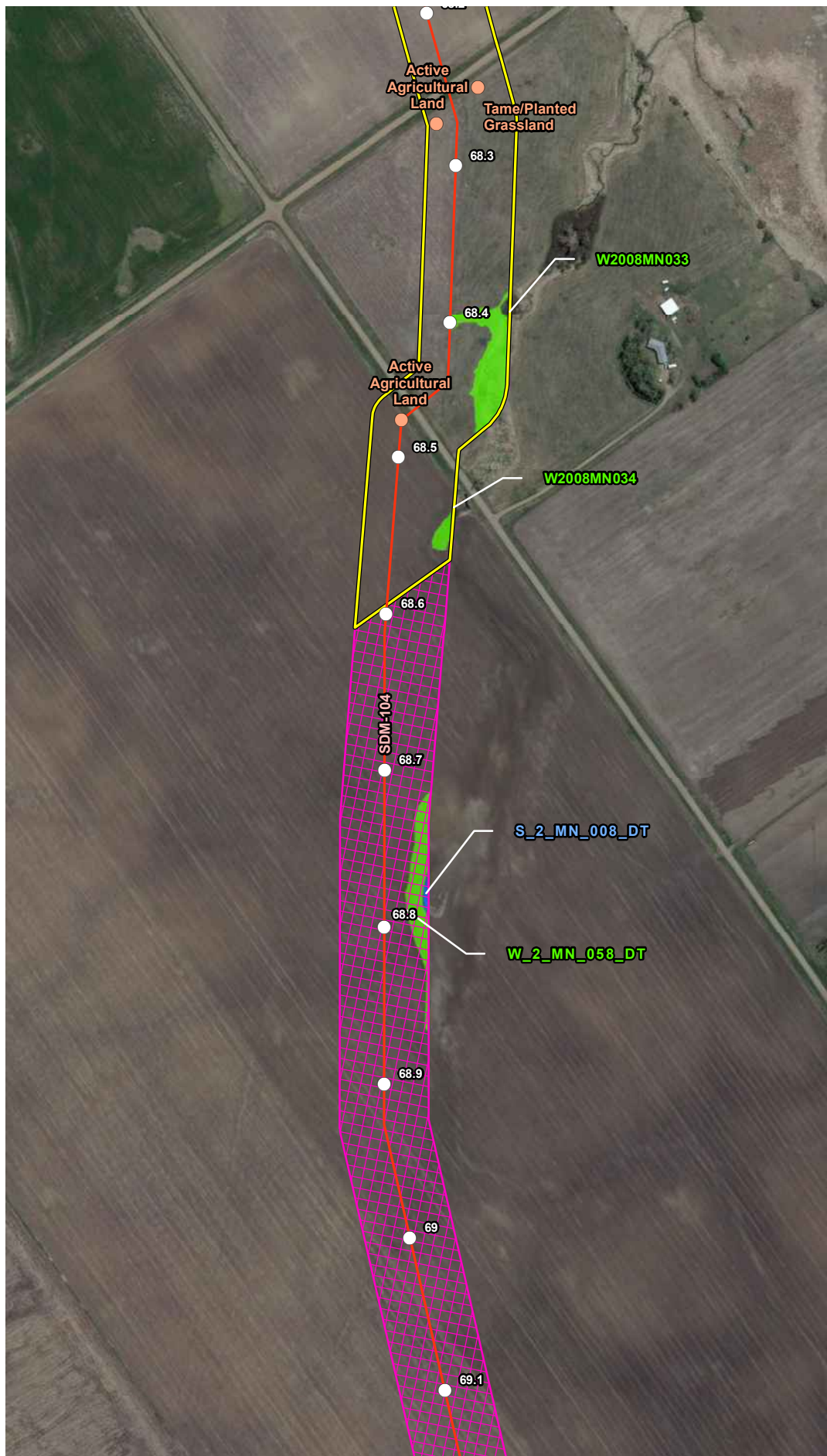
Projection:
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Sheet:
228
Sheet 228 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number: 2

Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
229
Sheet 229 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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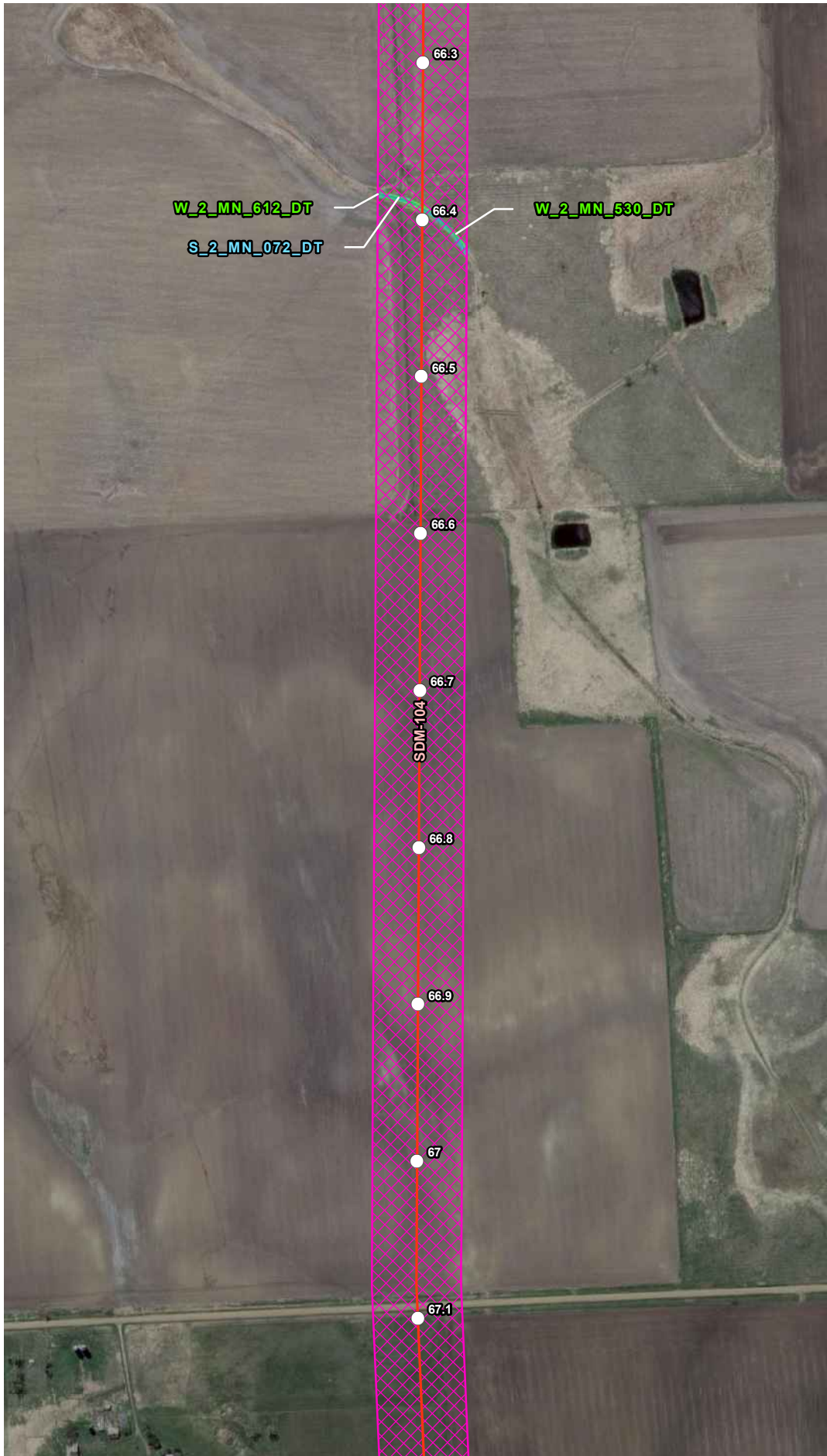
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Sheet:
230
Sheet 230 of 517

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AERIAL MAP

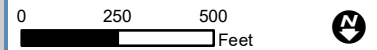


VICINITY MAP



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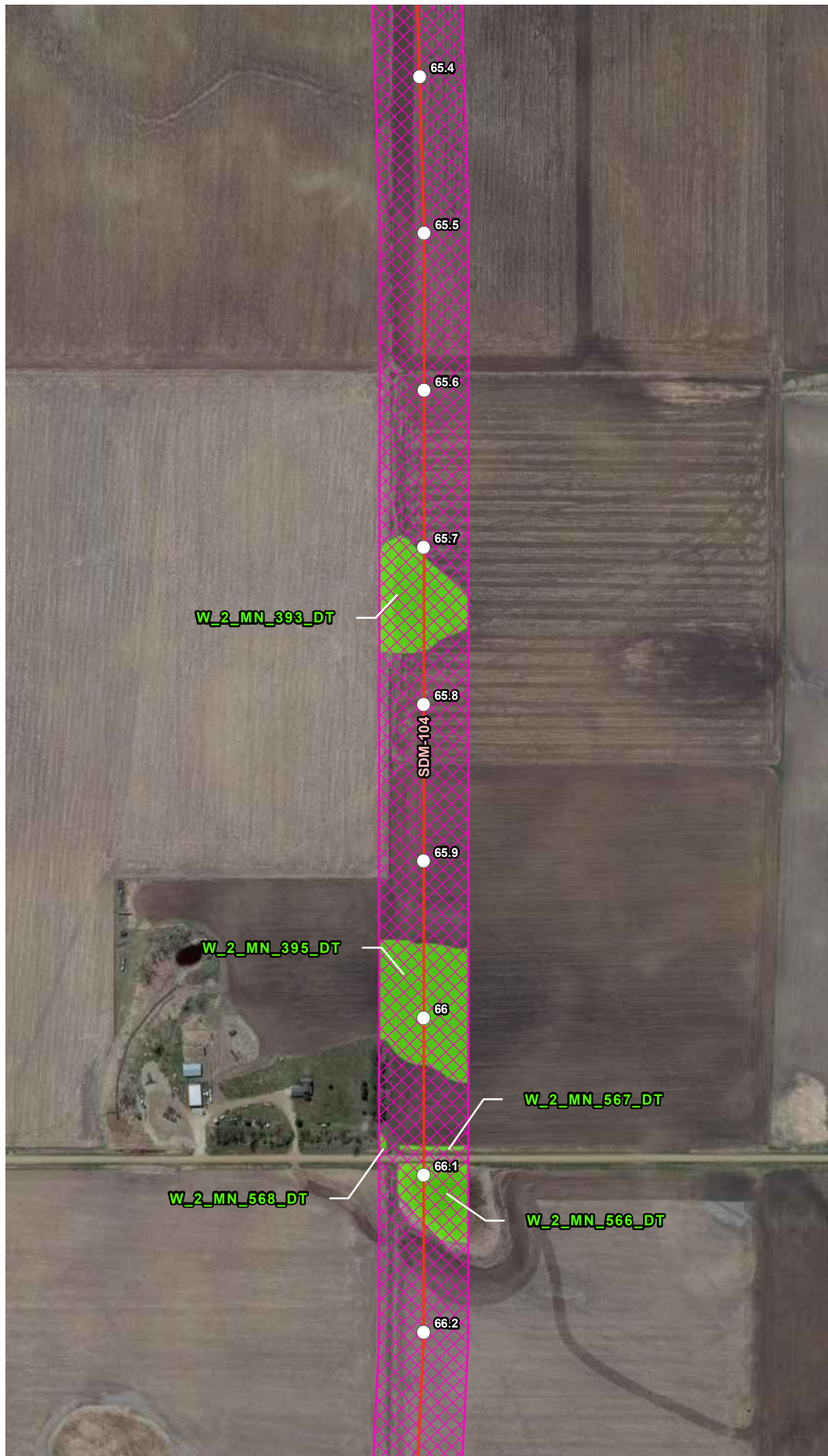
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231
Sheet 231 of 517

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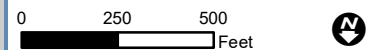


VICINITY MAP



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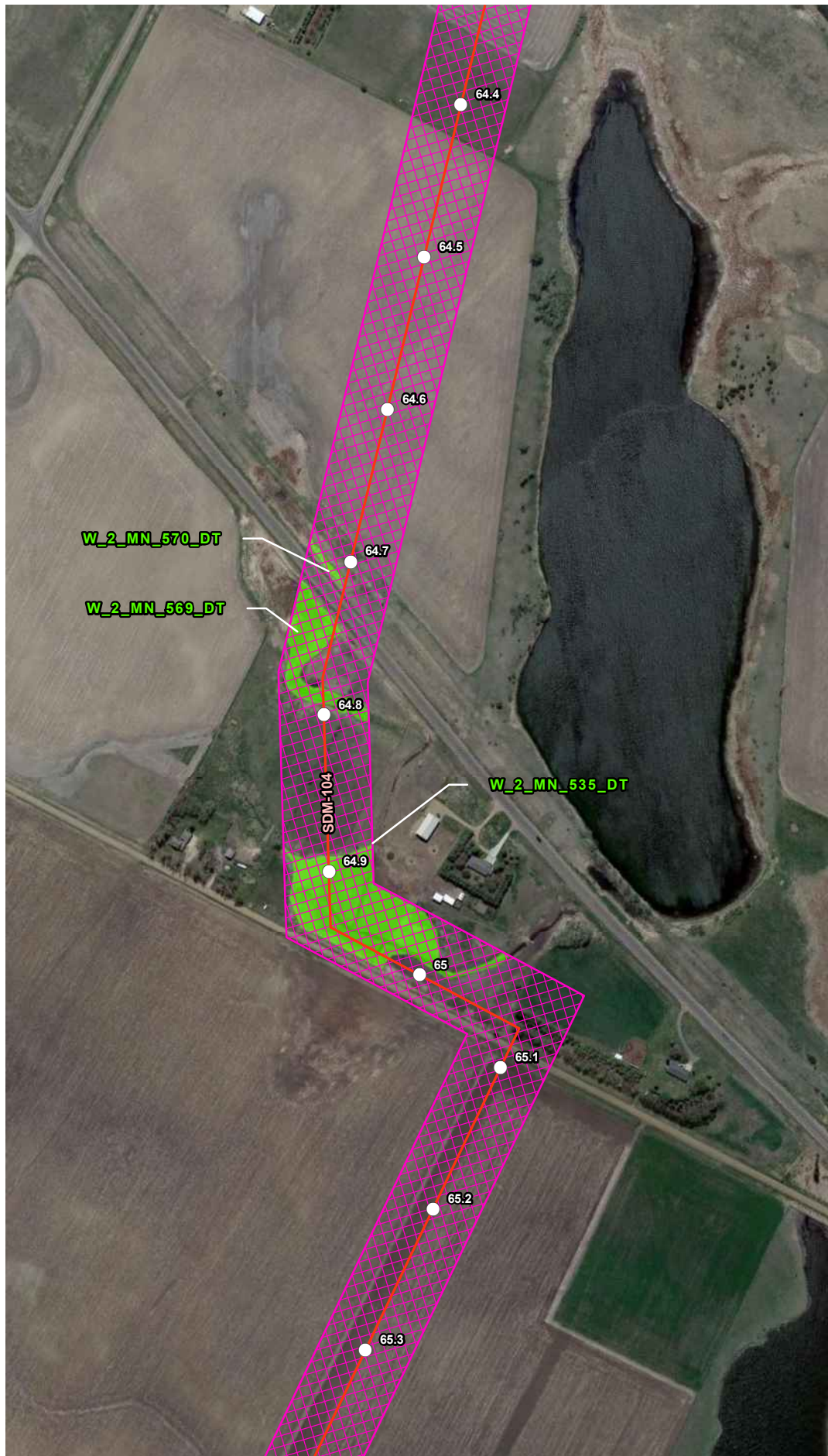
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Sheet:
232
Sheet 232 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

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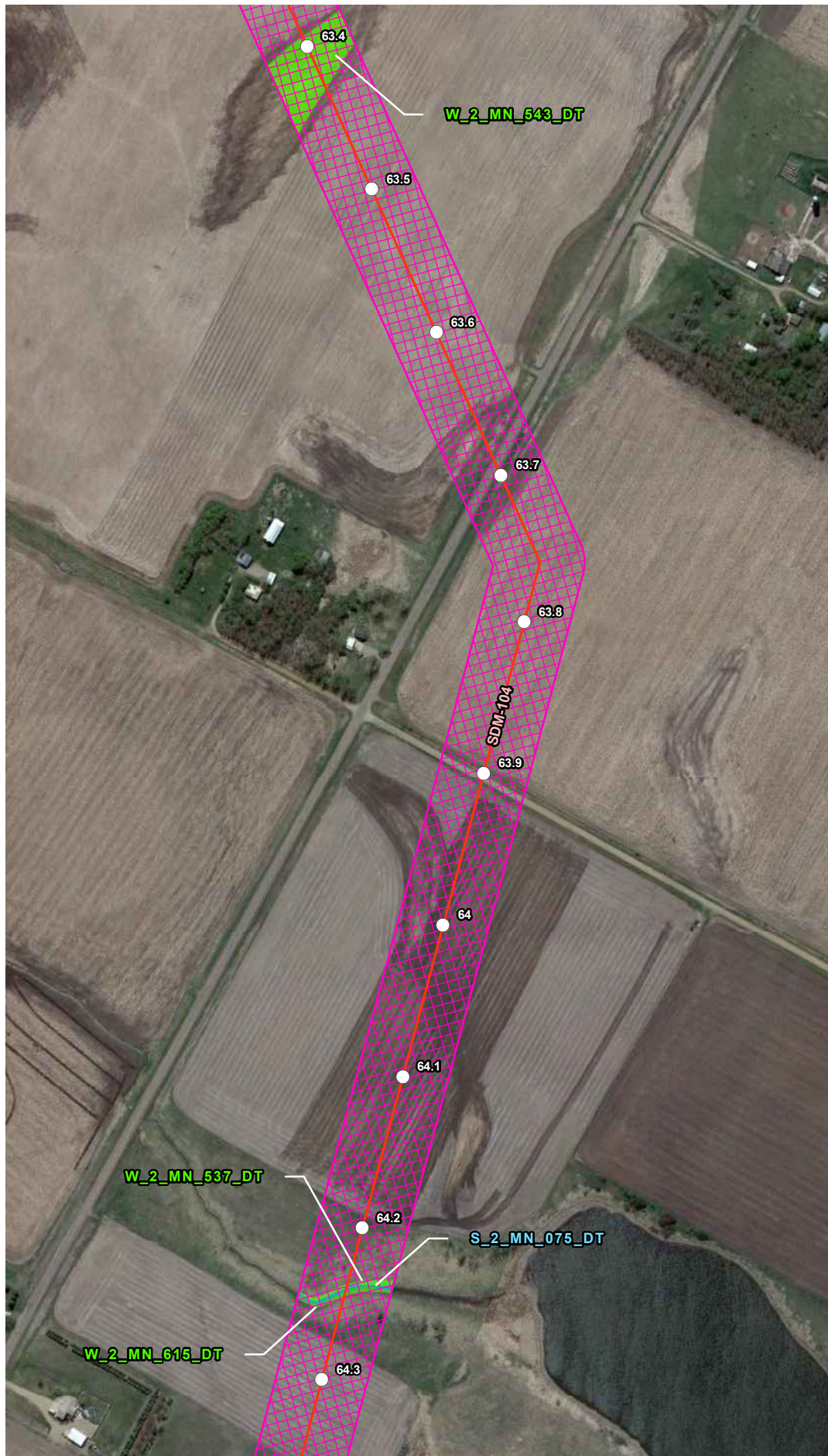
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NAD 1983 UTM Zone 14N

Sheet:
233
Sheet 233 of 517

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Scale: 1:6,000
1 inch = 500 feet

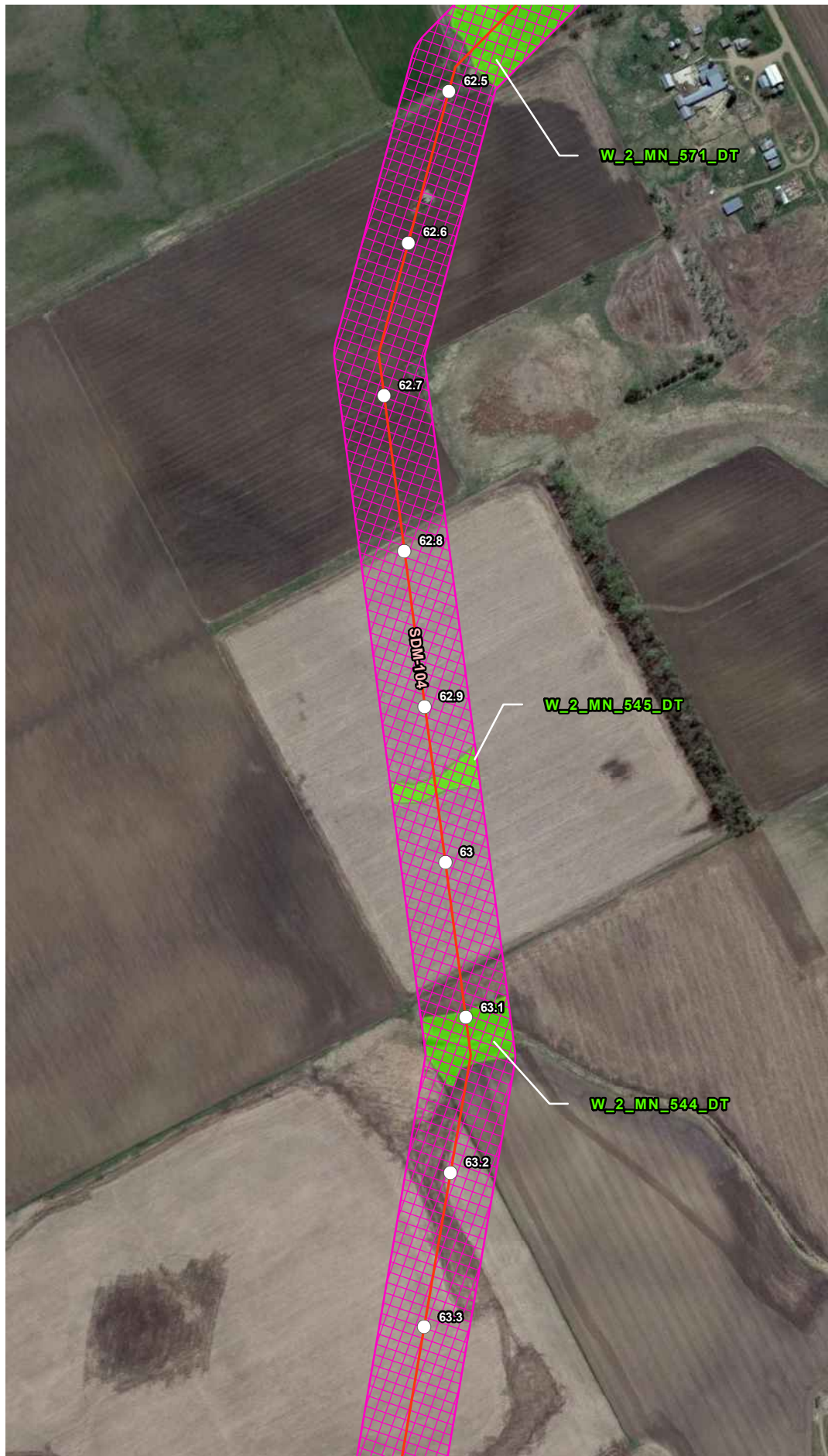
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
234
Sheet 234 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
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- Stream
- Open Water
- PEM Wetland
- PFO Wetland
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- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

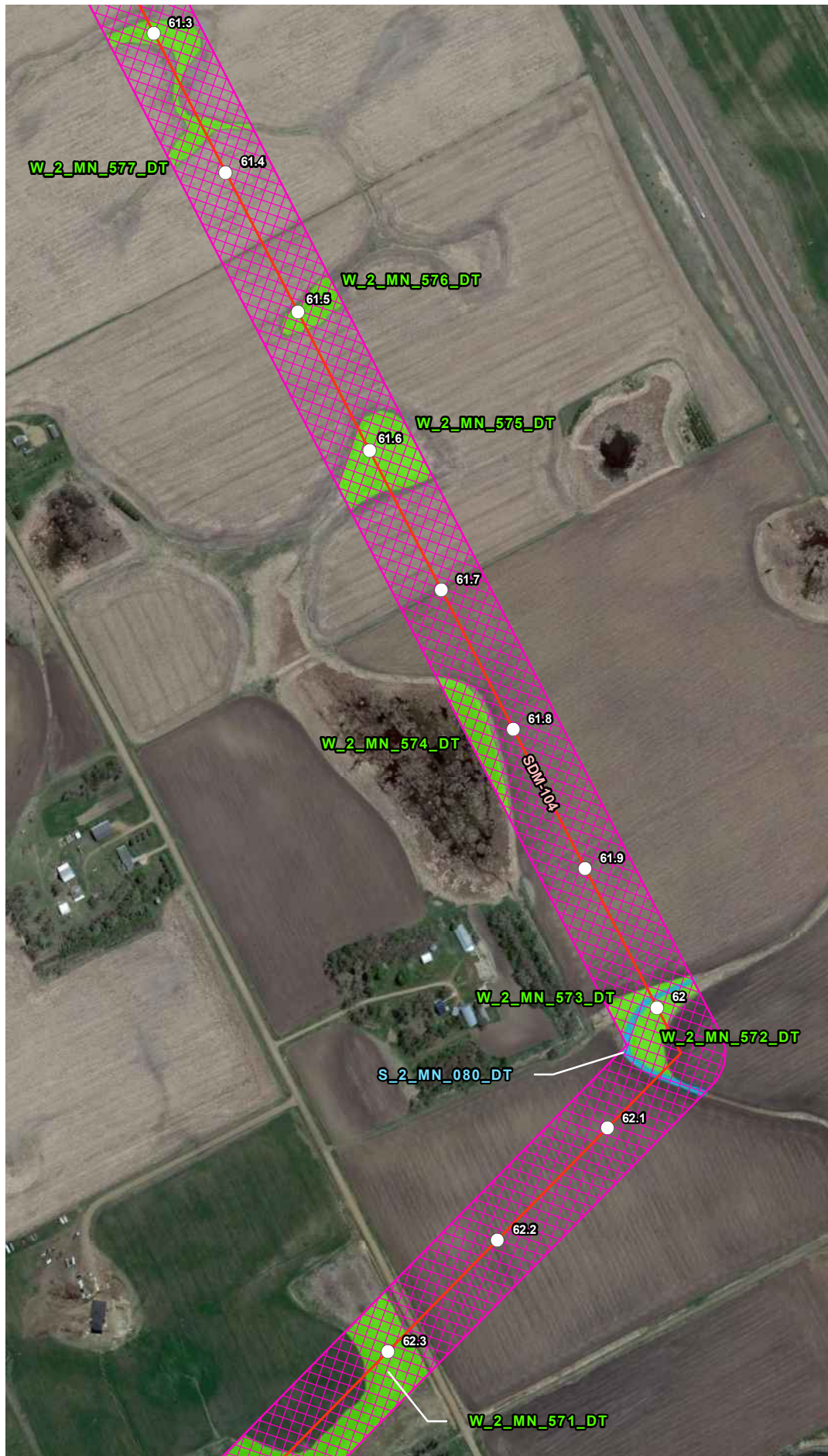
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Sheet:
235
Sheet 235 of 517

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AERIAL MAP



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Figure Number: 2

Scale:
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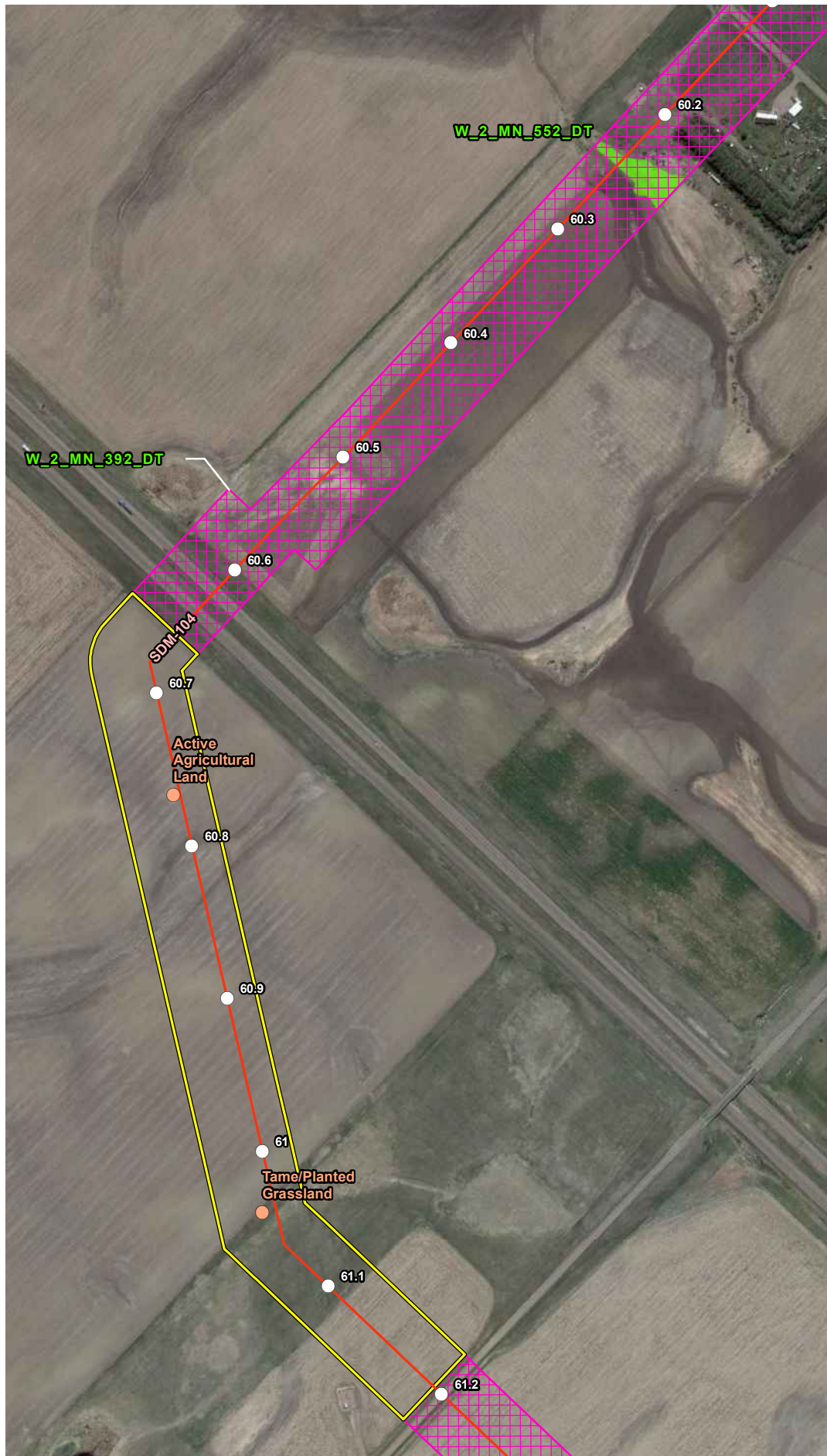
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 236 of 517

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AERIAL MAP



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Figure Number: 2

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
237
Sheet 237 of 517

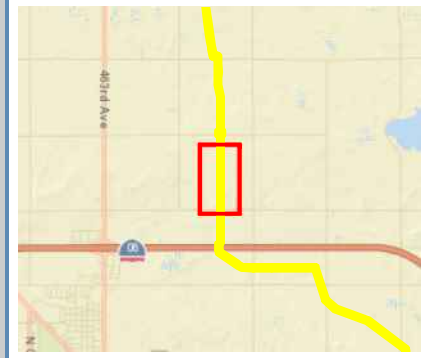
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0 250 500 Feet



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Figure Number: 2

Scale:
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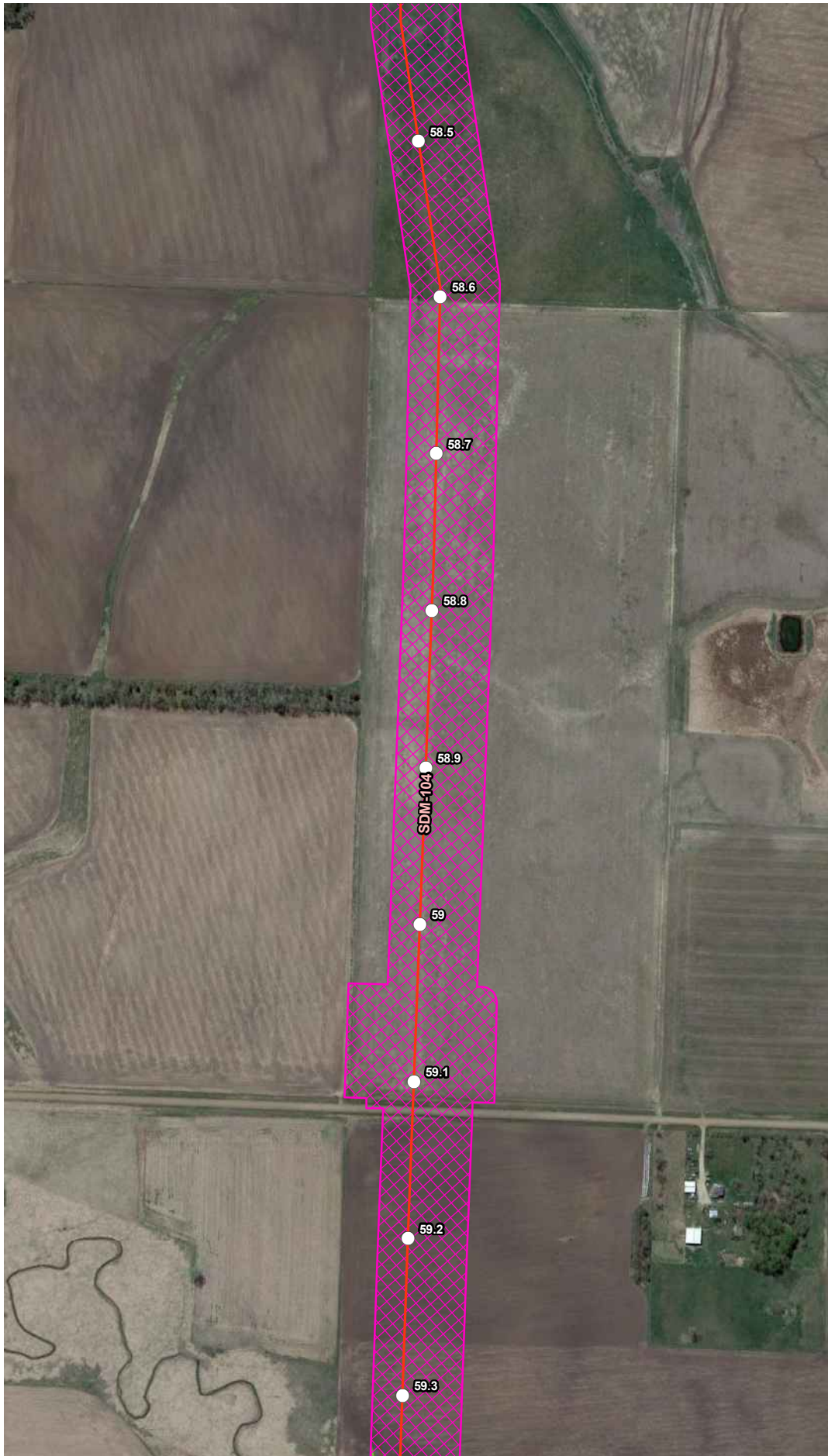
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NAD 1983 UTM Zone 14N

Sheet:
238
Sheet 238 of 517

Drawing Number:
2001-21-002
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Scale:
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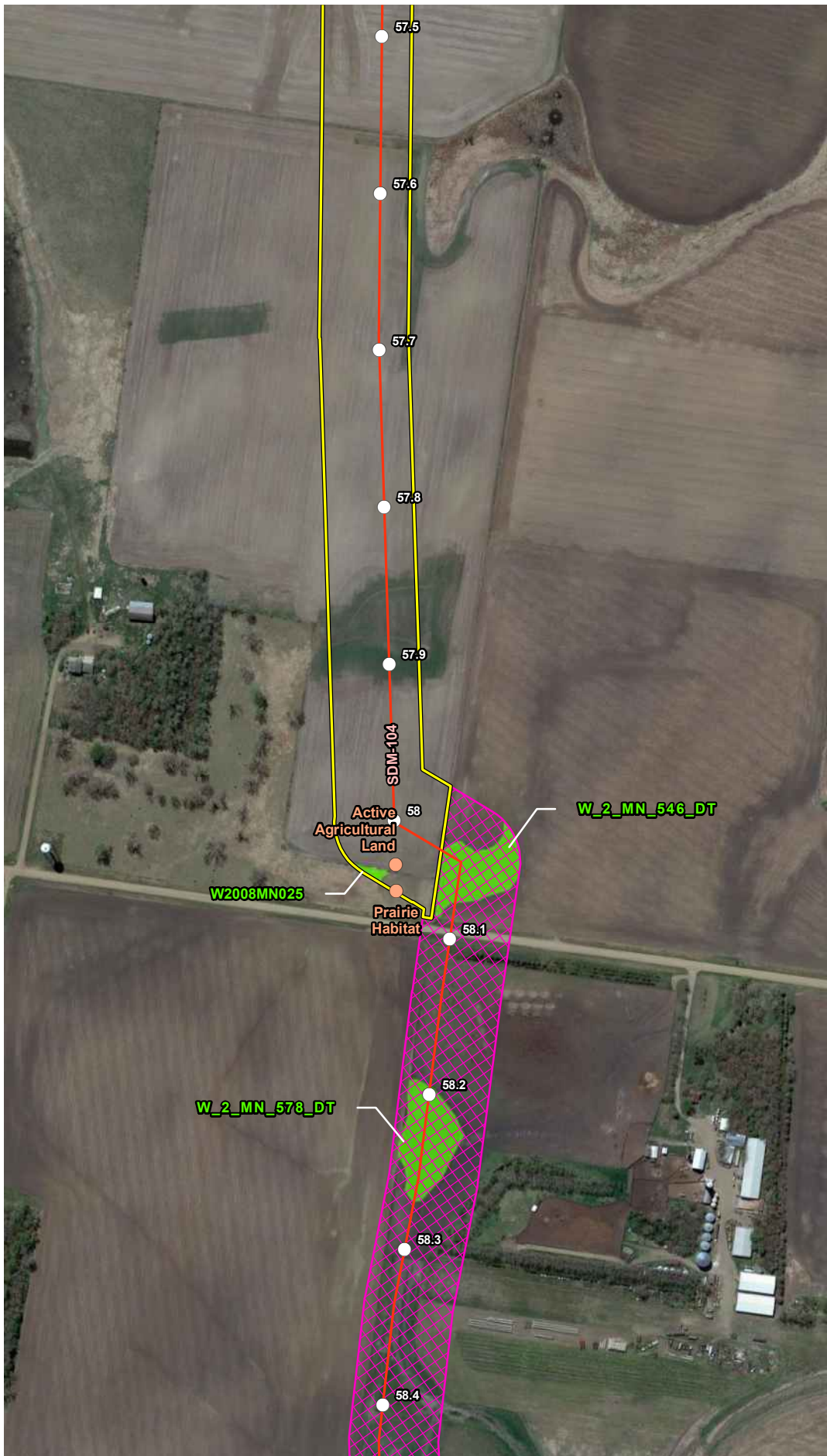
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NAD 1983 UTM Zone 14N

Sheet:
239
Sheet 239 of 517

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Scale:

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Projection:

Transverse Mercator

NAD 1983 UTM Zone 14N

Sheet:

240

Sheet 240 of 517

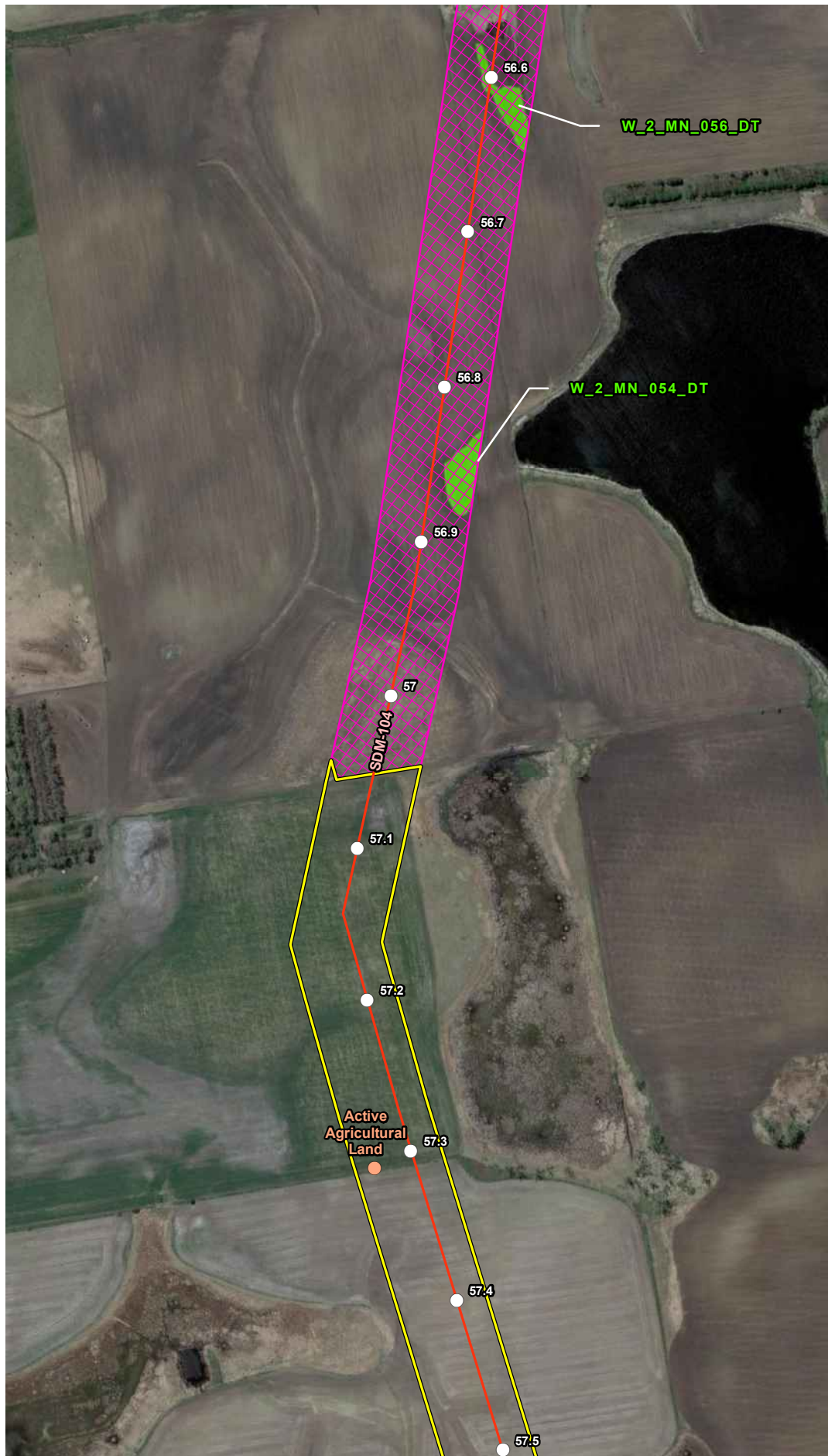
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Scale:
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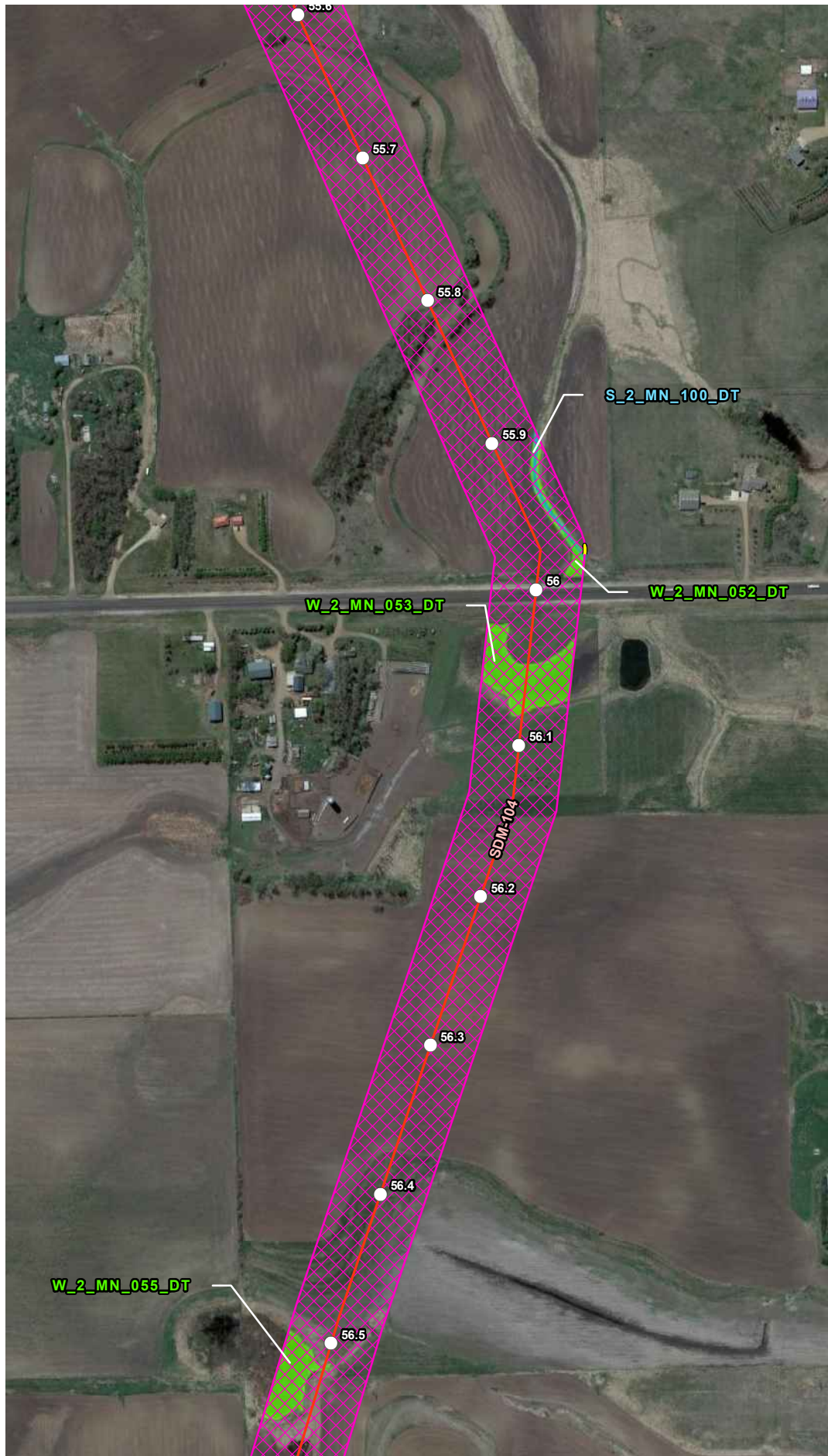
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
241
Sheet 241 of 517

Drawing Number:
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Figure Number:

2

Scale:
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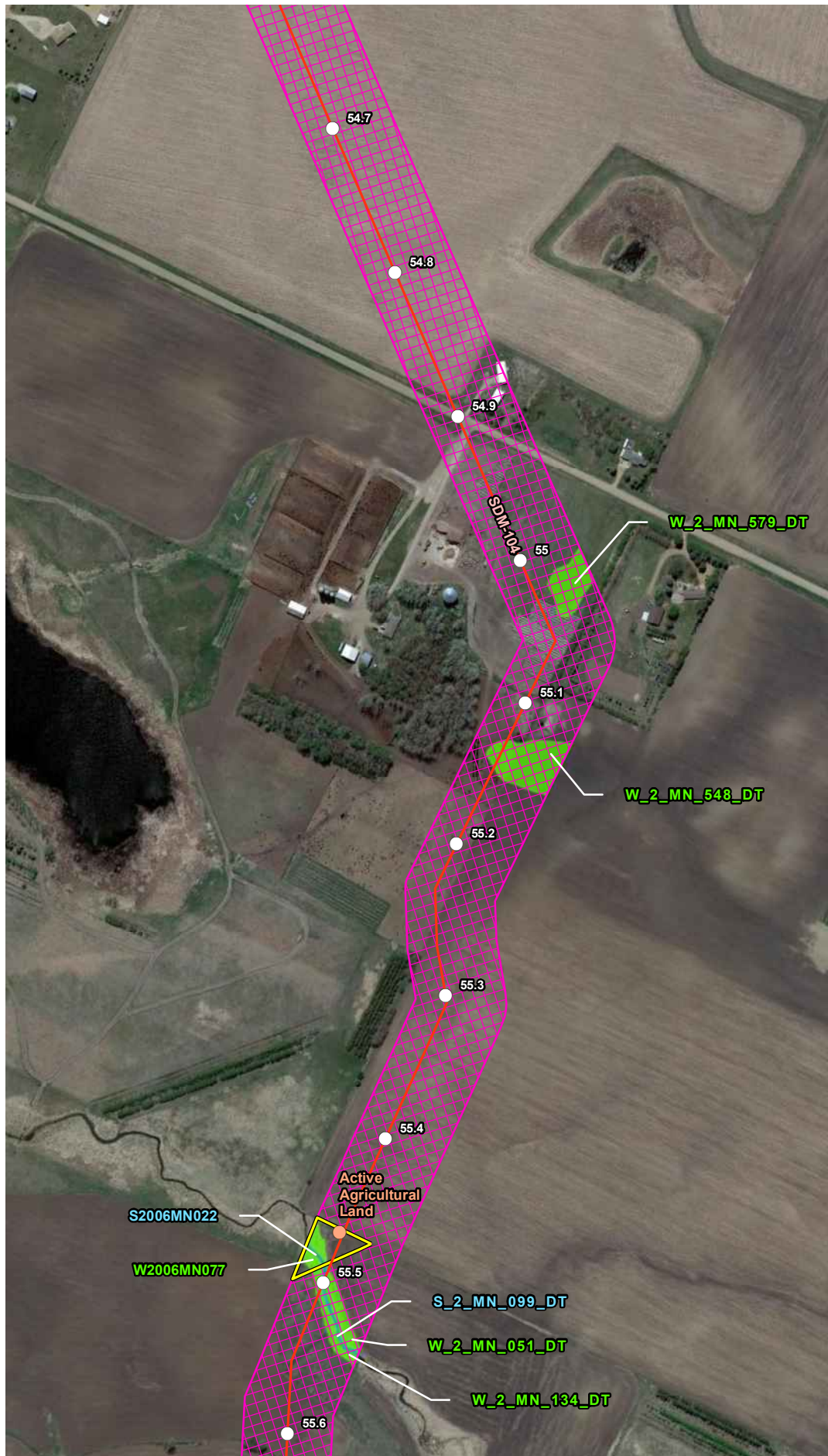
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
242
Sheet 242 of 517

Drawing Number:
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0 250 500 Feet



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Scale:
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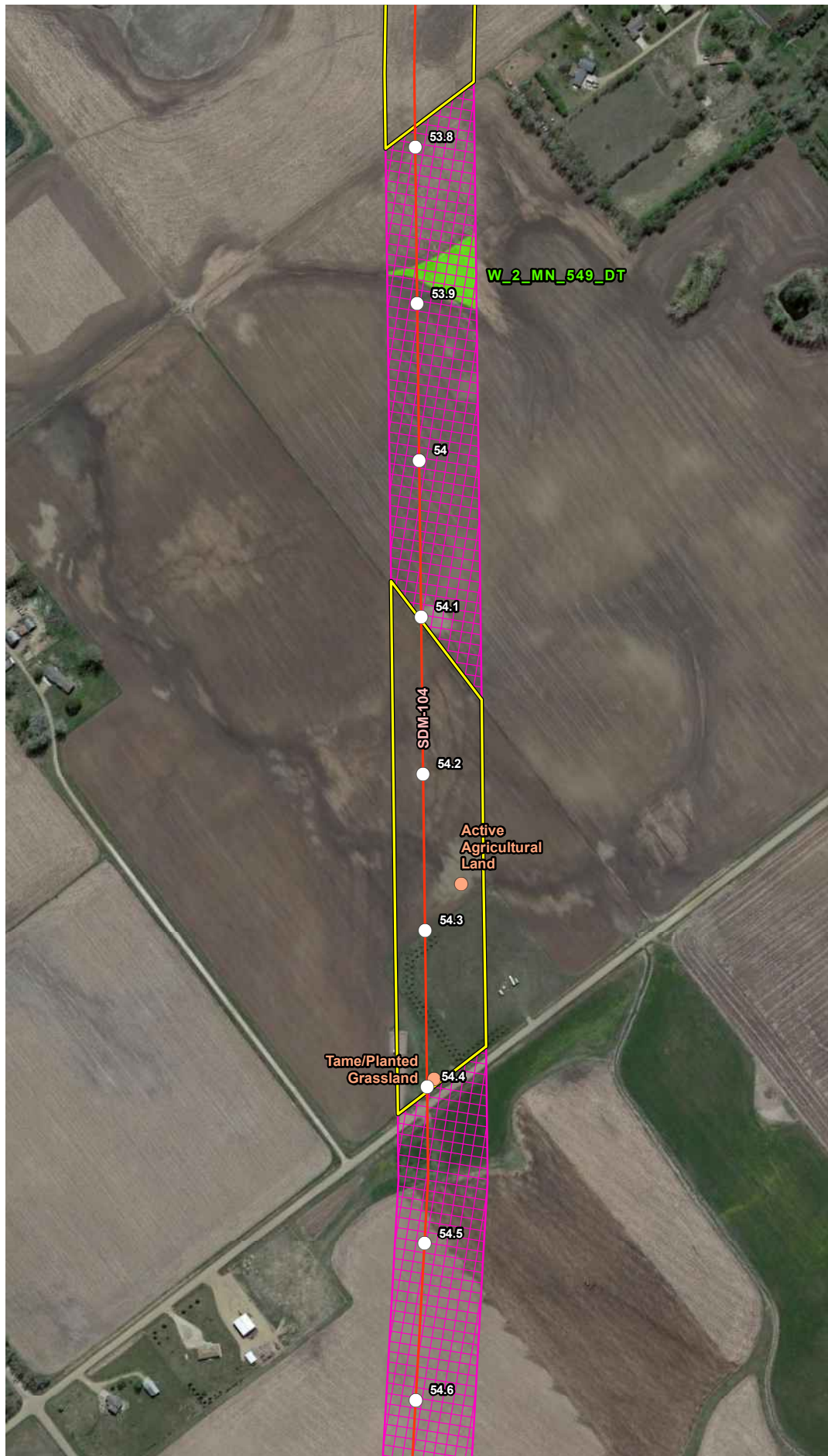
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NAD 1983 UTM Zone 14N

Sheet:
243
Sheet 243 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



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0 250 500 Feet



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2

Scale:
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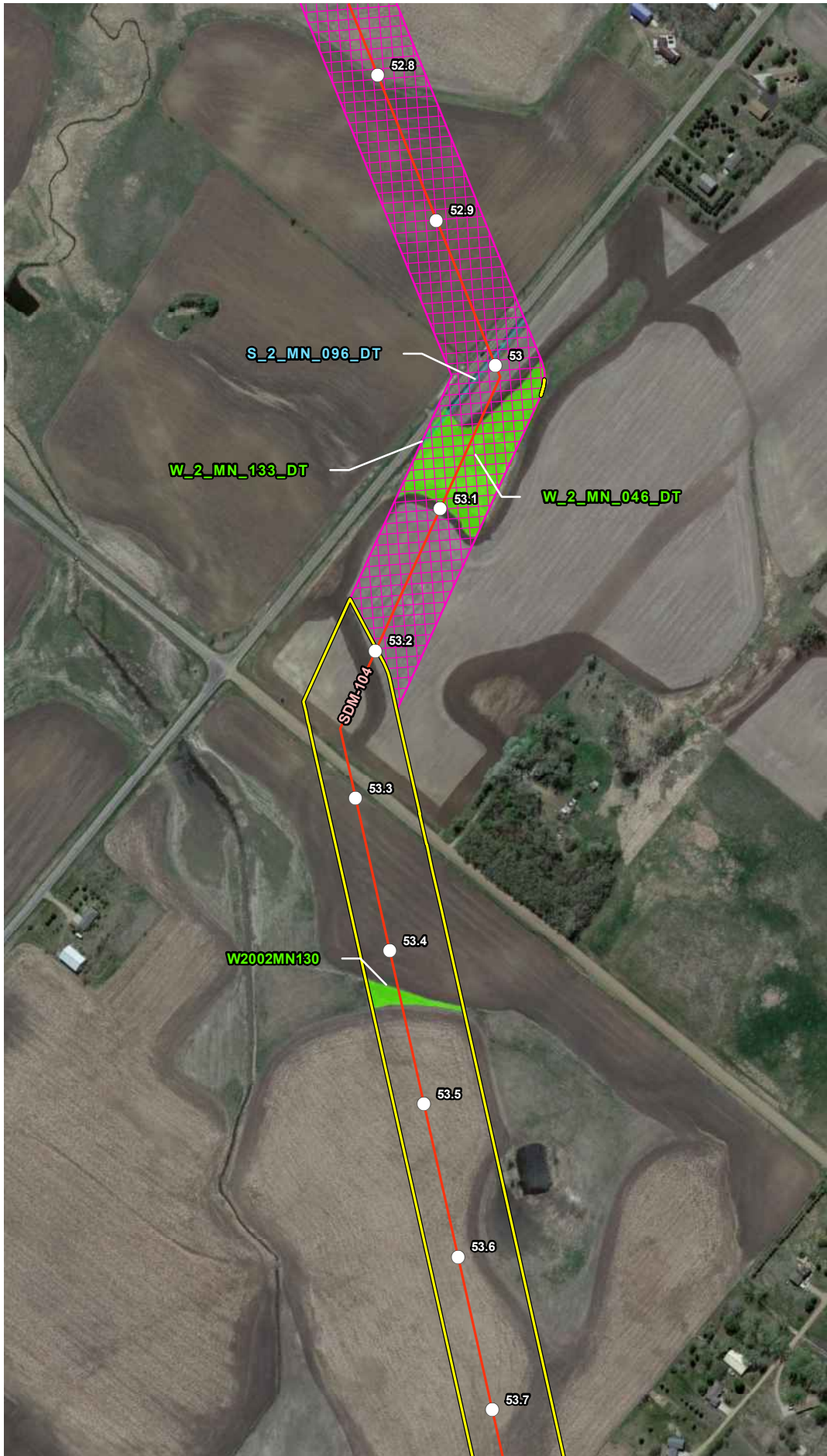
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Sheet:
244
Sheet 244 of 517

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Scale:
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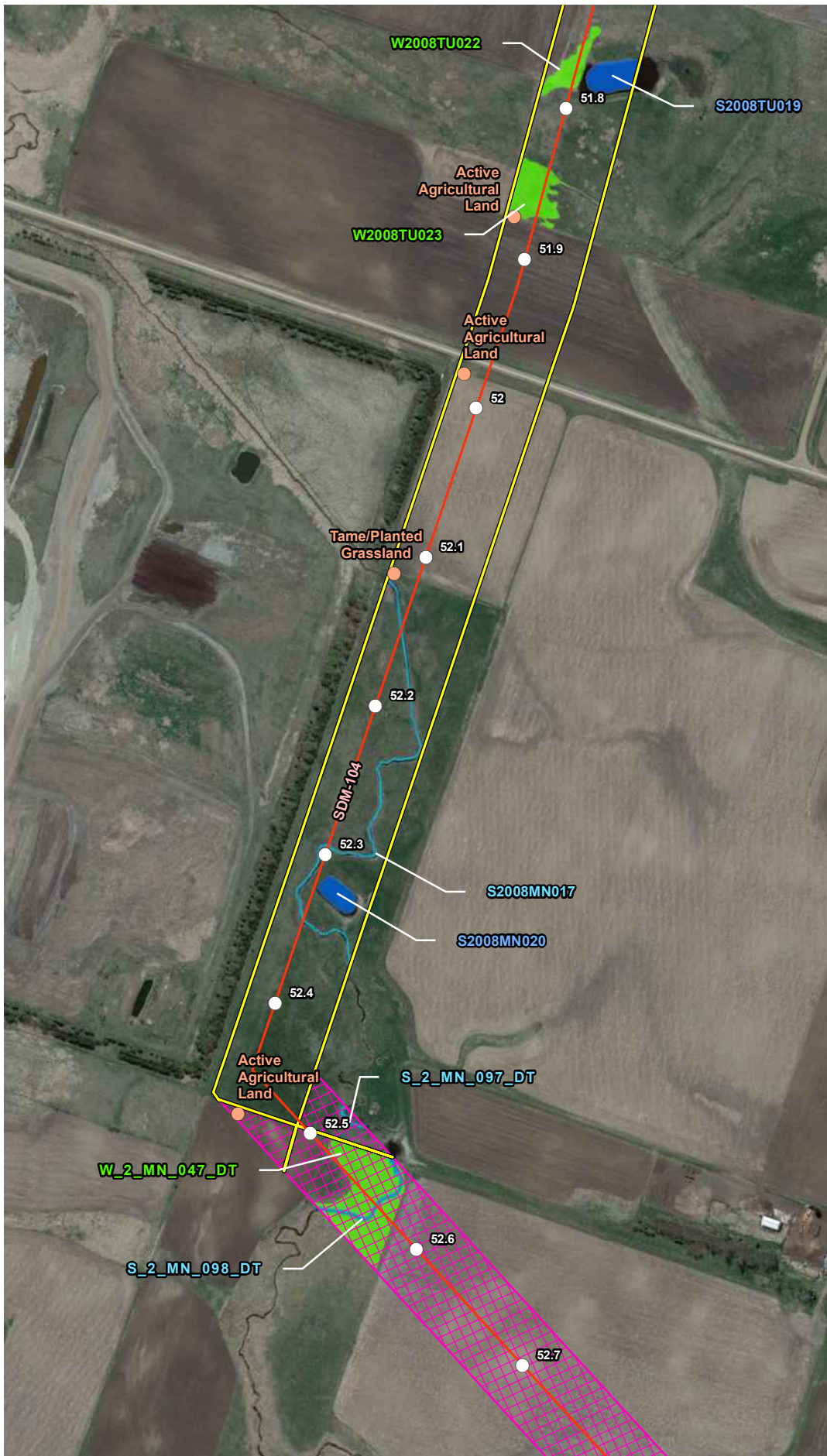
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Sheet:
245
Sheet 245 of 517

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Figure Number:

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Scale:

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1 inch = 500 feet

Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

246

Drawing Number:

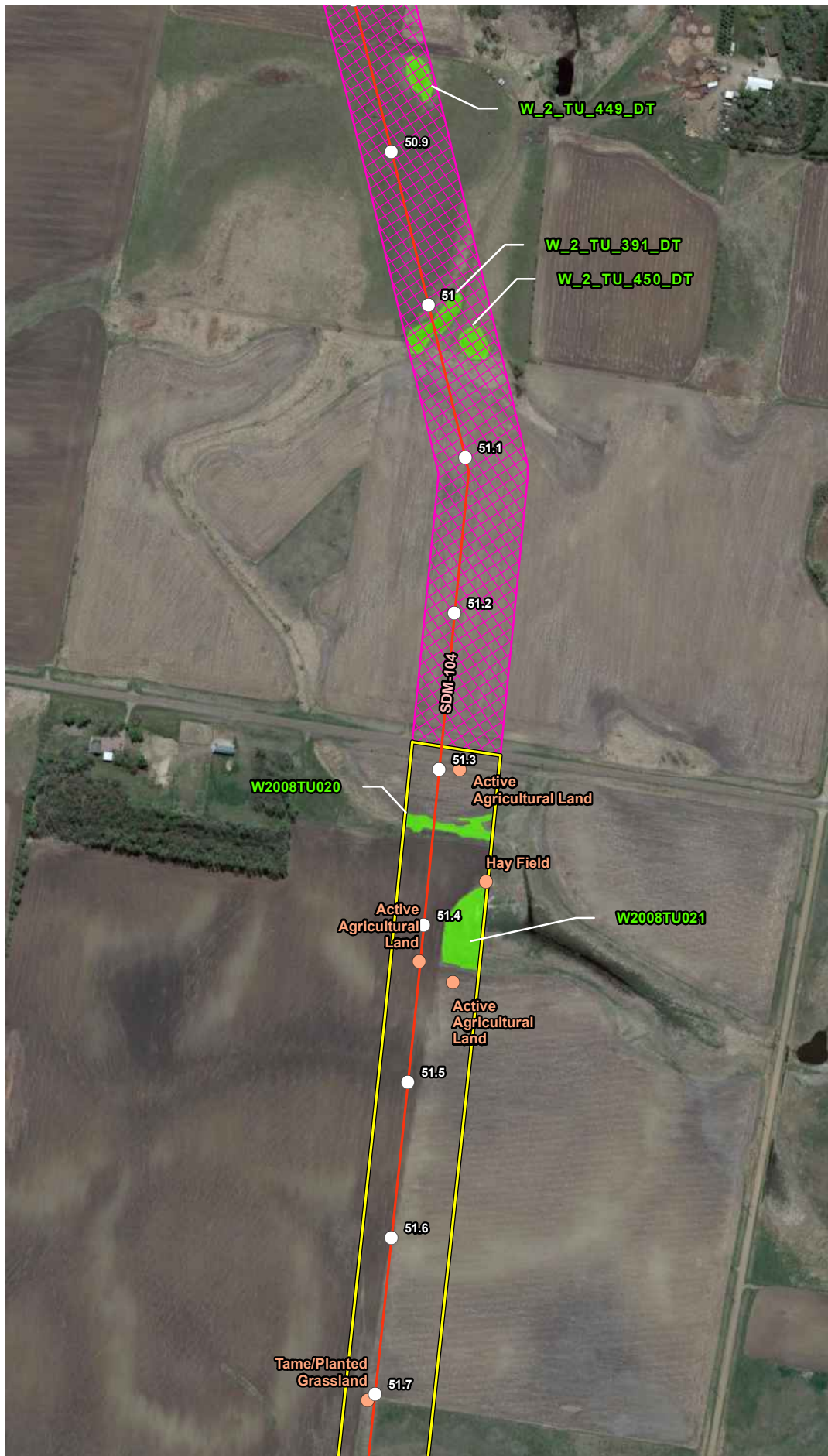
2001-21-002

Sheet 246 of 517

Current Revision

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Scale:
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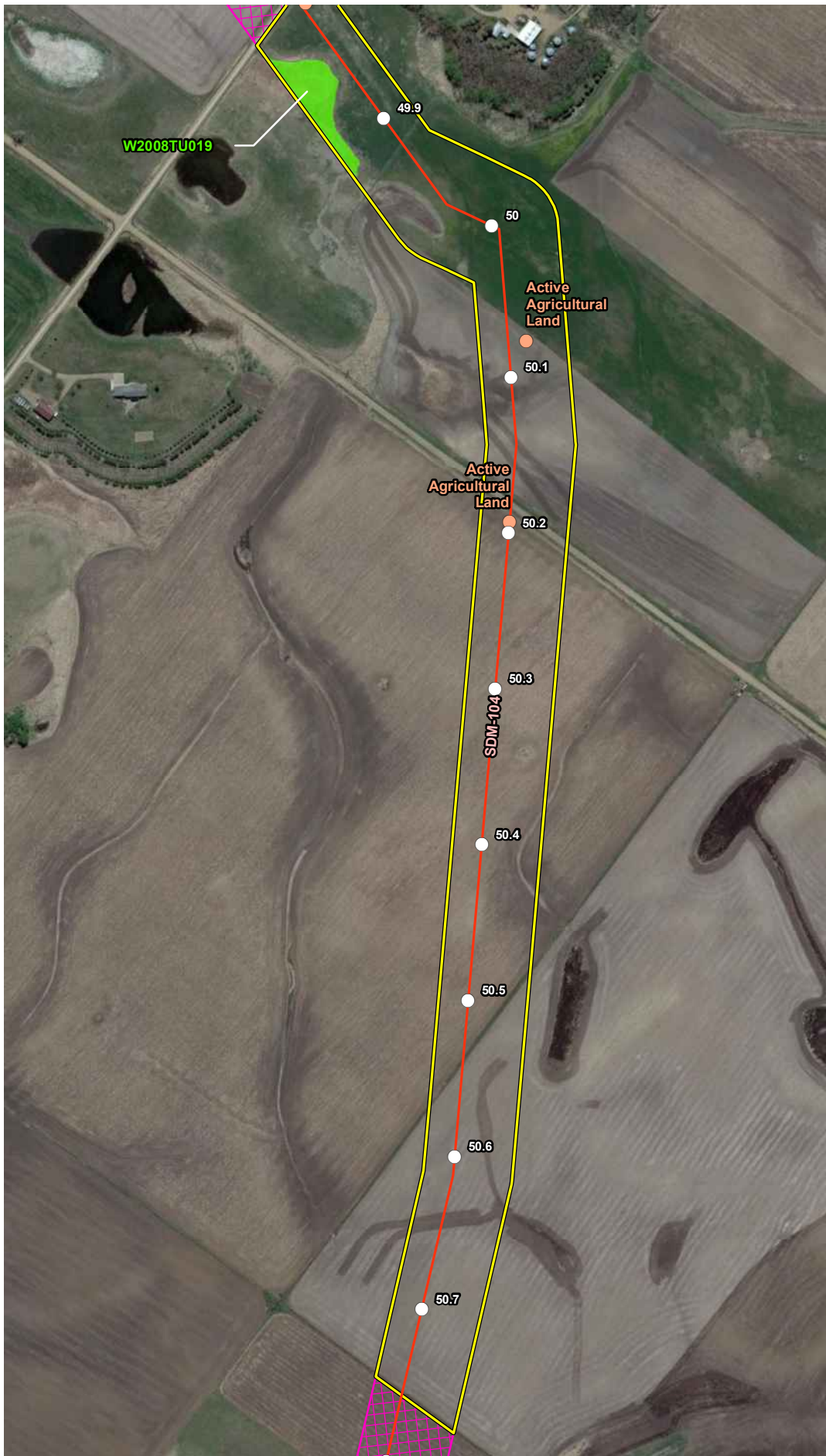
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Sheet:
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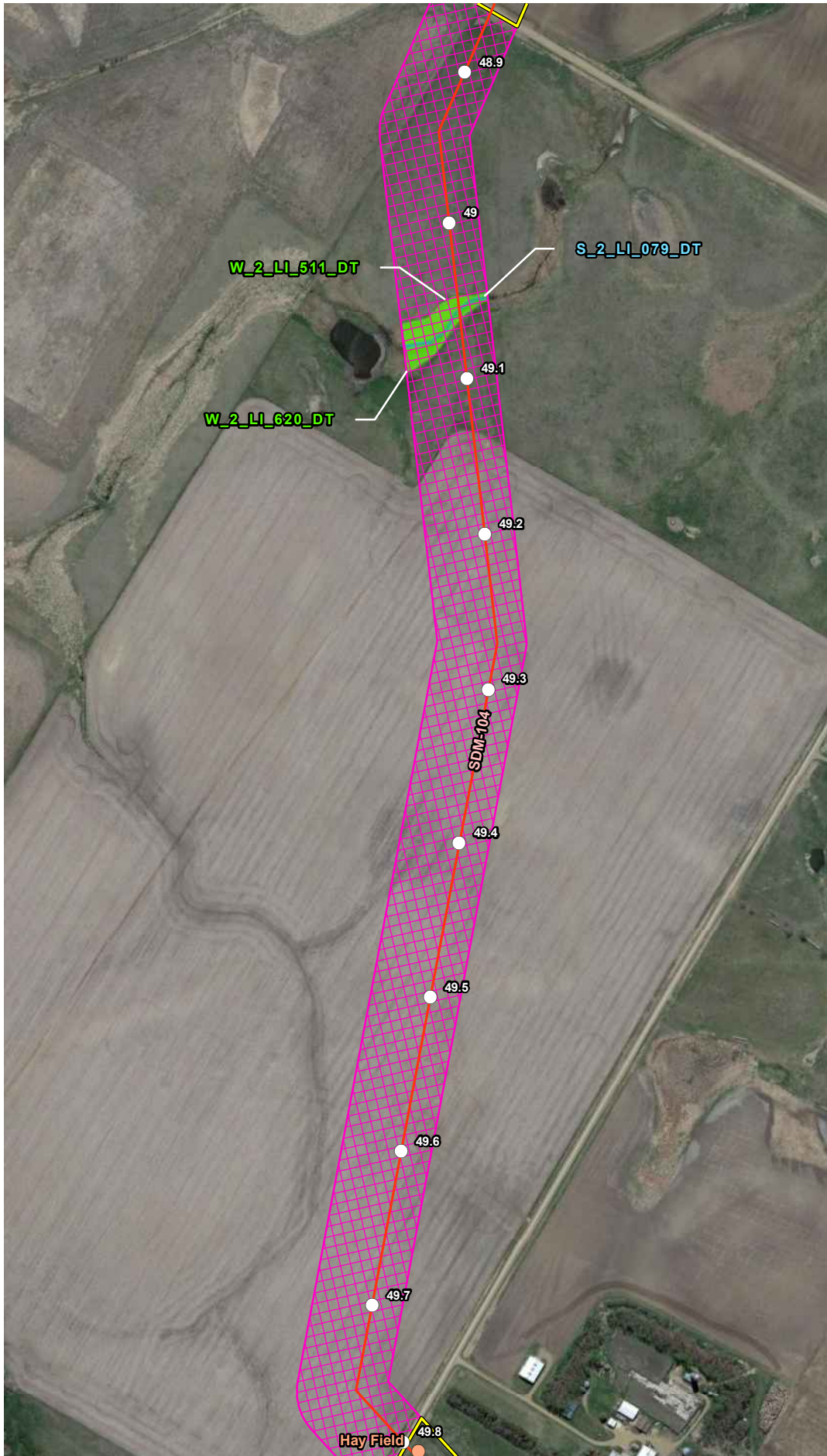
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Sheet 248 of 517

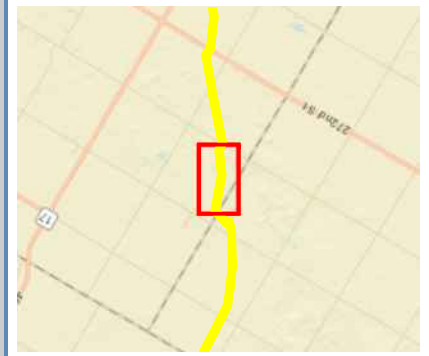
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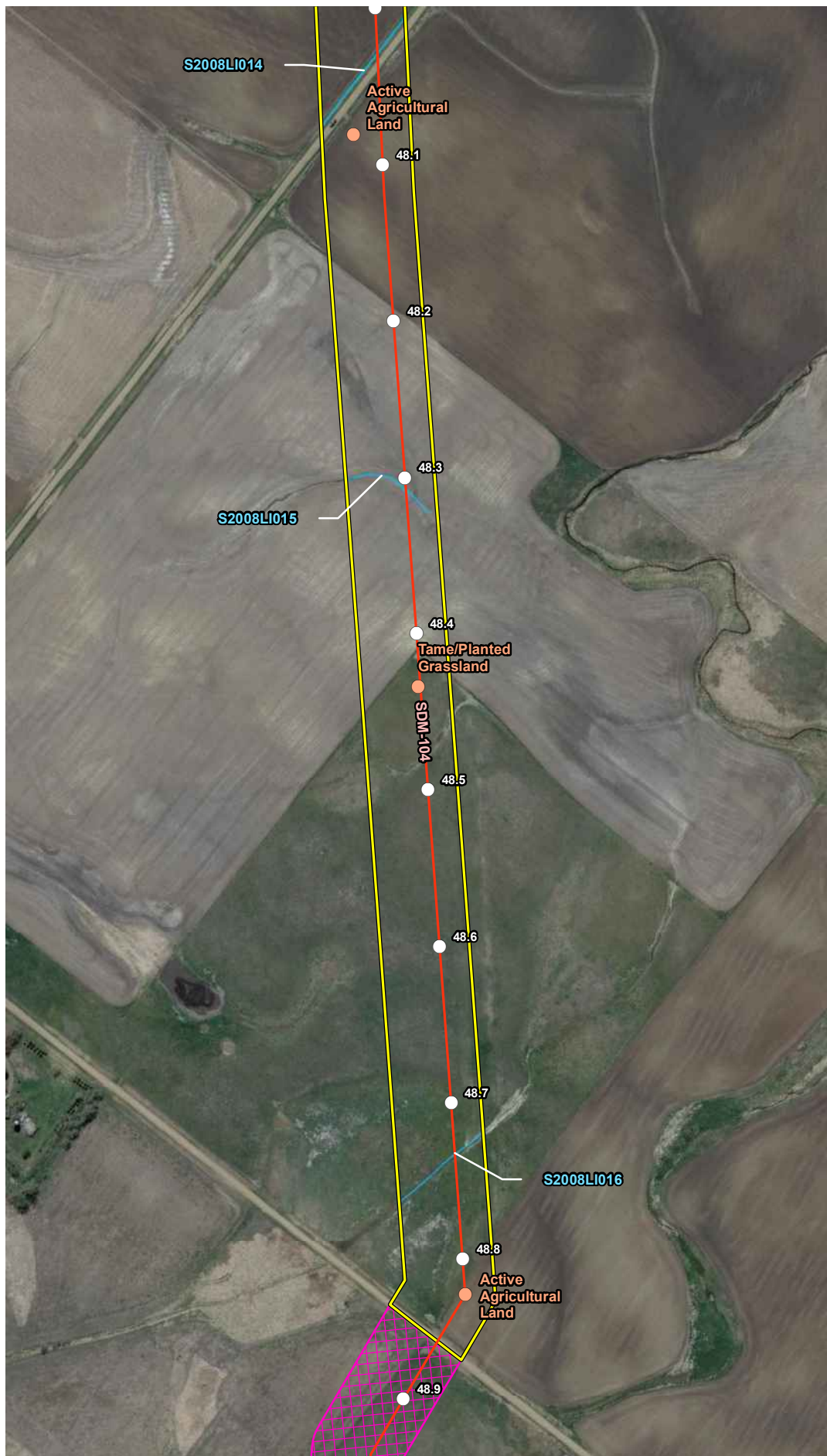
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Sheet:
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Sheet 249 of 517

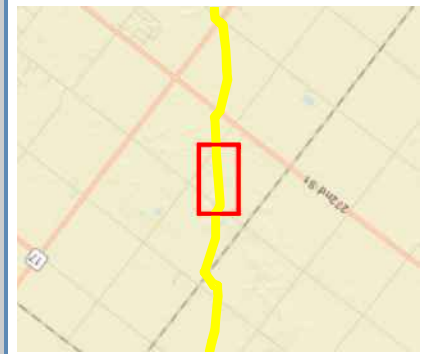
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

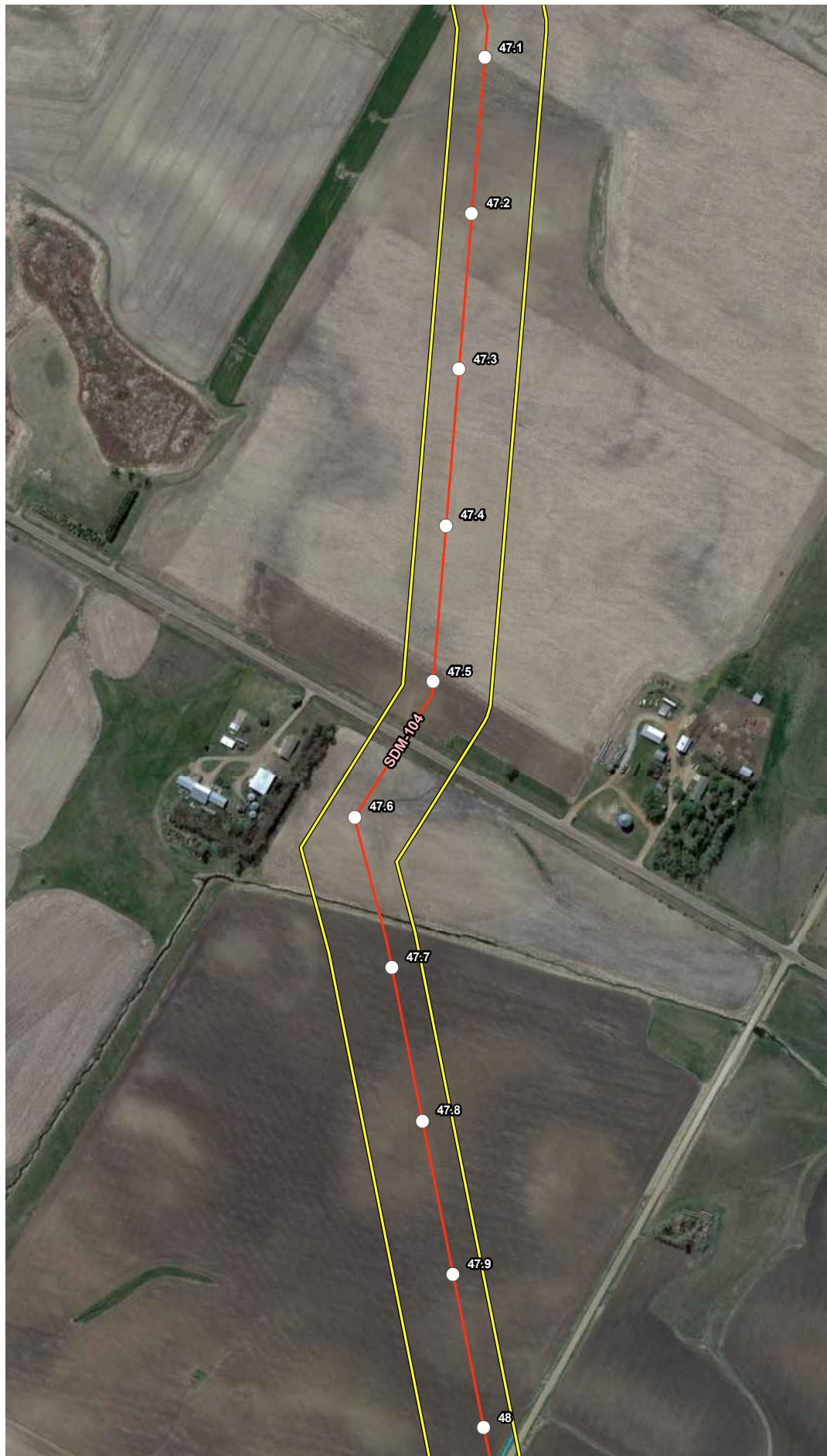
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NAD 1983 UTM Zone 14N

Sheet:
250
Sheet 250 of 517

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2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500
Feet



REVISIONS

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2

Scale:
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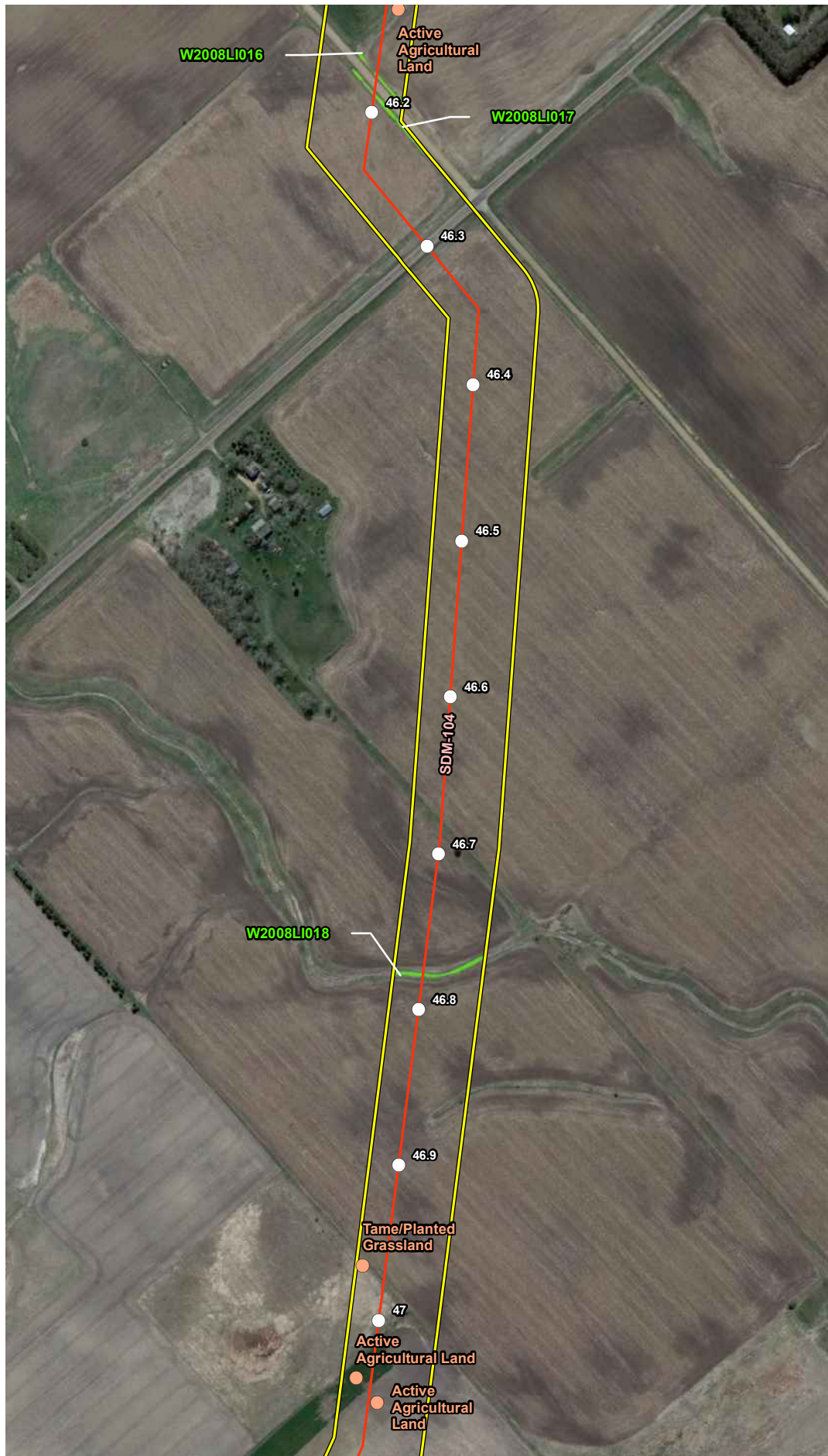
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 251 of 517

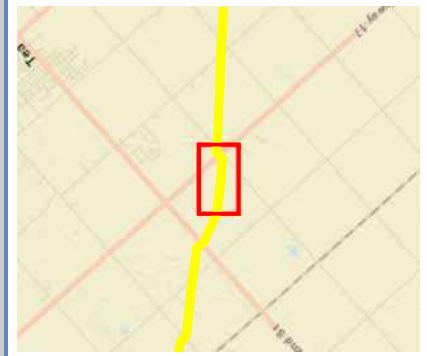
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AERIAL MAP



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0 250 500 Feet



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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
252
Sheet 252 of 517

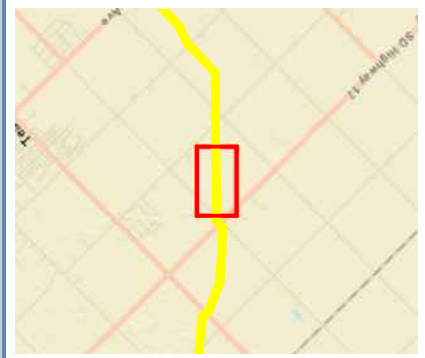
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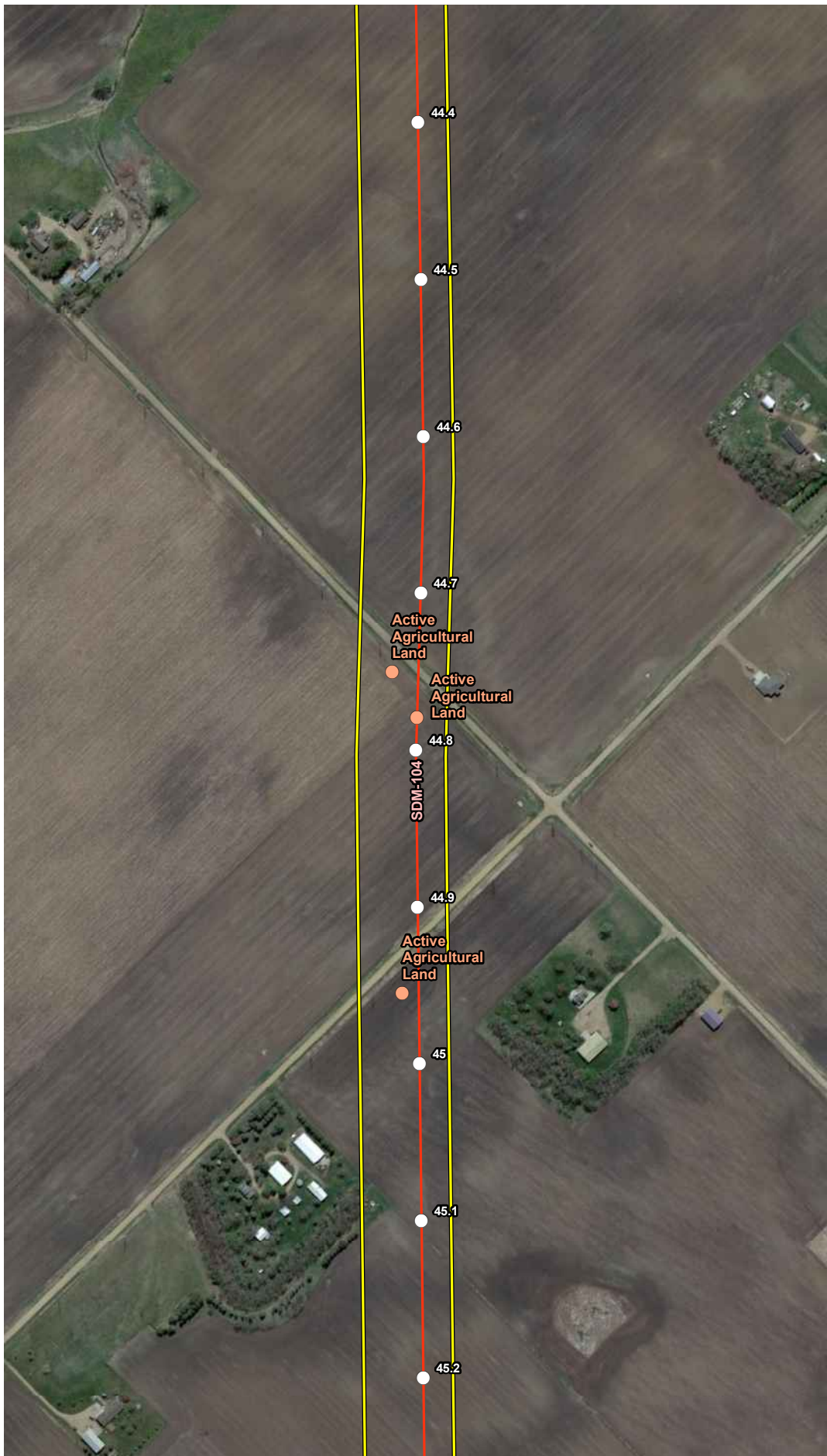
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Sheet 253 of 517

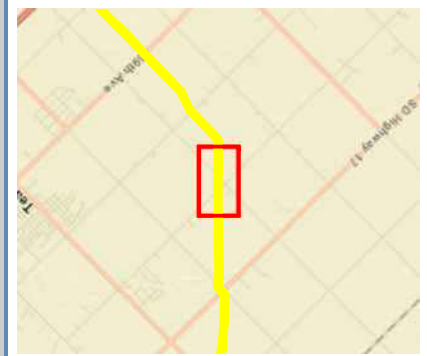
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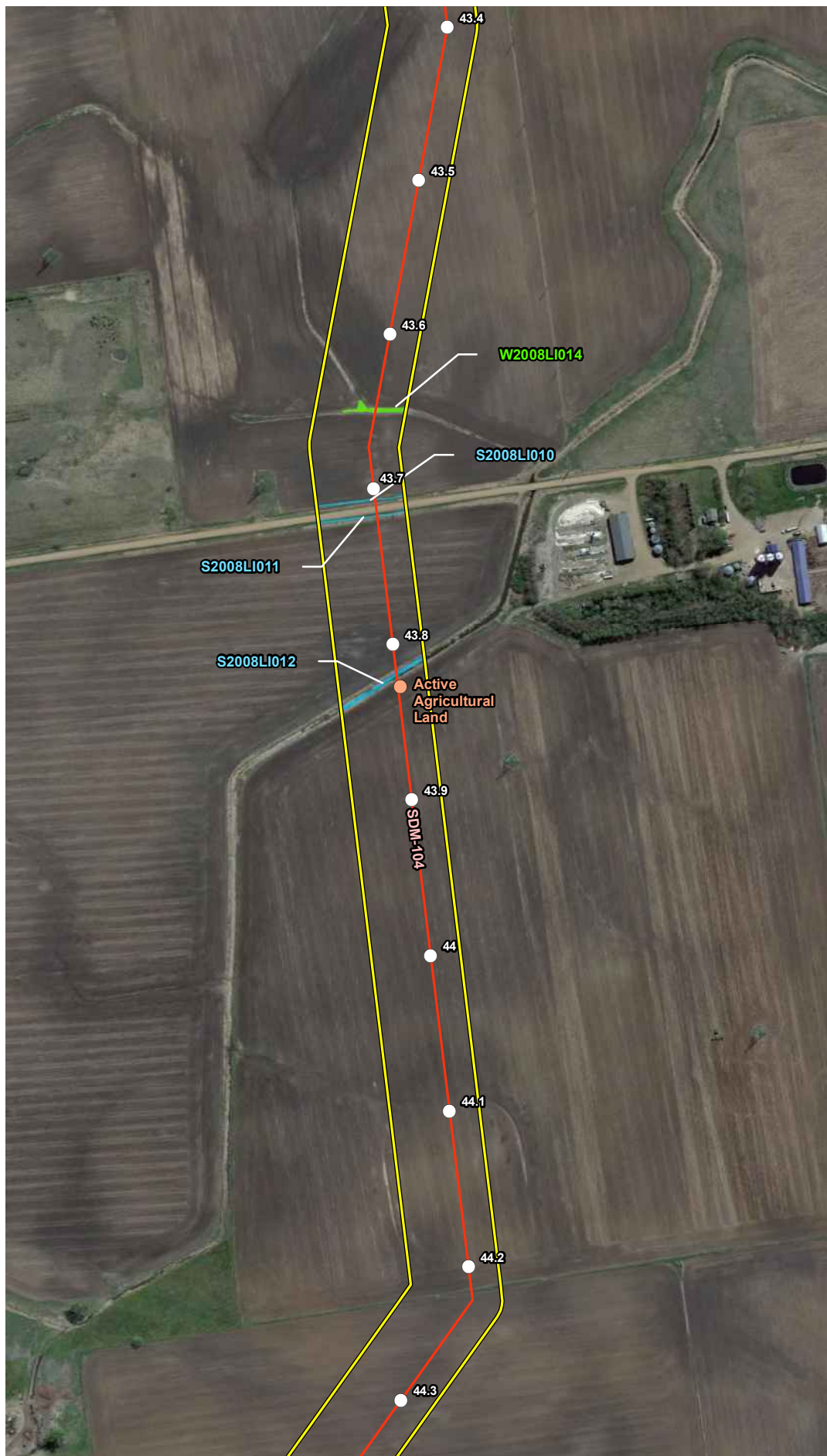
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Sheet 254 of 517

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AERIAL MAP



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0 250 500 Feet



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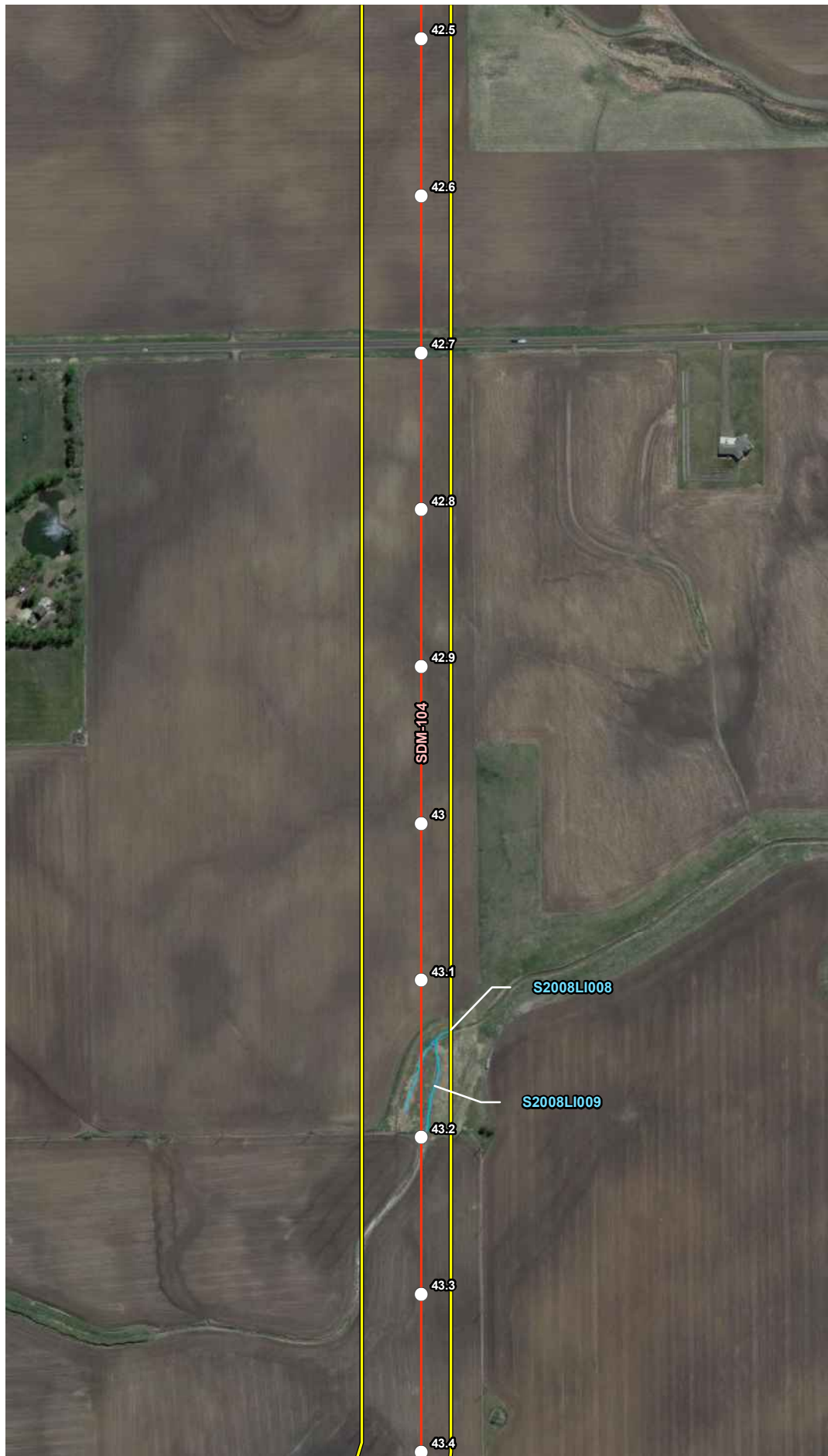
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Sheet 255 of 517

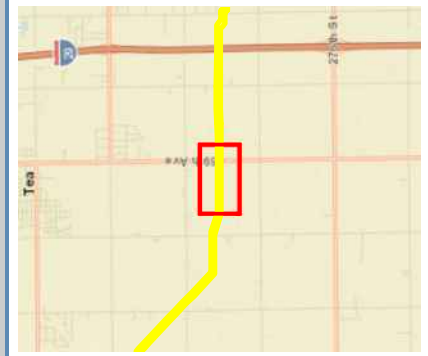
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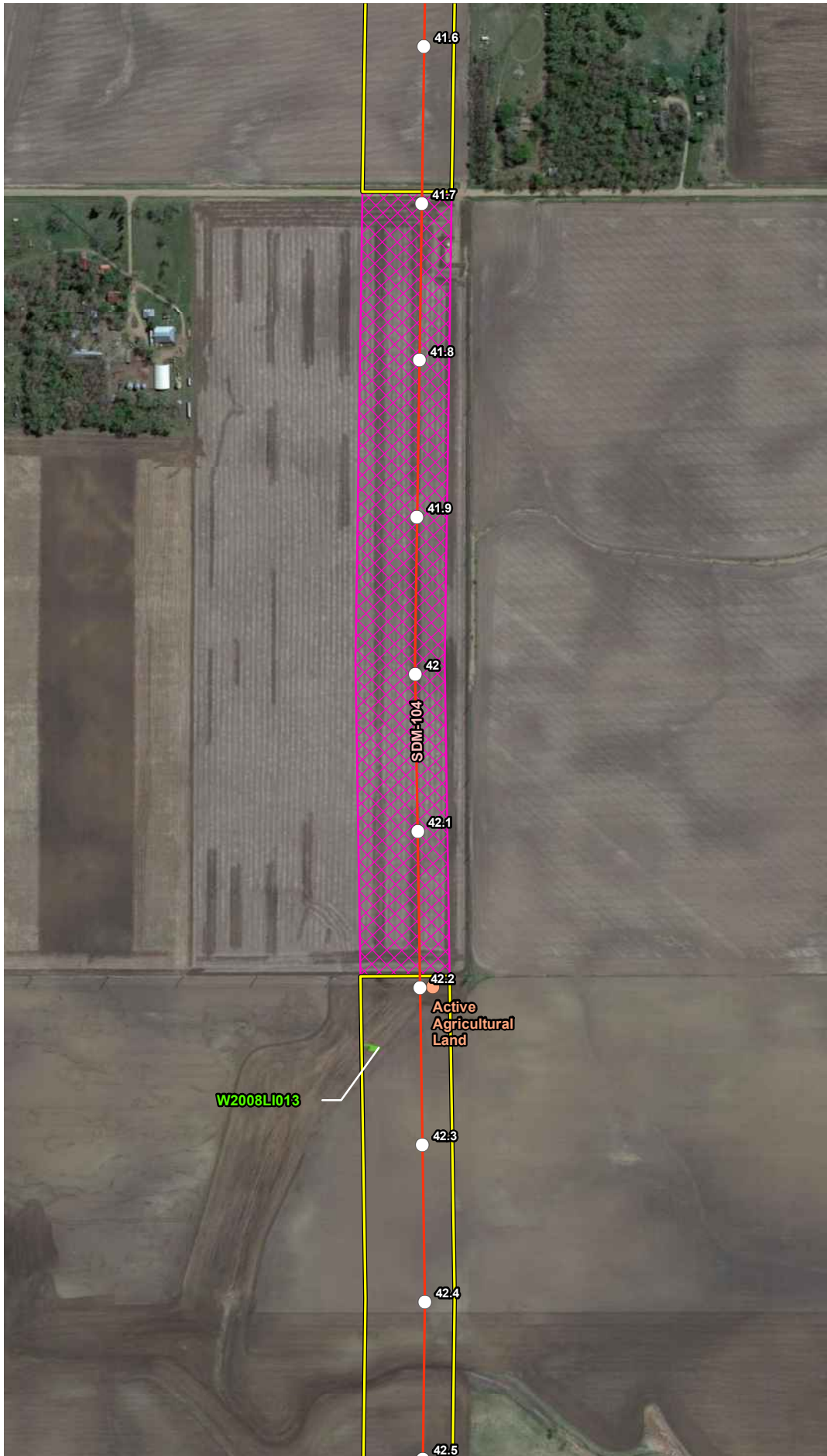
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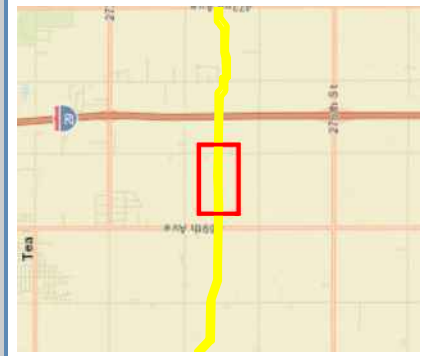
Sheet:
256
Sheet 256 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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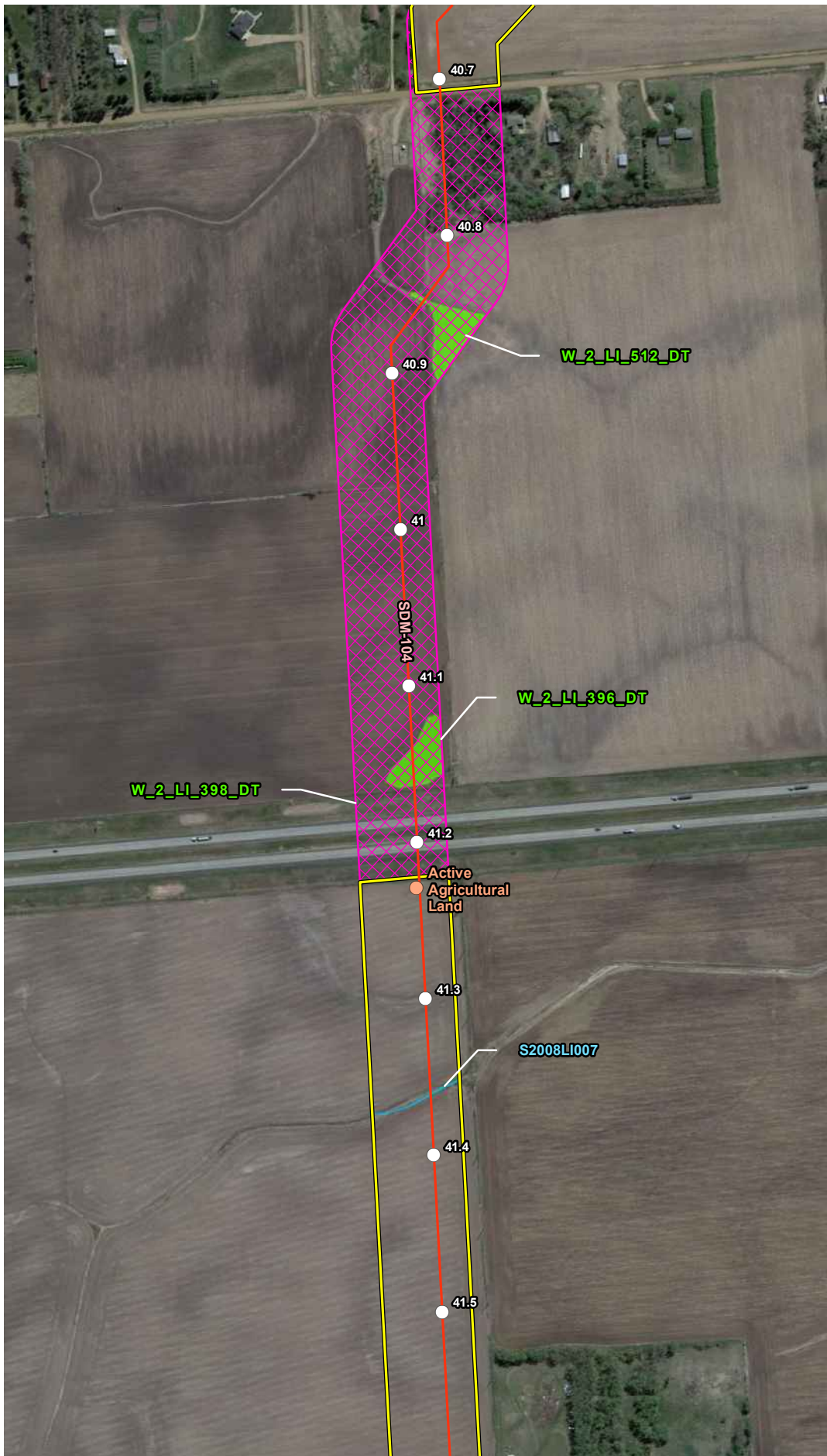
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Sheet:
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Sheet 257 of 517

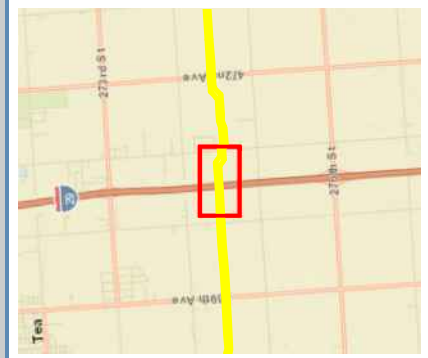
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0 250 500 Feet



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Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
258
Sheet 258 of 517

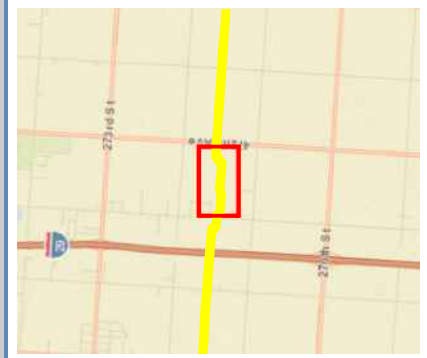
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
259
Sheet 259 of 517

Drawing Number:
2001-21-002
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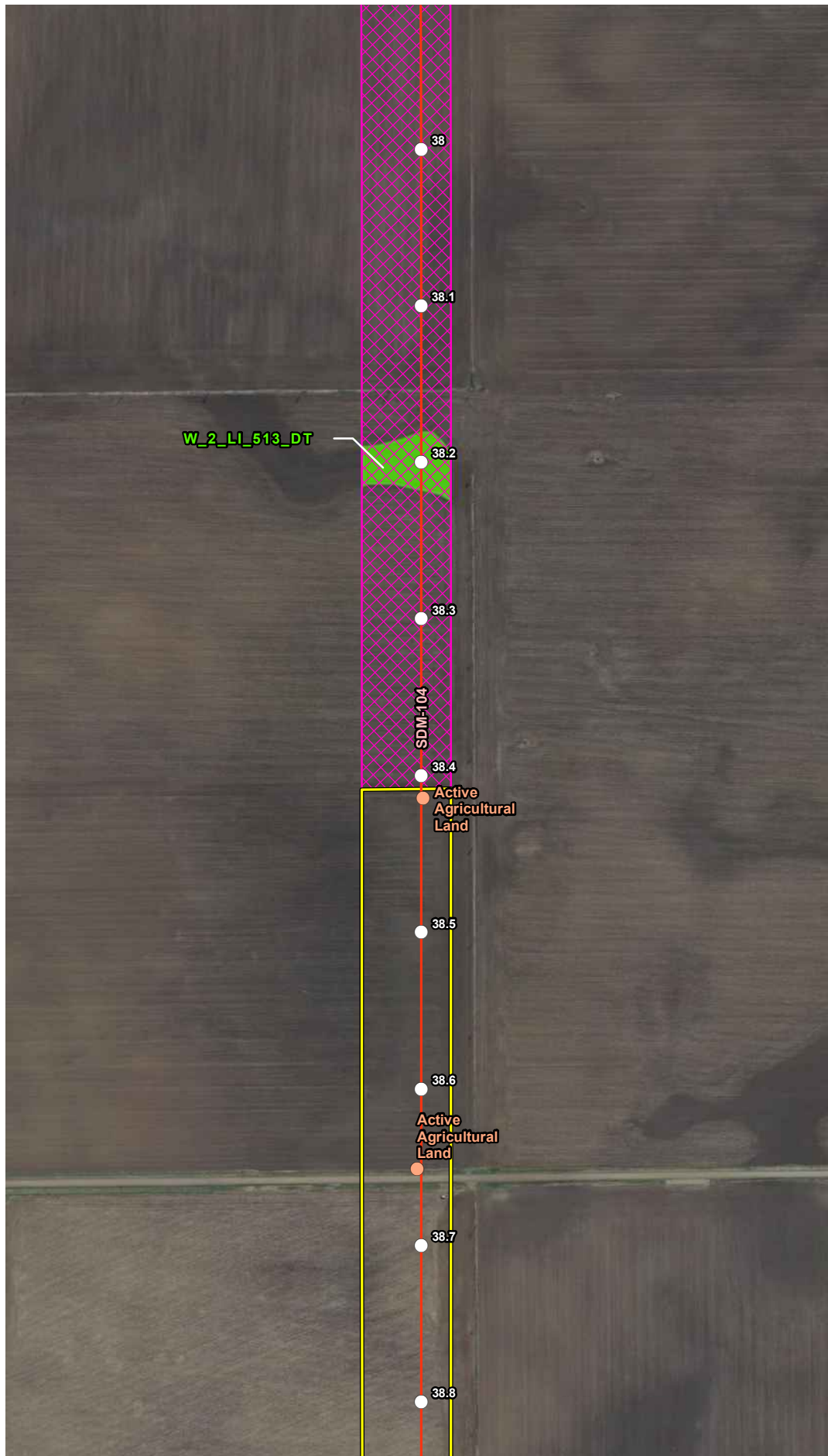
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Sheet 260 of 517

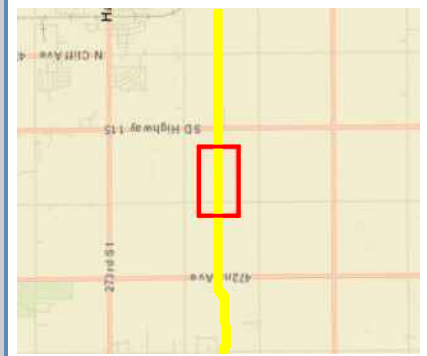
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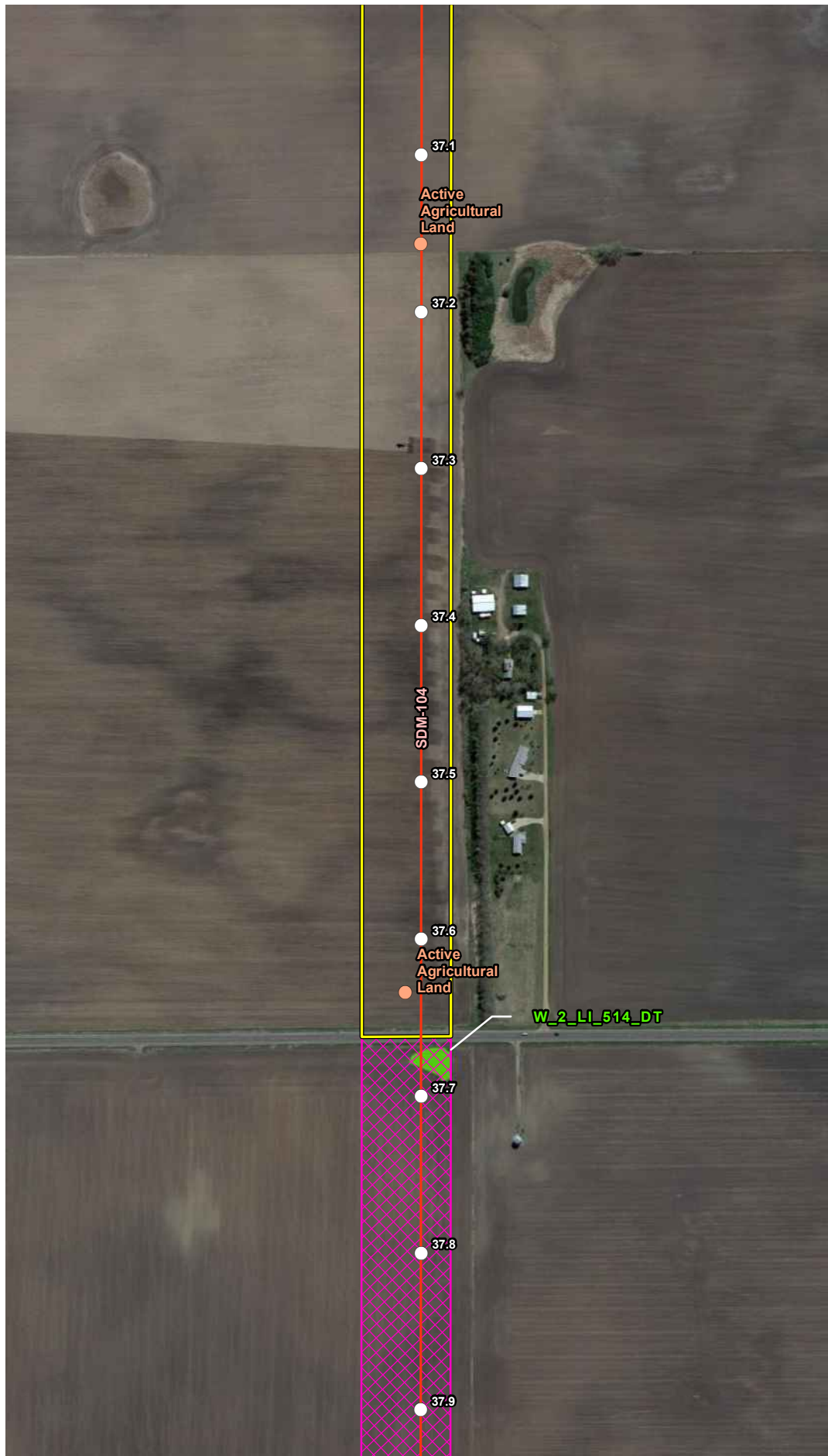
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Sheet:
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Sheet 261 of 517

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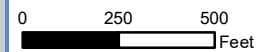


VICINITY MAP



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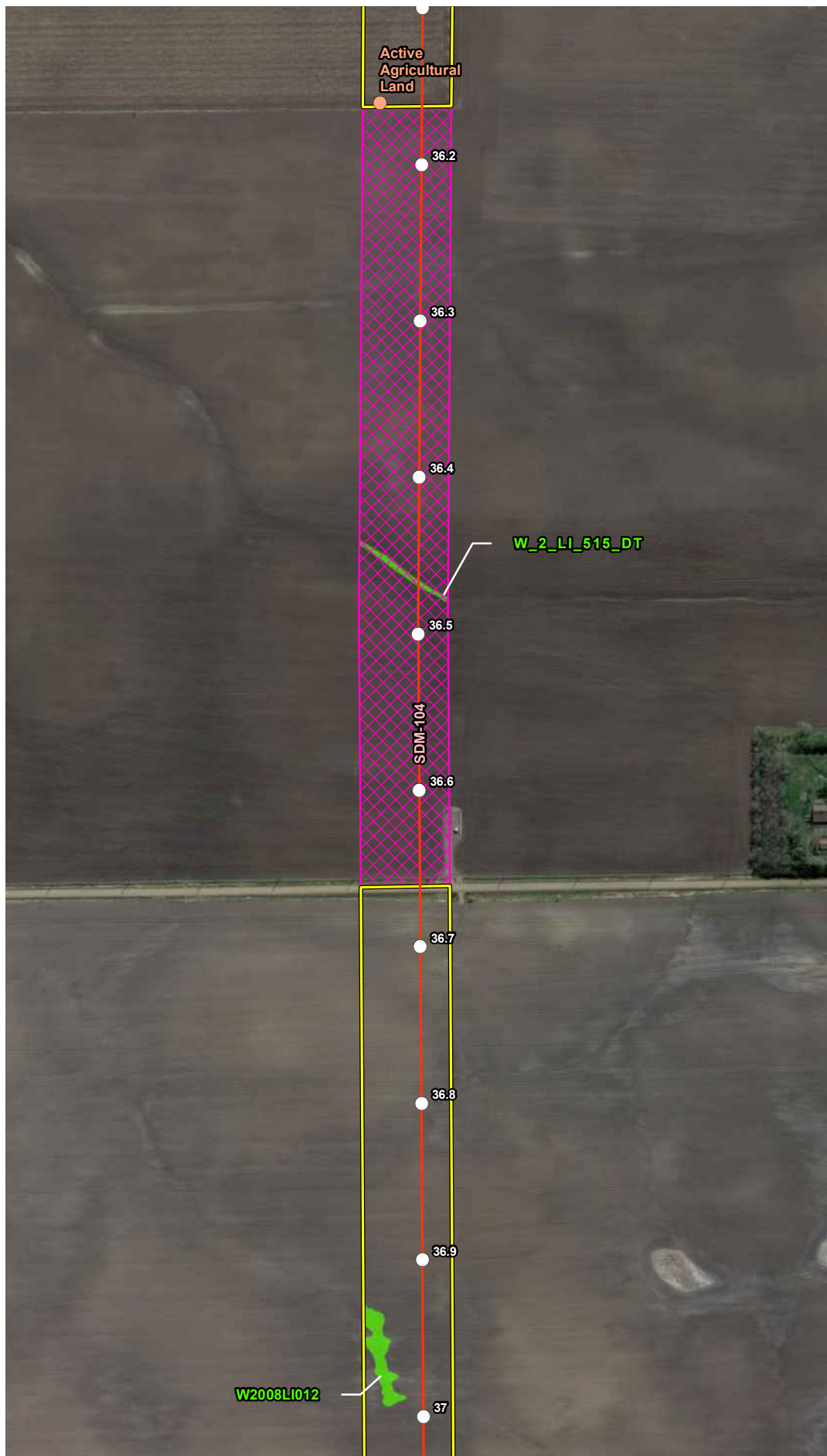


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Sheet: 262 Sheet 262 of 517	Drawing Number: 2001-21-002 Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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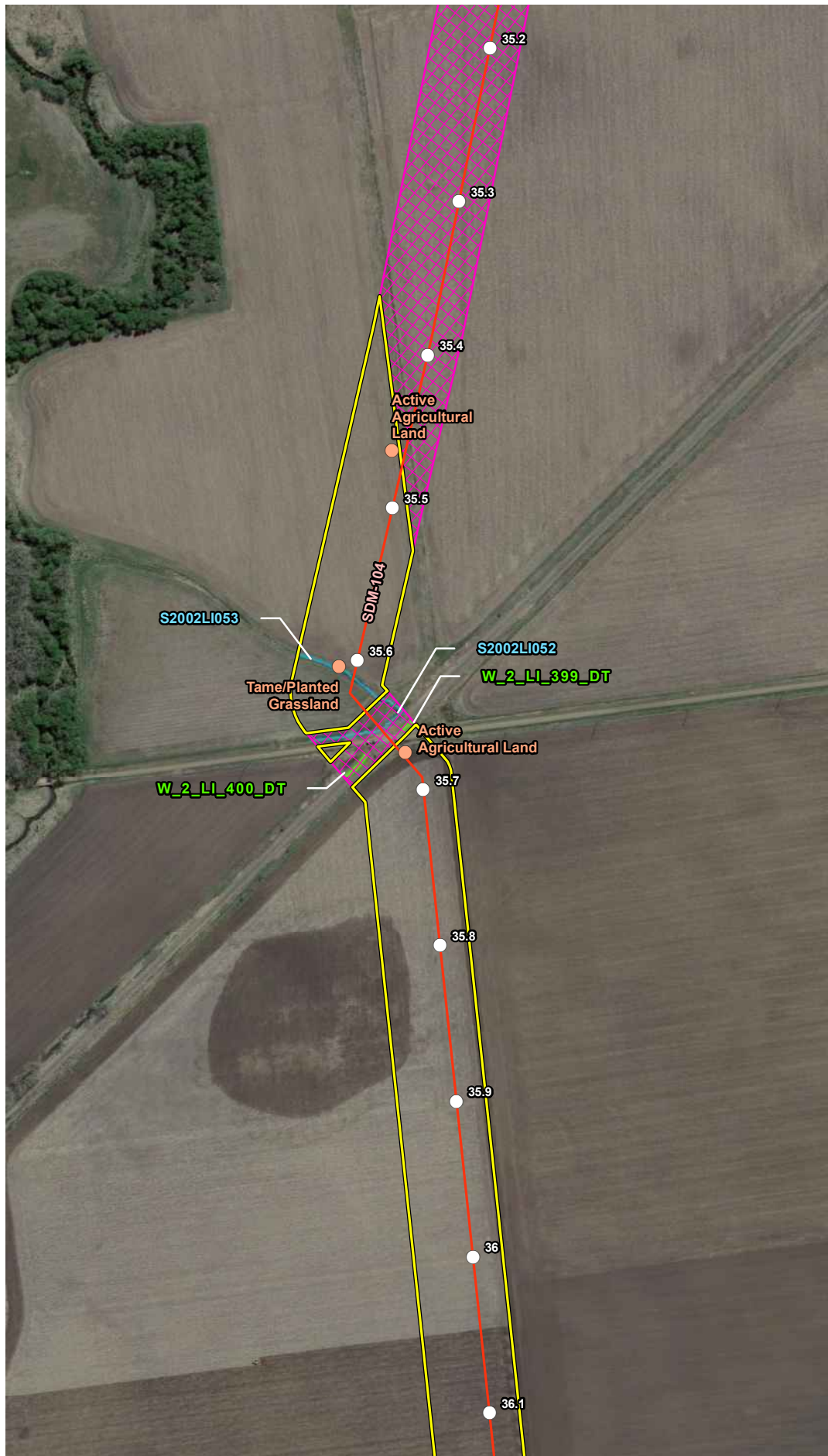
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Sheet:
263
Sheet 263 of 517

Drawing Number:
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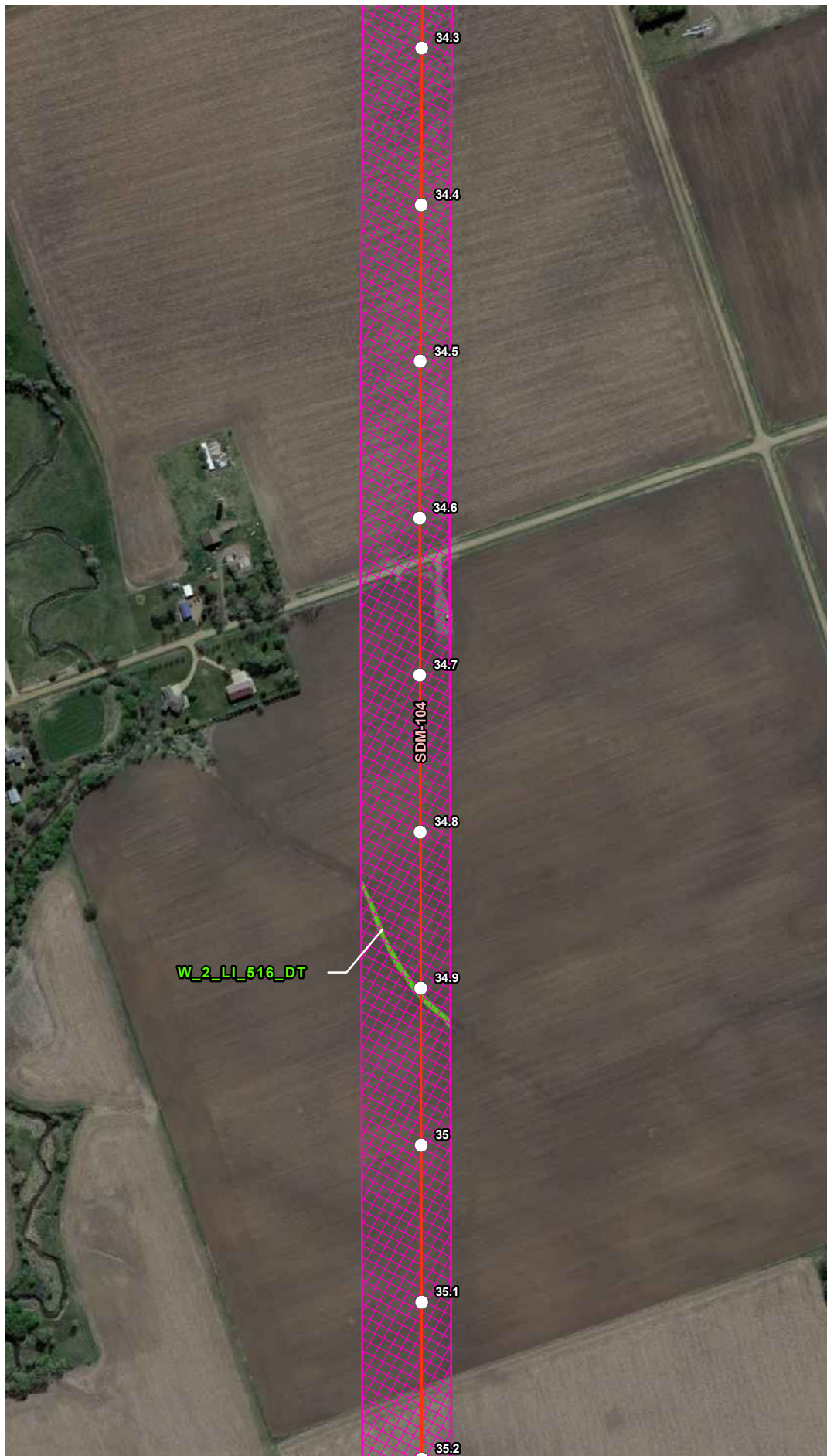
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Sheet 264 of 517

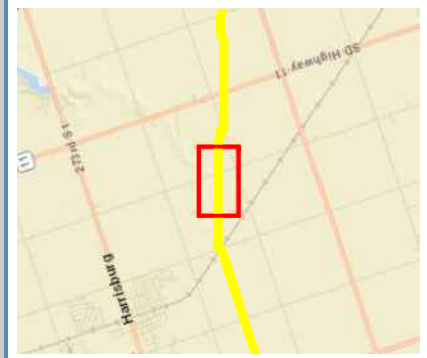
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Figure Number: 2

Scale:
Scale: 1:6,000
 1 inch = 500 feet

Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
265
 Sheet 265 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet



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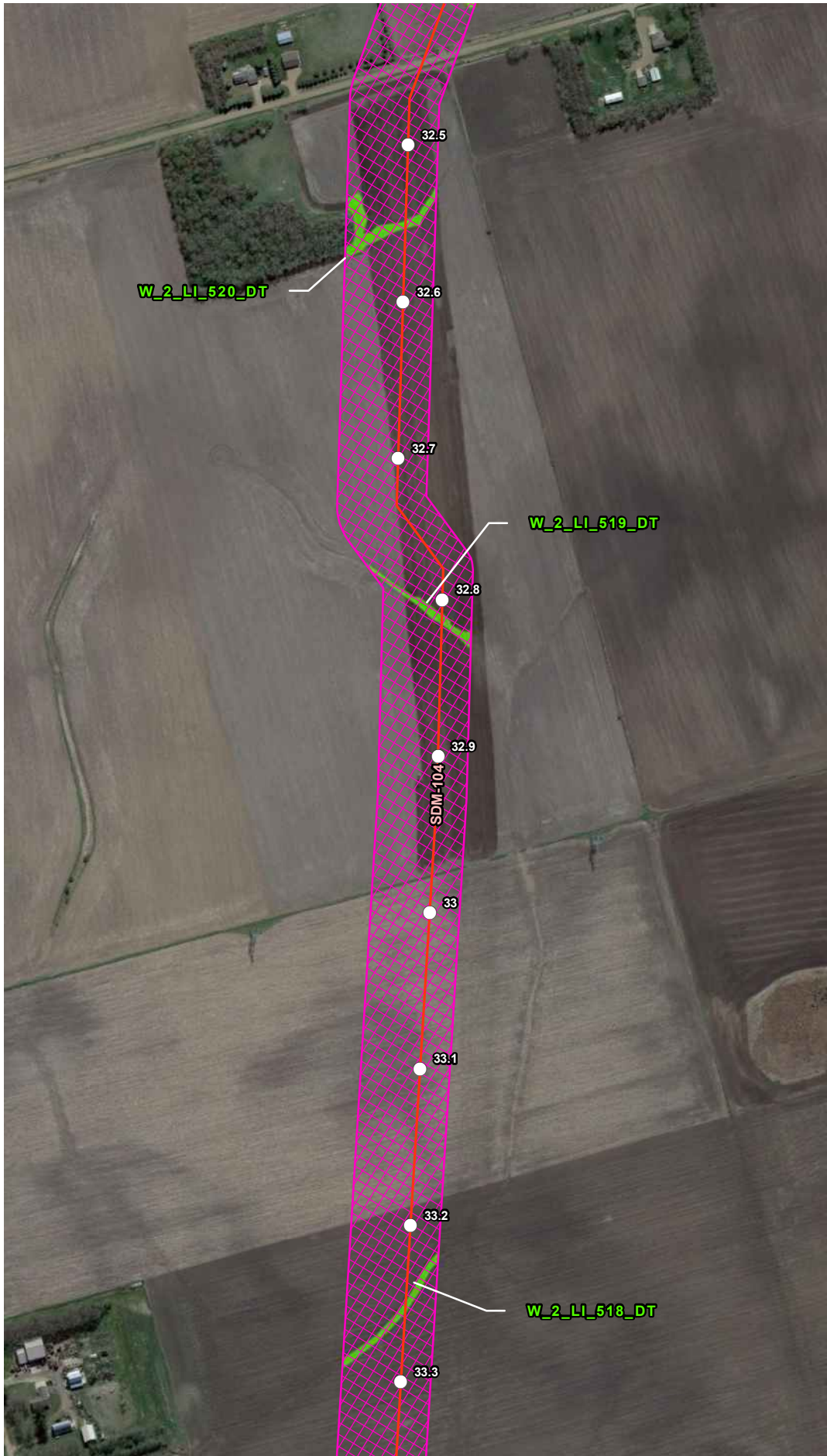
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 266 of 517

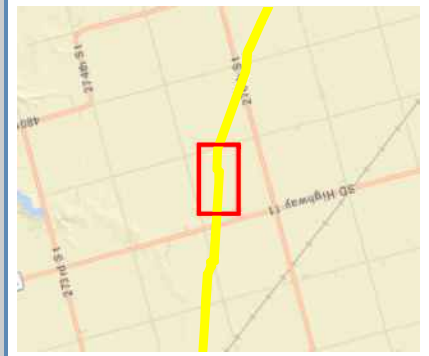
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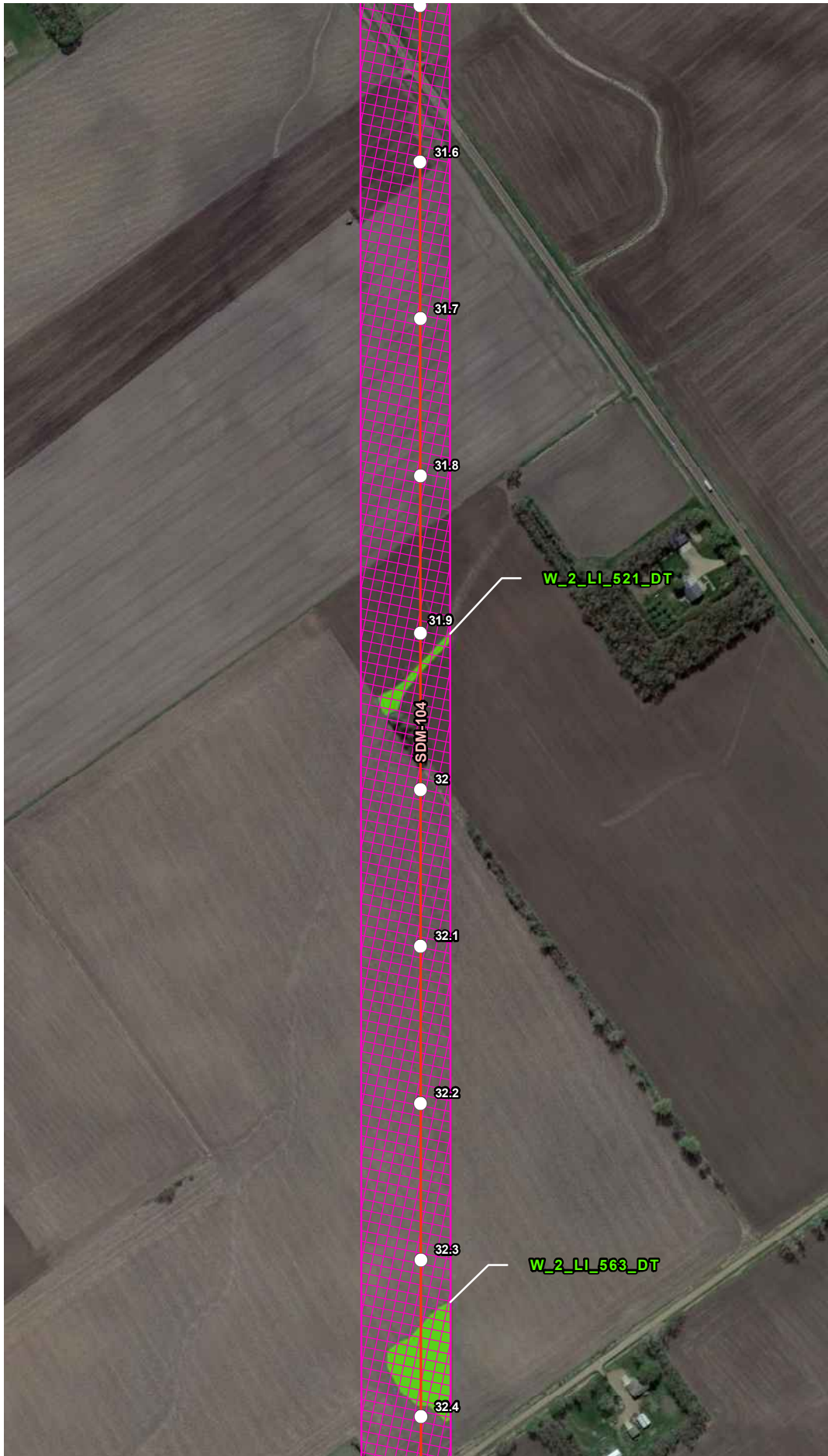
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Sheet 267 of 517

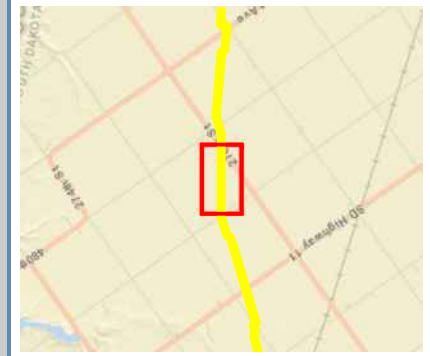
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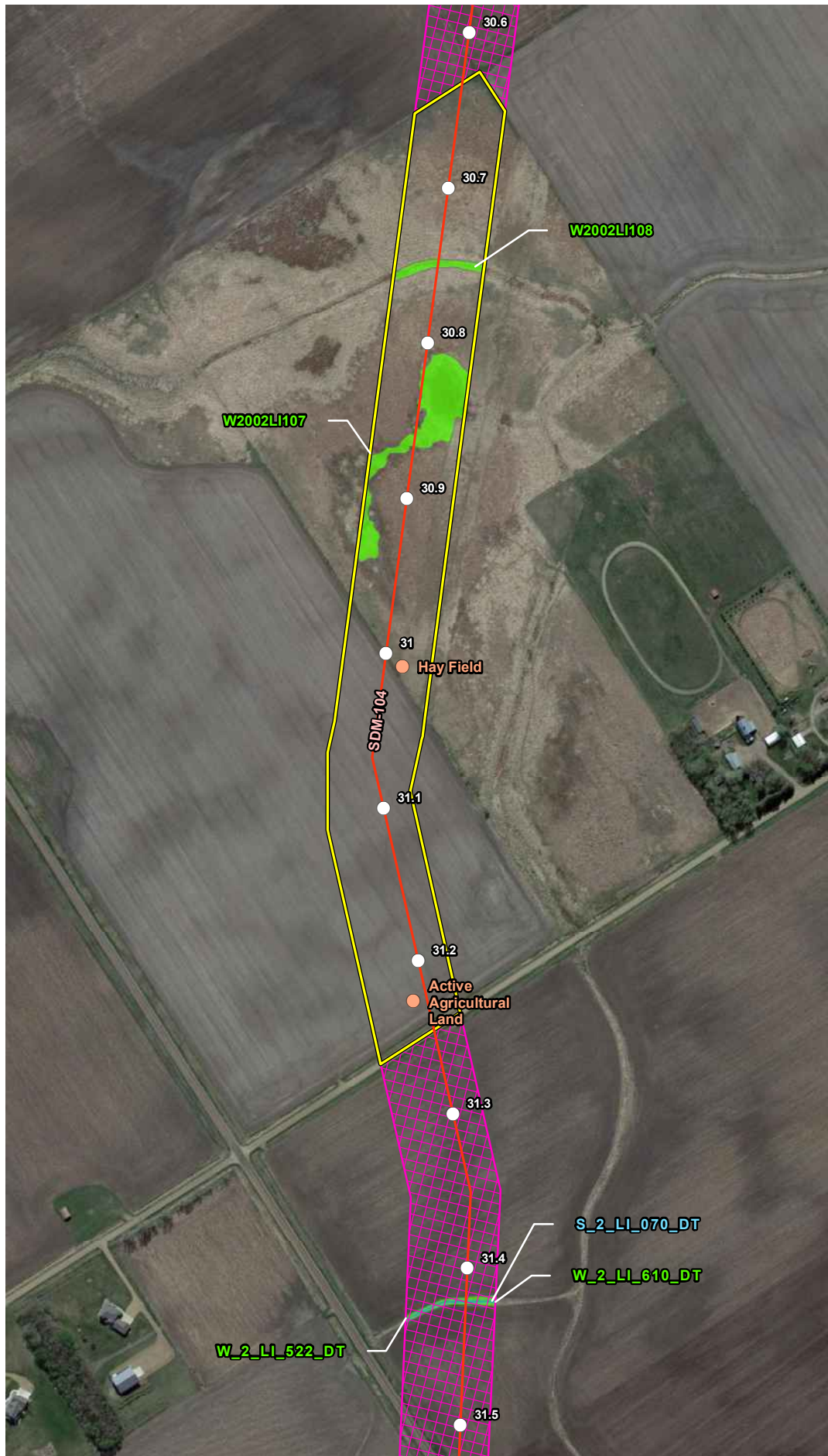
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Sheet 268 of 517

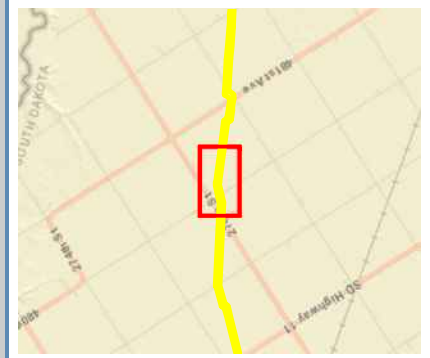
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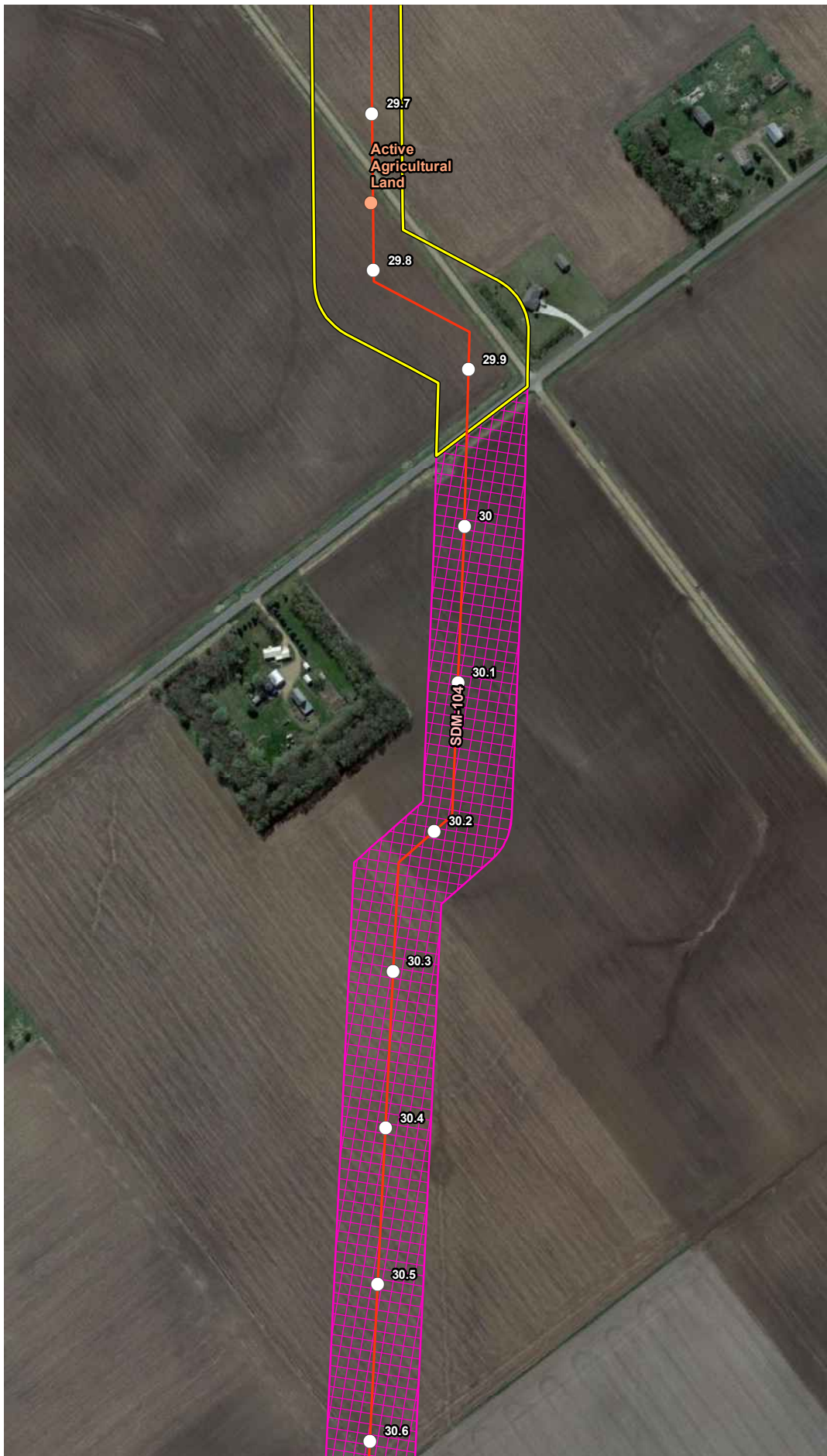
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Sheet 269 of 517

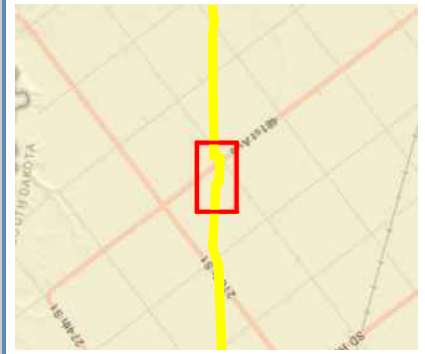
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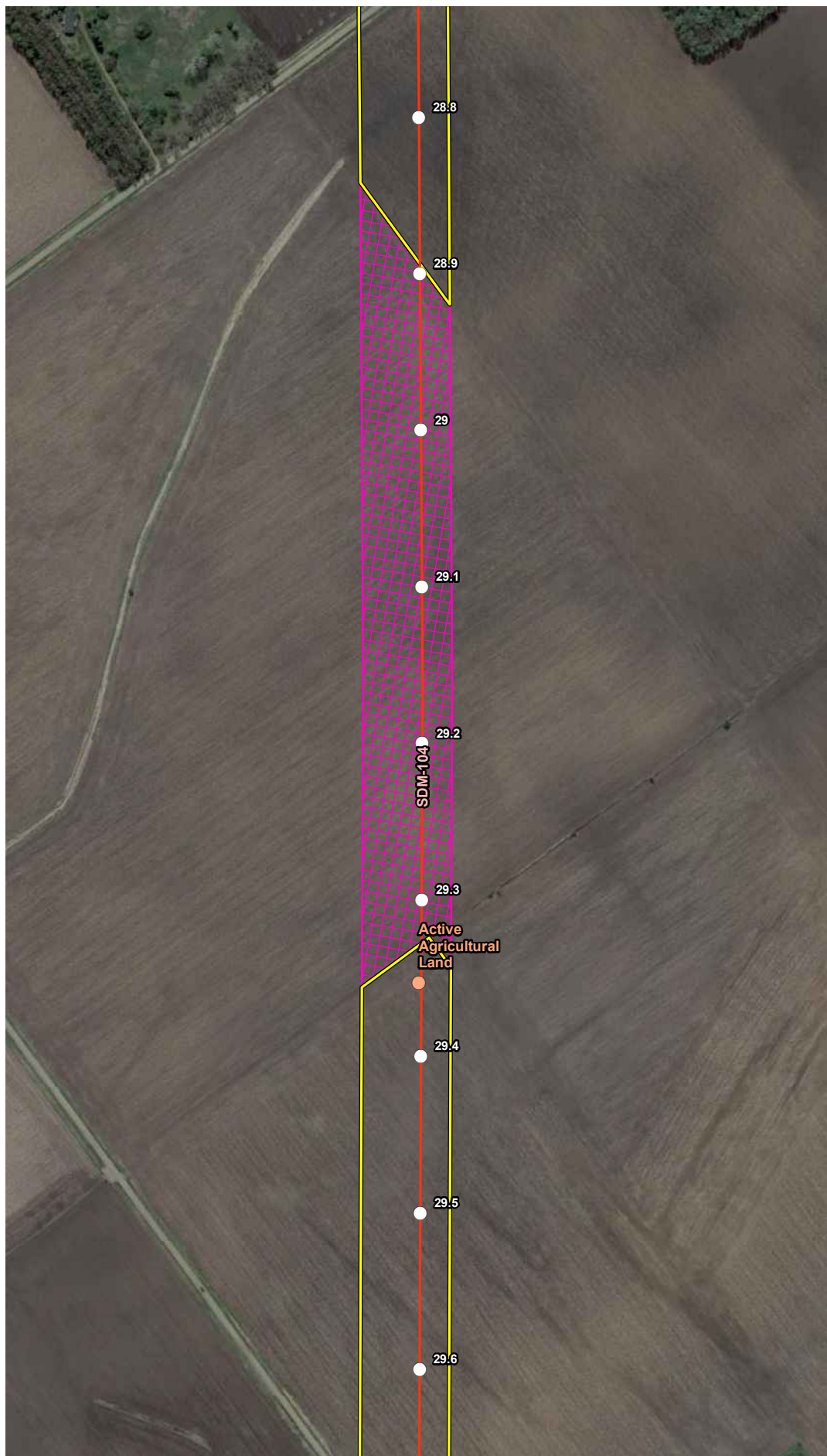
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Sheet 270 of 517

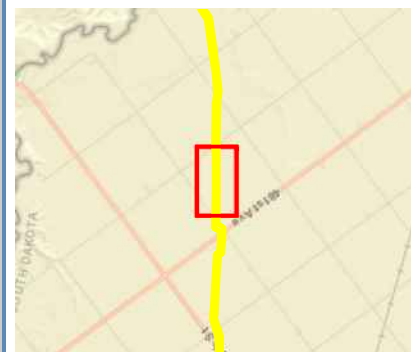
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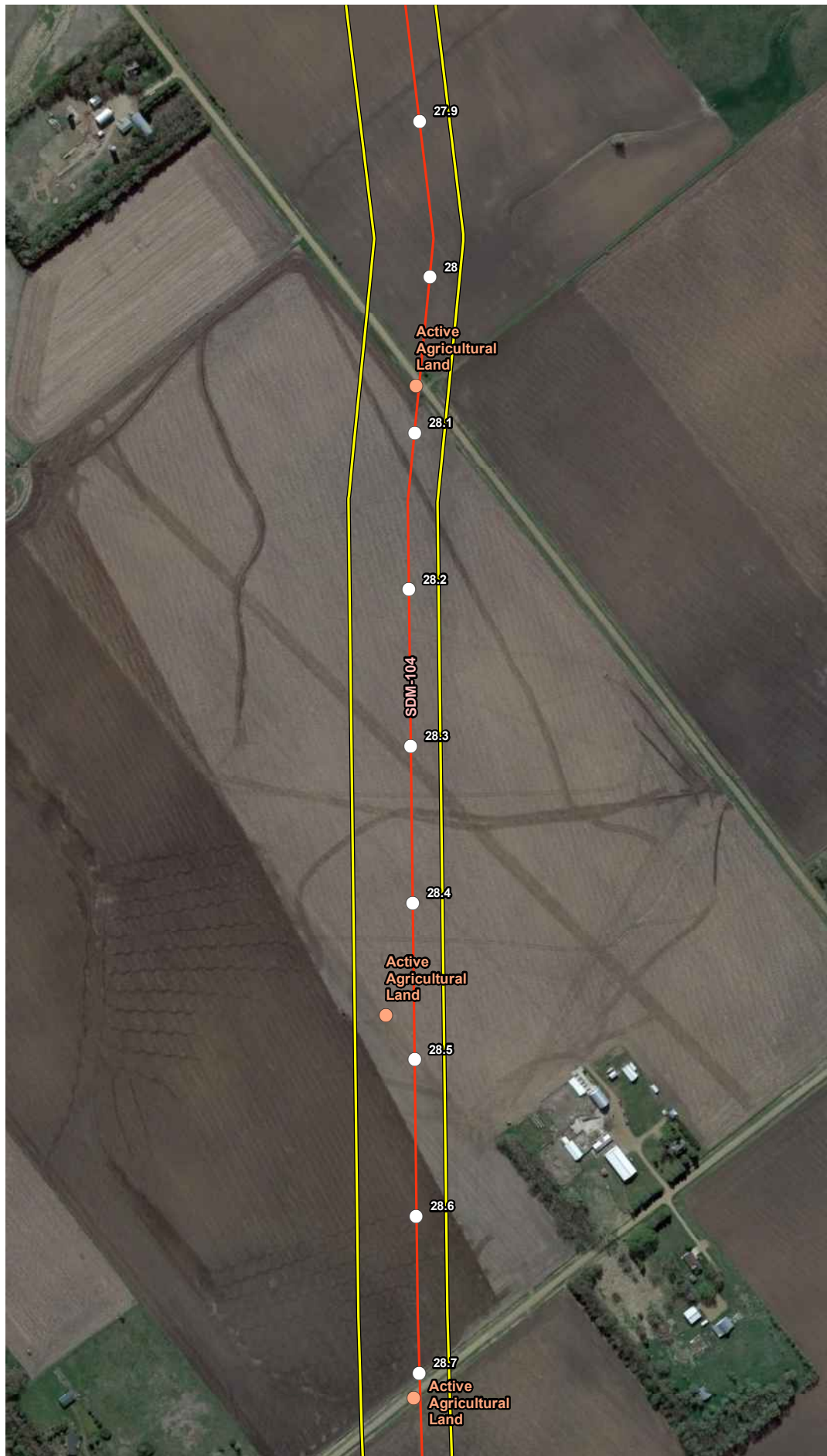
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Sheet 271 of 517

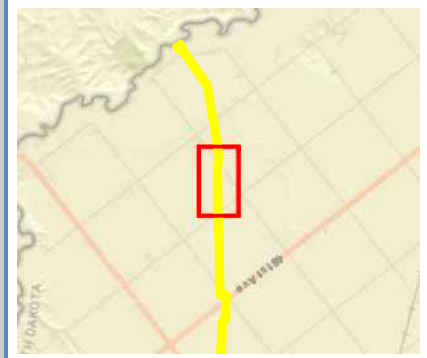
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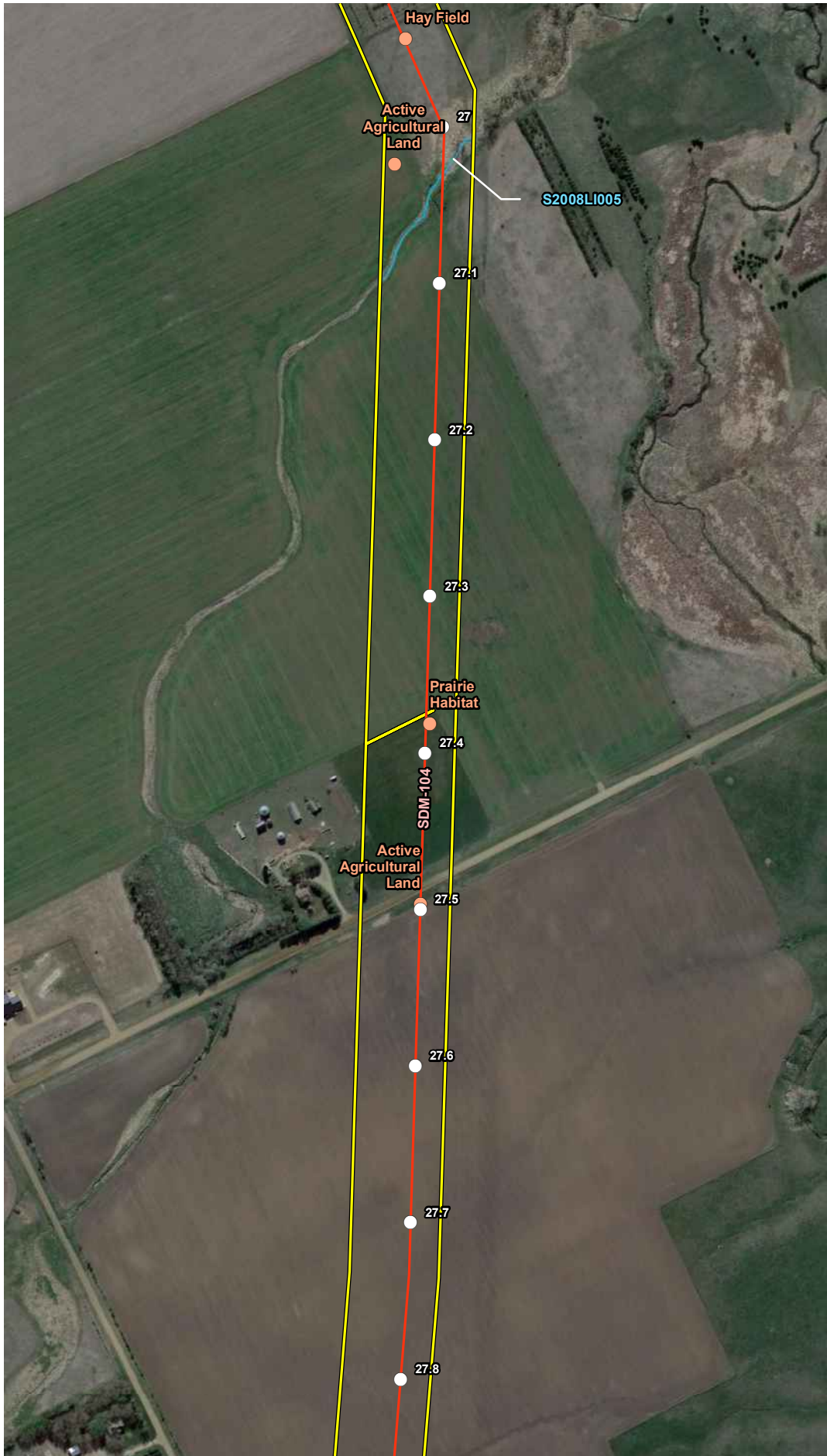
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 Sheet 272 of 517

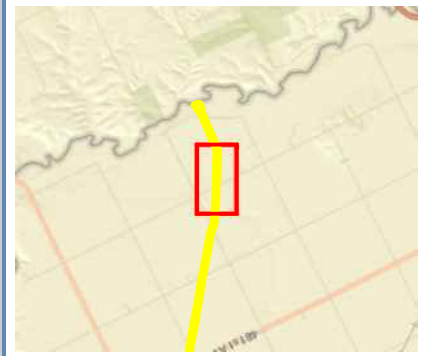
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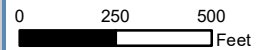


VICINITY MAP



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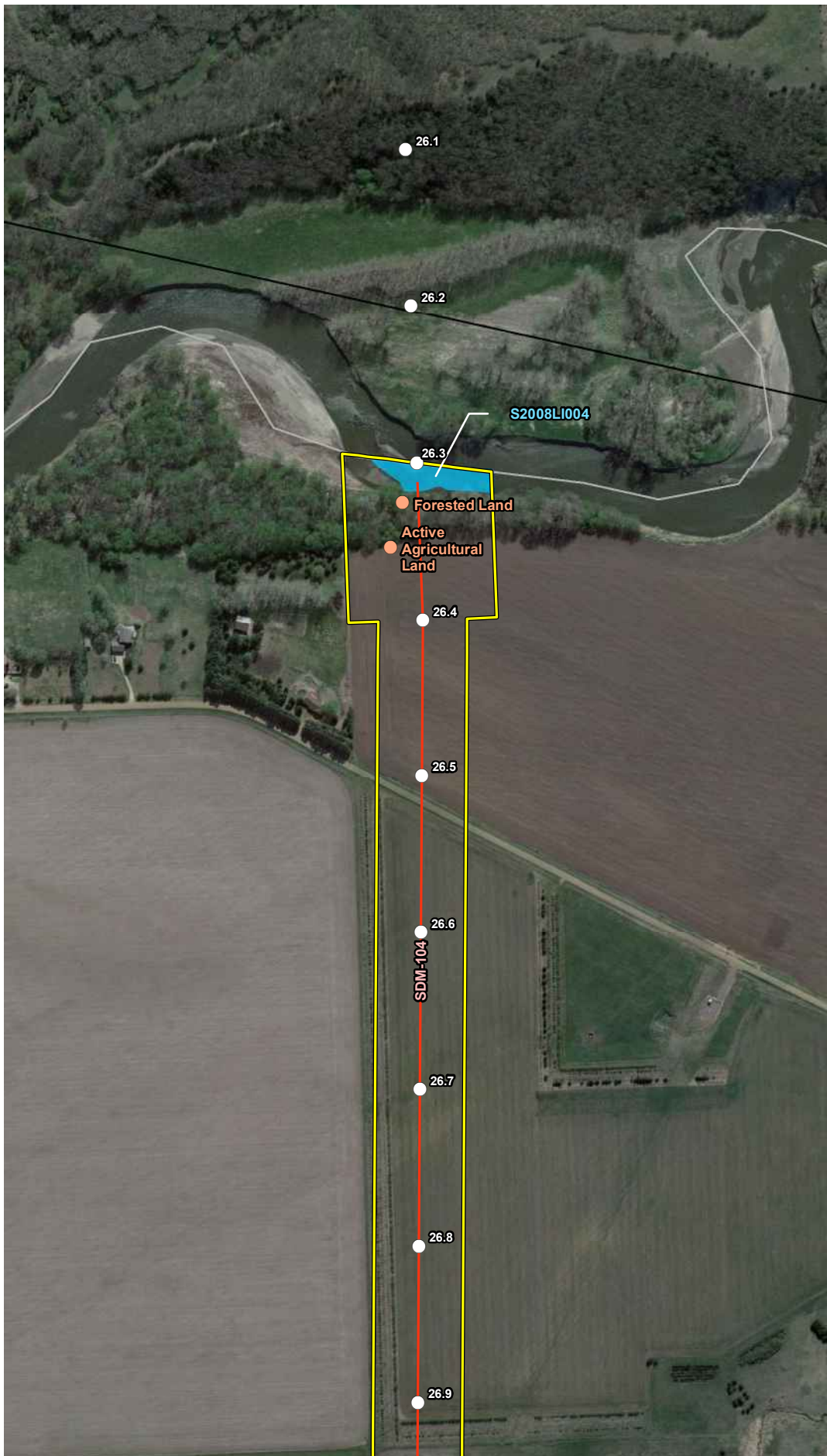
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 Sheet 273 of 517

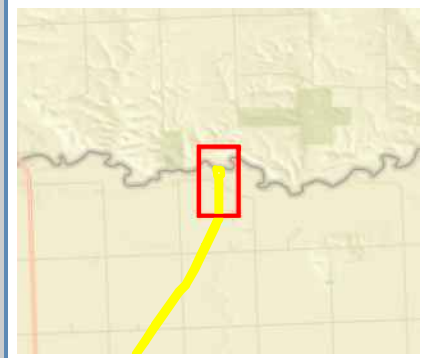
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Sheet:
274
Sheet 274 of 517

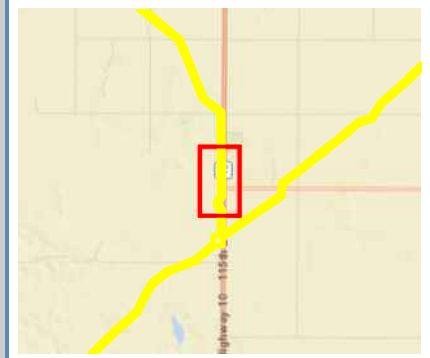
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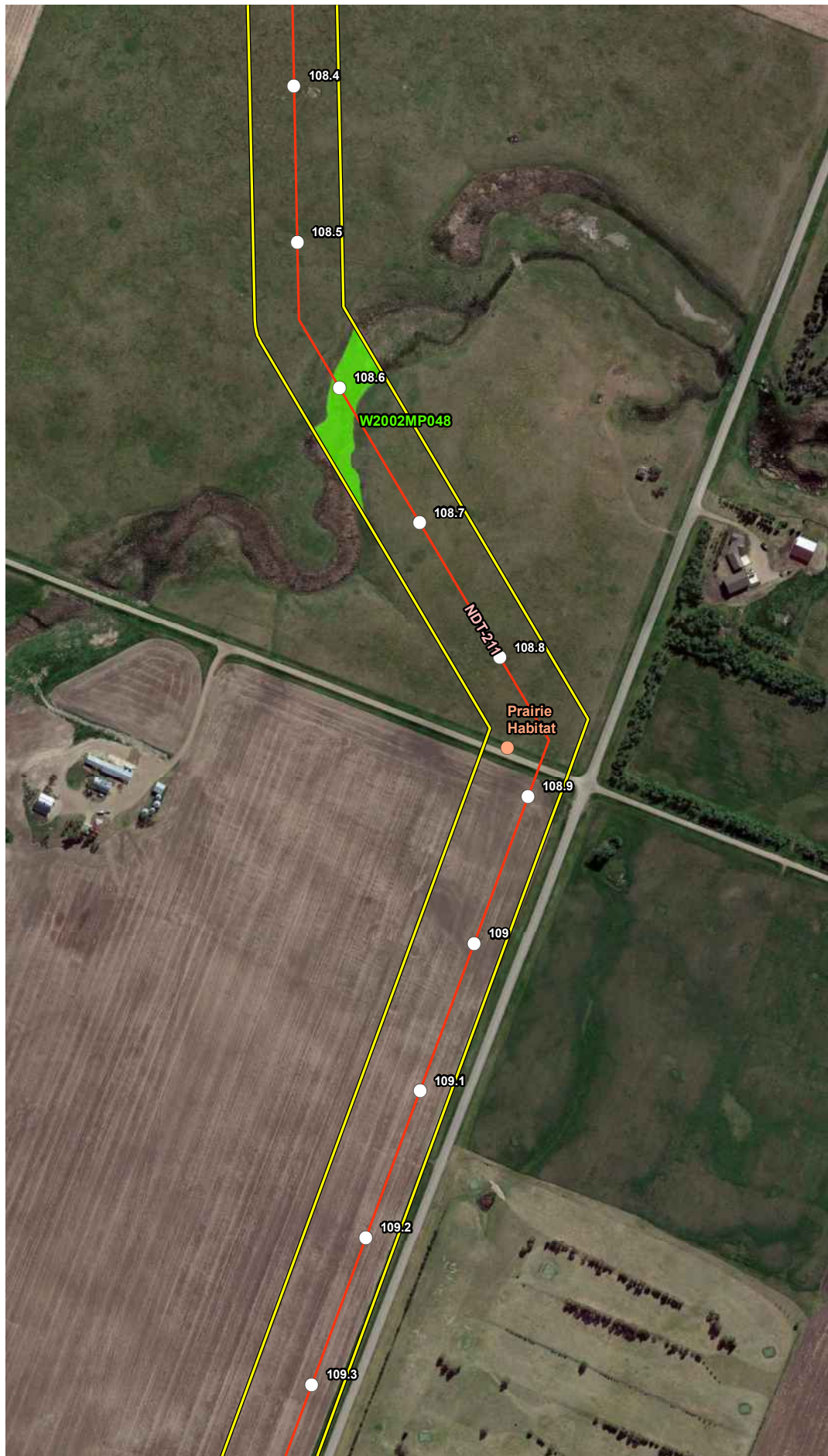
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Sheet 275 of 517

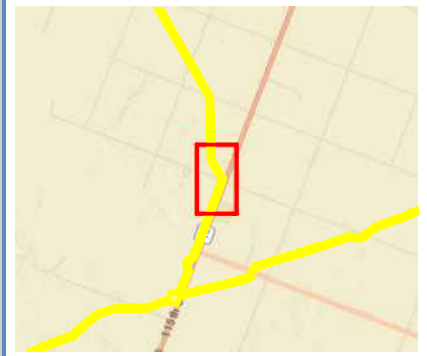
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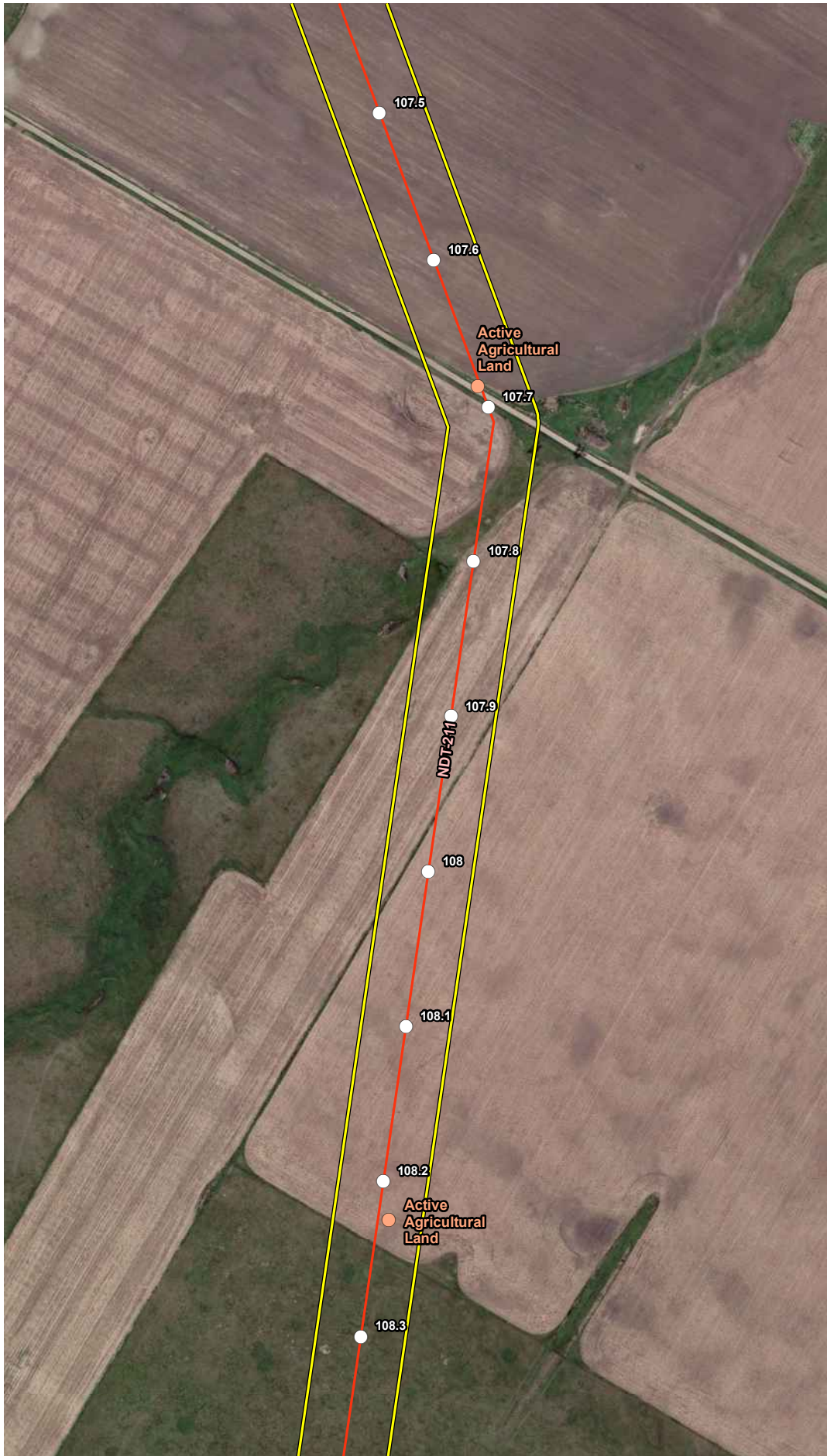
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Sheet 276 of 517

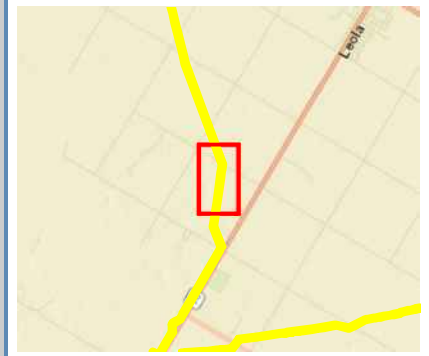
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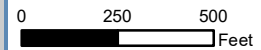


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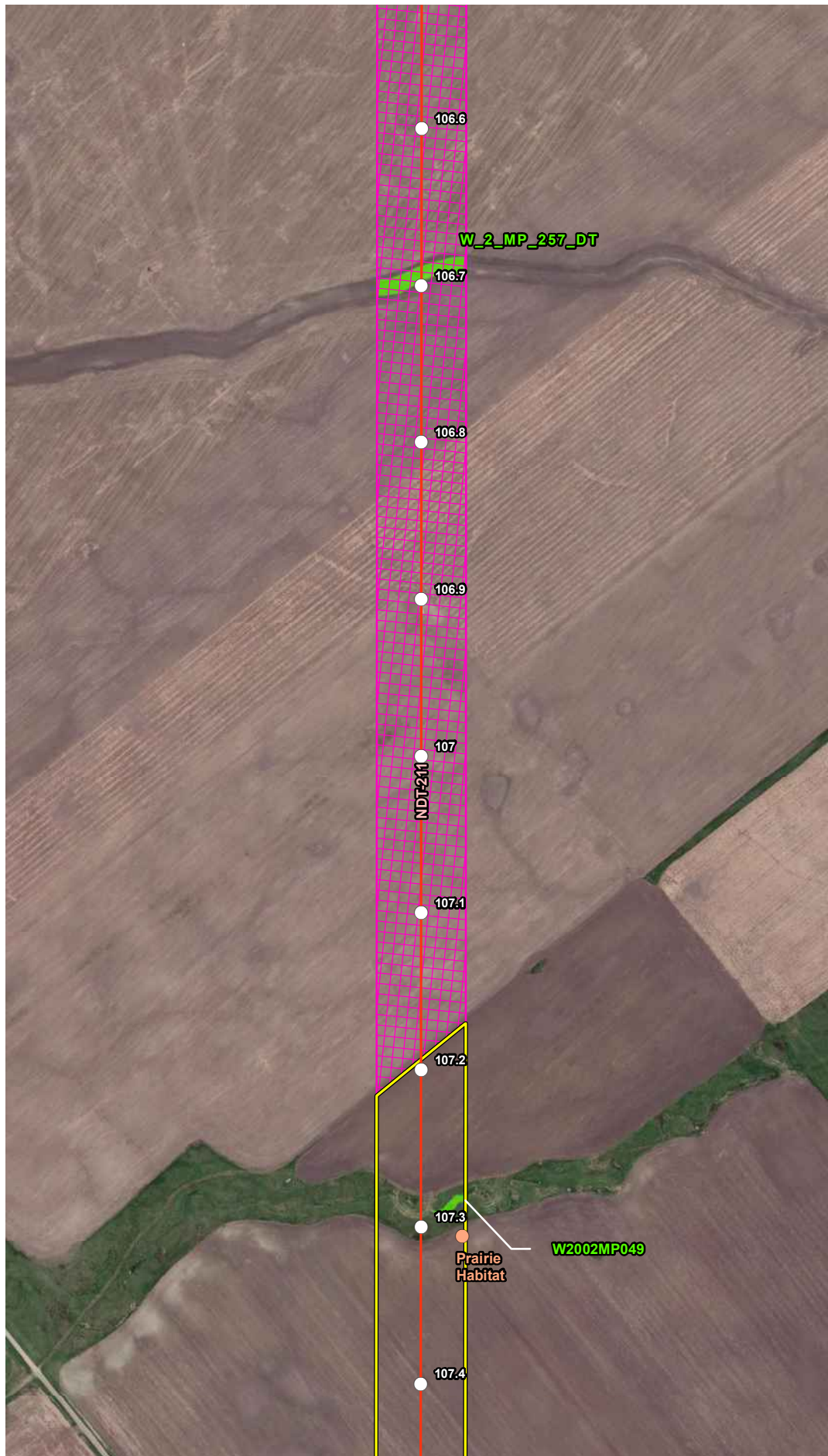
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Sheet 277 of 517

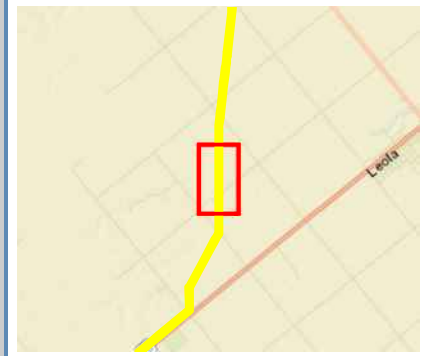
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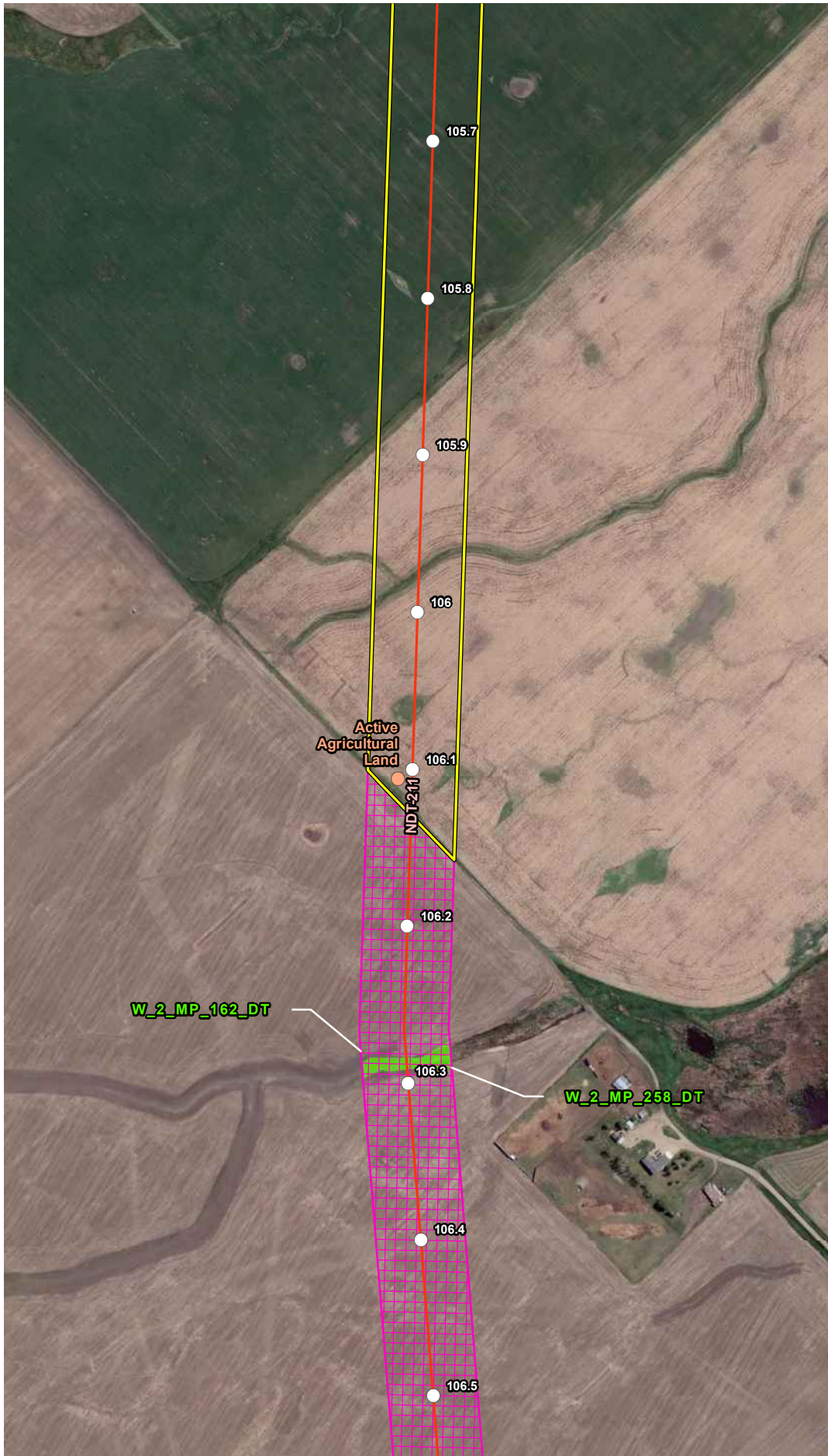
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Sheet:
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Sheet 278 of 517

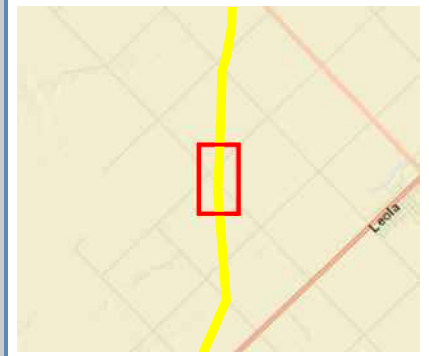
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- County Boundary
- State Boundary

0 250 500 Feet

REVISIONS

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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
279
Sheet 279 of 517

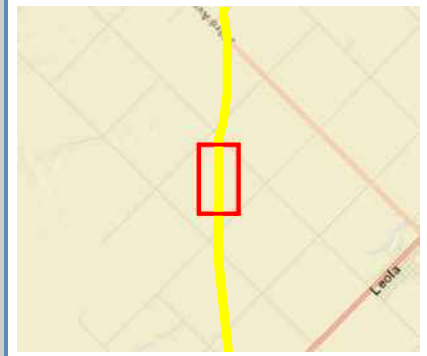
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AERIAL MAP



VICINITY MAP



LEGEND

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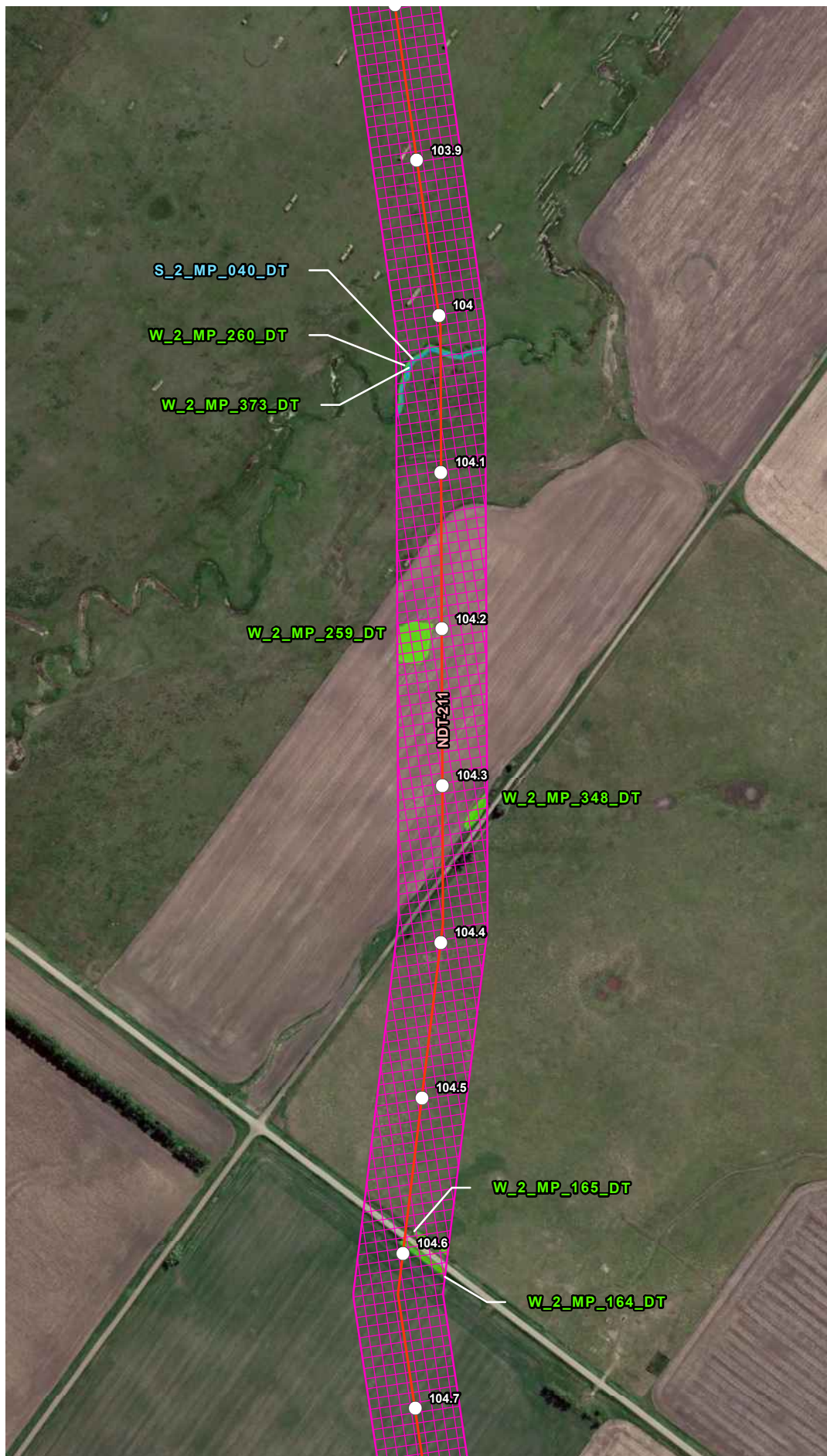
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Sheet 280 of 517

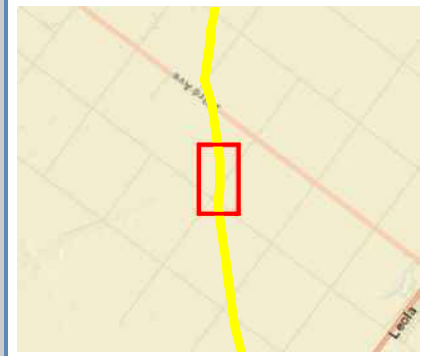
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Sheet:
281
Sheet 281 of 517

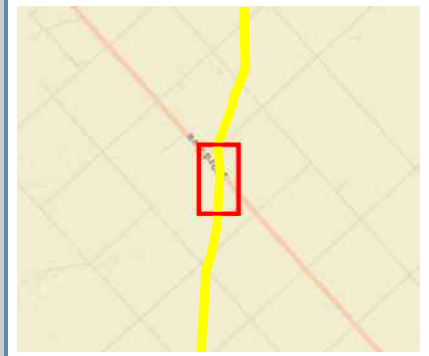
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Projection:
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Sheet:
282
Sheet 282 of 517

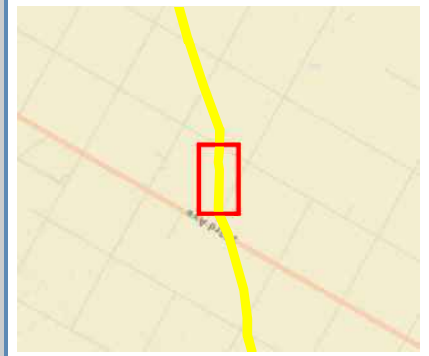
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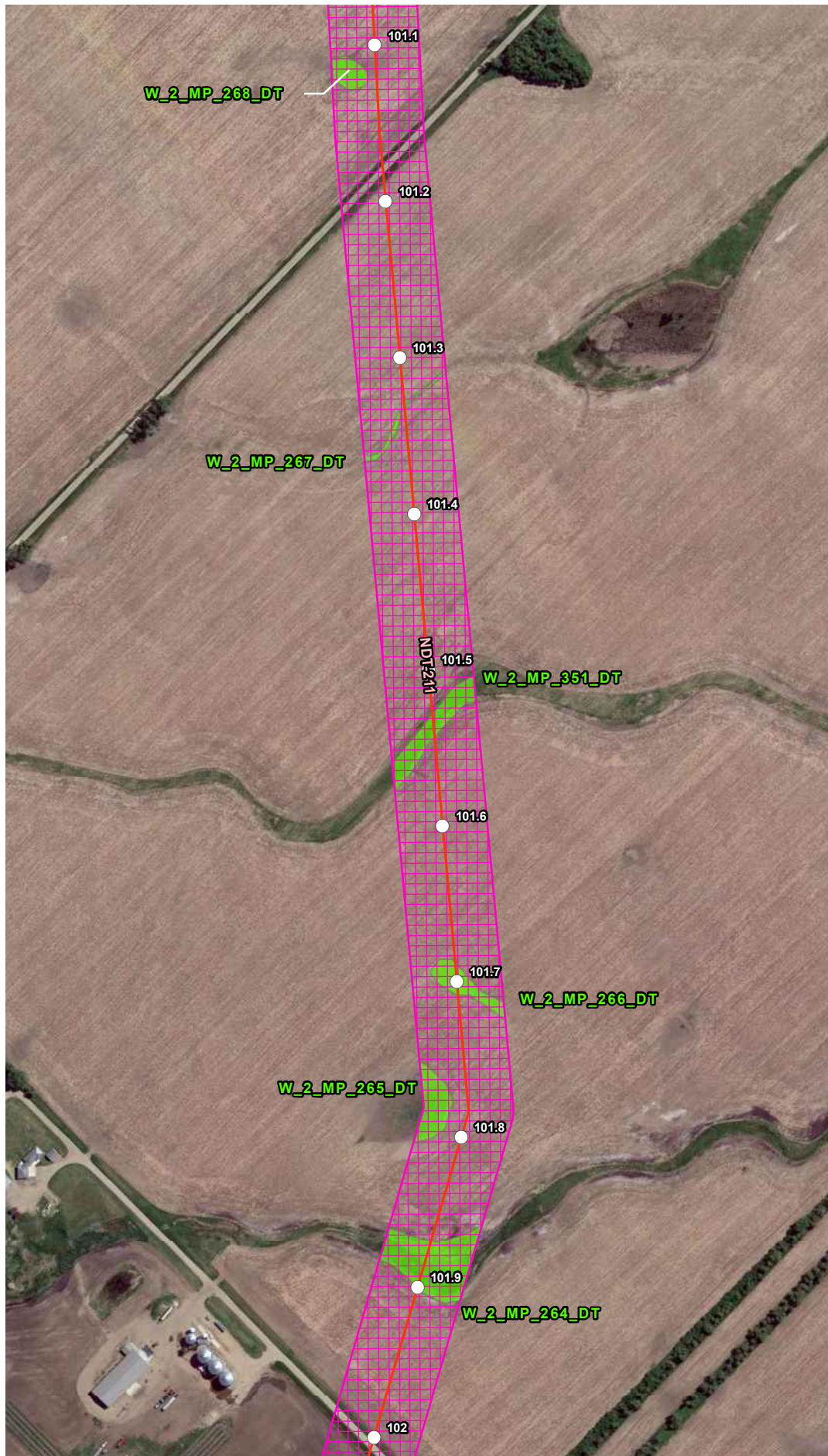
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Sheet 283 of 517

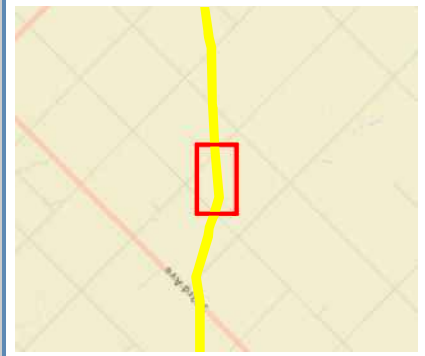
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Sheet:
284
Sheet 284 of 517

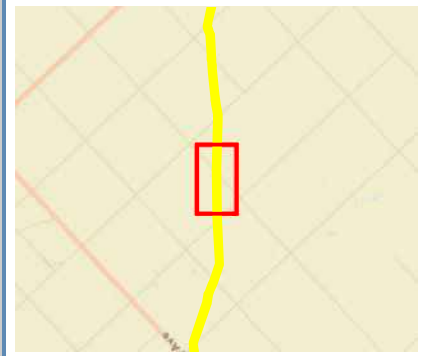
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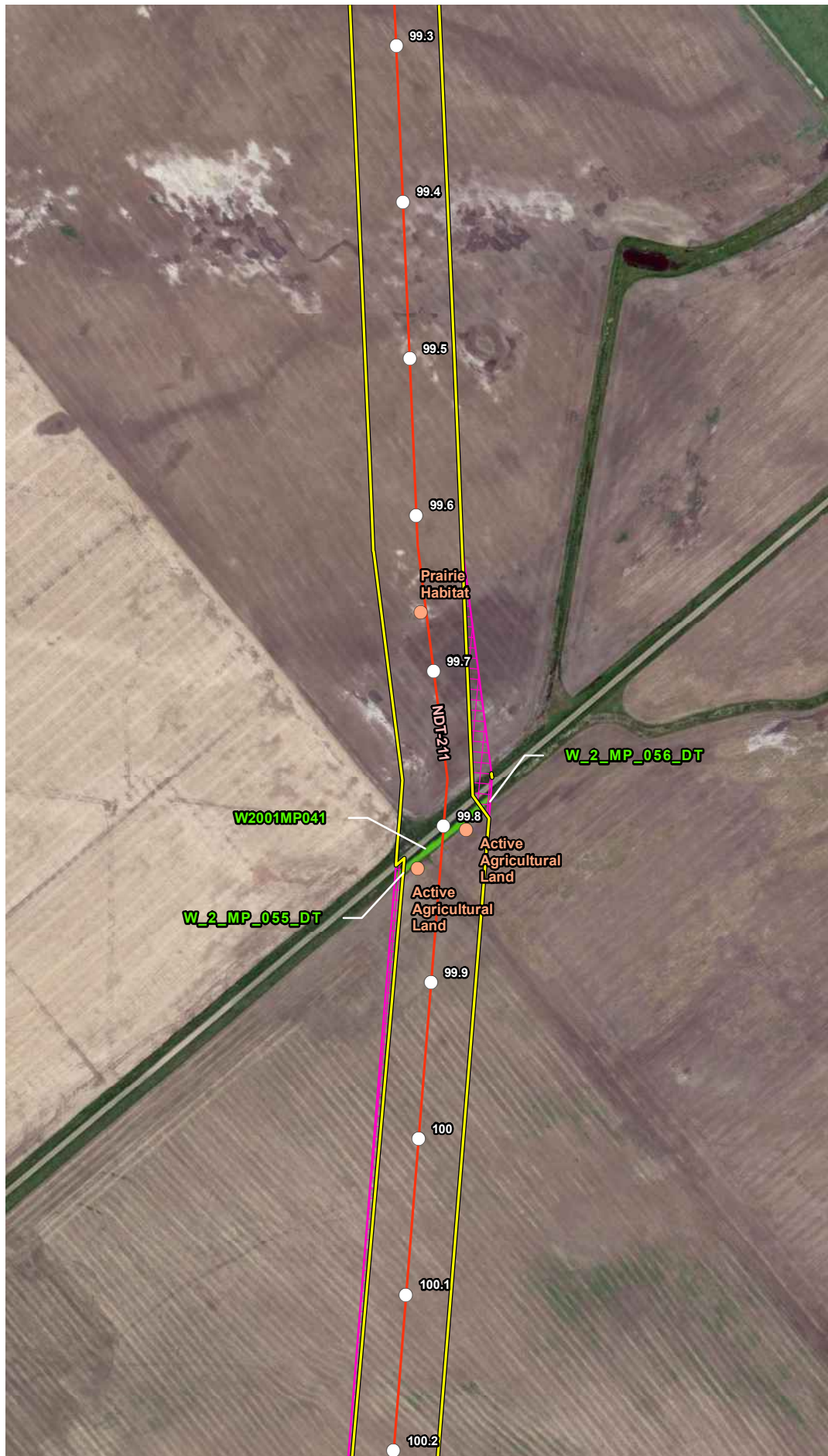
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Sheet 285 of 517

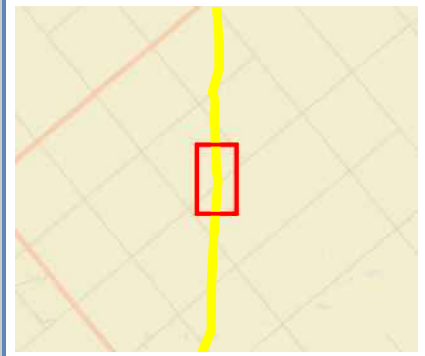
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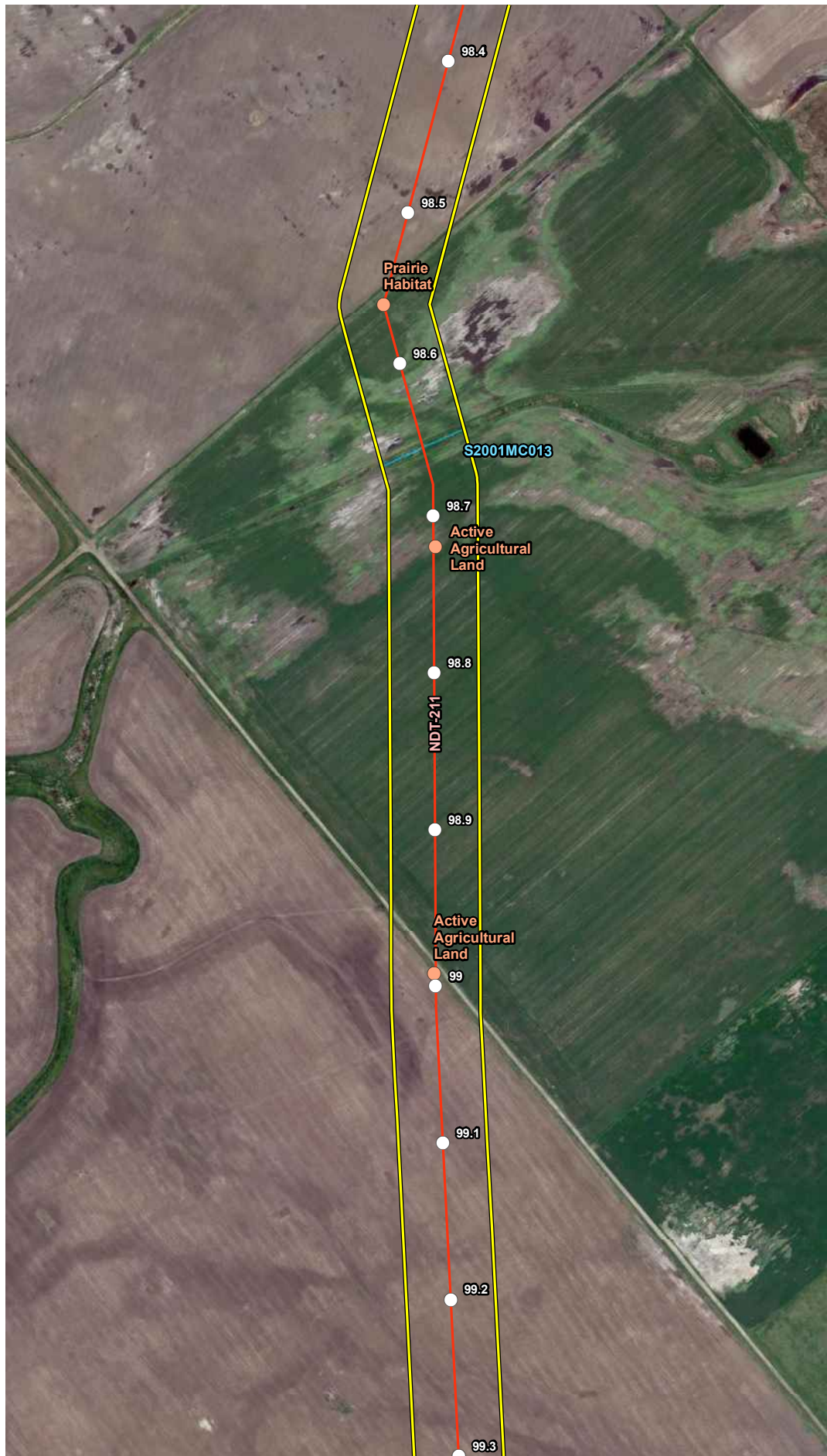
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Sheet 286 of 517

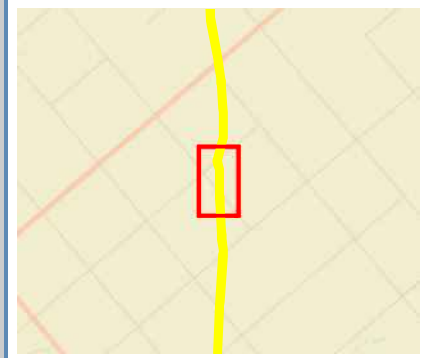
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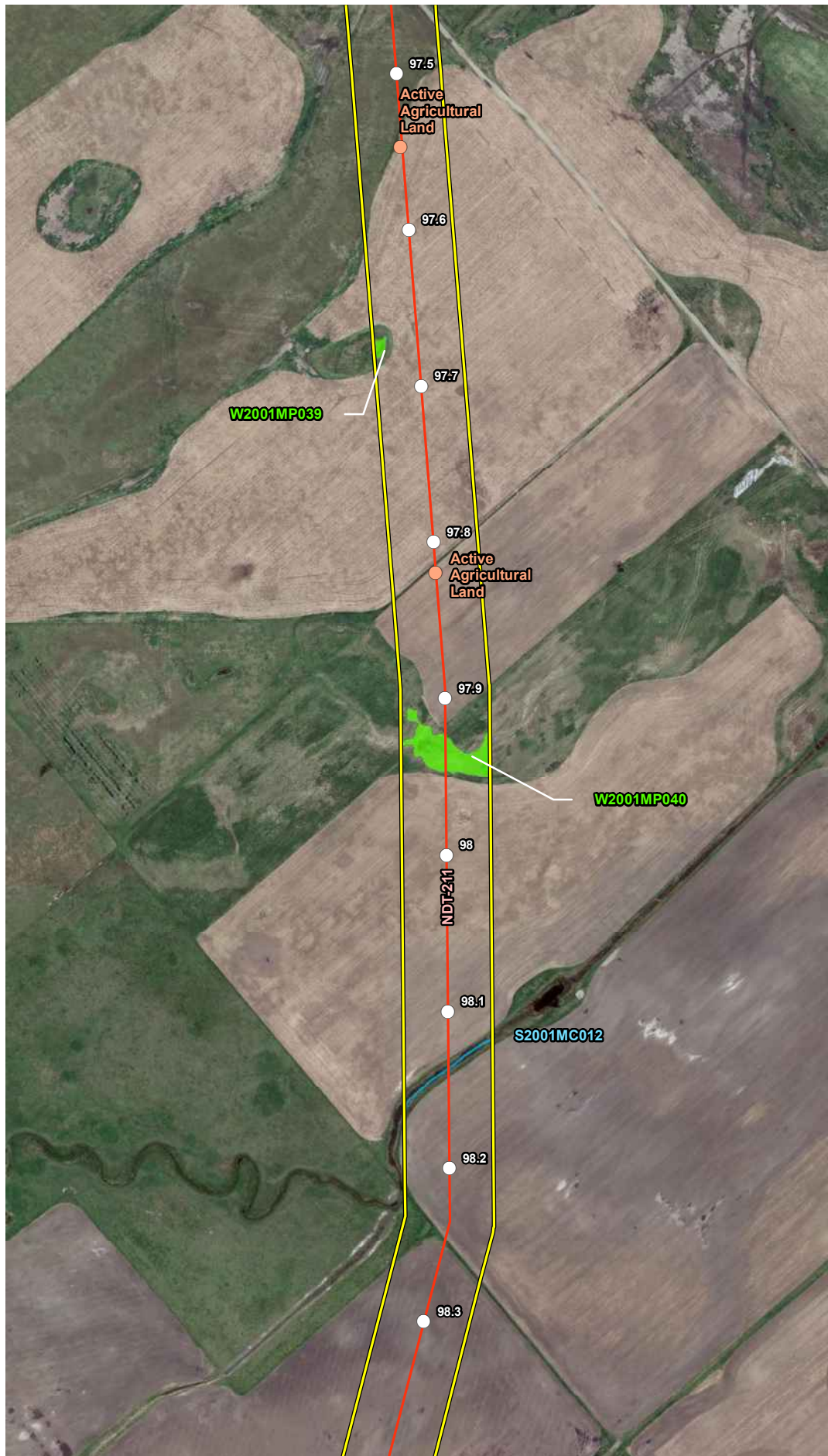
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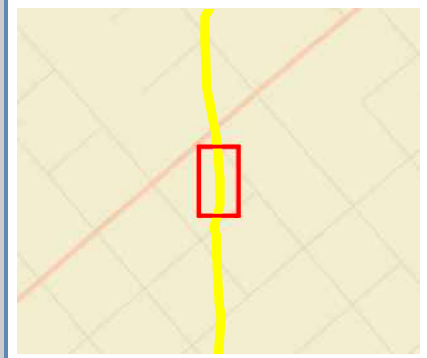
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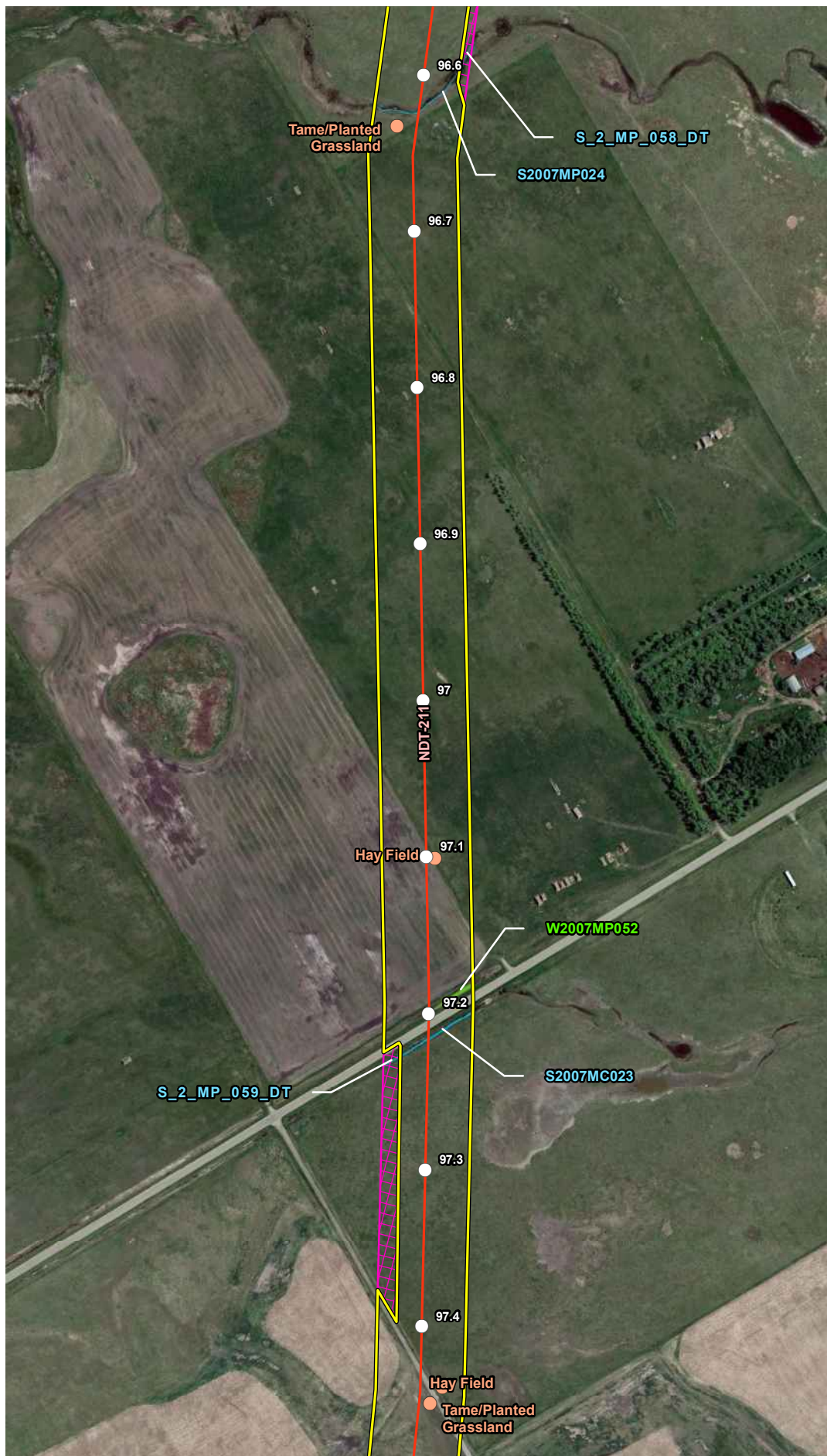
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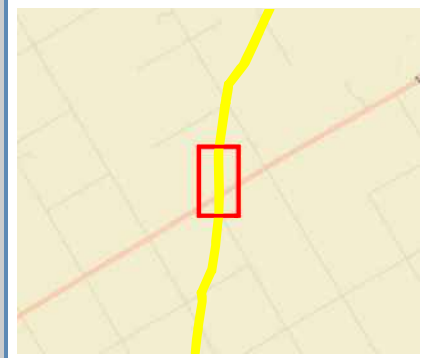
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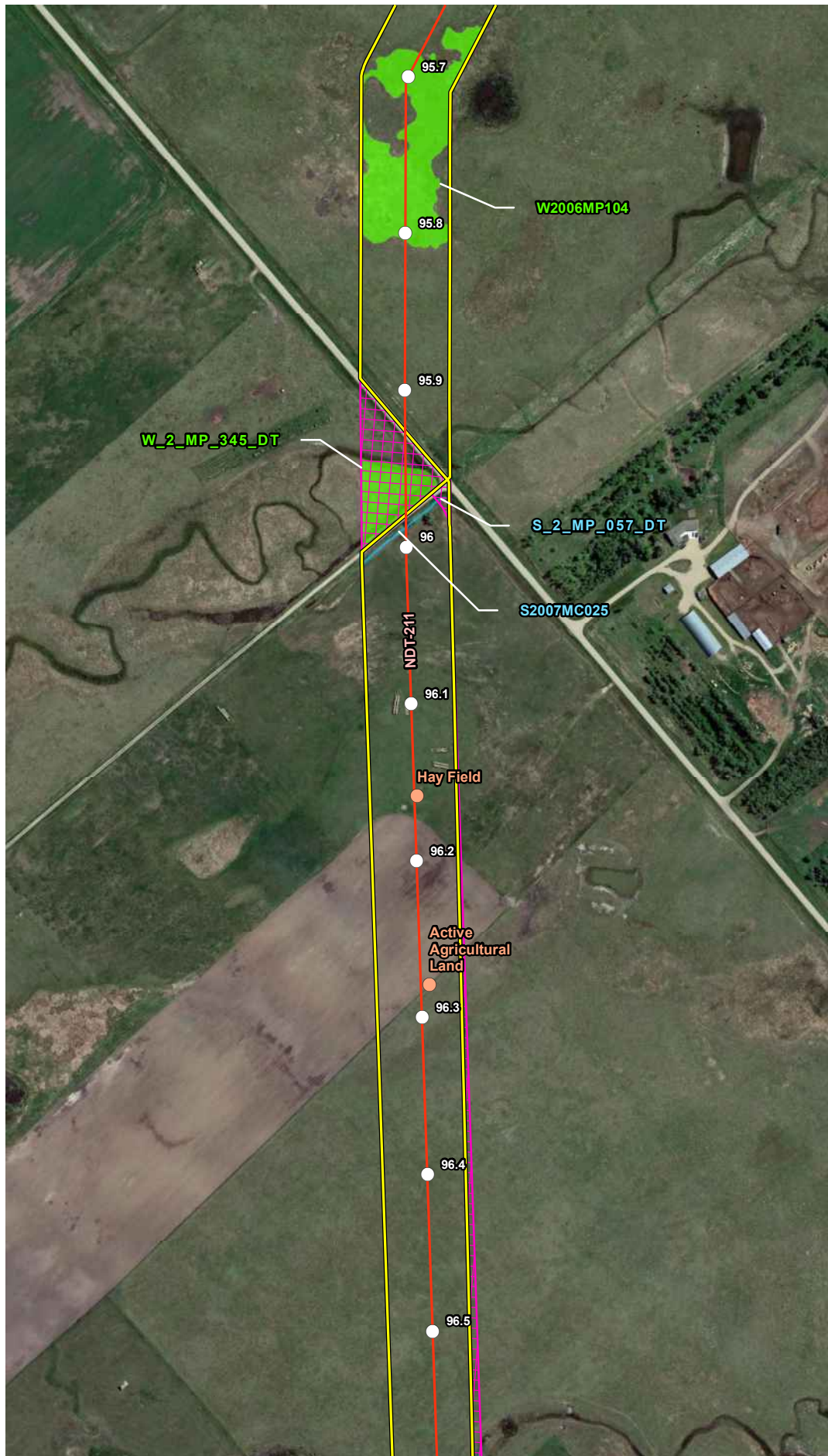
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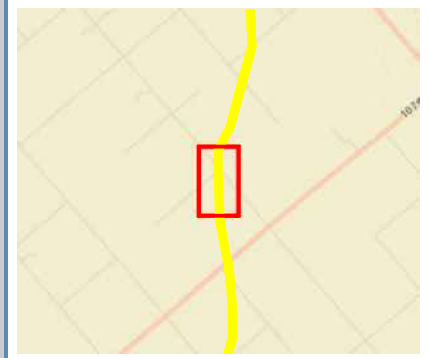
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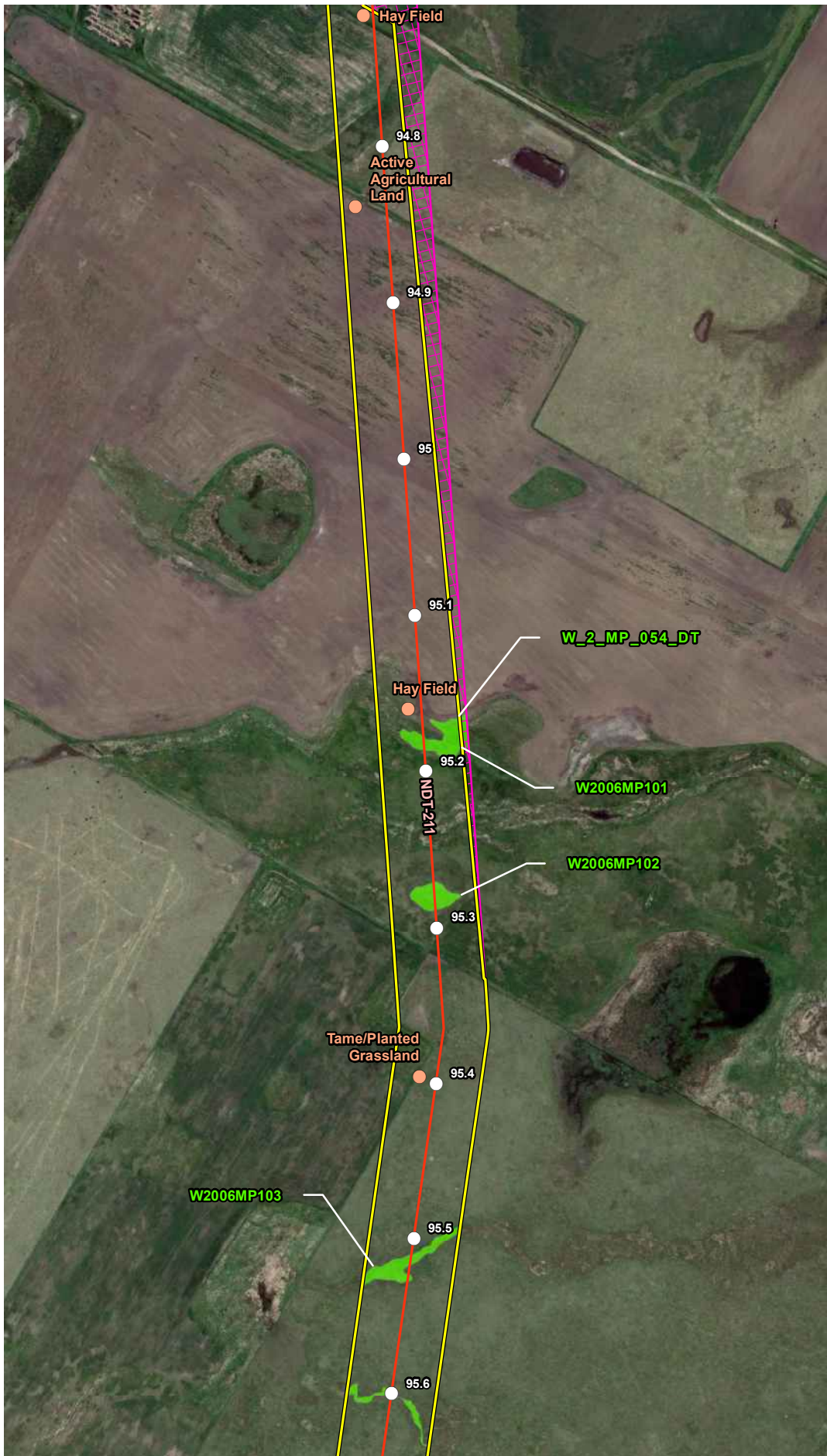
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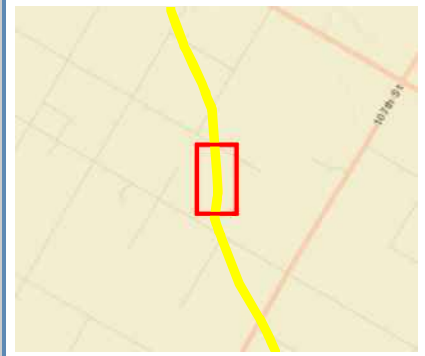
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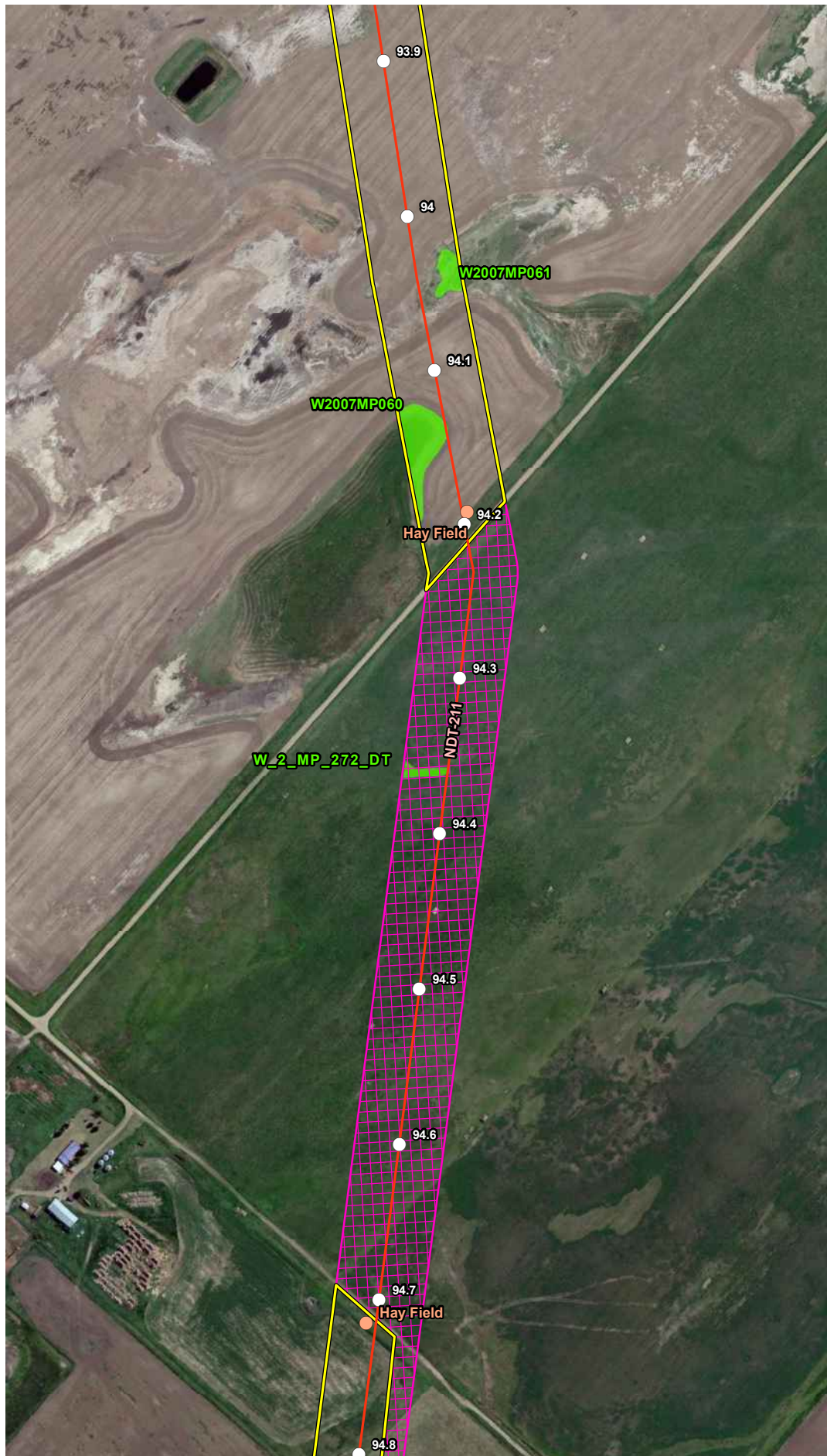
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Sheet:
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Sheet 292 of 517

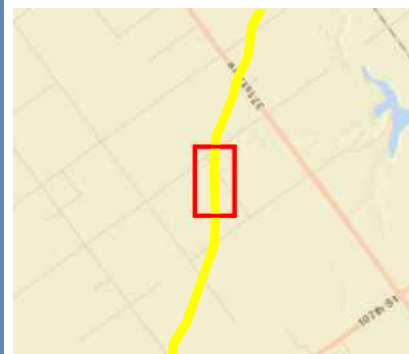
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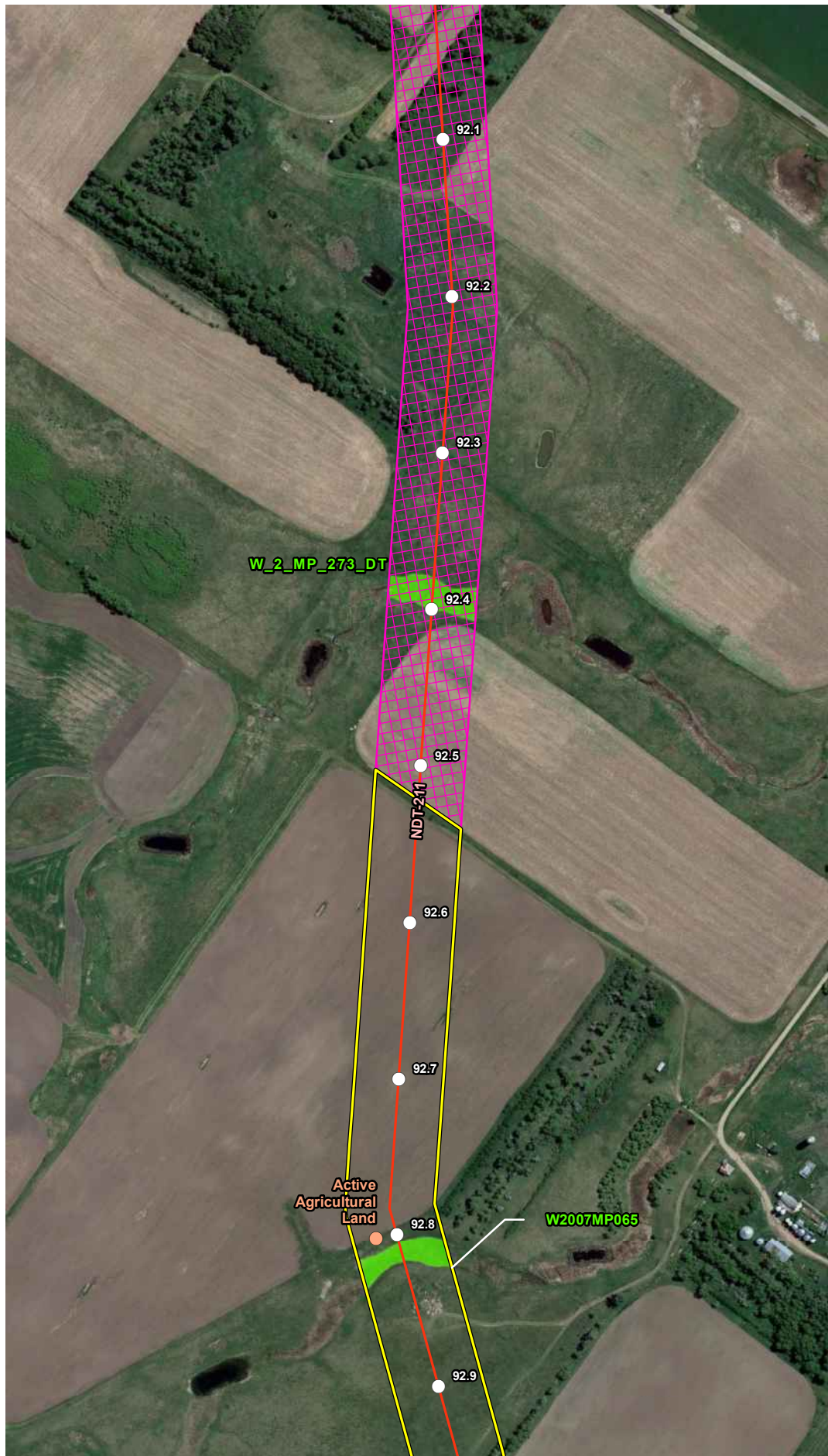
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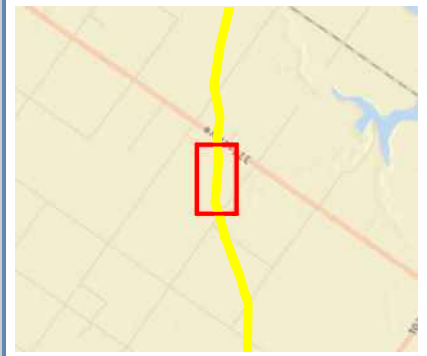
Sheet:
293
Sheet 293 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

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Revision description

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
294
Sheet 294 of 517

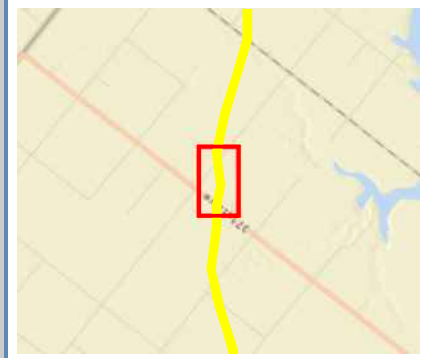
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AERIAL MAP



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0 250 500 Feet

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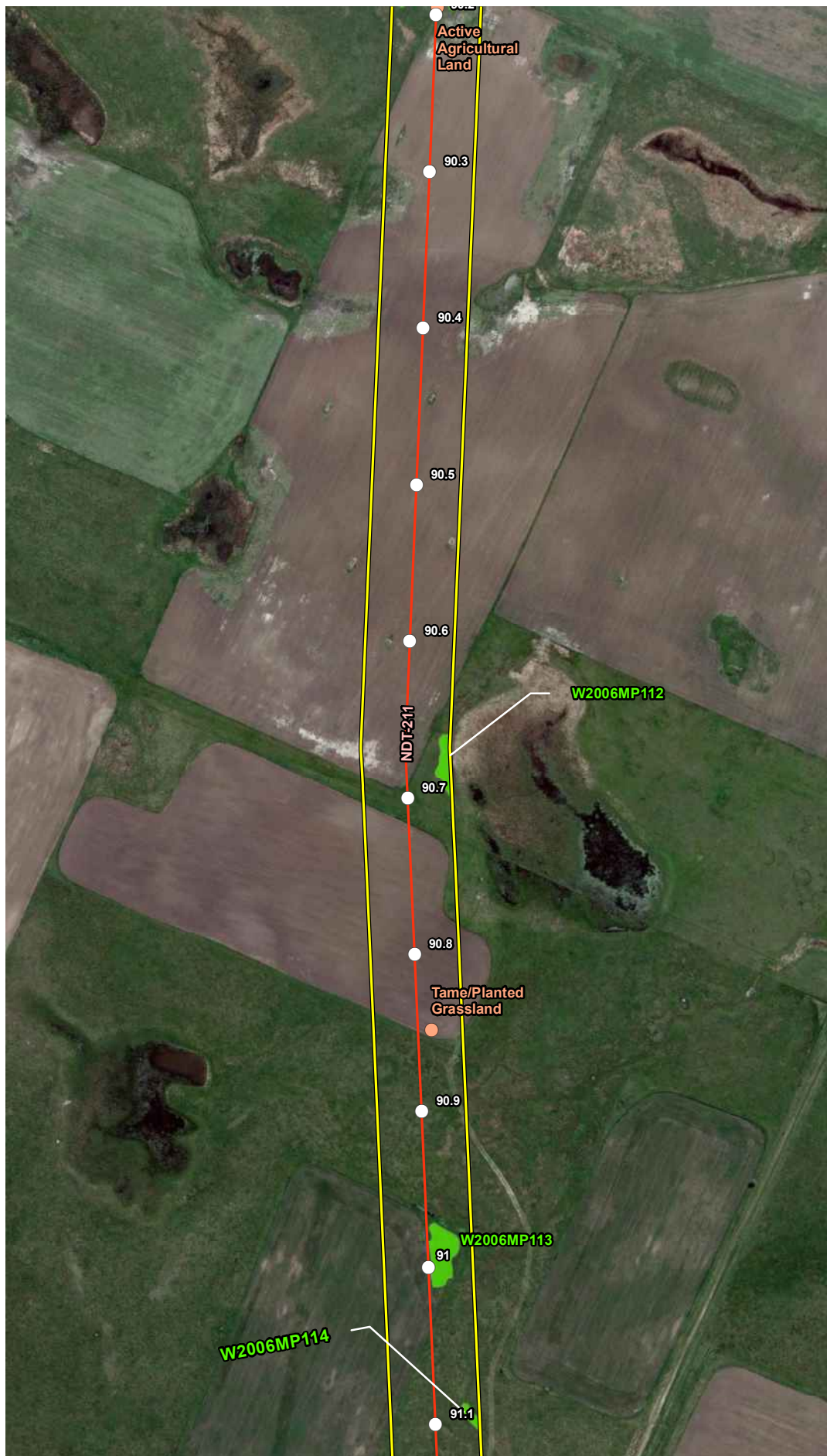
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 295 of 517

Drawing Number:
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Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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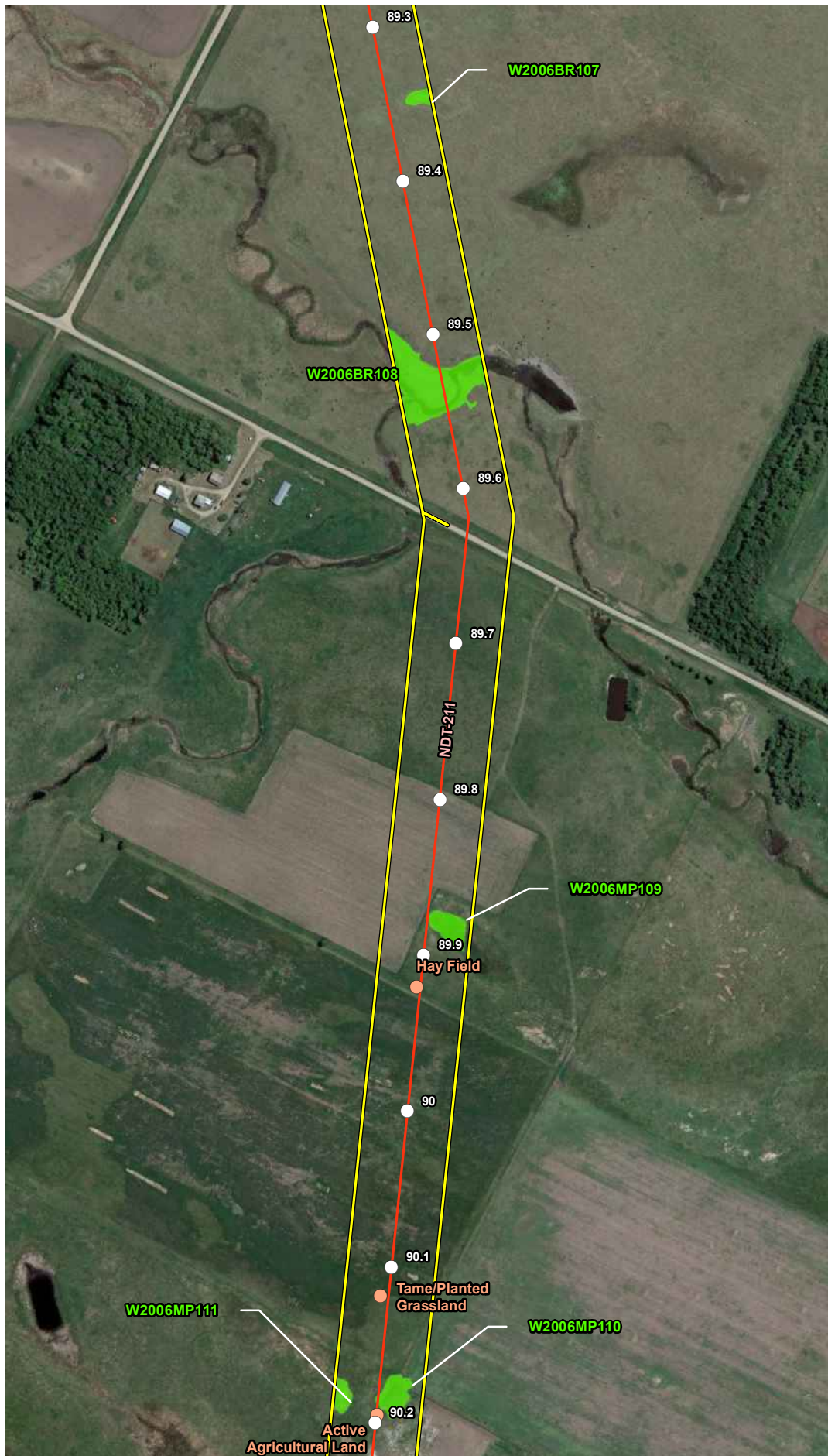
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 296 of 517

Drawing Number:
2001-21-002
Current Revision













AERIAL MAP

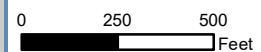


VICINITY MAP



LEGEND

-  Milepost
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Figure Number:

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Scale:
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NAD 1983 UTM Zone 14N

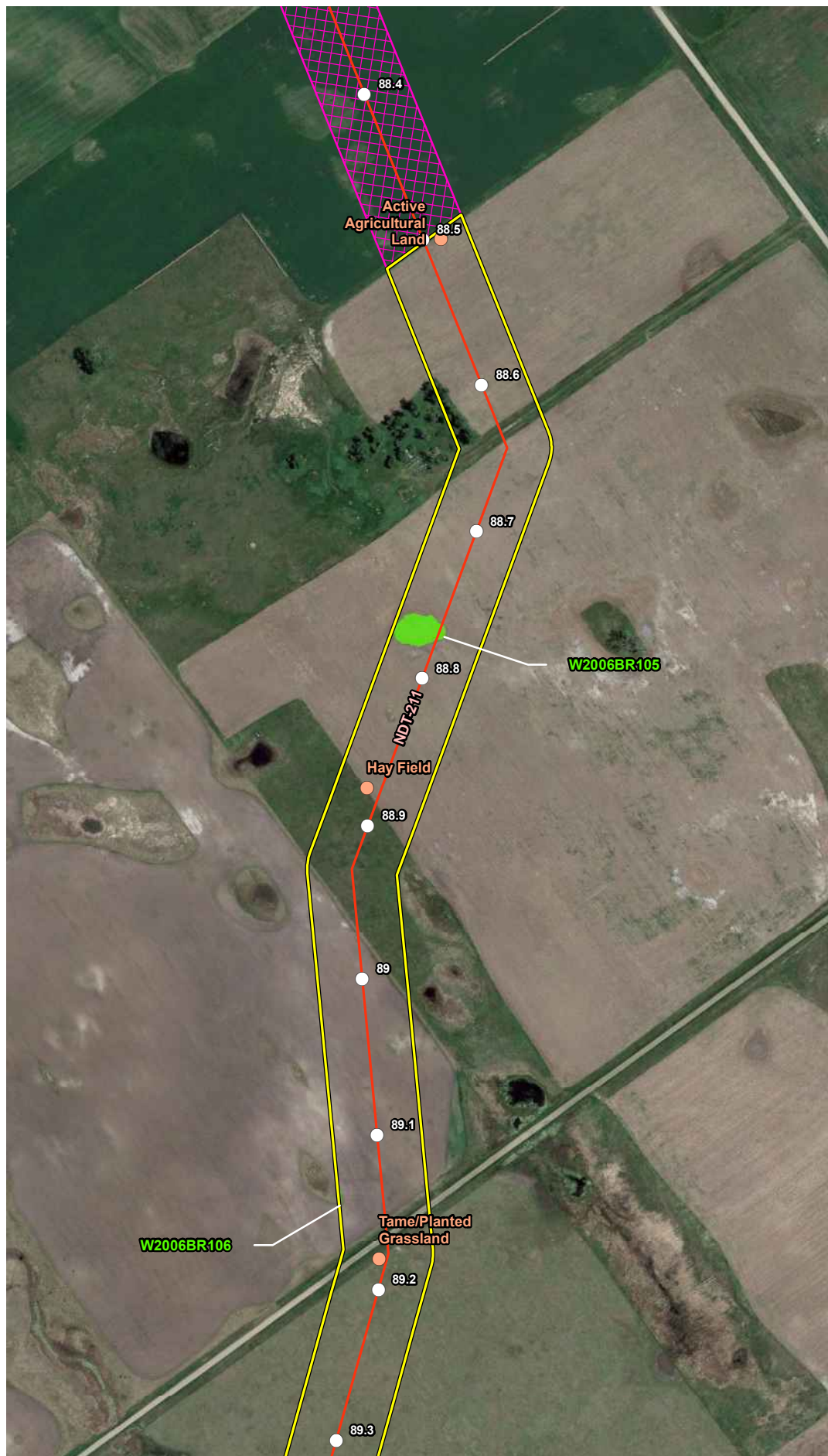
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Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500
Feet

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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
298
Sheet 298 of 517

Drawing Number:
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0 250 500 Feet



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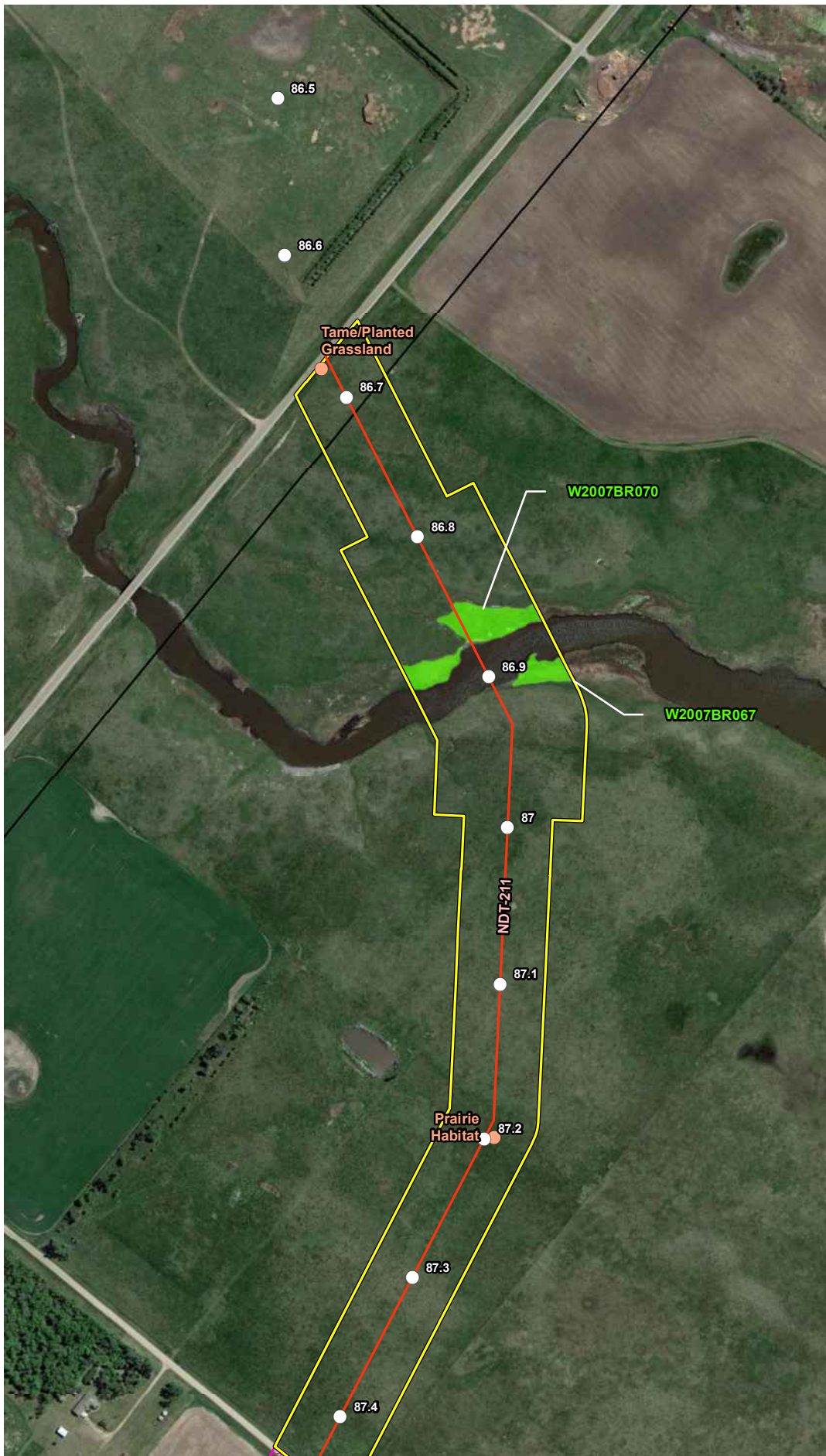
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 299 of 517

Drawing Number:
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0 250 500 Feet

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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
300
Sheet 300 of 517

Drawing Number:
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VICINITY MAP



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0 500 1,000
Feet



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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
301
Sheet 301 of 517

Drawing Number:
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0 250 500 Feet



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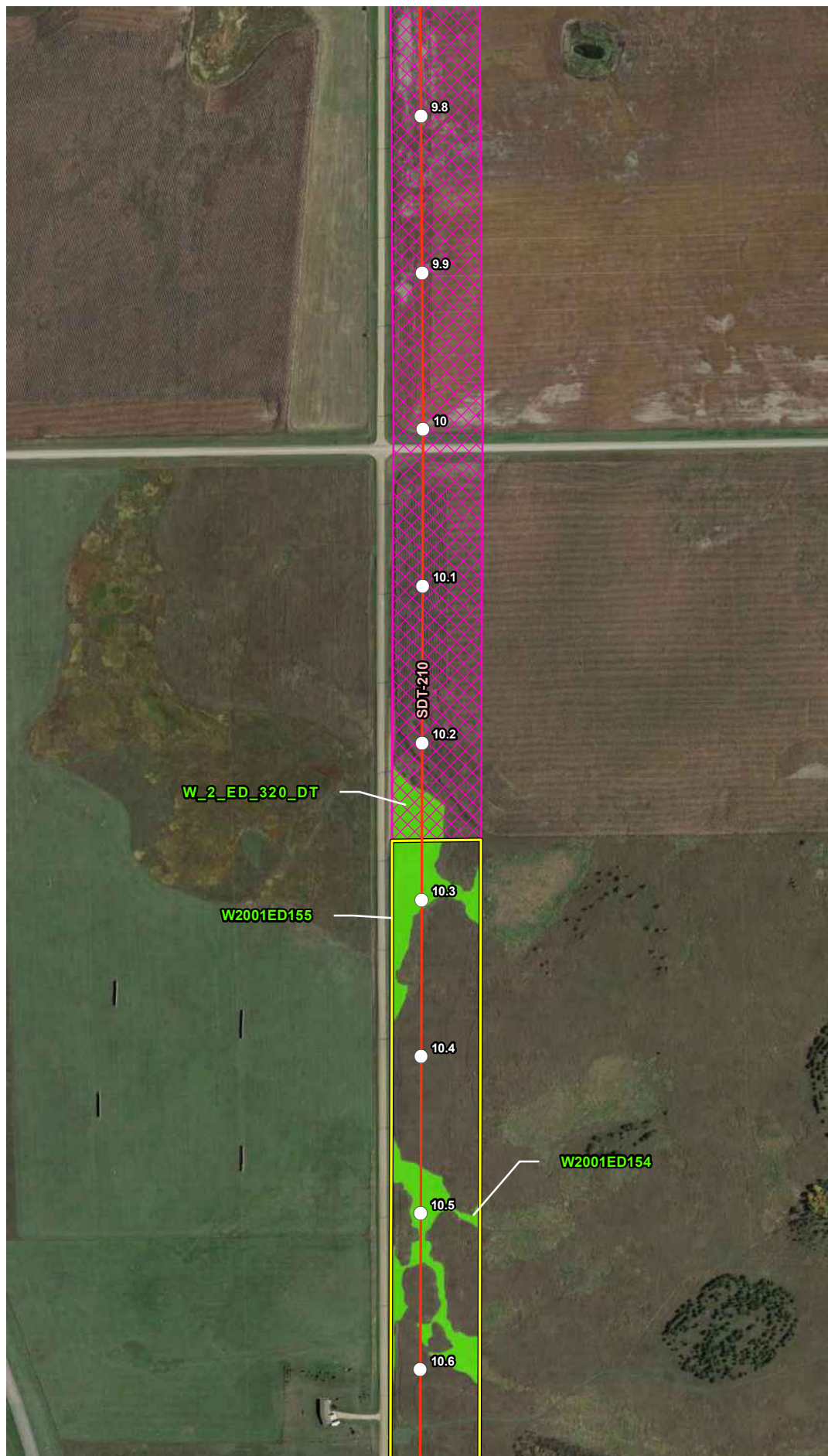
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 302 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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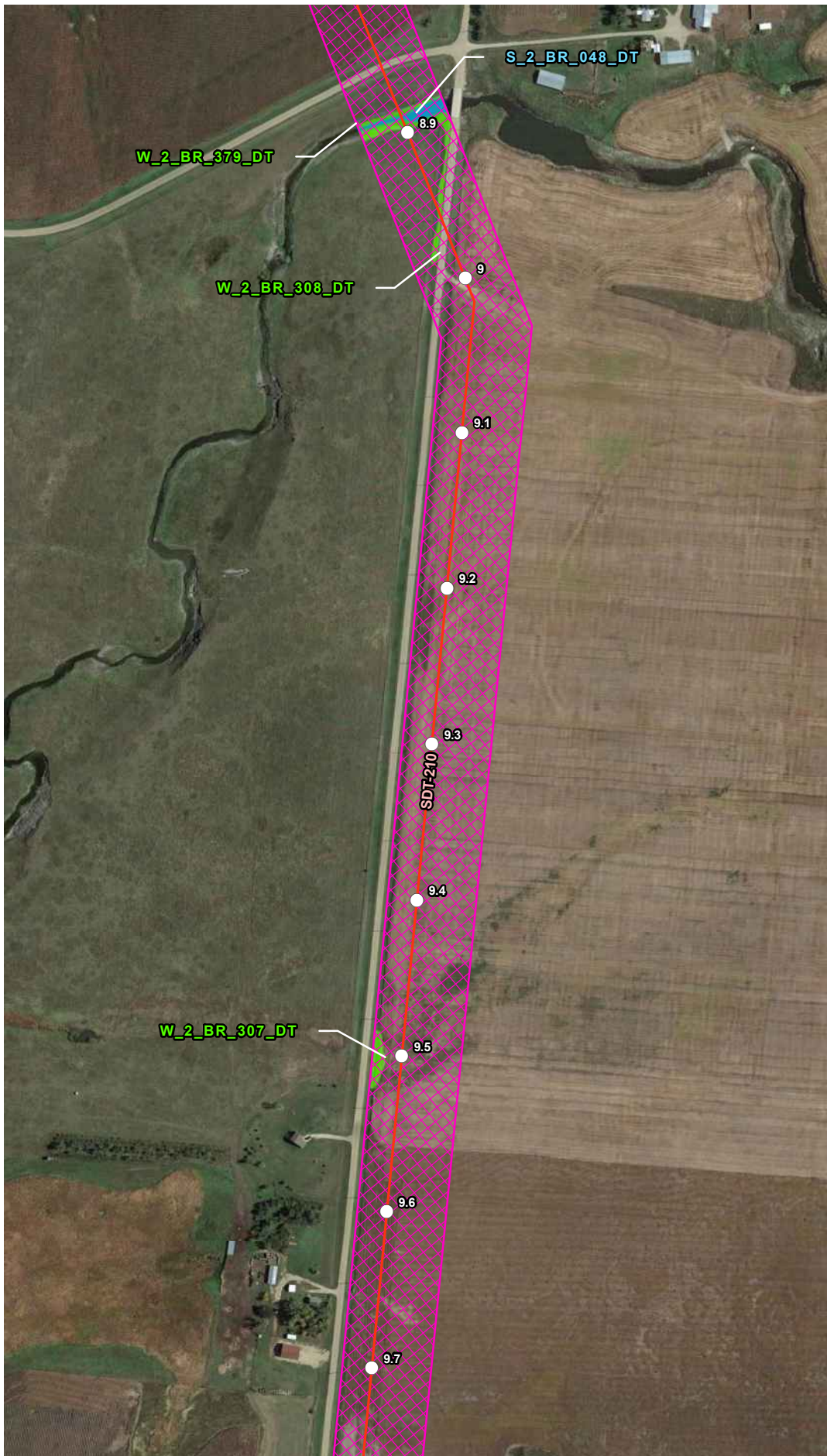
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Sheet 303 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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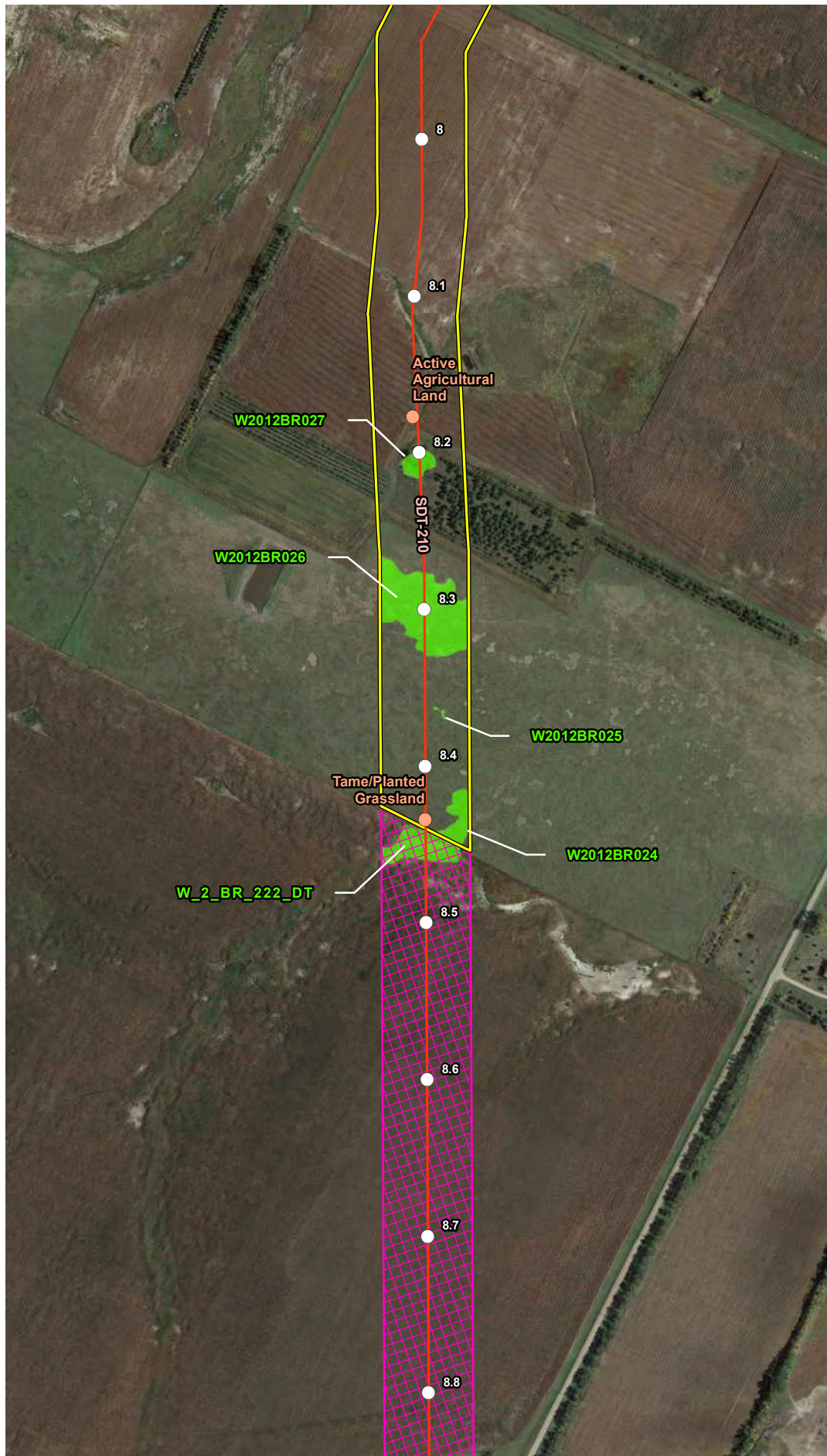
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Sheet:
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Sheet 304 of 517

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0 250 500 Feet

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Sheet:
305
Sheet 305 of 517

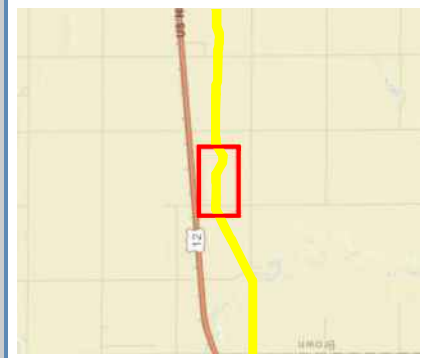
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NAD 1983 UTM Zone 14N

Sheet:
306
Sheet 306 of 517

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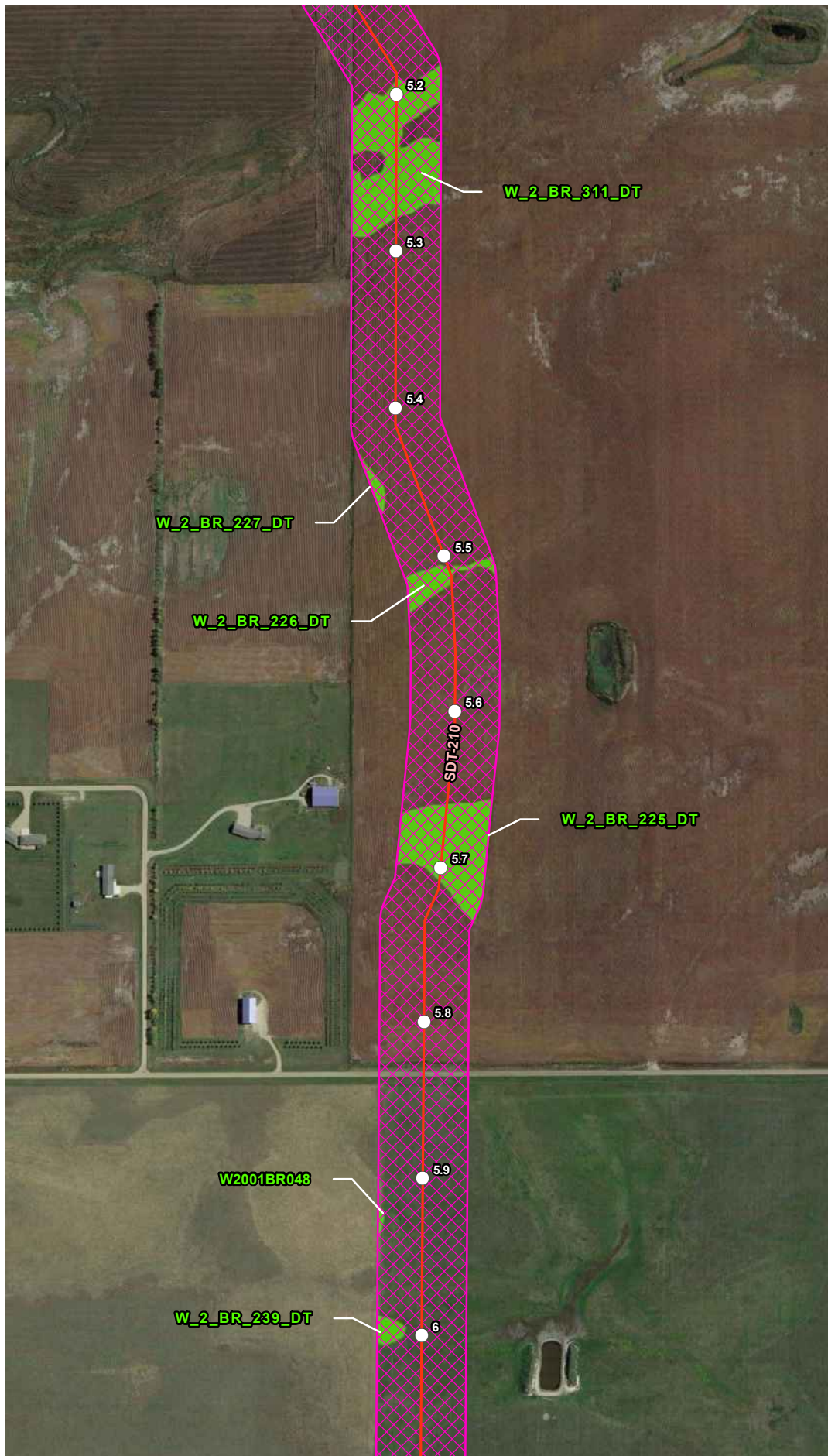
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Sheet 307 of 517

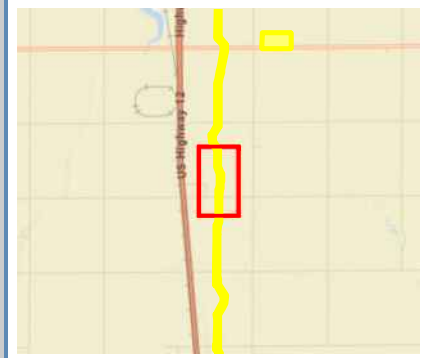
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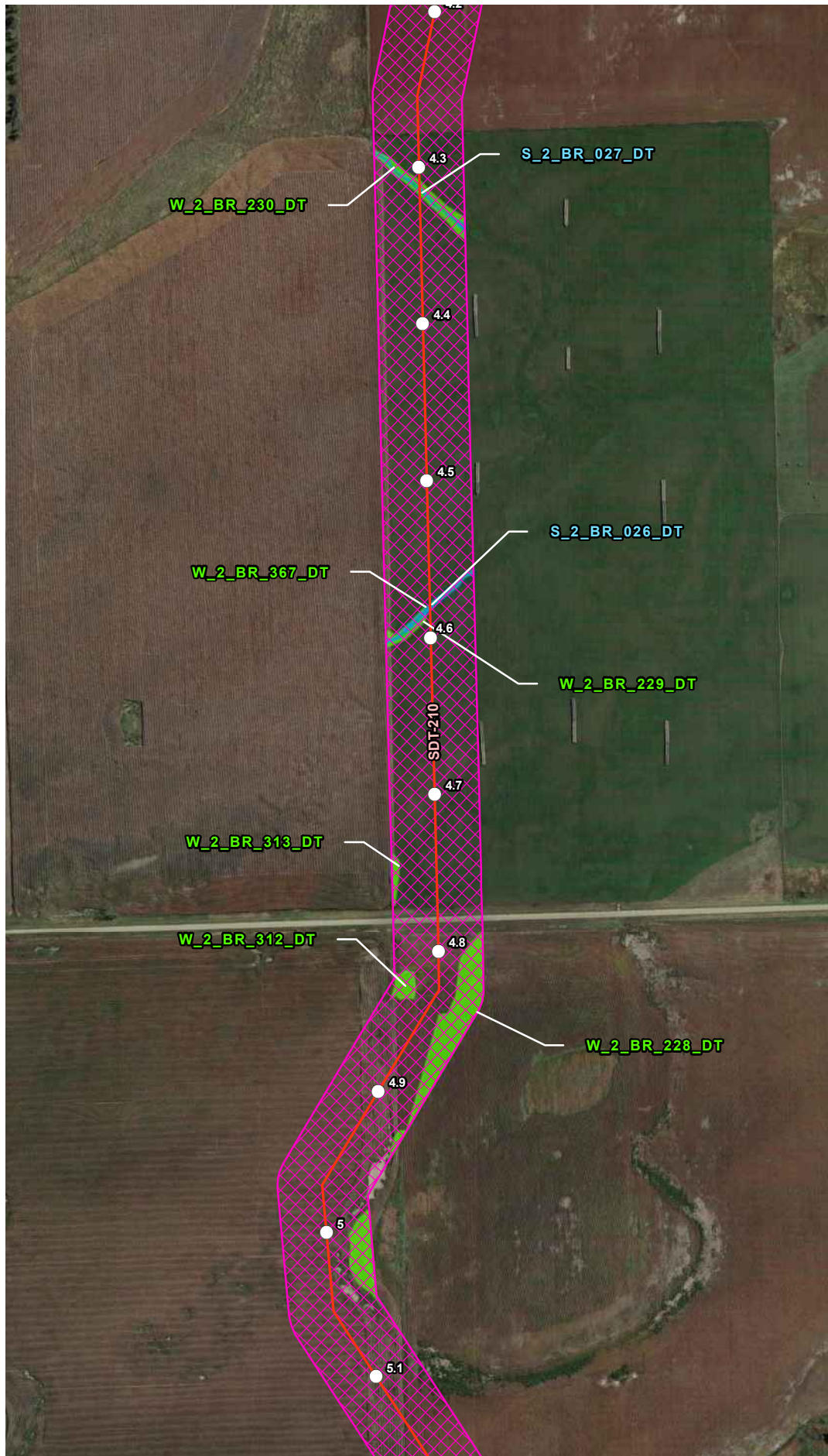
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Sheet 308 of 517

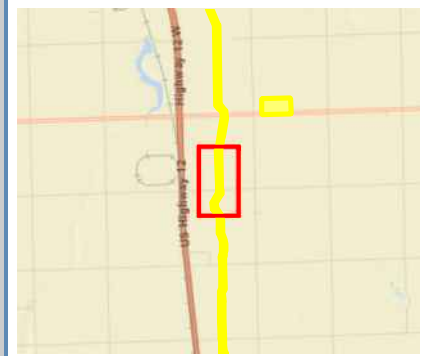
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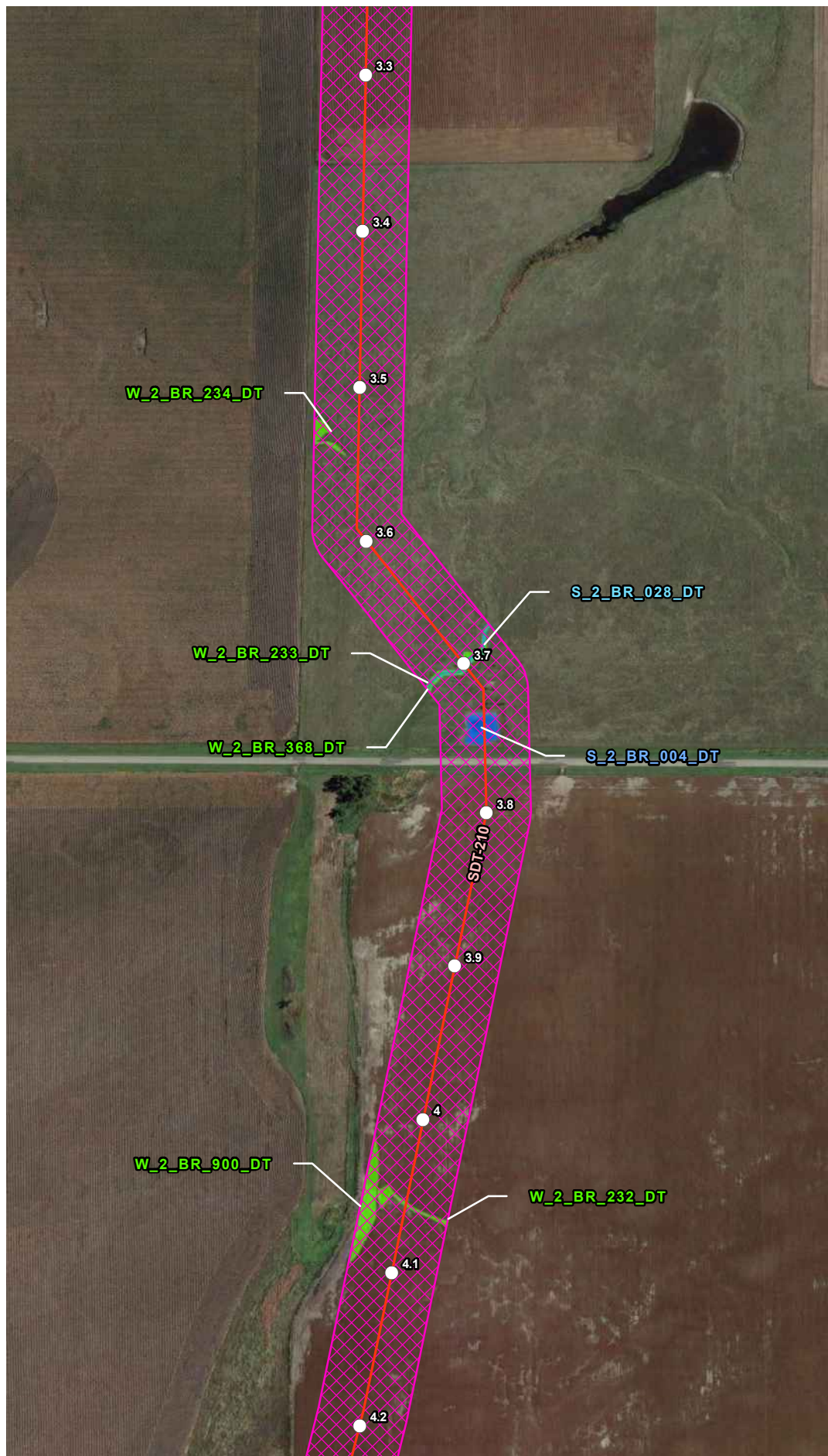
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Sheet:
309
Sheet 309 of 517

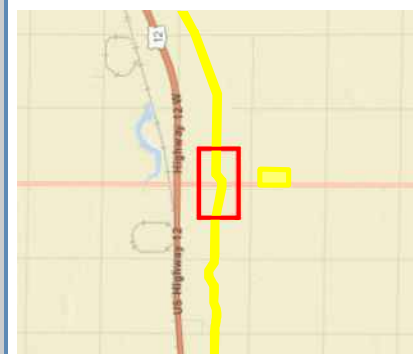
Drawing Number:
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

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Revision description

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
310
Sheet 310 of 517

Drawing Number:
2001-21-002
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0 250 500 Feet



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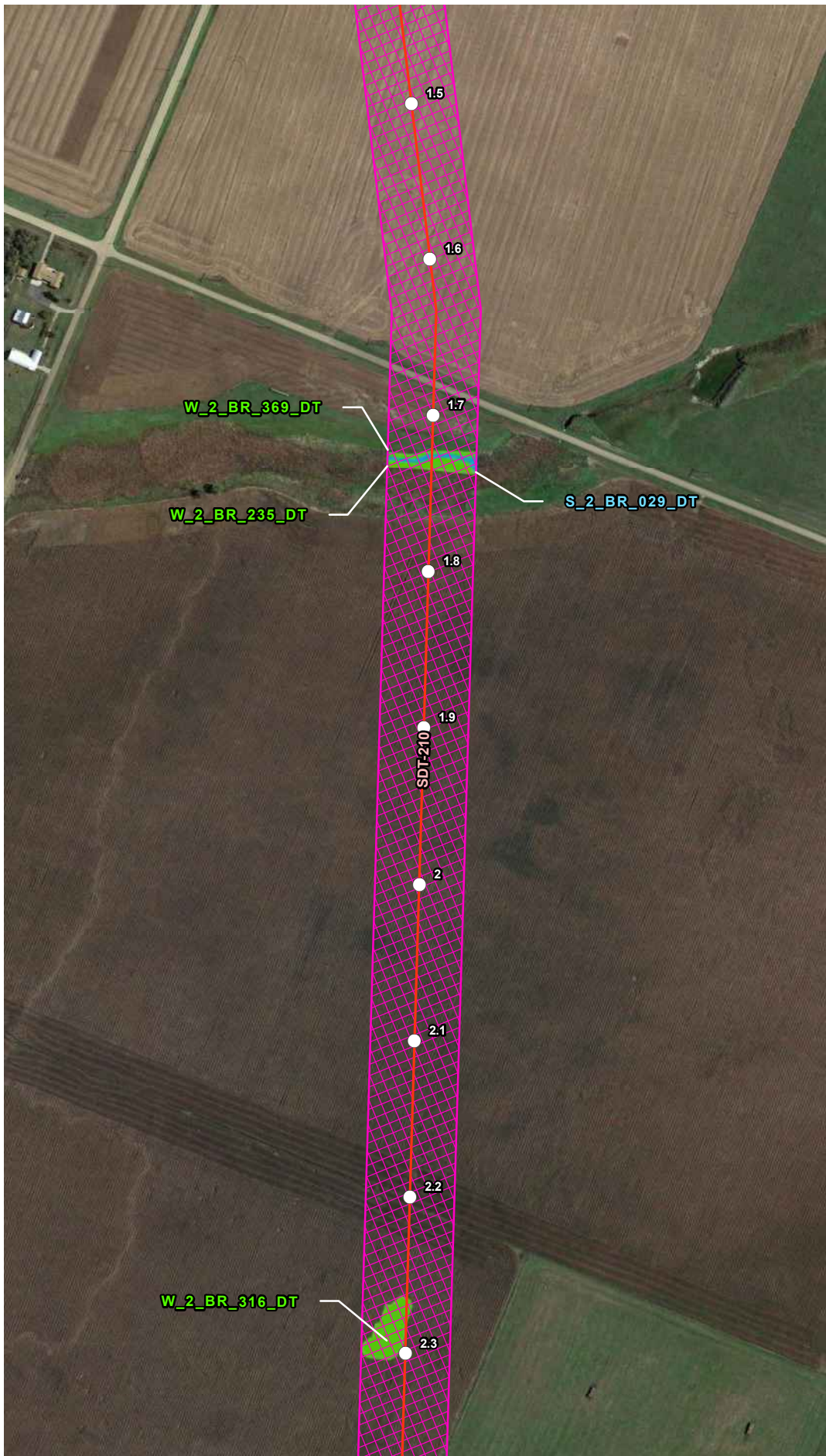
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NAD 1983 UTM Zone 14N

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Sheet 311 of 517

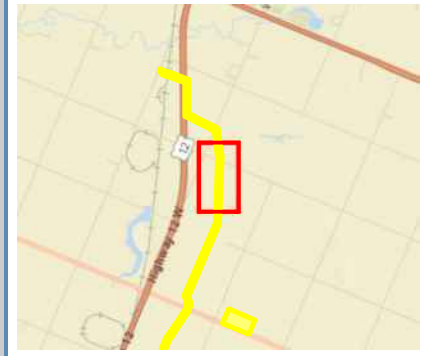
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0 250 500 Feet

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Figure Number: 2

Scale:
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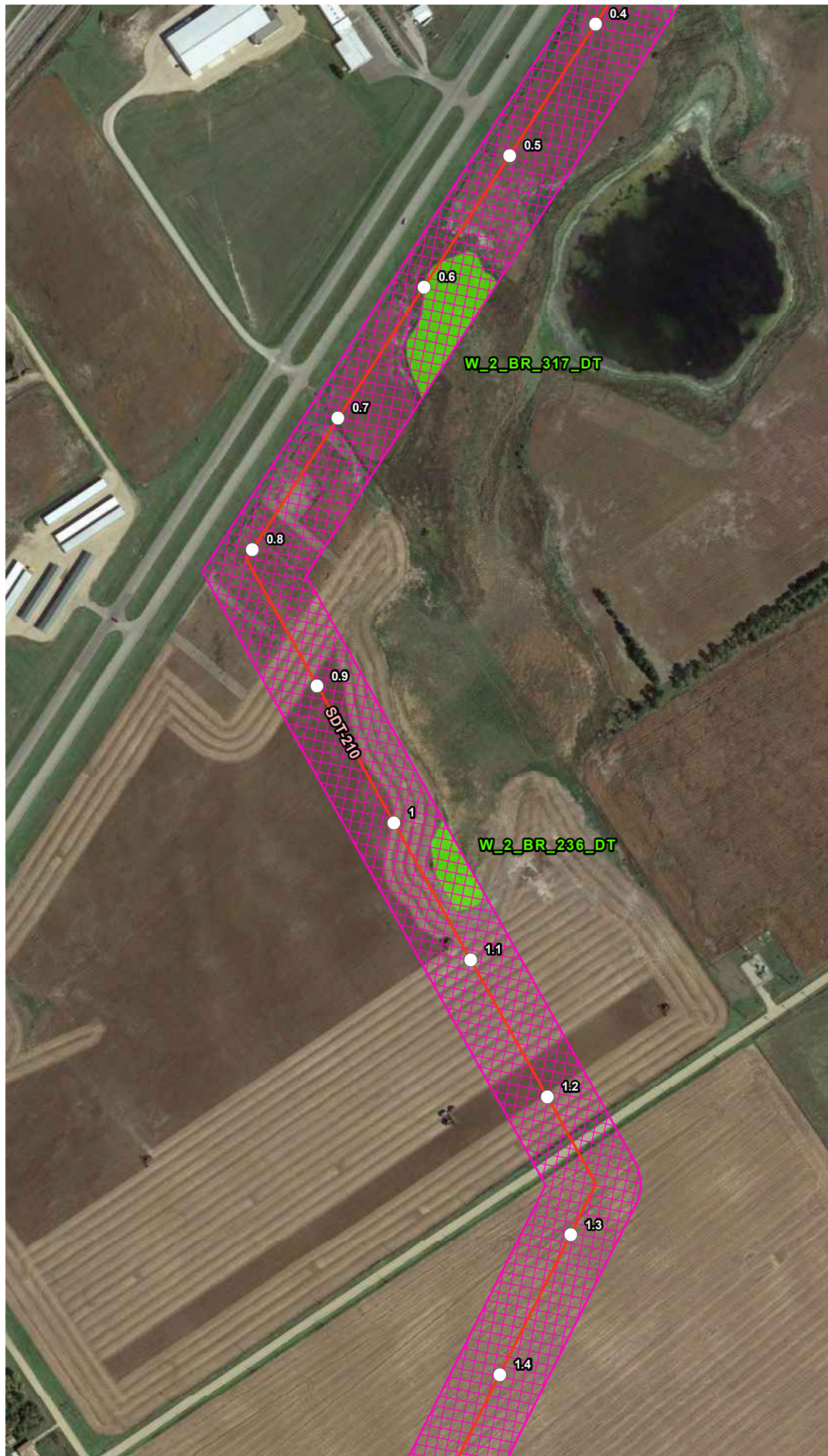
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 312 of 517

Drawing Number:
2001-21-002
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0 250 500 Feet

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Figure Number: 2

Scale:
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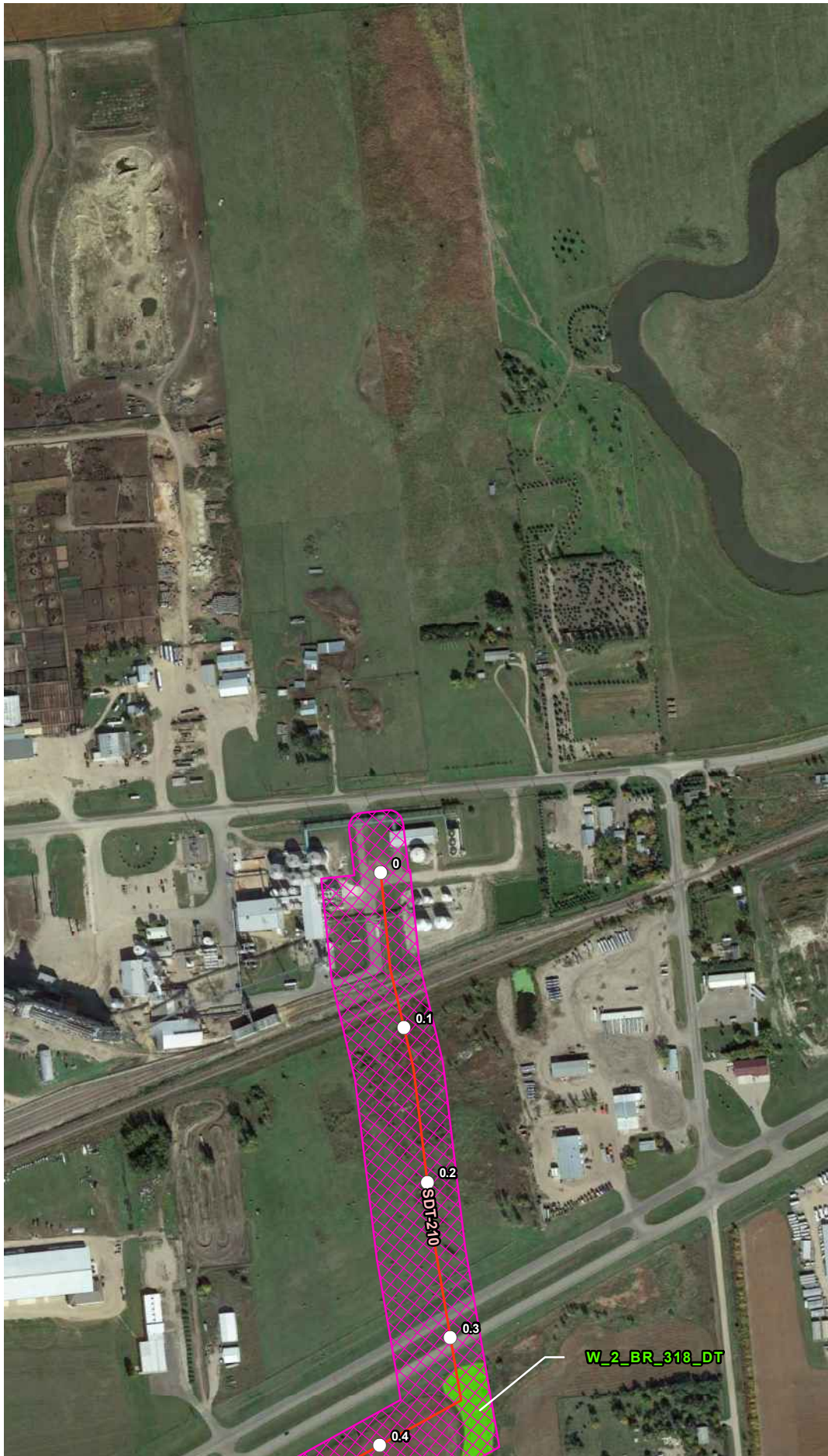
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
313
Sheet 313 of 517

Drawing Number:
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0 250 500 Feet

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Figure Number:

2

Scale:

Scale: 1:6,000
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

314
Sheet 314 of 517

Drawing Number:

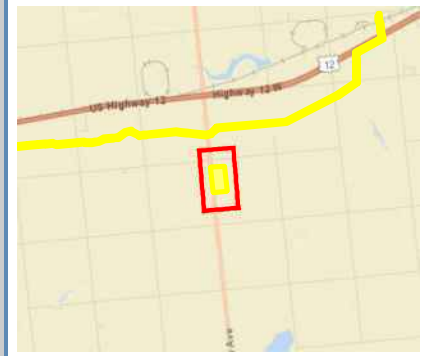
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0 287.5 575 Feet



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Scale:
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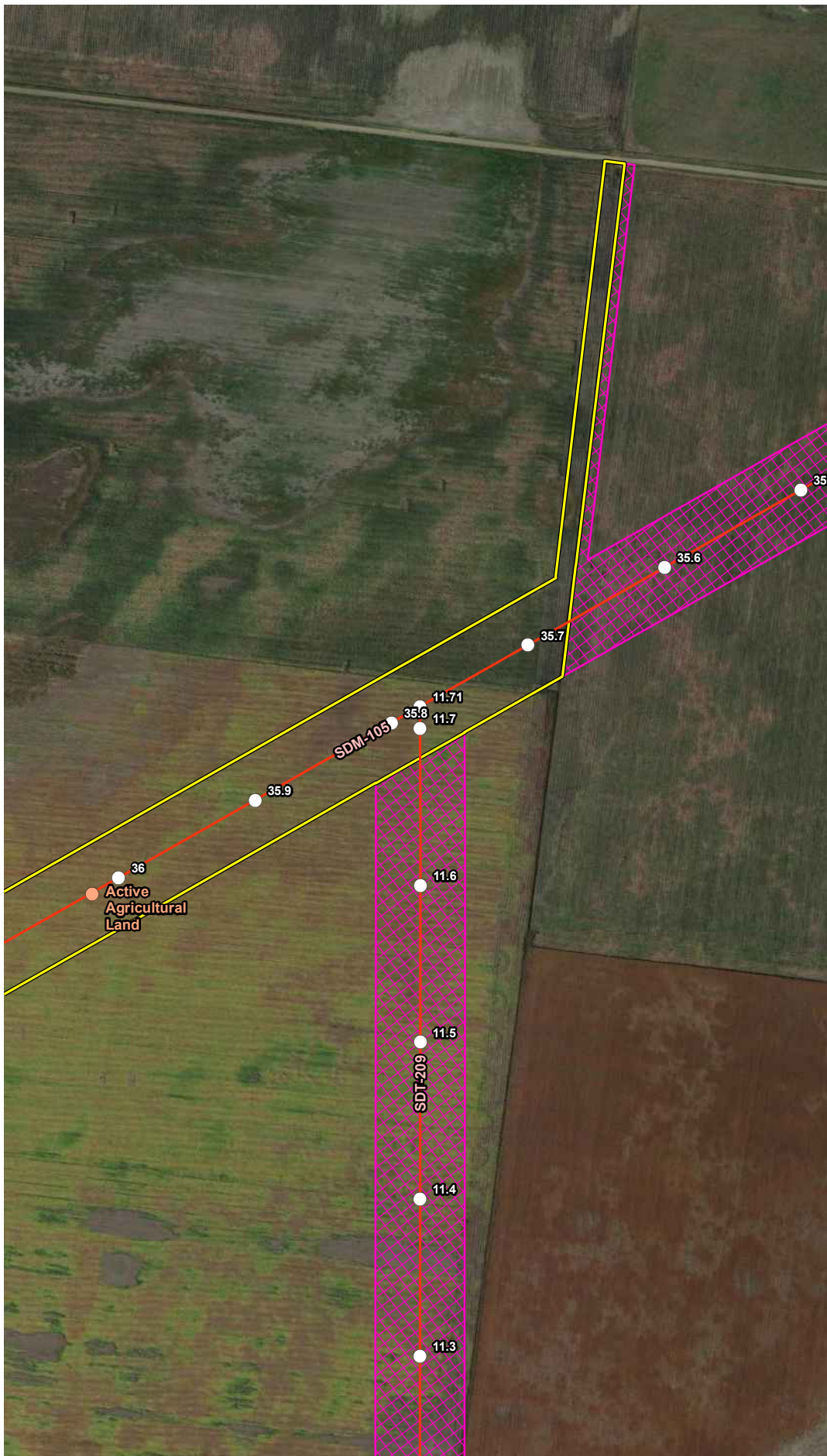
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NAD 1983 UTM Zone 14N

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Sheet 315 of 517

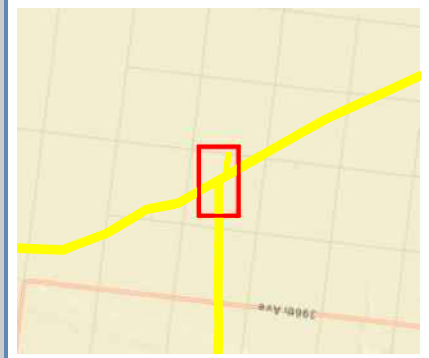
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0 250 500 Feet

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Figure Number: 2

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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
316
Sheet 316 of 517

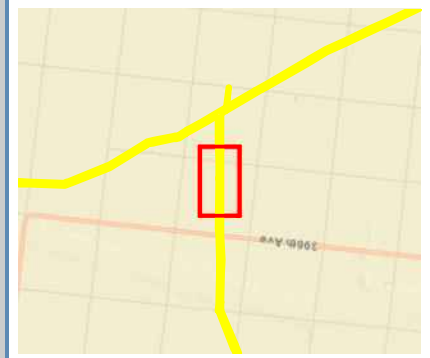
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0 250 500 Feet

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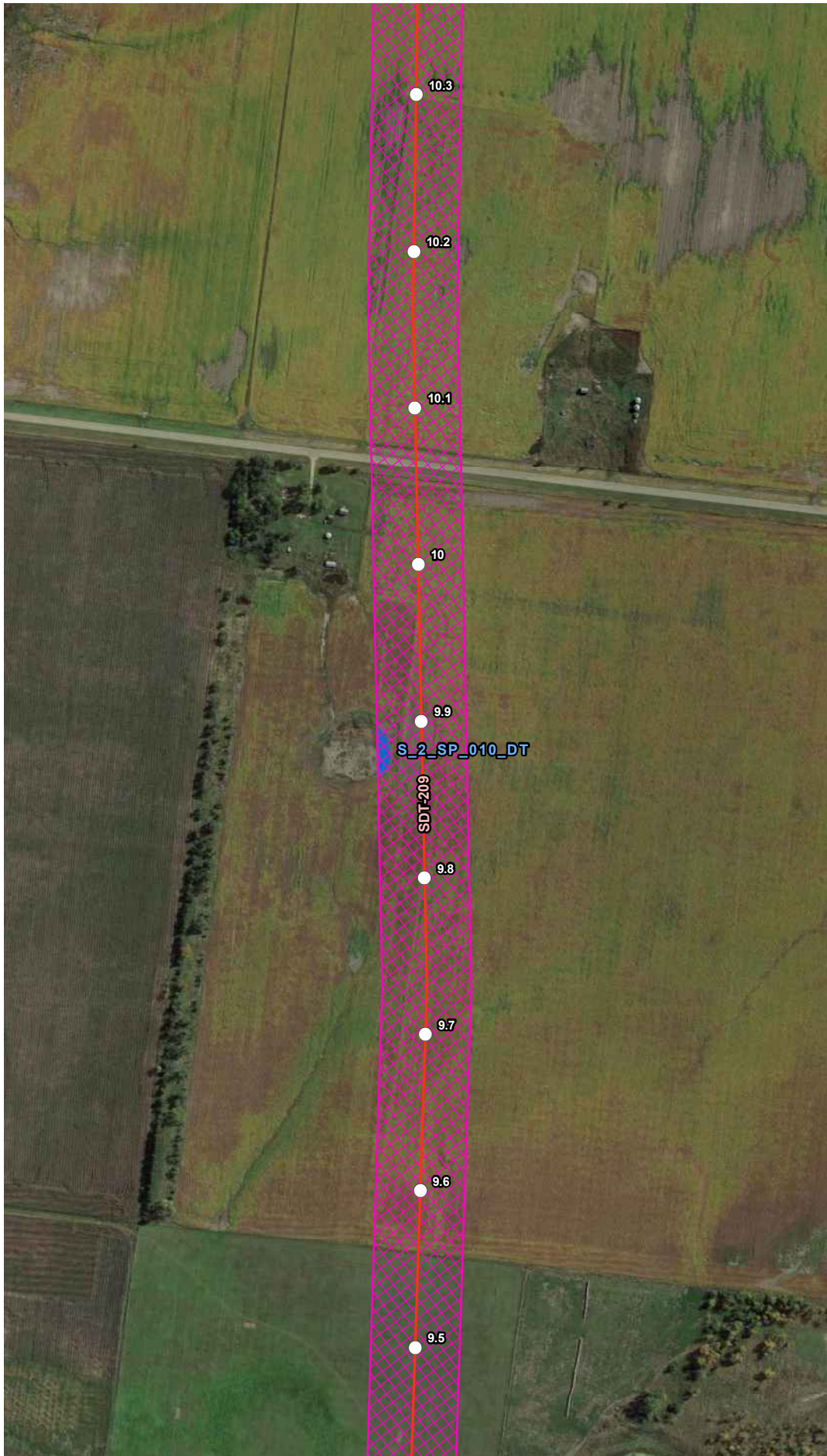
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Sheet 317 of 517

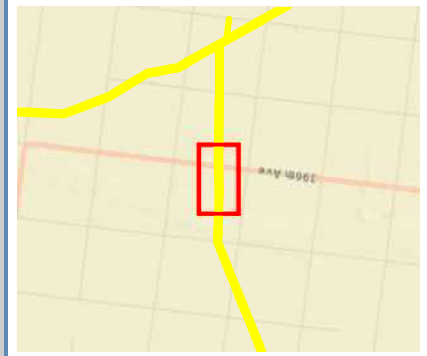
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0 250 500 Feet

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Figure Number: 2

Scale:
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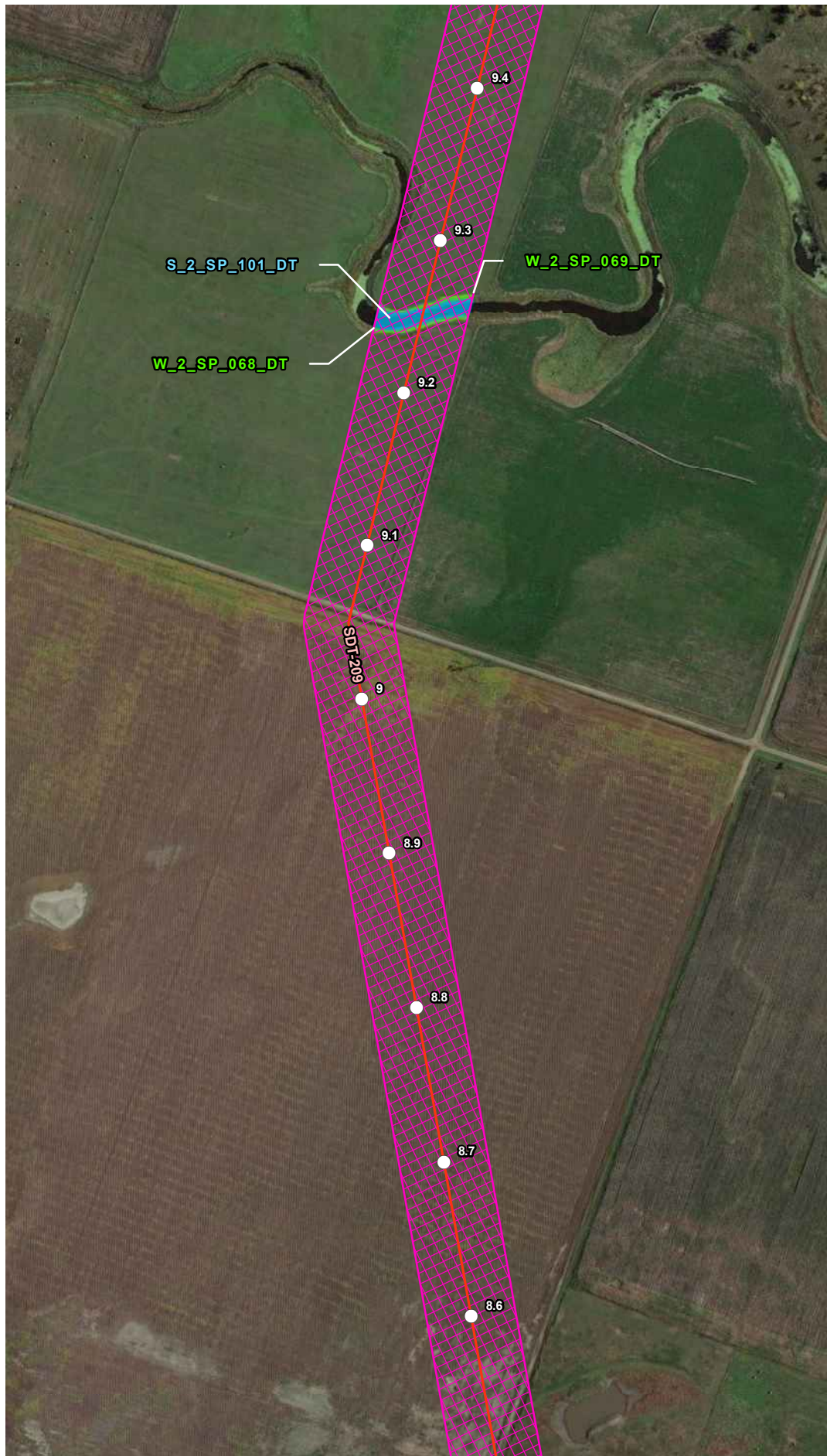
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
318
Sheet 318 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet

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Figure Number:

2

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
319
Sheet 319 of 517

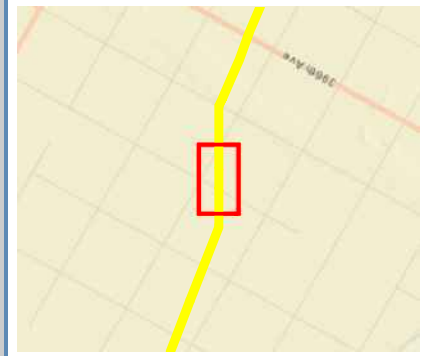
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0 250 500 Feet

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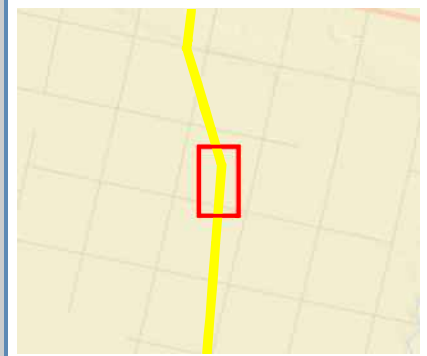
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Sheet: 320 Sheet 320 of 517	Drawing Number: 2001-21-002 Current Revision

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Figure Number: 2

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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
321
Sheet 321 of 517

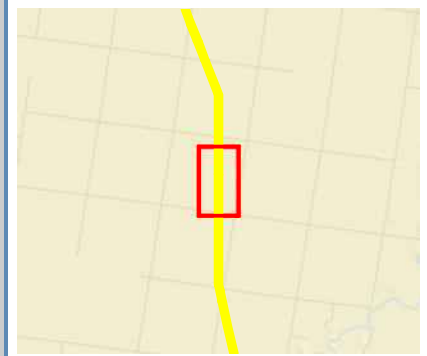
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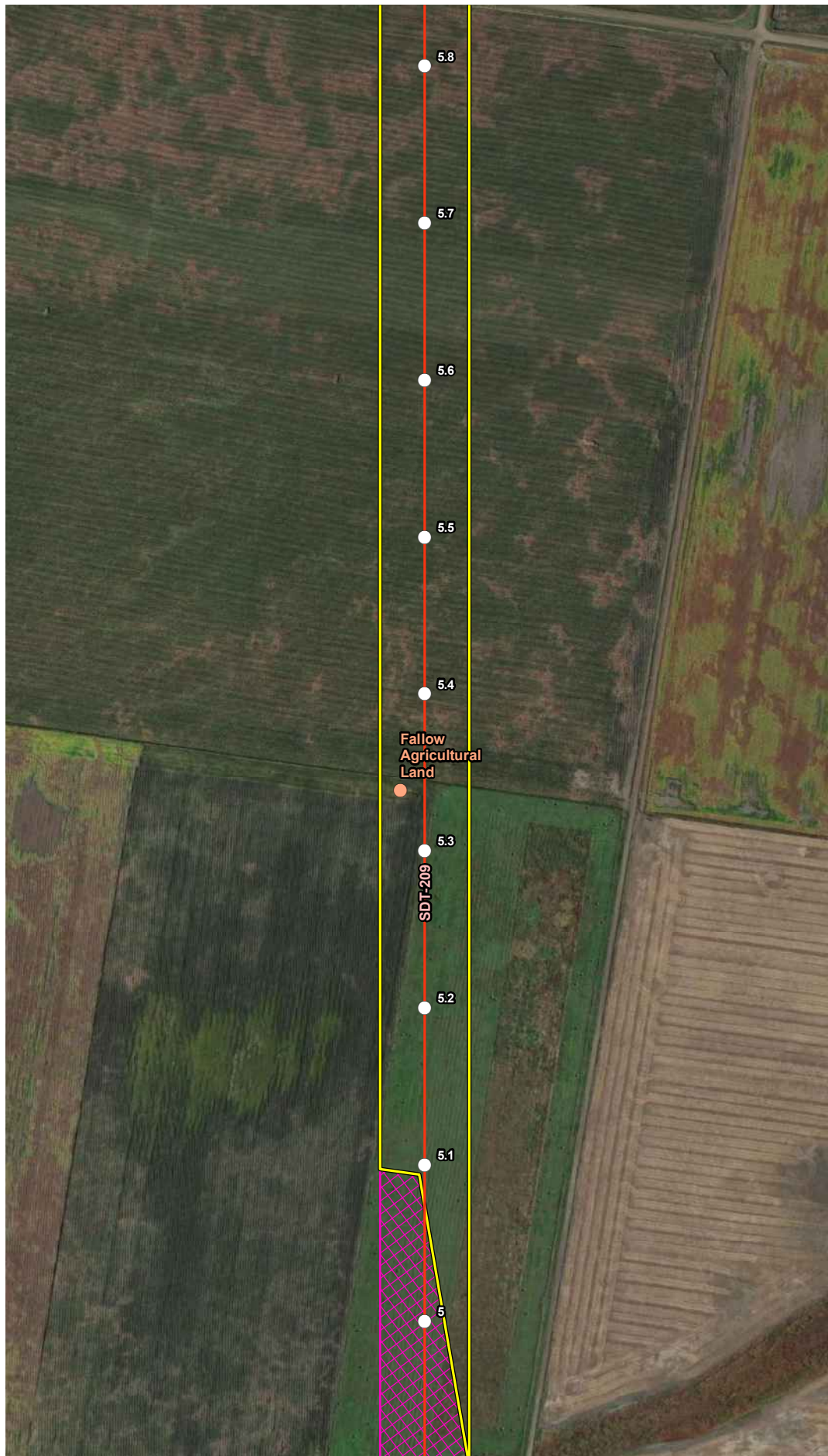
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 Sheet 322 of 517

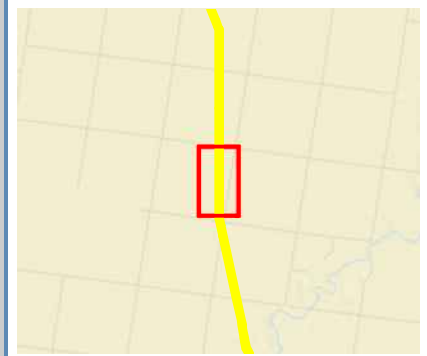
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Figure Number:

2

Scale:
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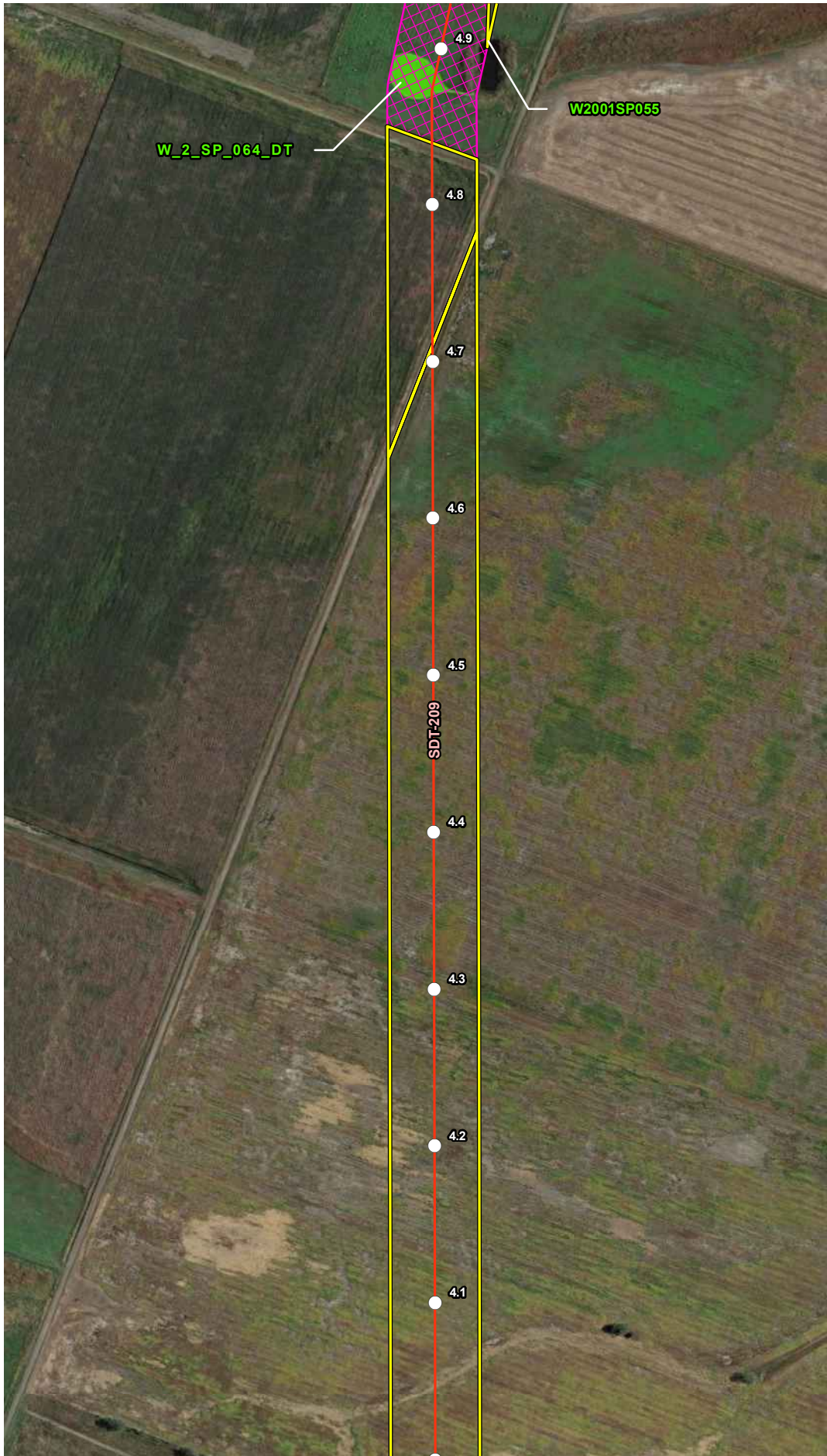
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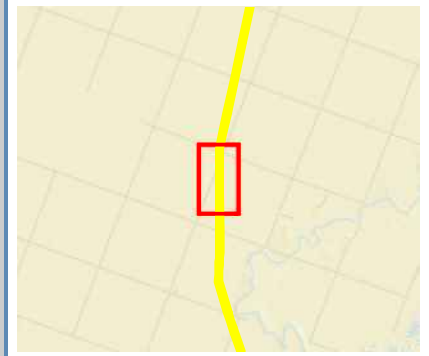
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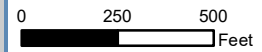


VICINITY MAP



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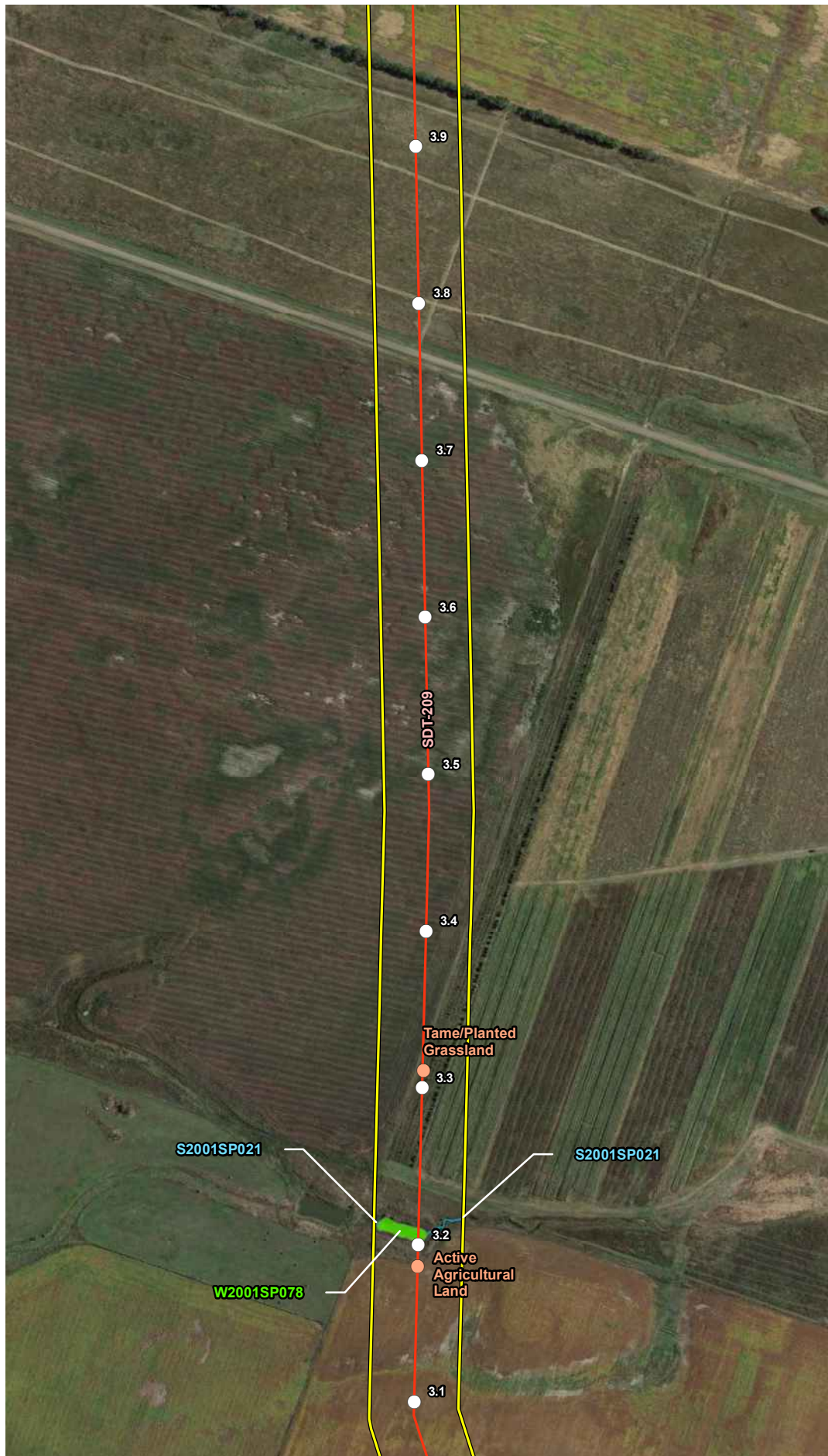
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 NAD 1983 UTM Zone 14N

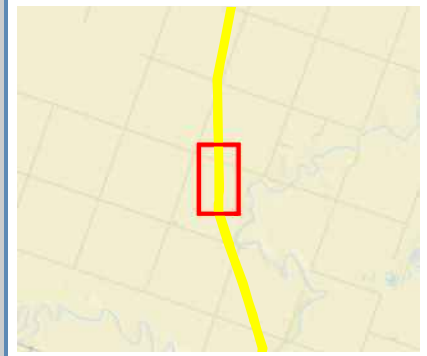
Sheet:
324
 Sheet 324 of 517

Drawing Number:
2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
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0 250 500
Feet

REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

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Revision description

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
325
Sheet 325 of 517

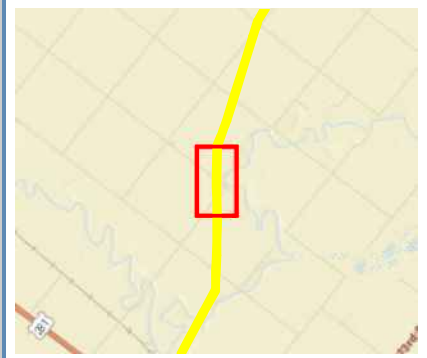
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AERIAL MAP



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0 250 500 Feet

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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
326
Sheet 326 of 517

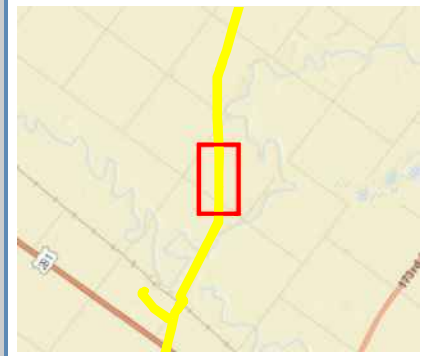
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0 250 500 Feet

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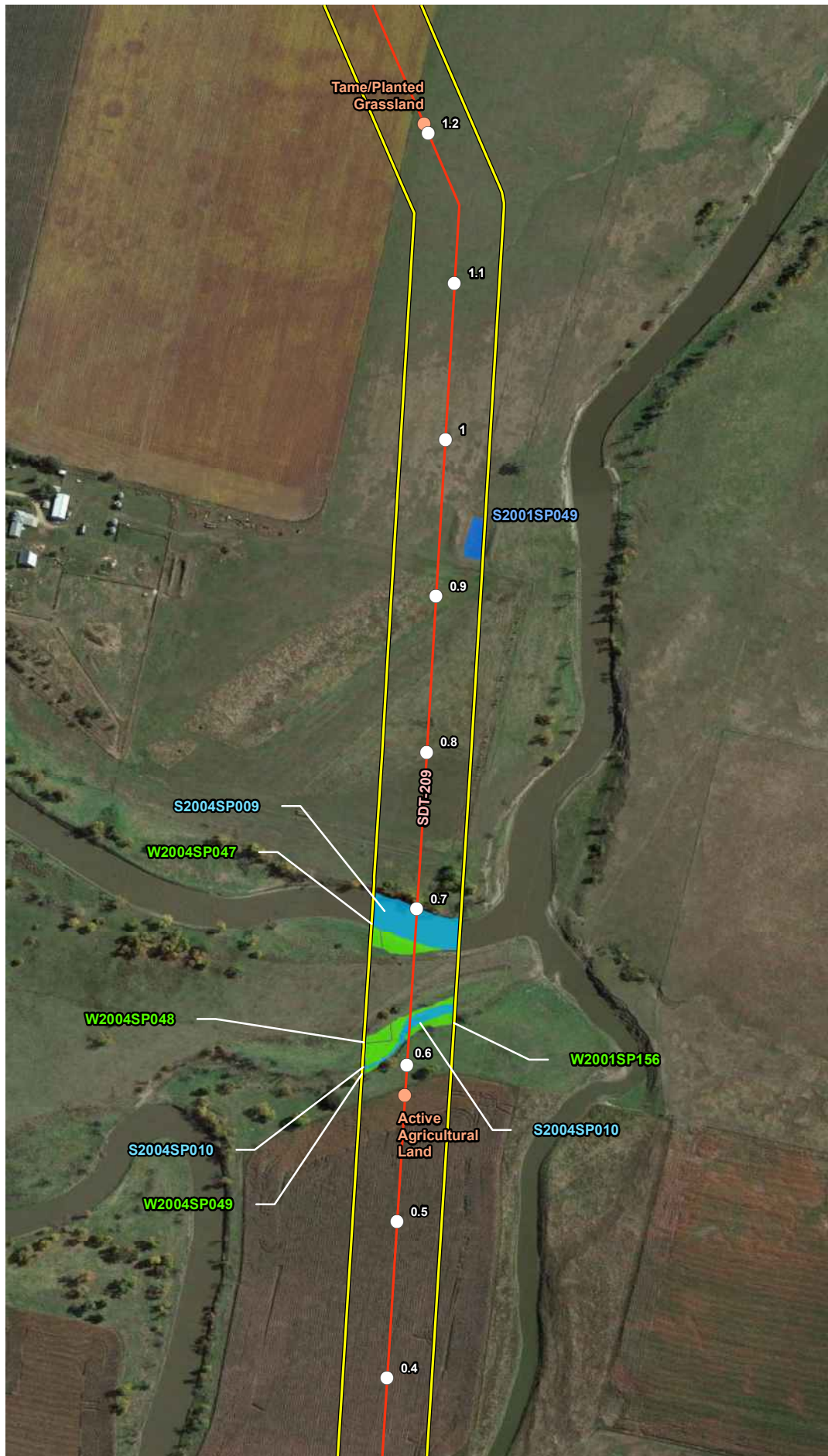
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 327 of 517

Drawing Number:
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AERIAL MAP



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0 250 500 Feet

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Scale:
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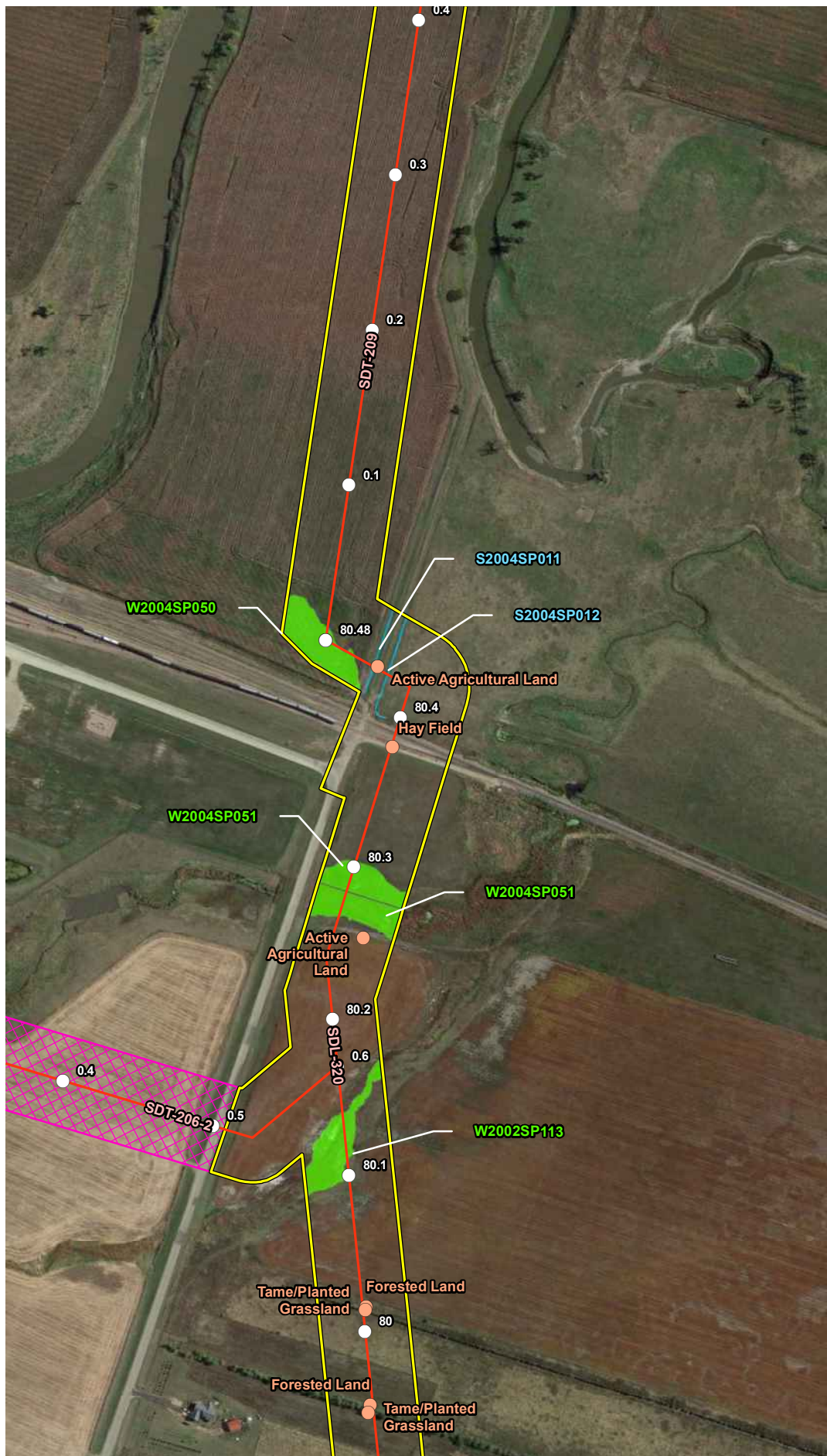
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Sheet:
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Sheet 328 of 517

Drawing Number:
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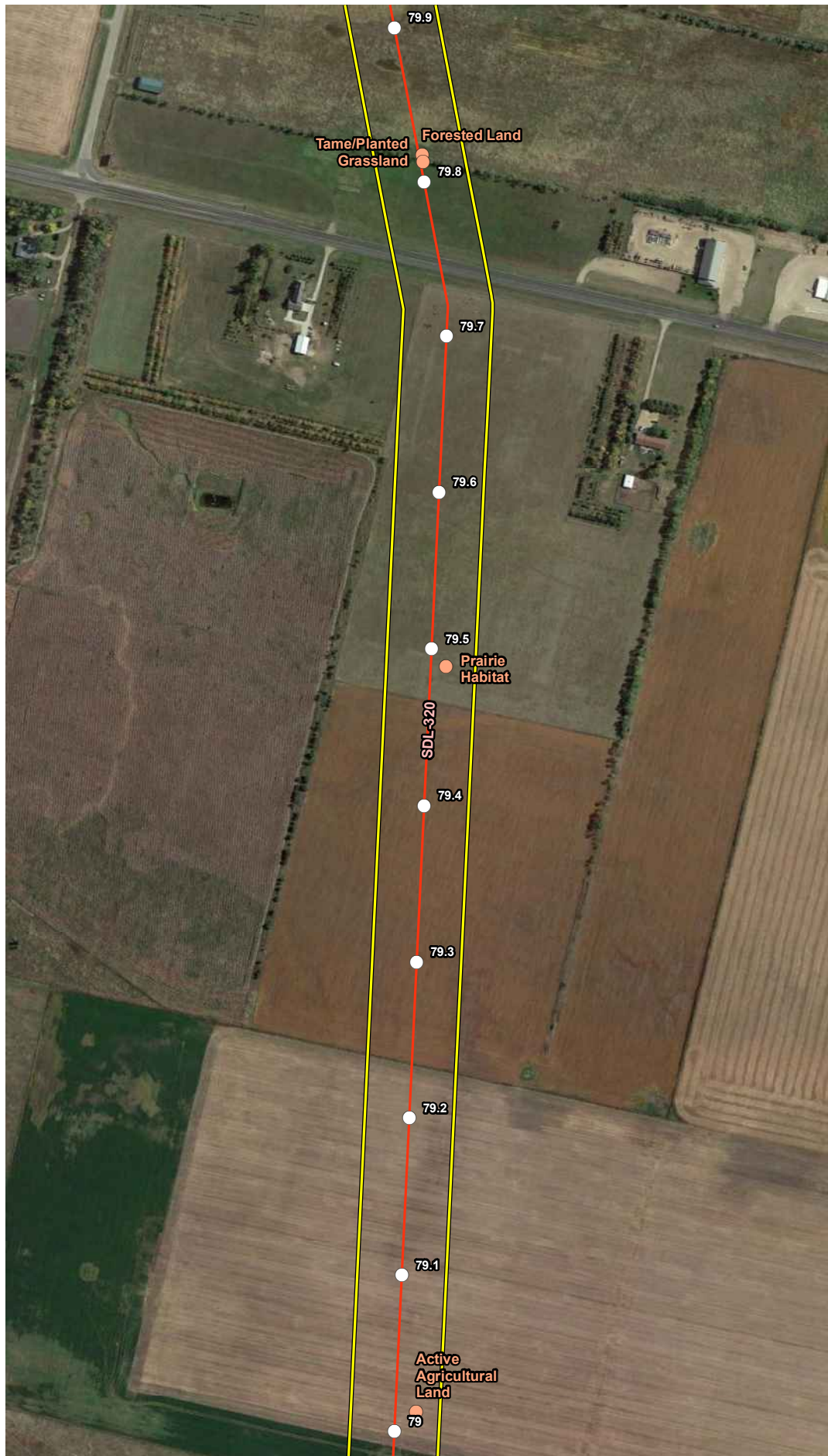
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Sheet:
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 Sheet 329 of 517

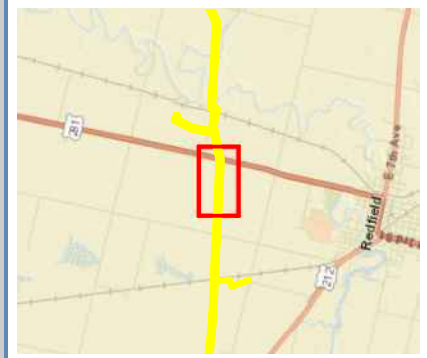
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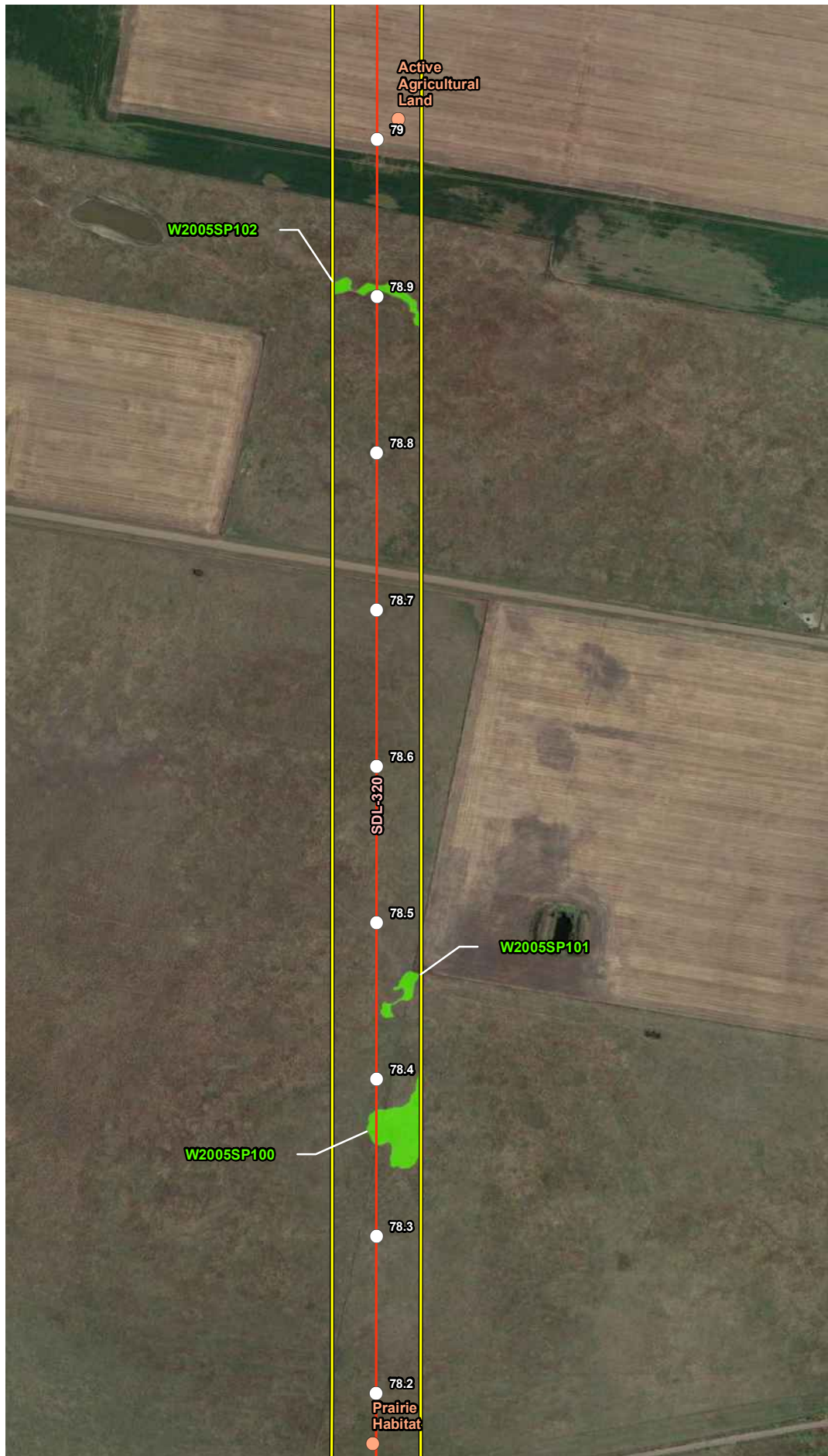
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Sheet 330 of 517

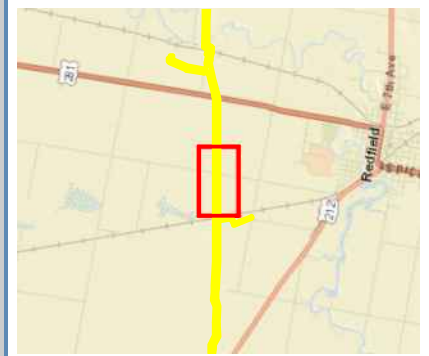
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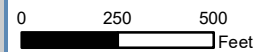


VICINITY MAP



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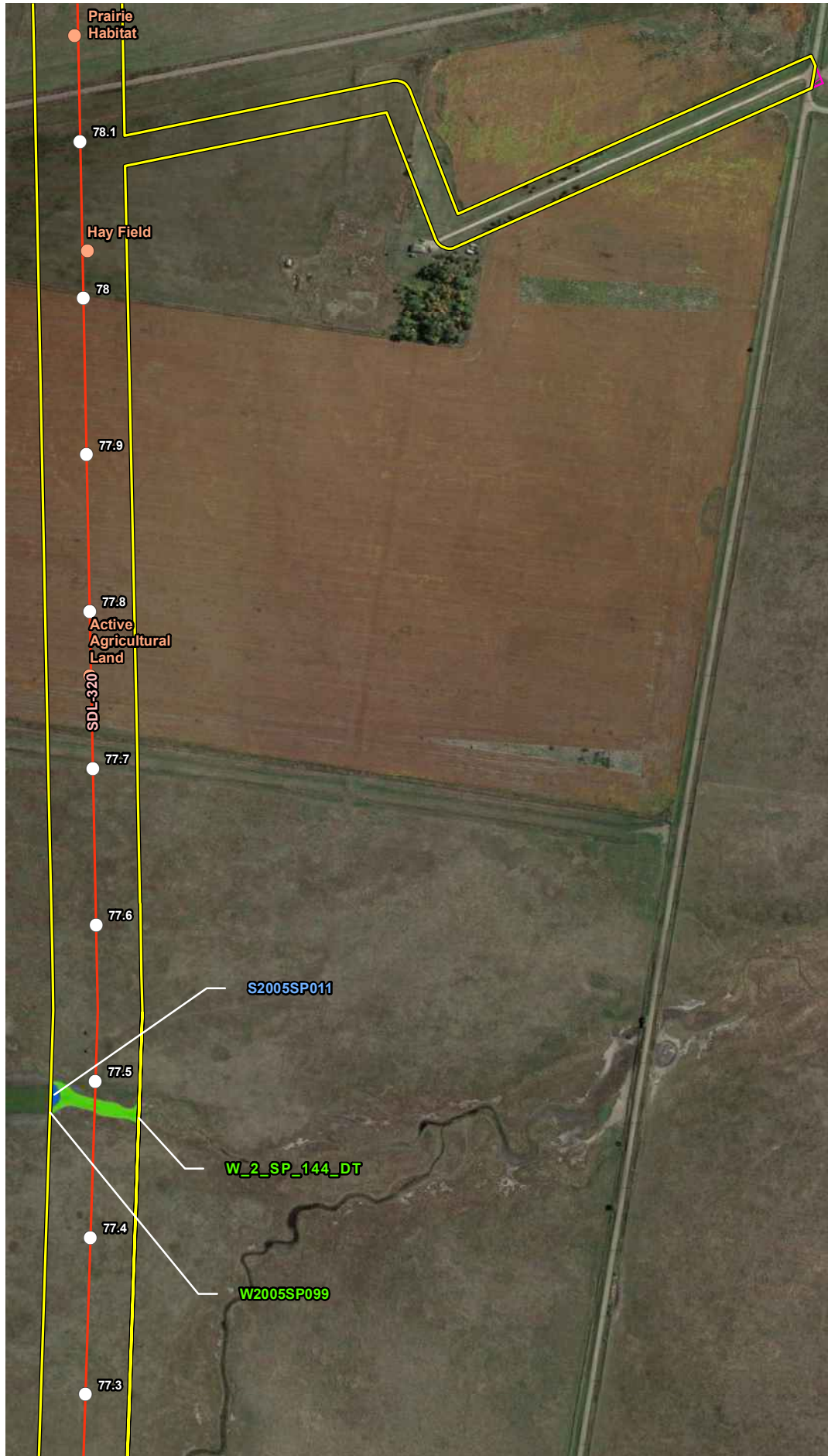
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Sheet 331 of 517

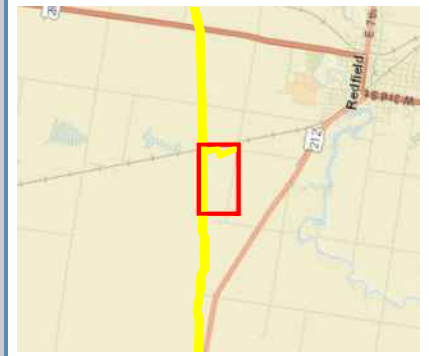
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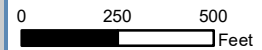


VICINITY MAP



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Figure Number:

2

Scale:

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Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

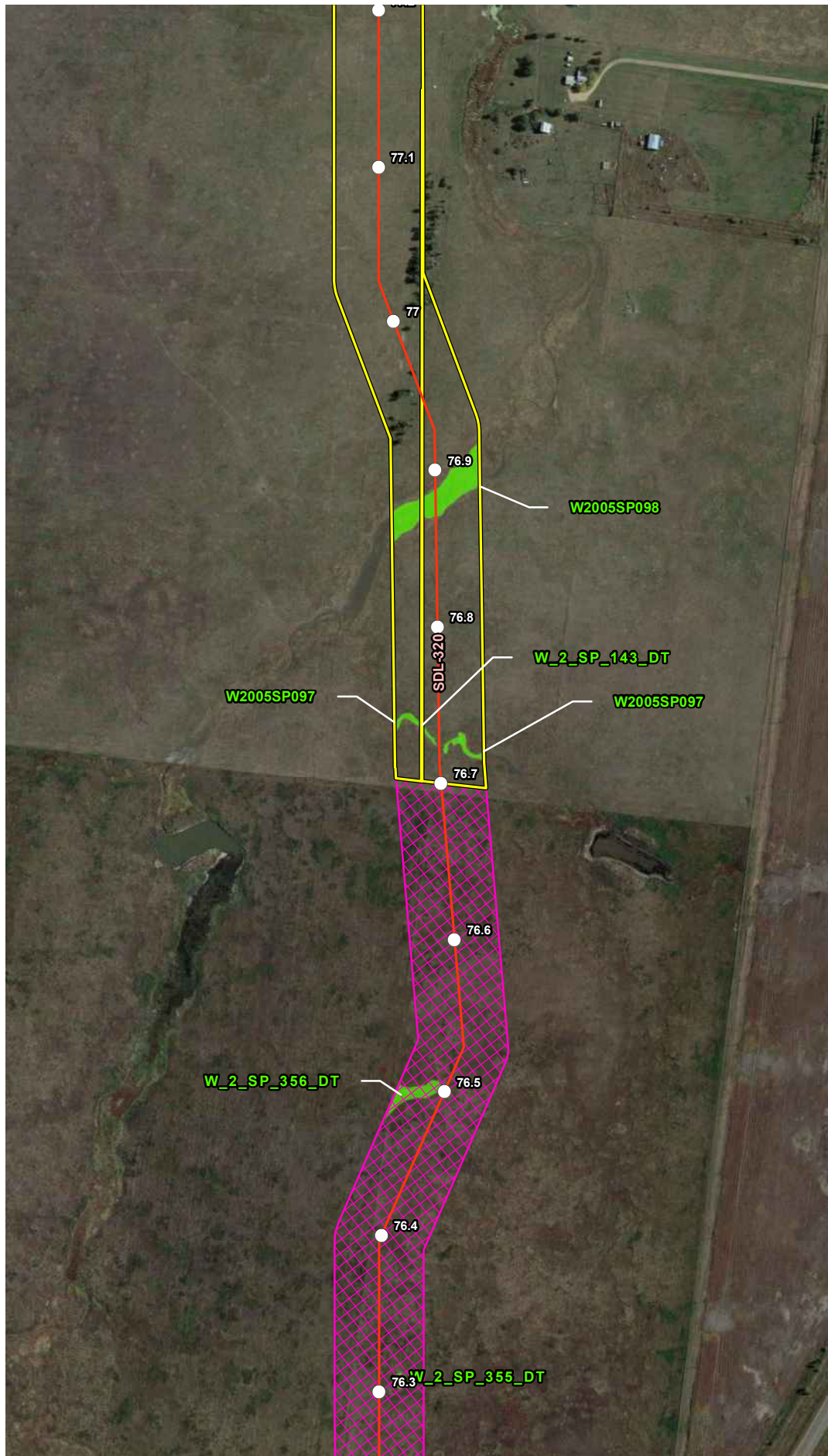
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Drawing Number:

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
AERIAL MAP



VICINITY MAP



LEGEND

-  Milepost
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0 250 500

Feet

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Figure Number:

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Projection:
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NAD 1983 UTM Zone 14N

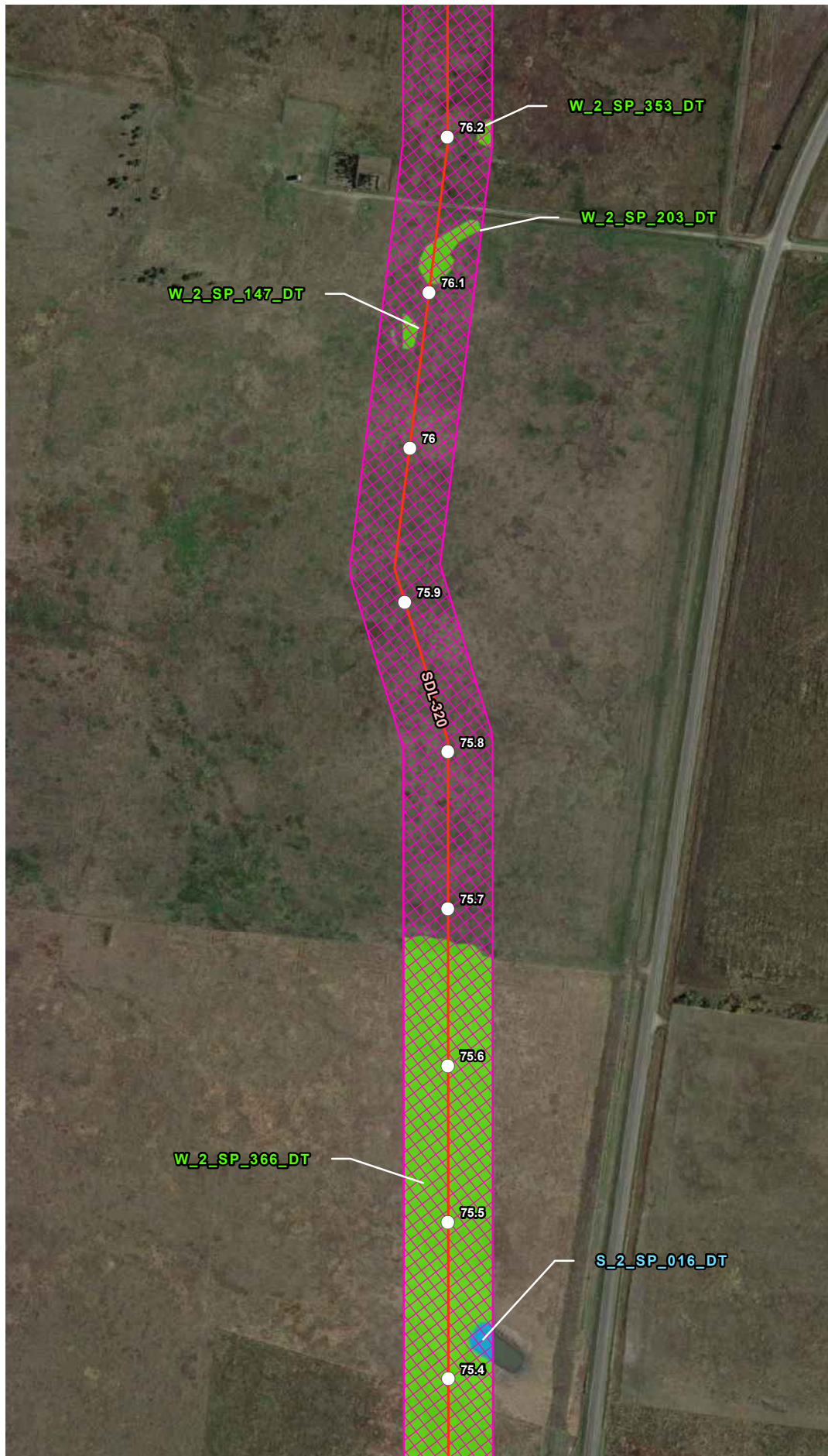
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Sheet 333 of 517

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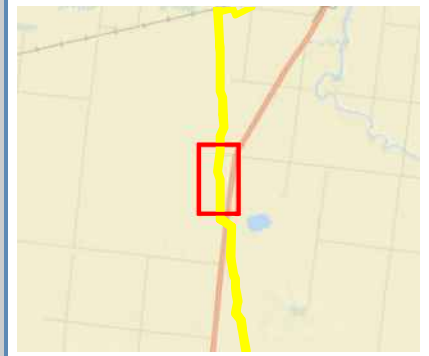
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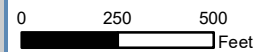


VICINITY MAP



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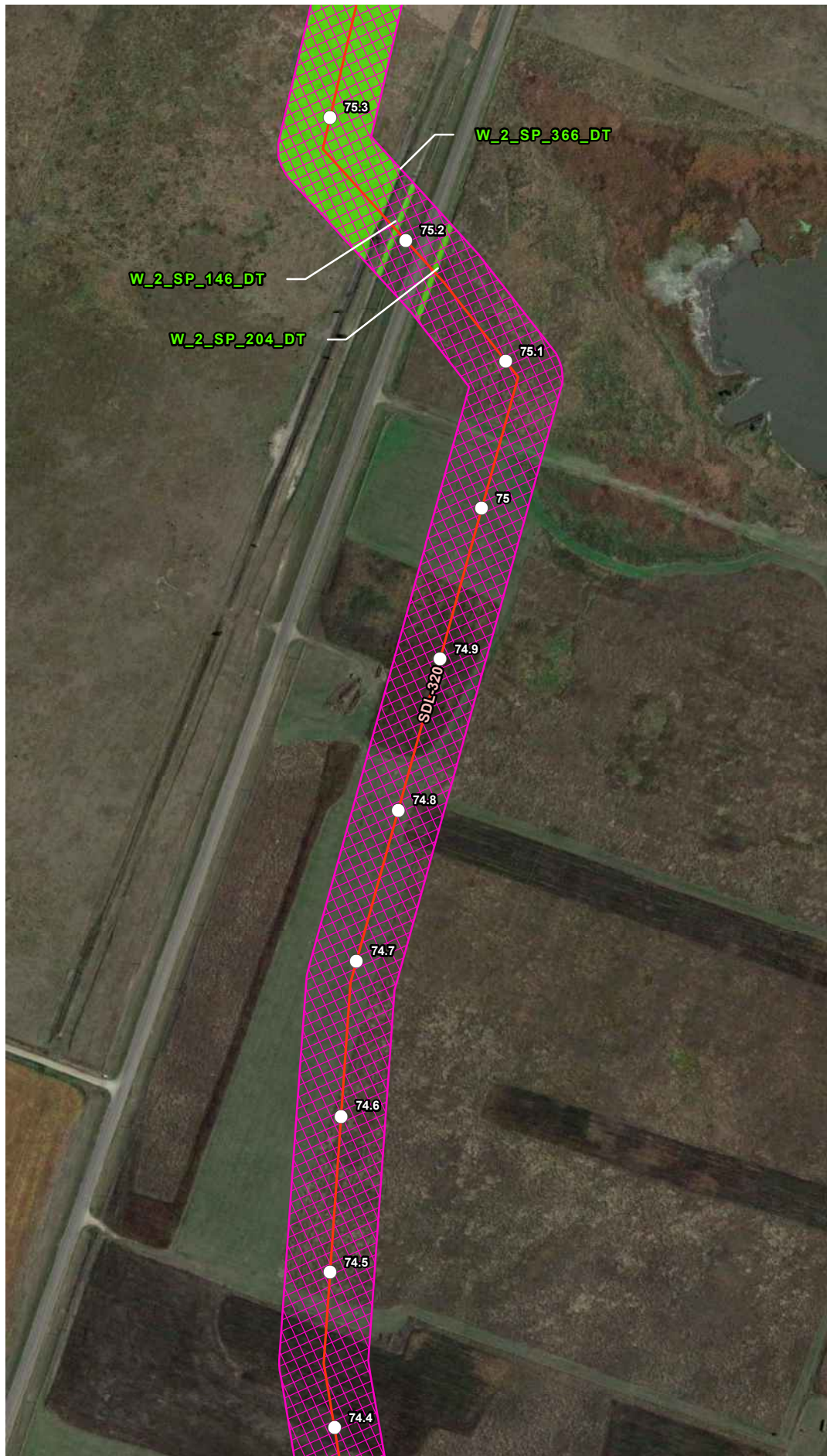
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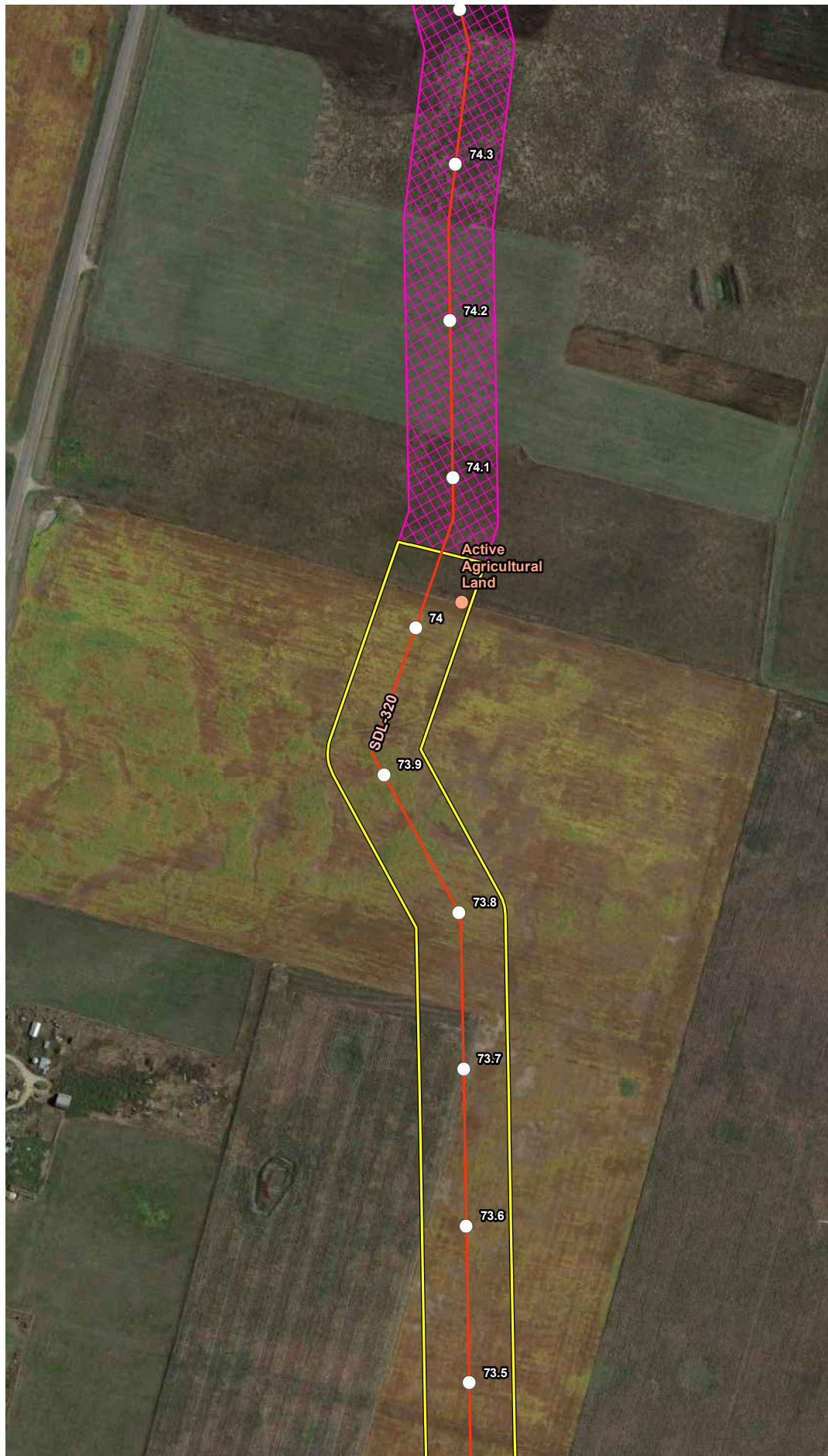
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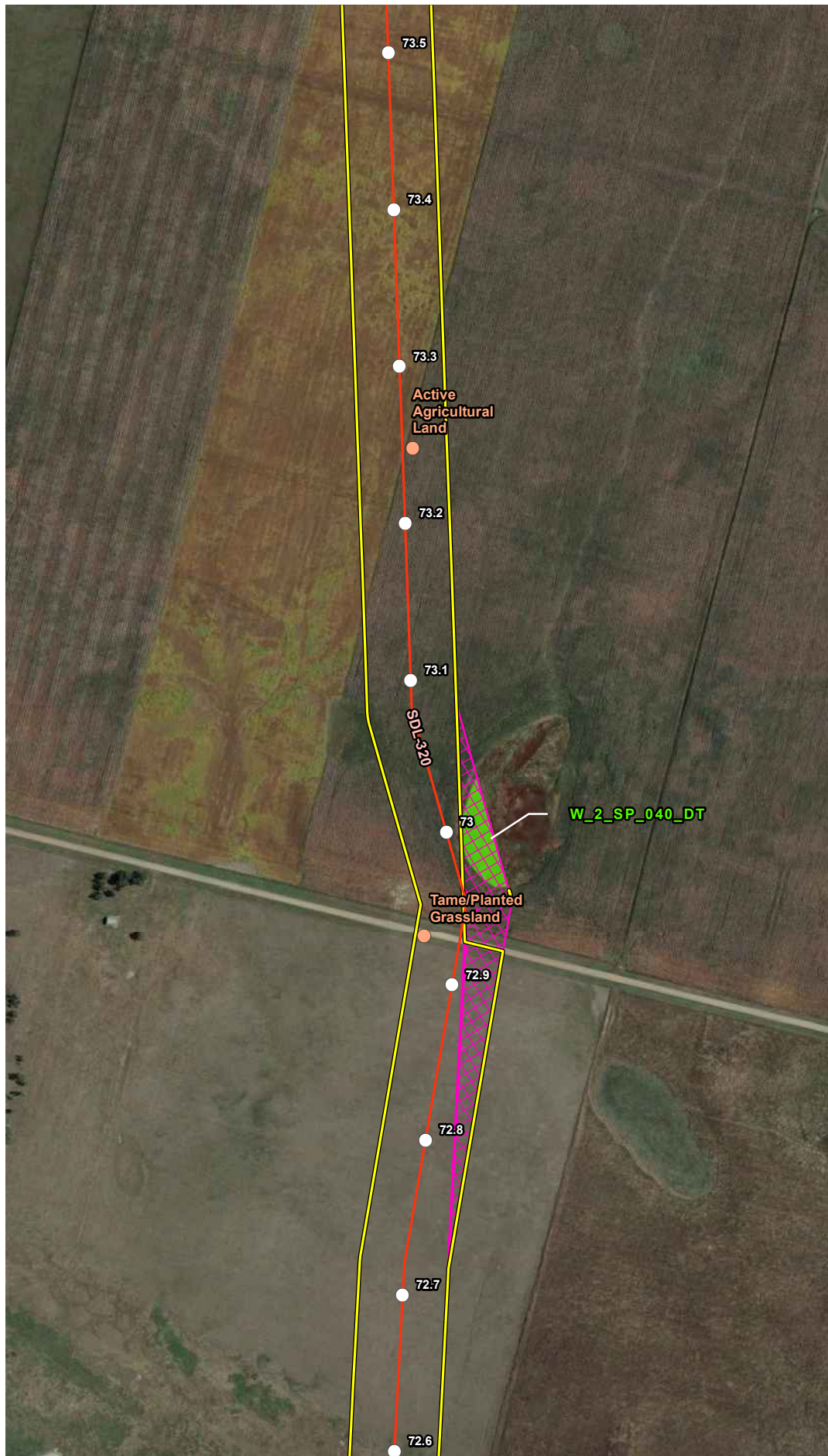
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Sheet:
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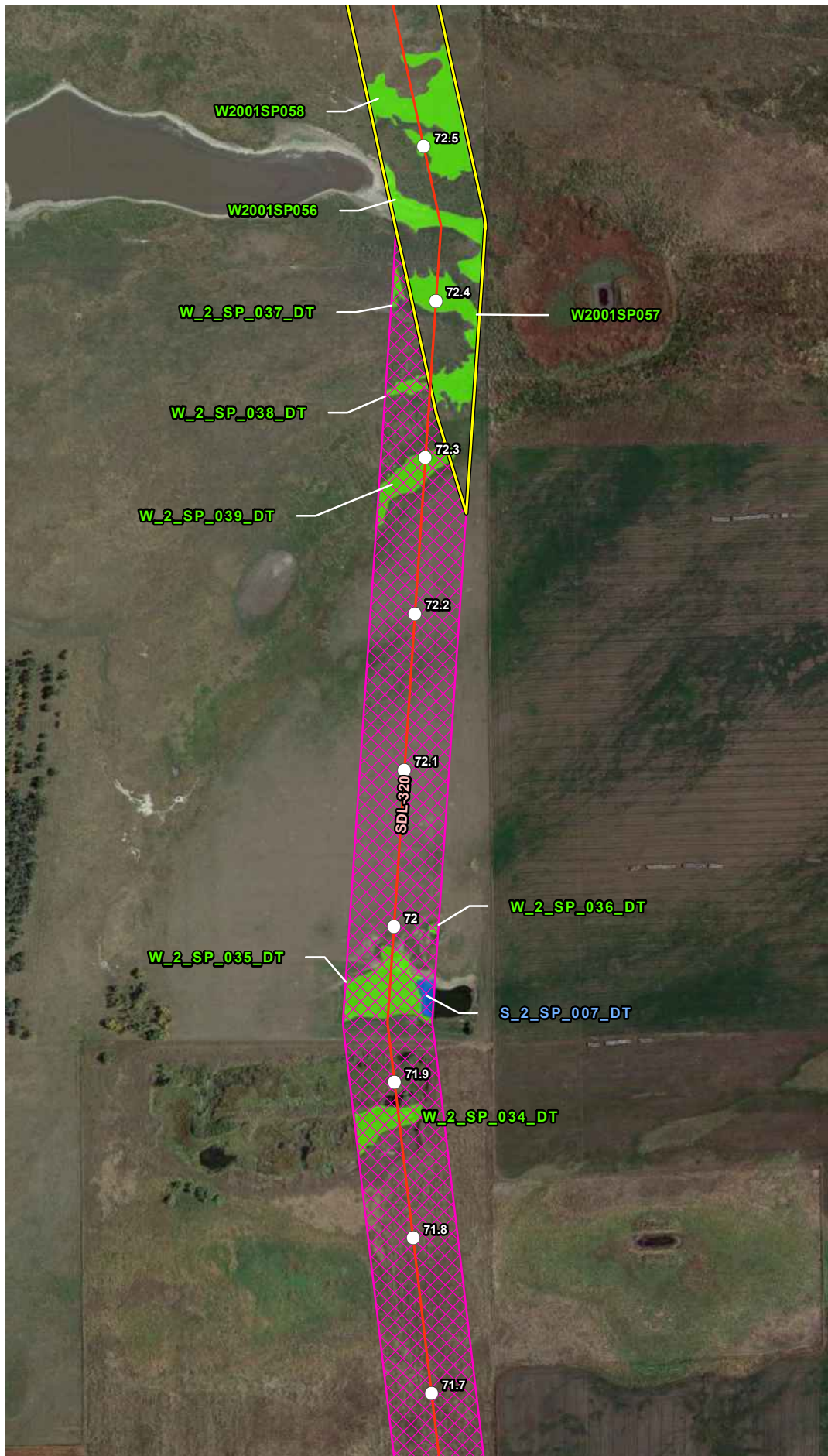
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Sheet:
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Sheet 337 of 517

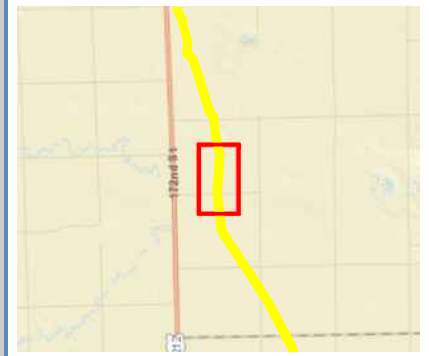
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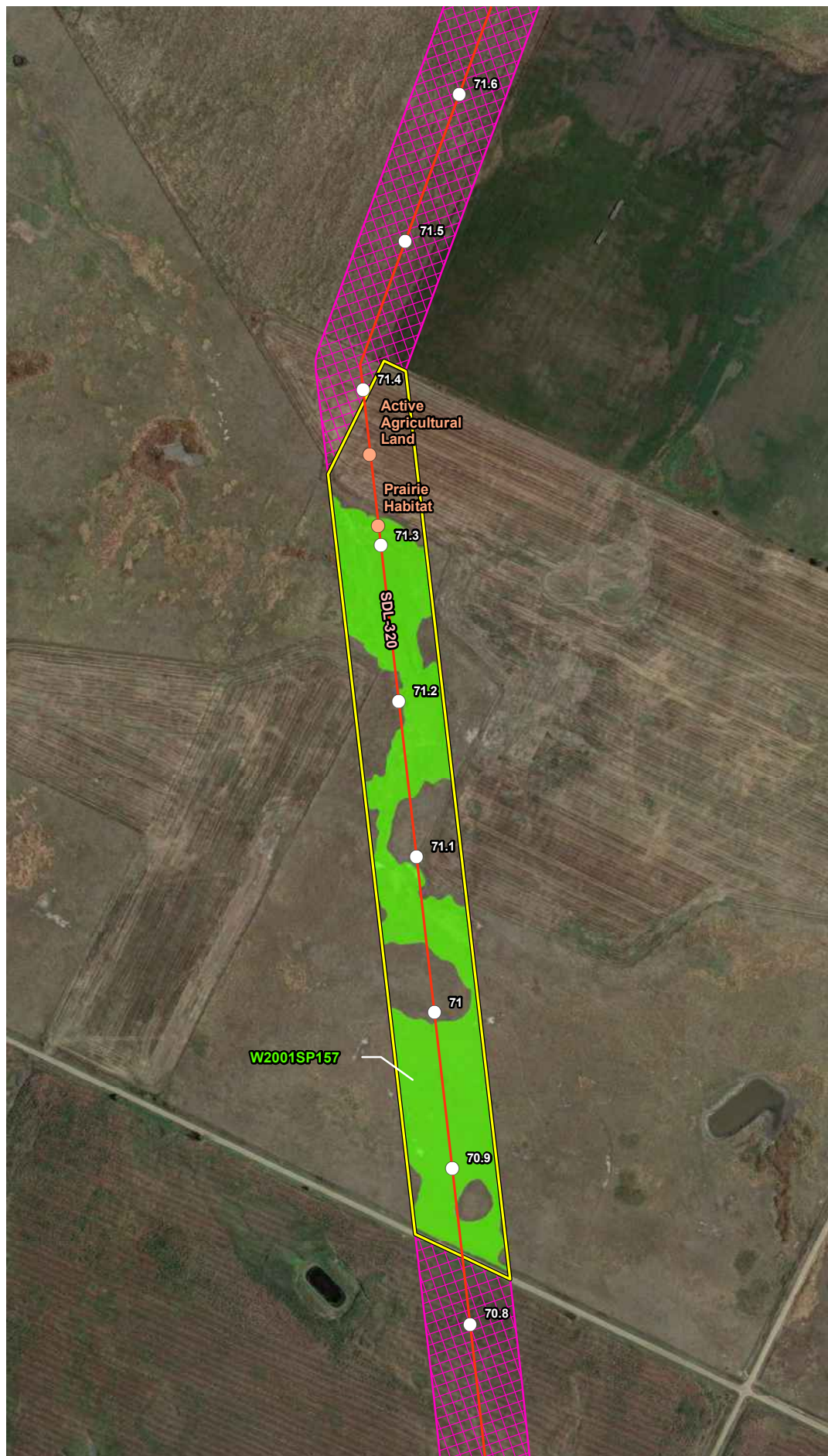
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0 250 500
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

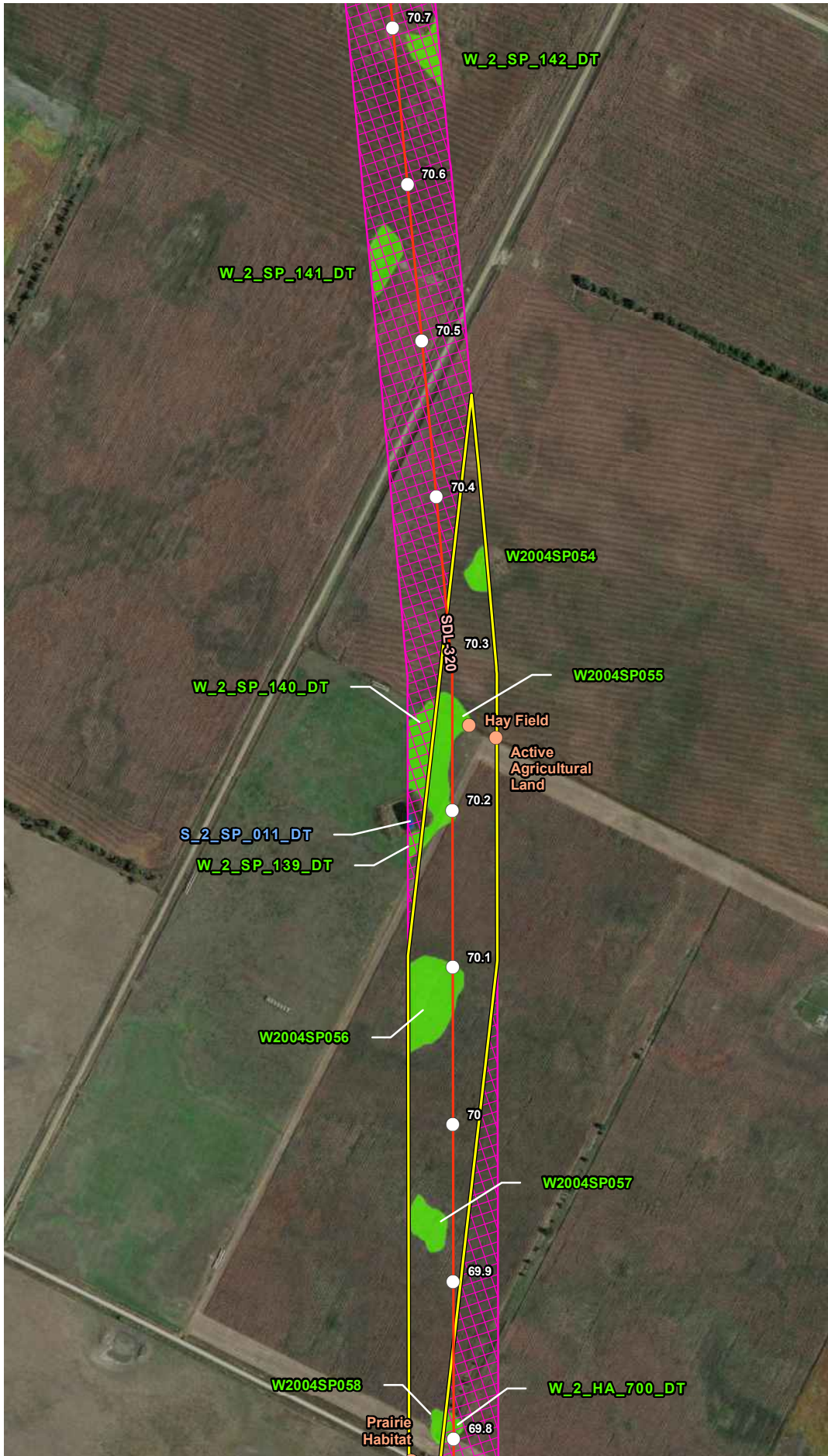
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NAD 1983 UTM Zone 14N

Sheet:
339
Sheet 339 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet

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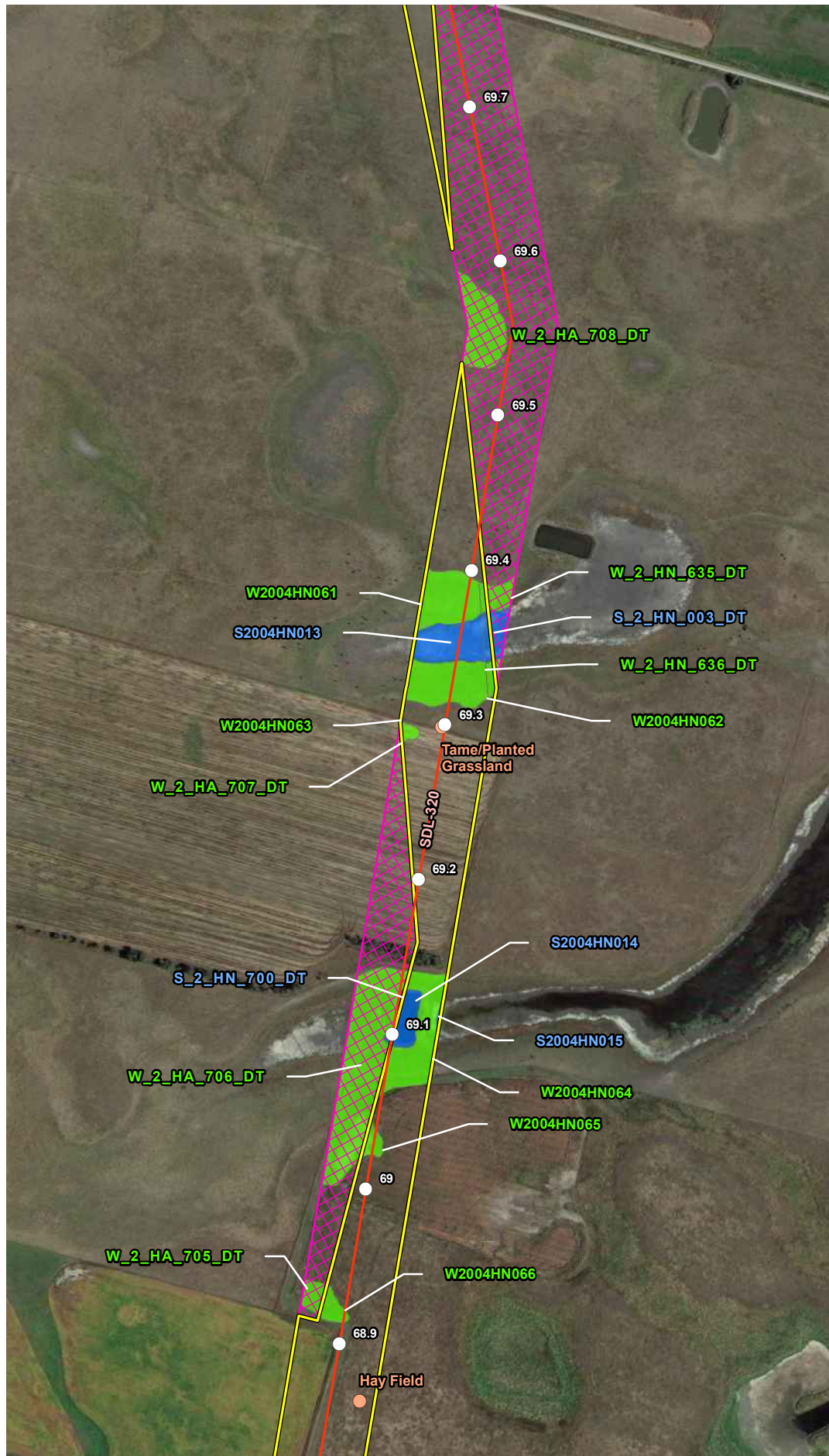
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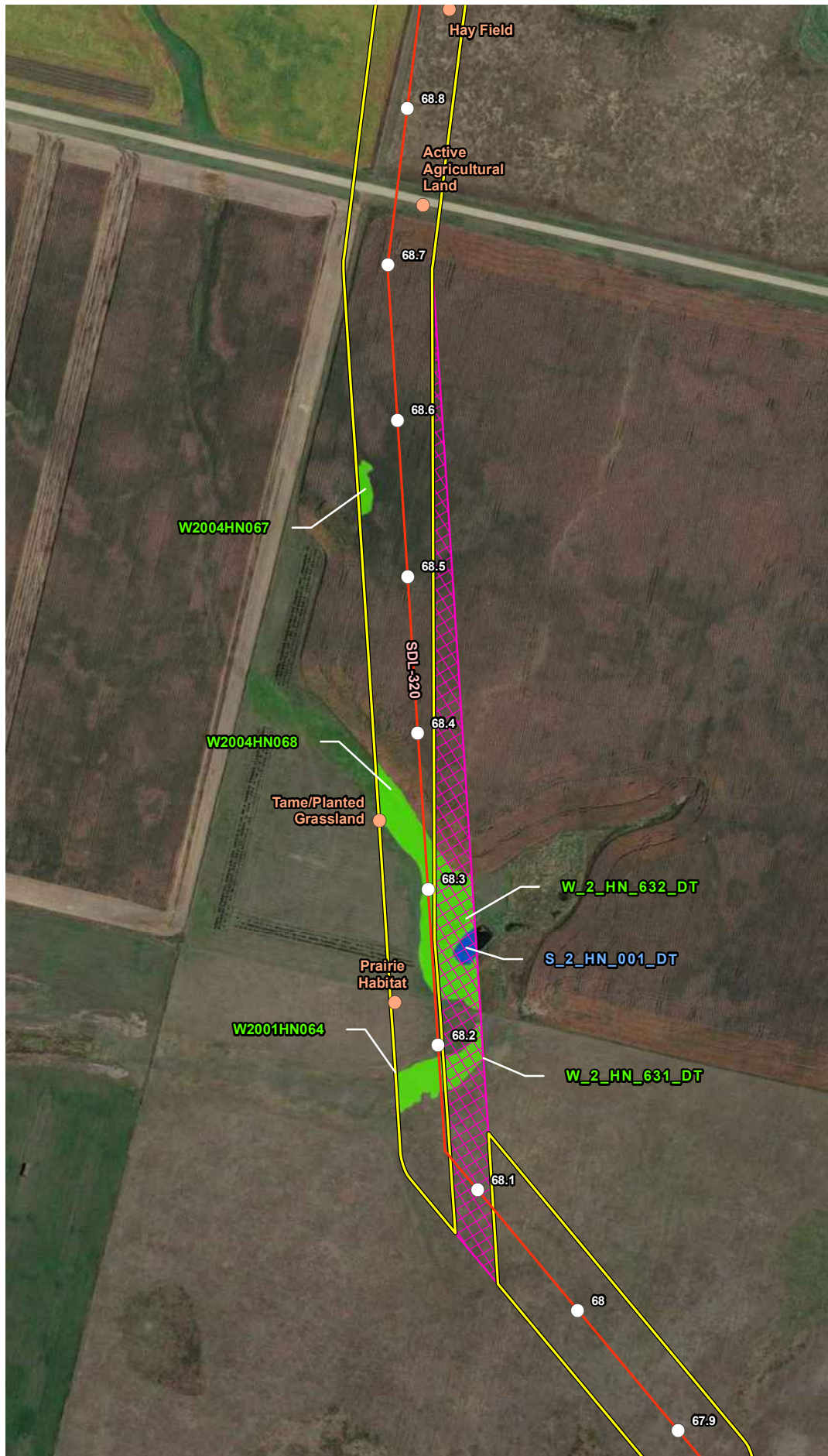
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Sheet:
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Sheet 341 of 517

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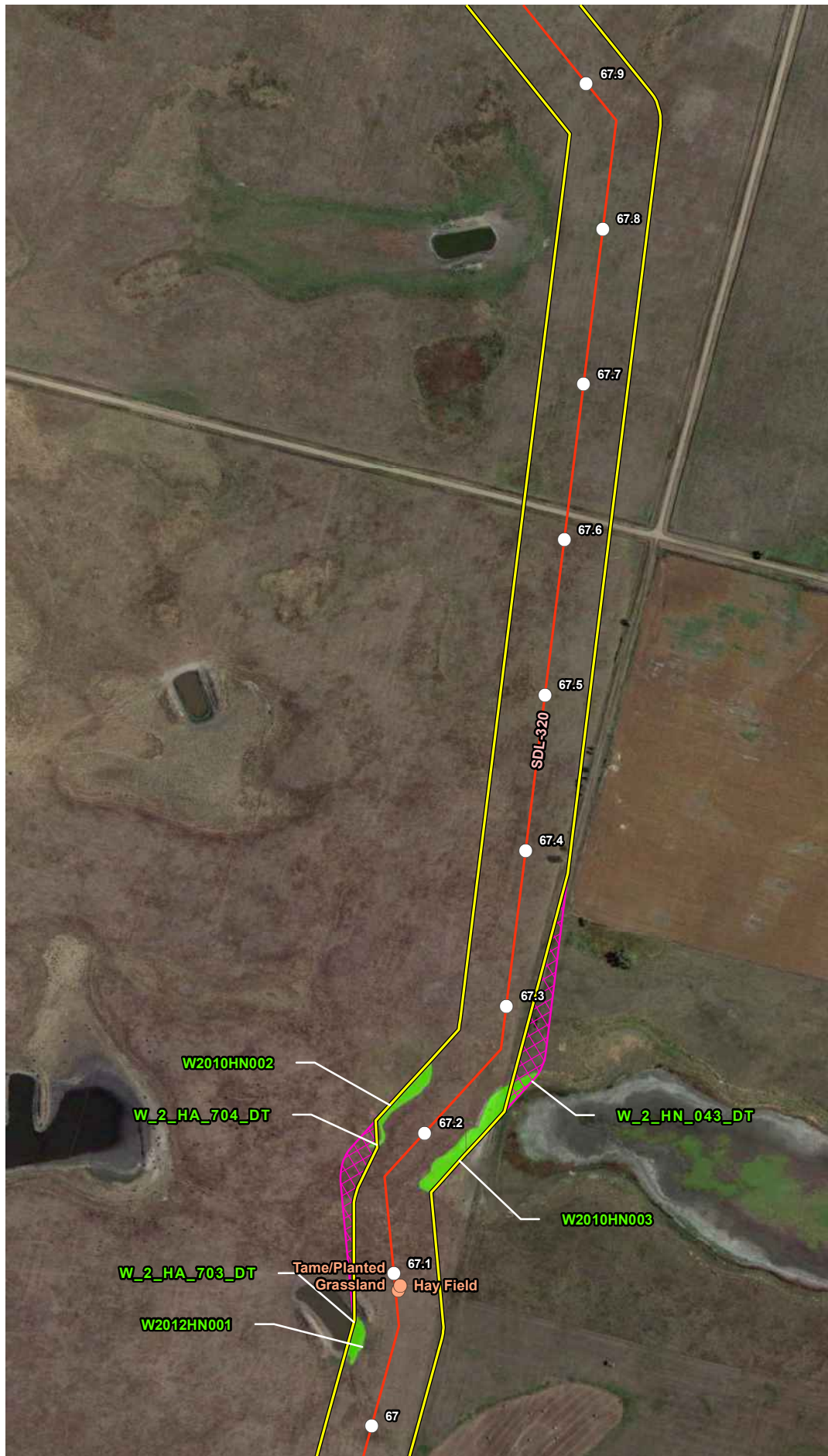
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Sheet:
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Sheet 342 of 517

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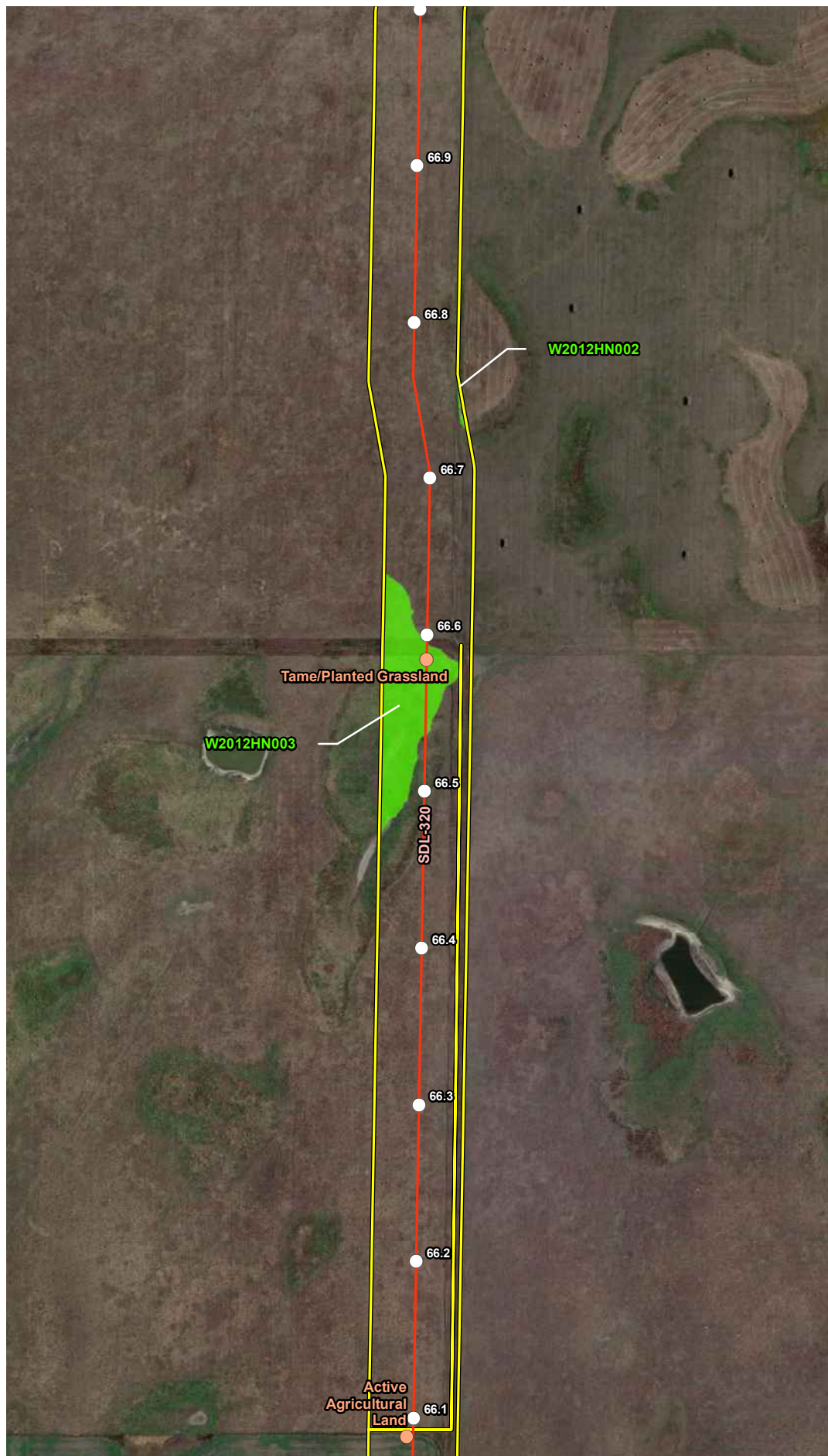
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Sheet:
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Sheet:
344
Sheet 344 of 517

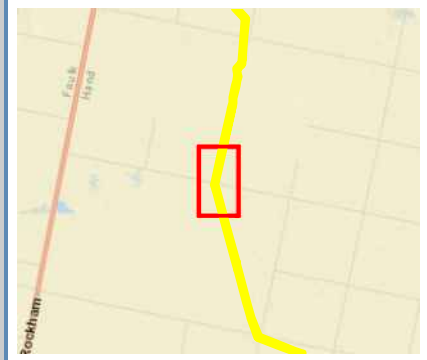
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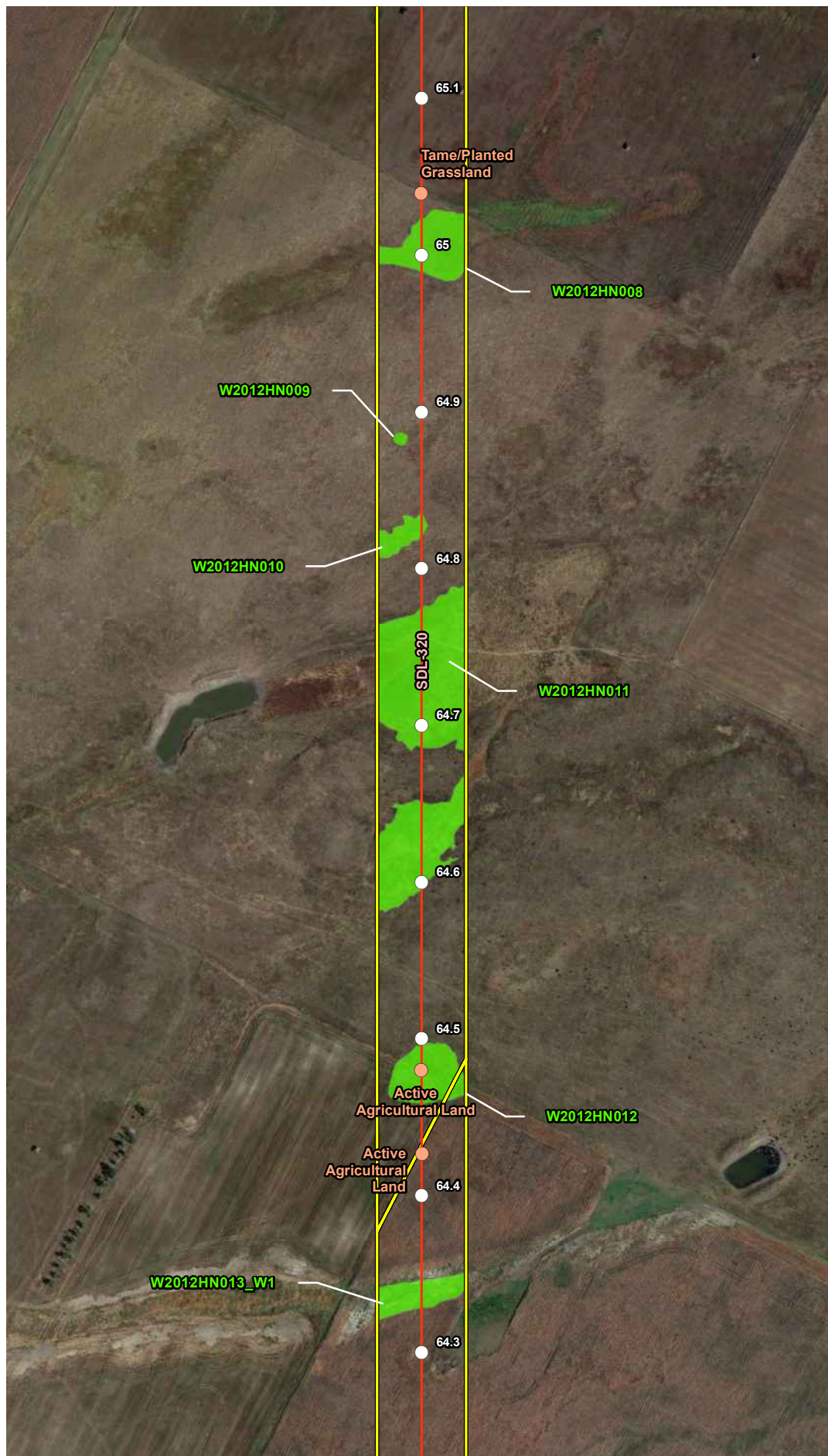
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345
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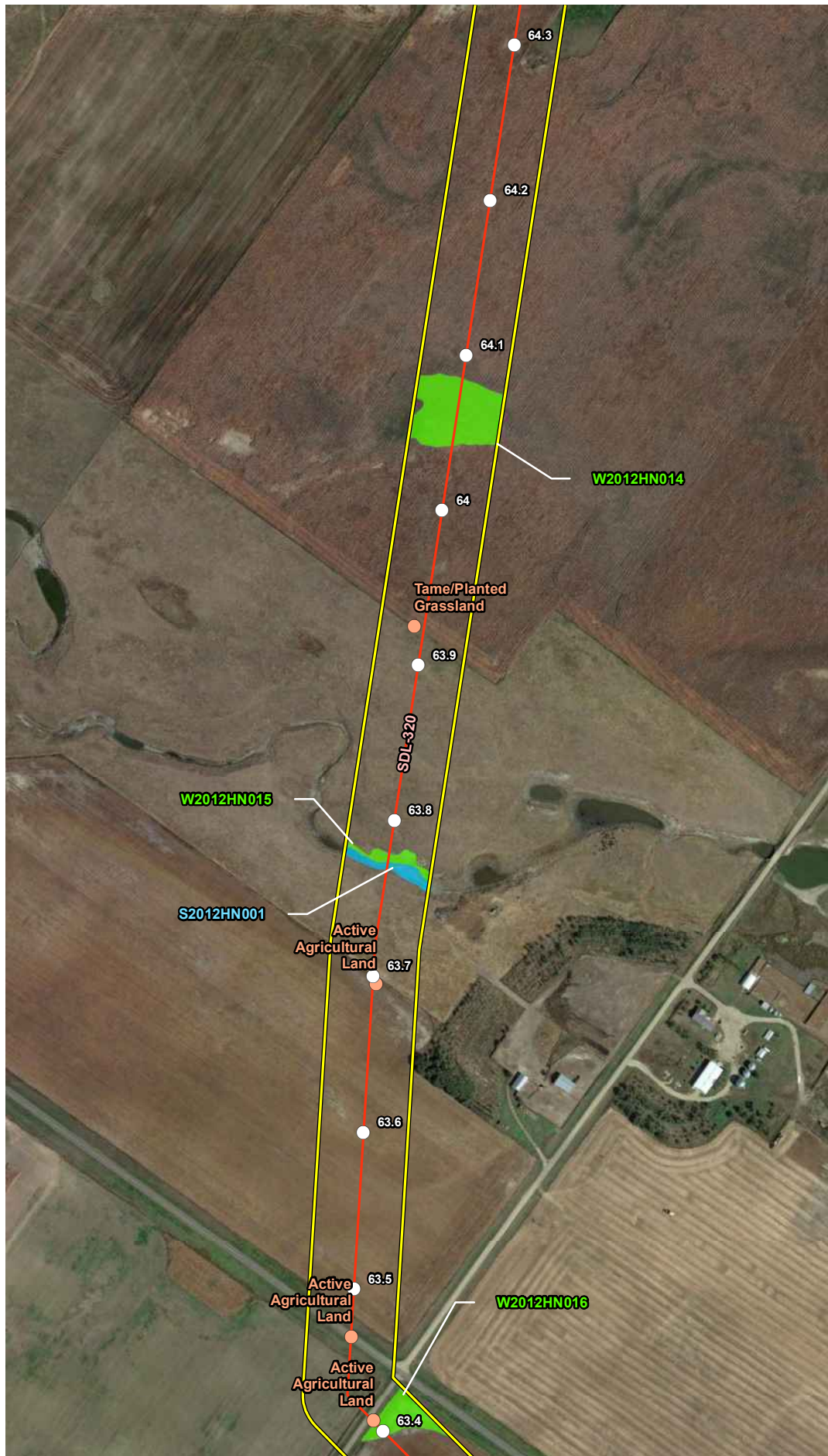
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Sheet 346 of 517

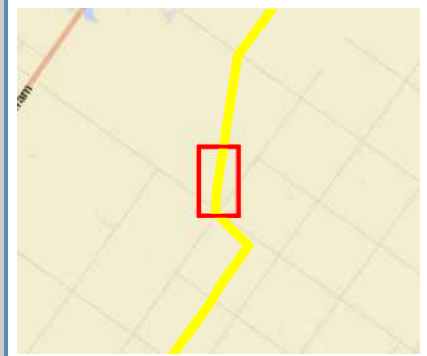
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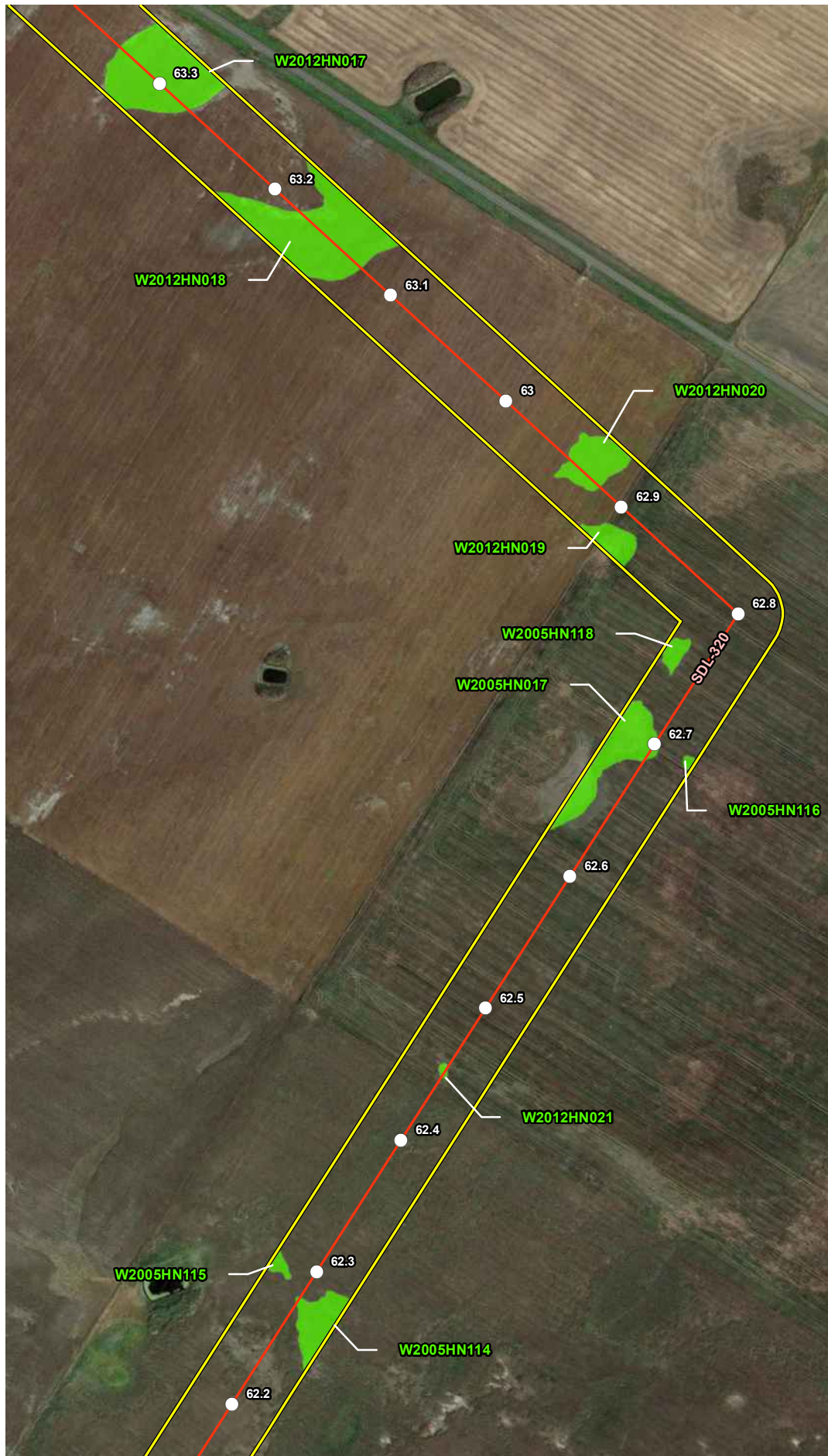
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Sheet 347 of 517

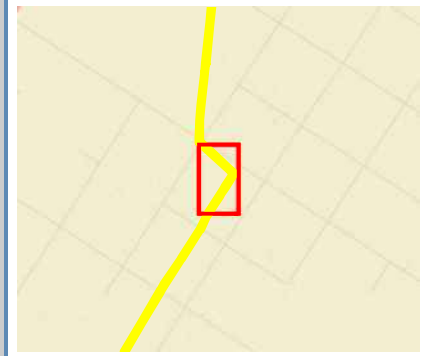
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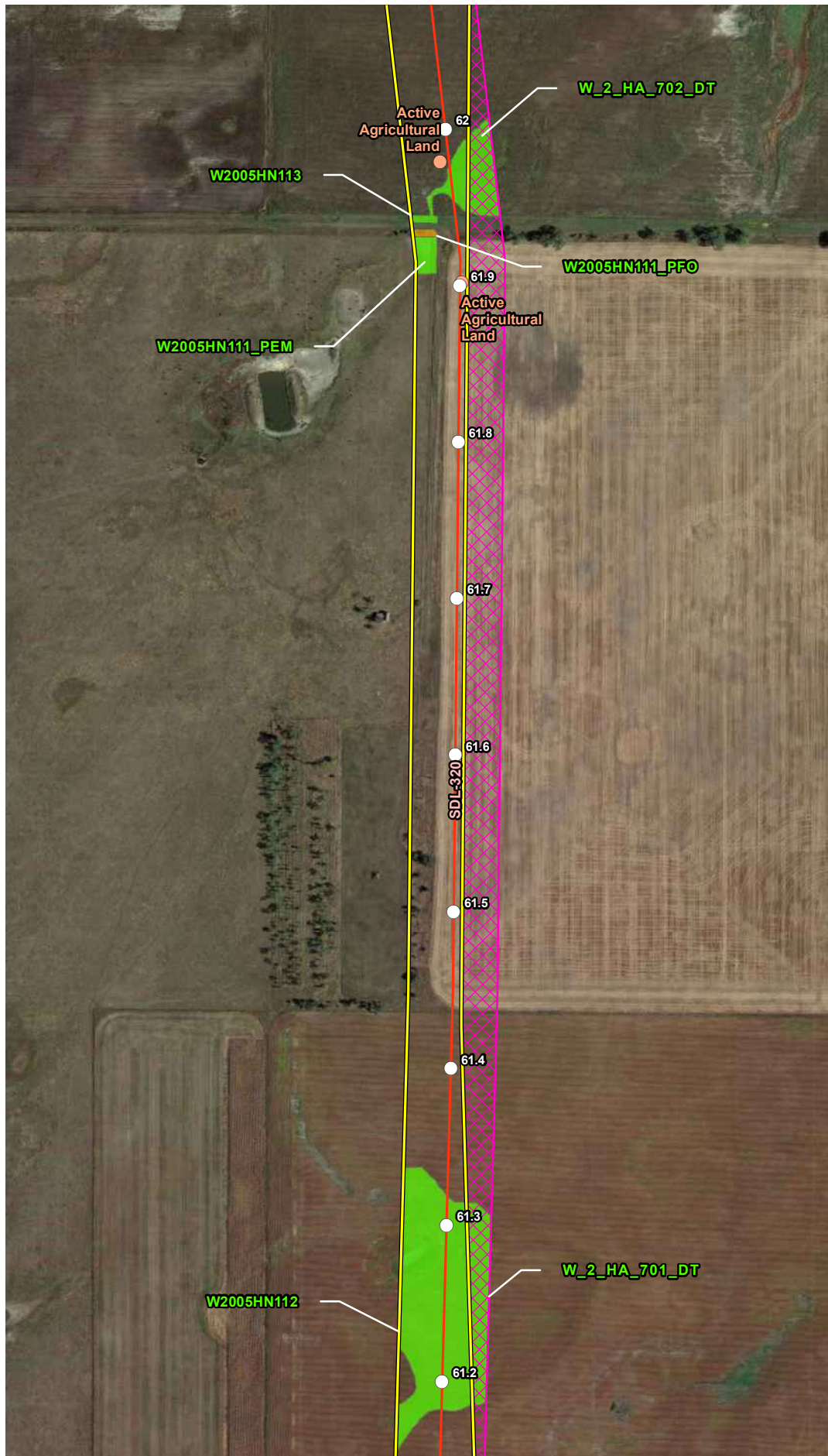
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Sheet 348 of 517

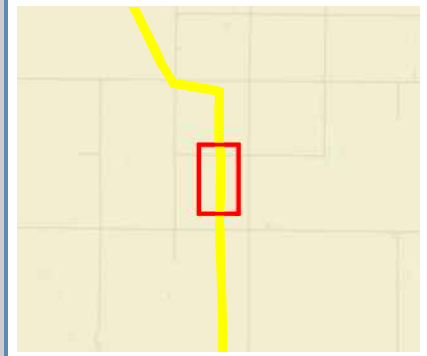
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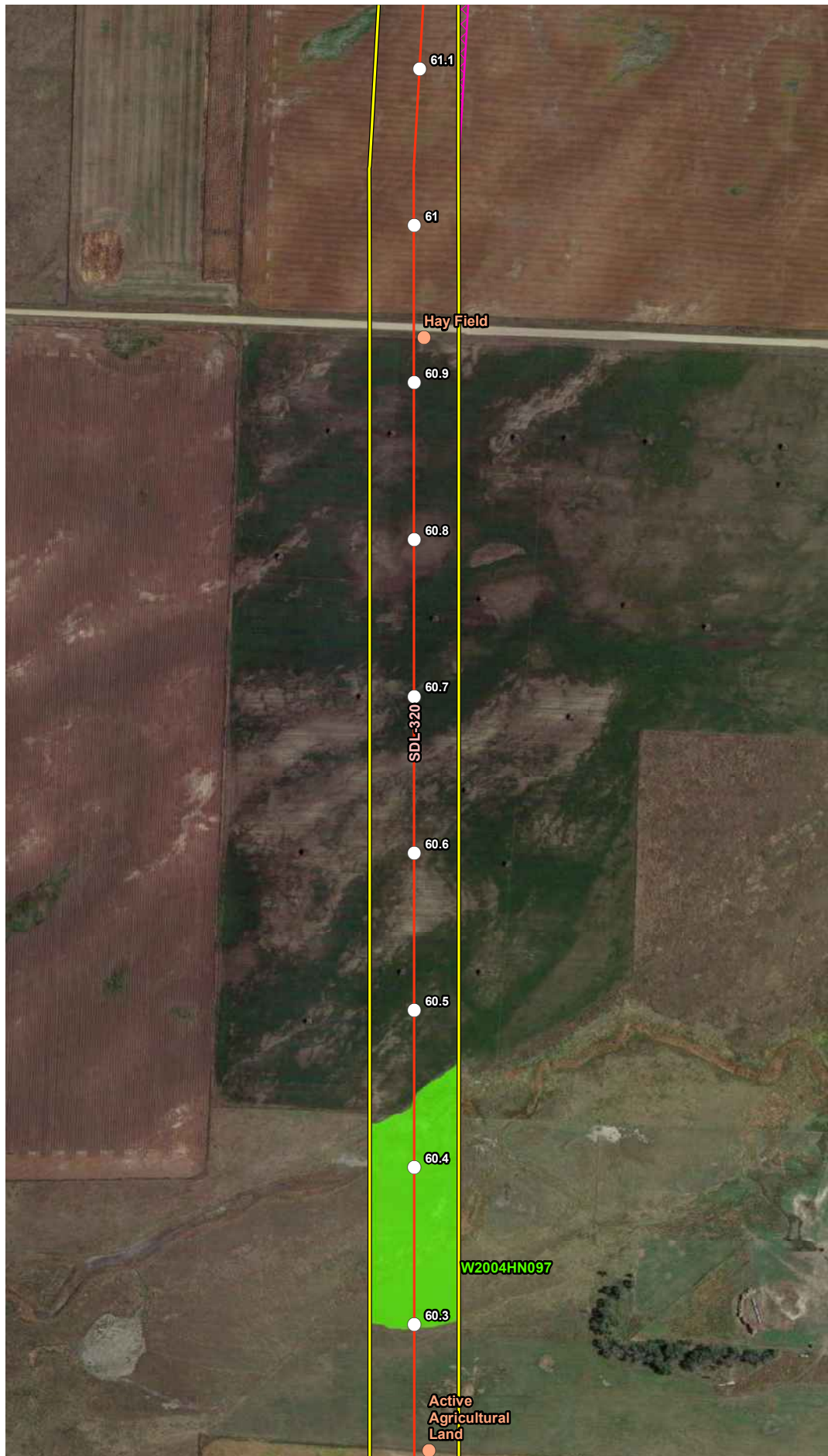
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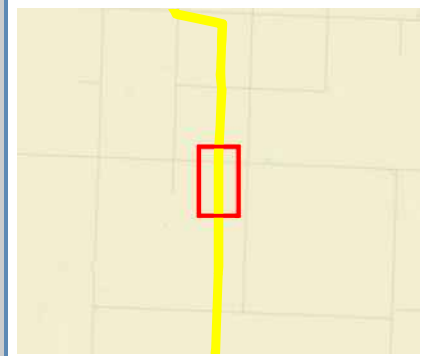
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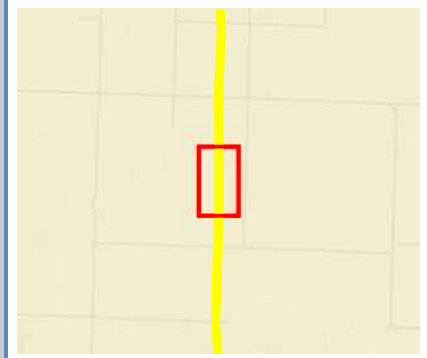
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Sheet 351 of 517

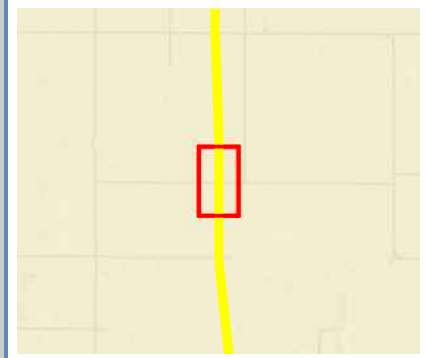
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Sheet 352 of 517

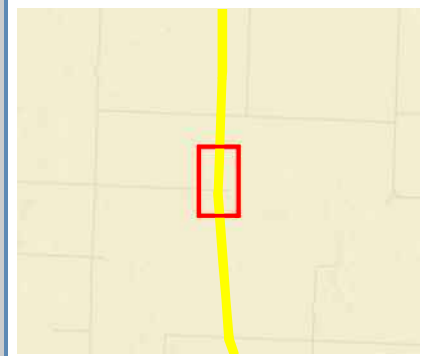
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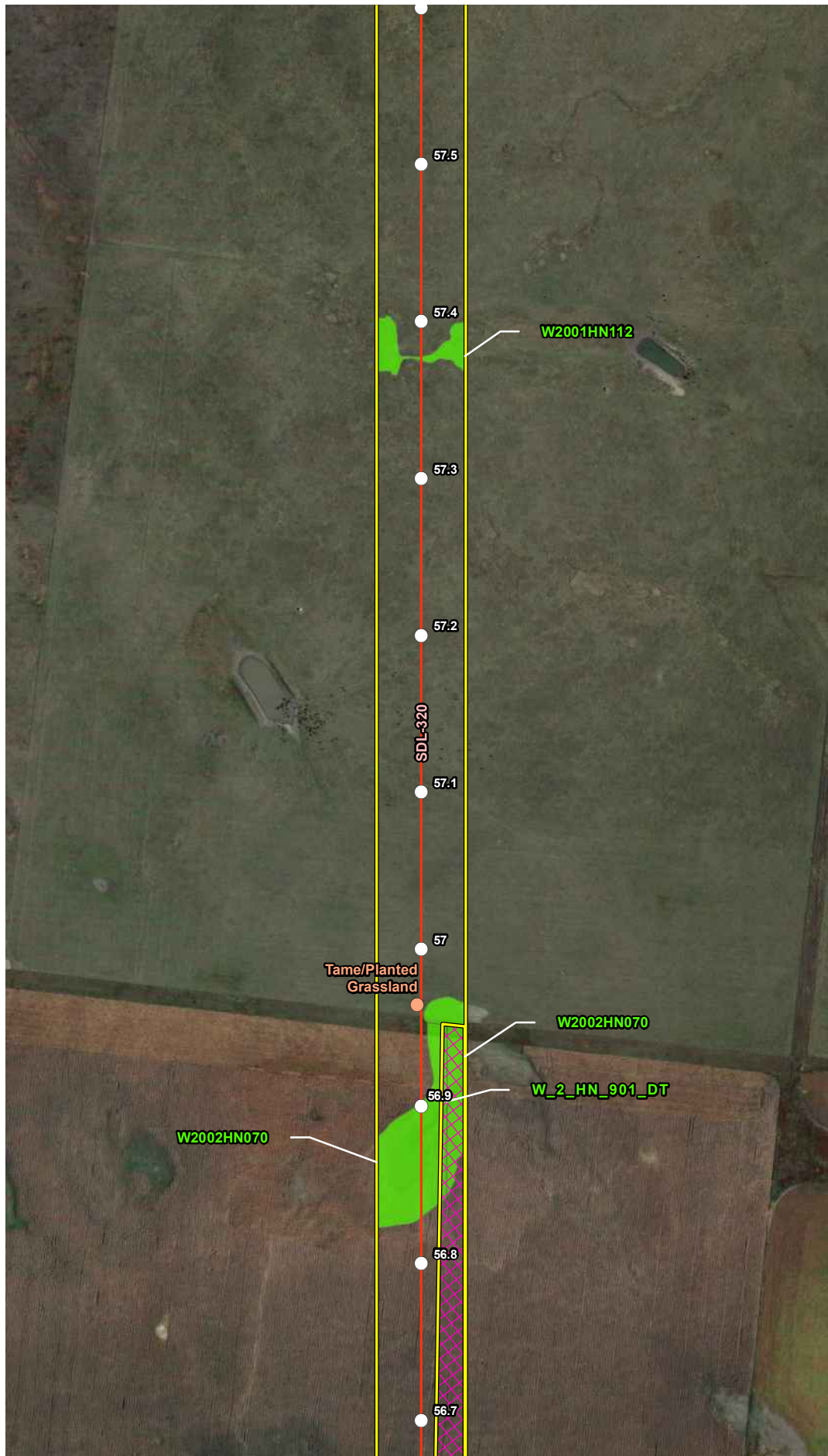
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Sheet 353 of 517

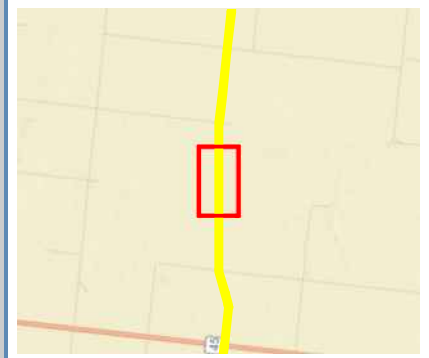
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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

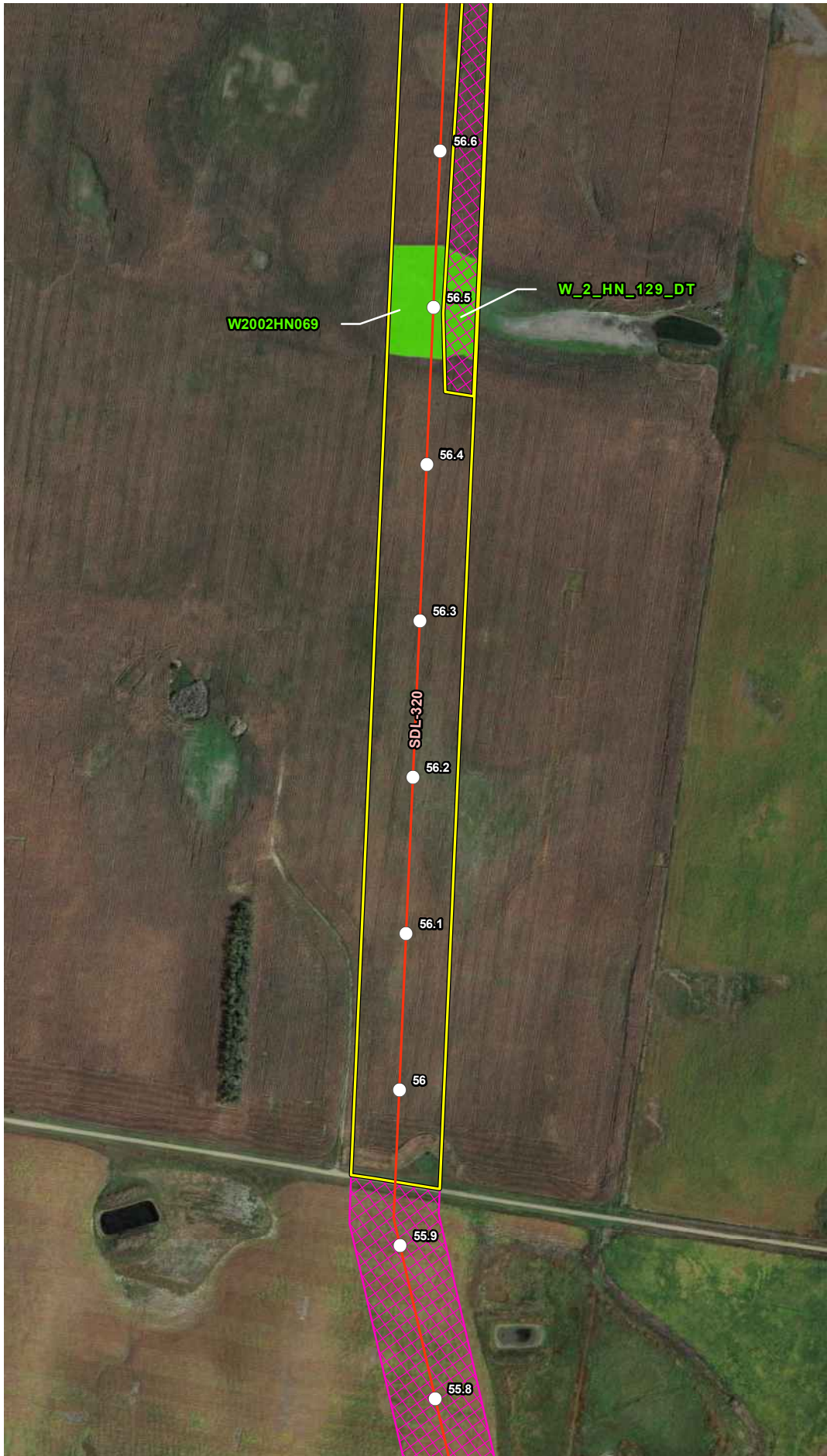
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 354 of 517

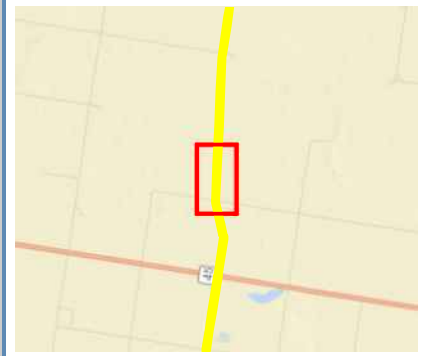
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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- PEM Wetland
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0 250 500 Feet

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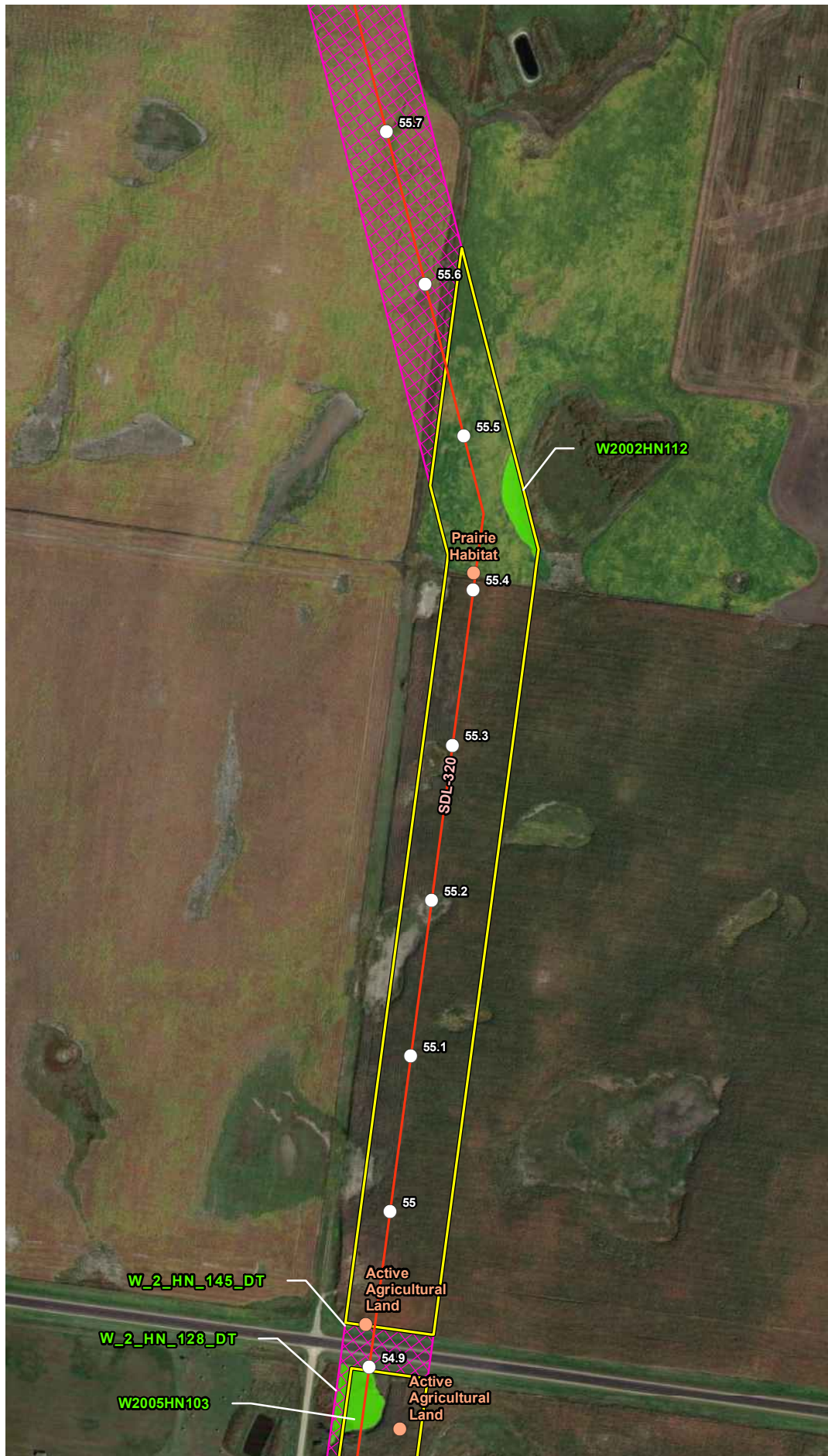
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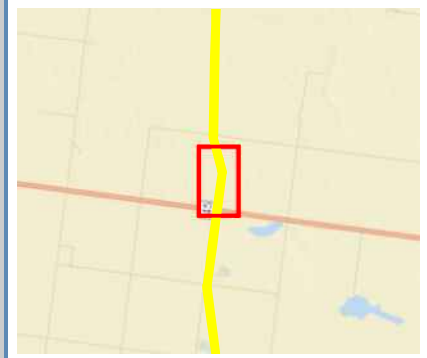
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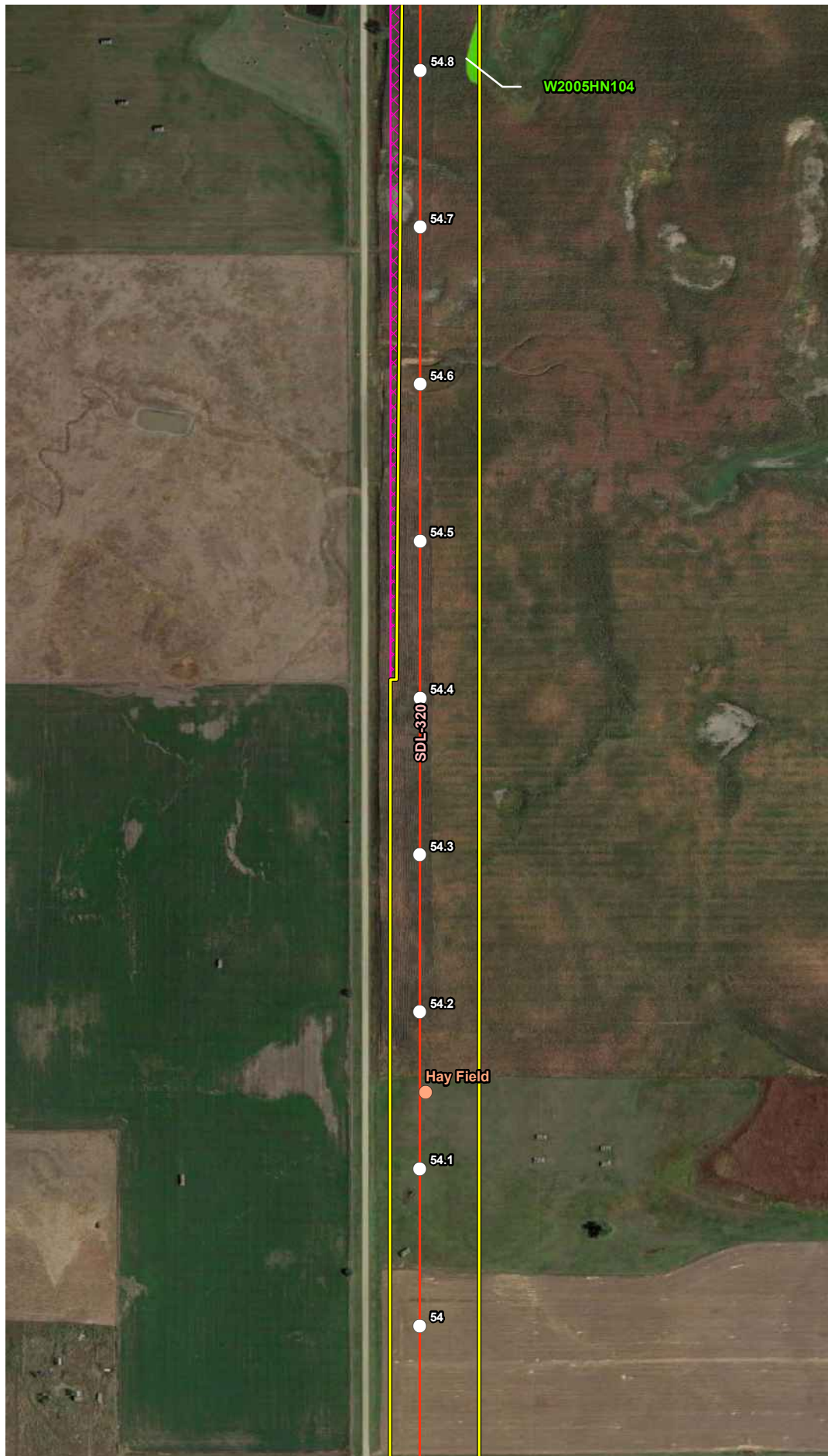
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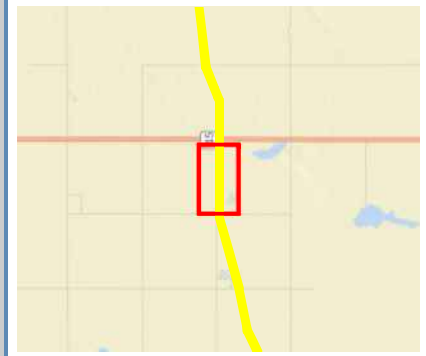
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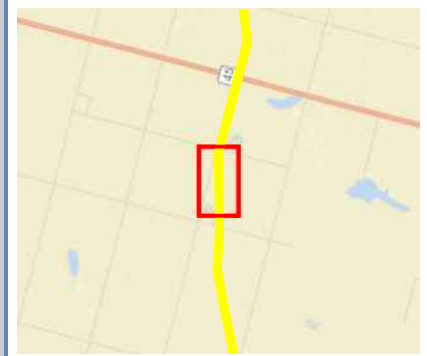
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Drawing Number:
2001-21-002
Current Revision

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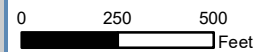


VICINITY MAP



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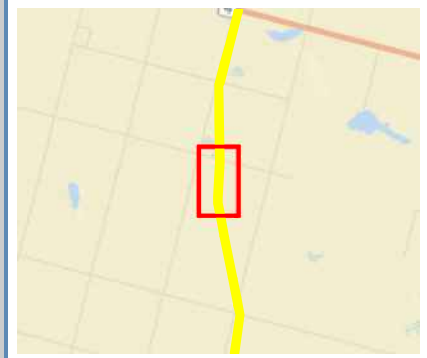
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 Sheet 358 of 517

Drawing Number:
 2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet

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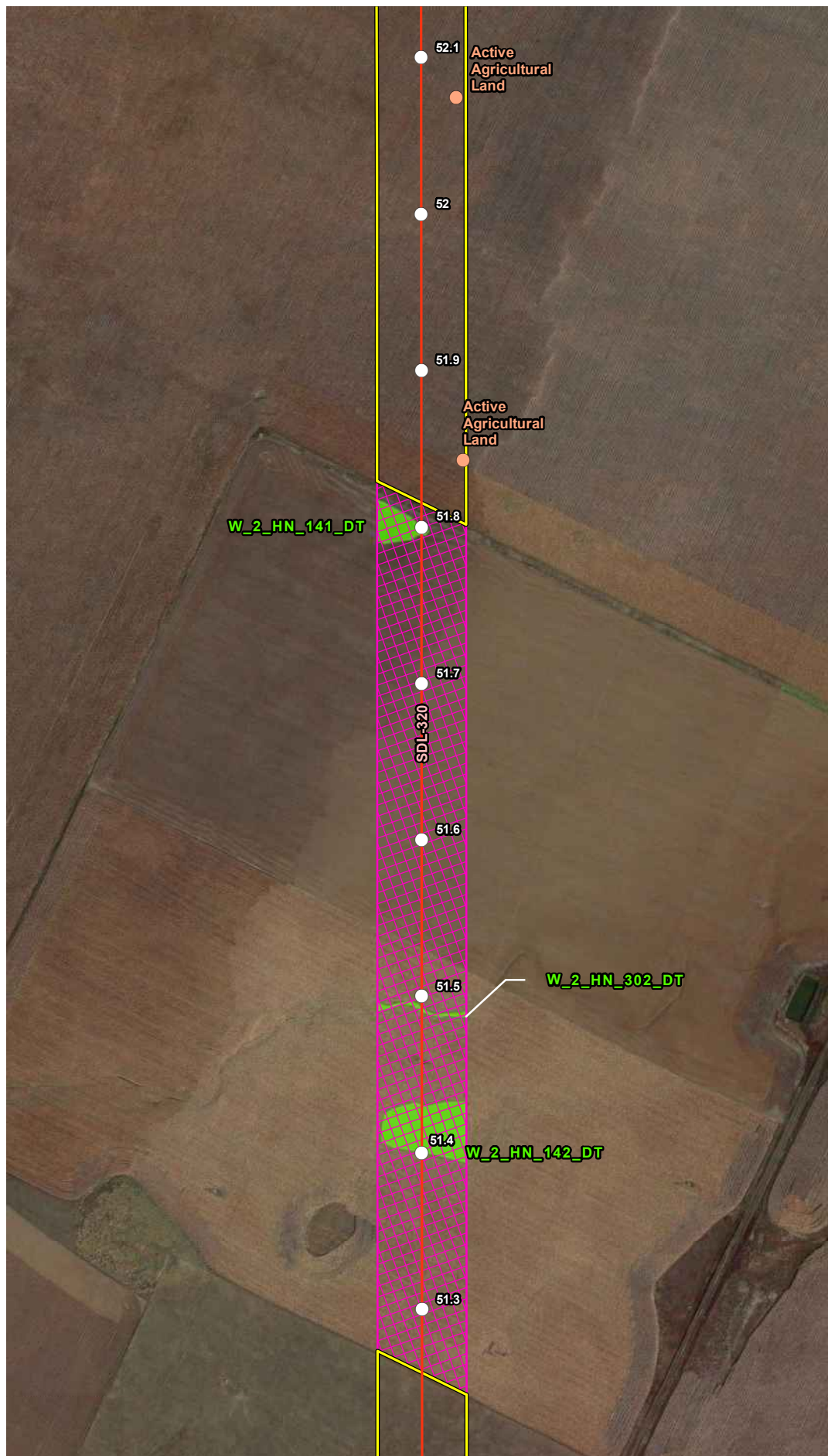
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Sheet:
 359
 Sheet 359 of 517

Drawing Number:
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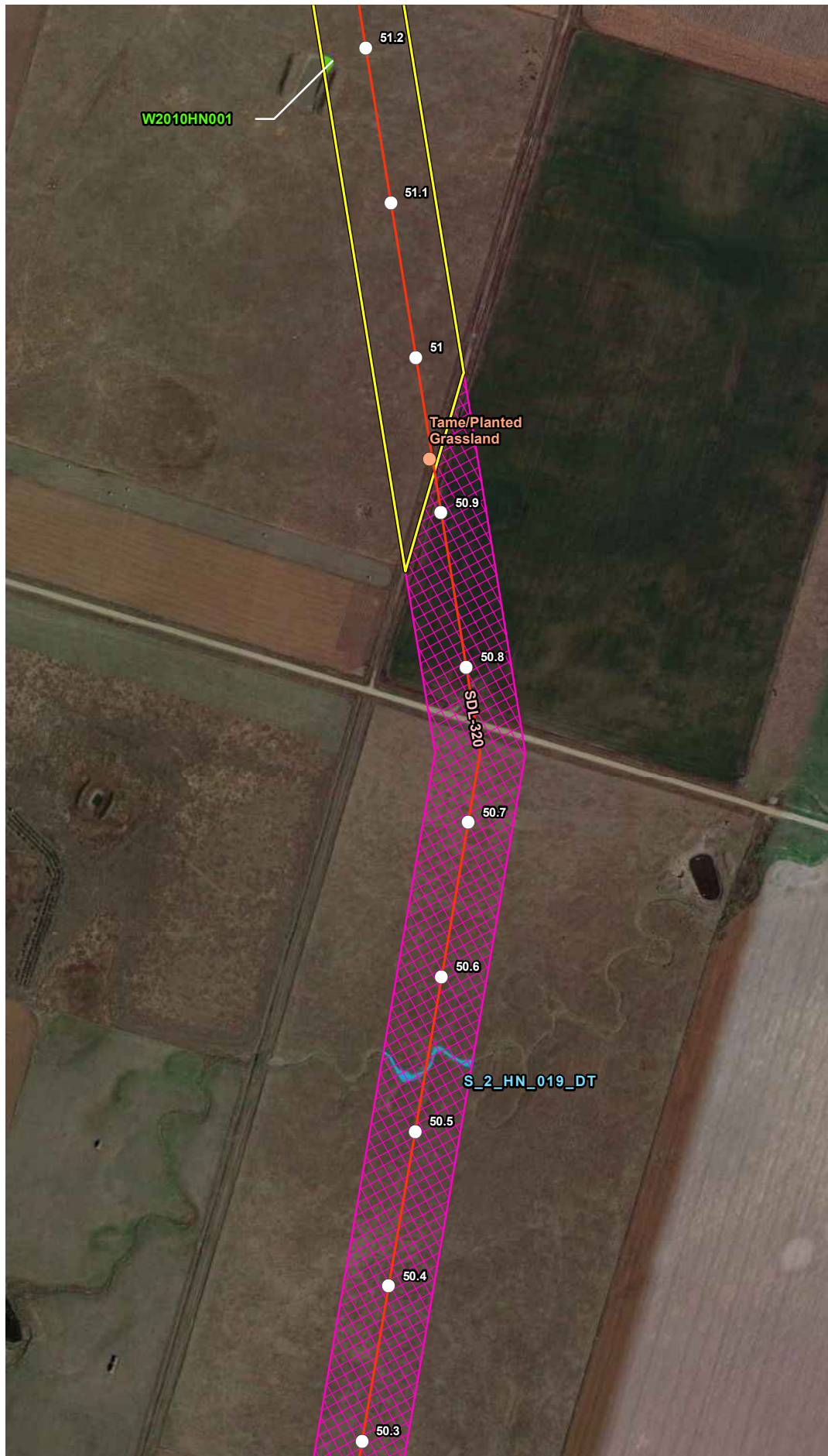
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1 inch = 500 feet

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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
360
Sheet 360 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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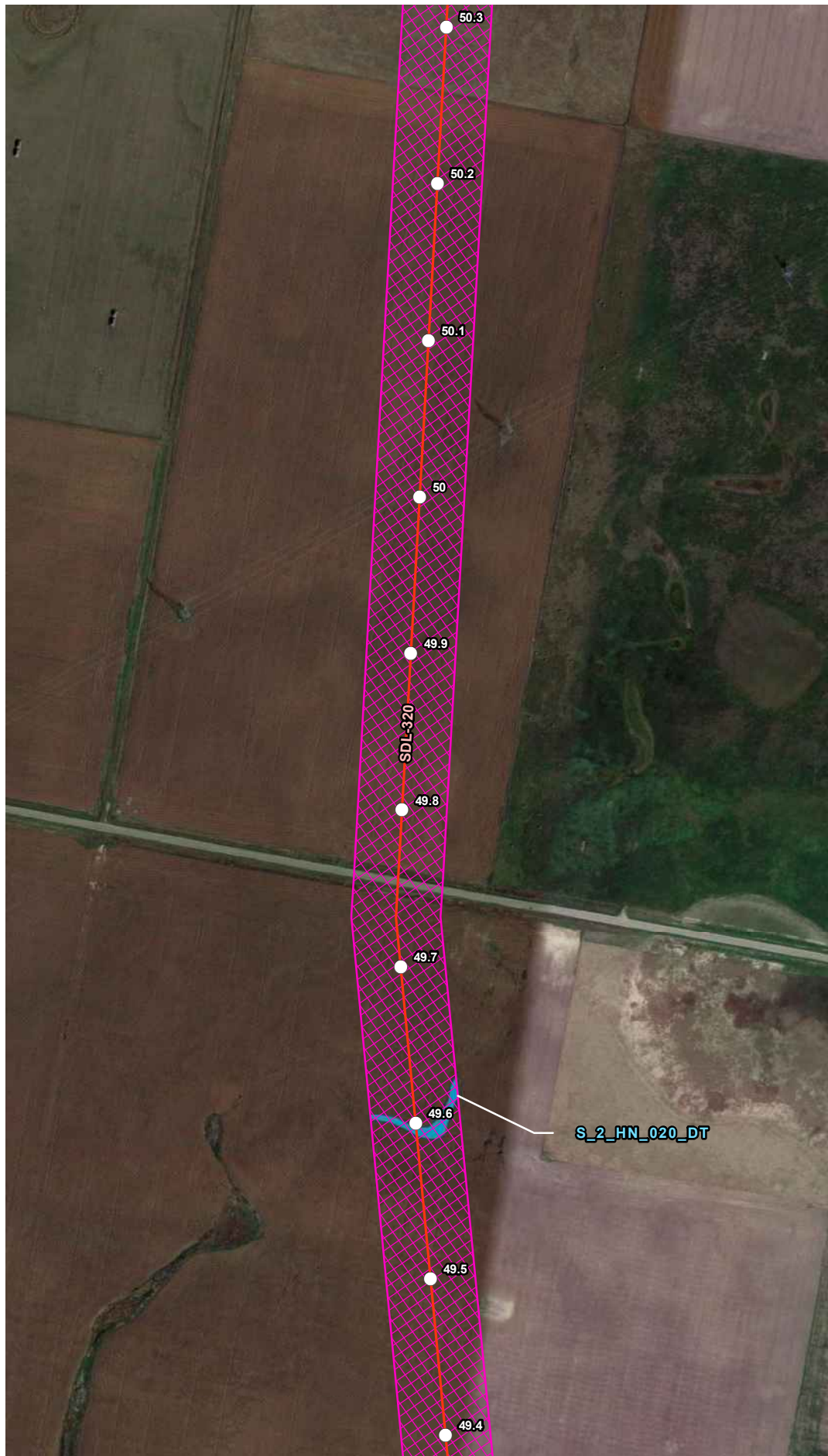
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Sheet 361 of 517

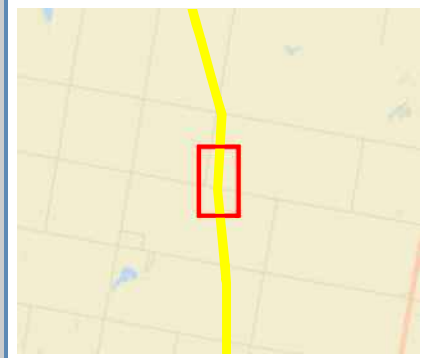
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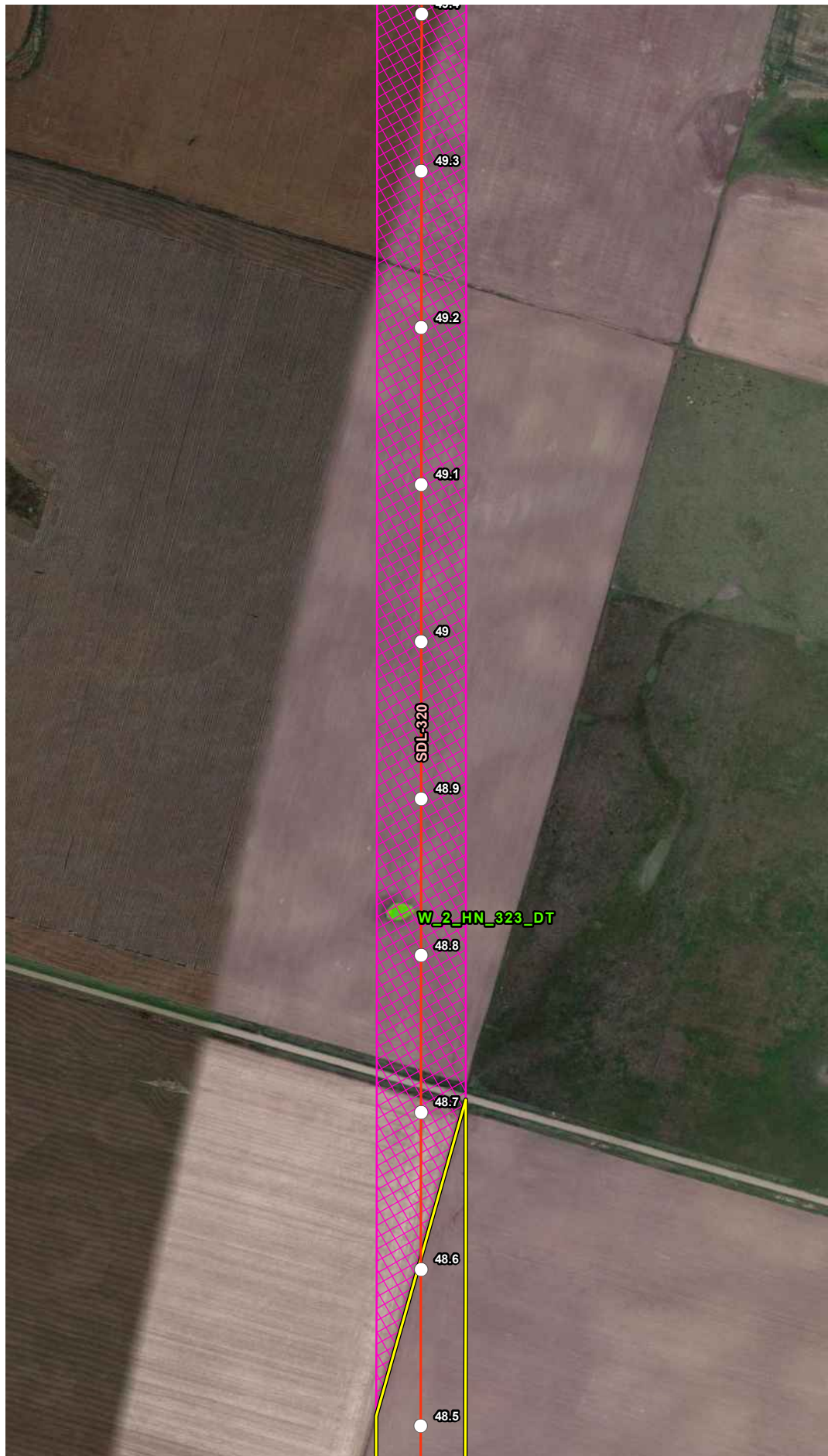
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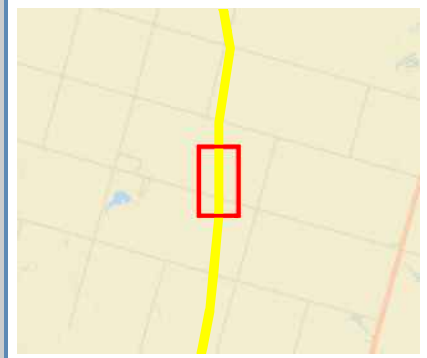
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NAD 1983 UTM Zone 14N

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Sheet 363 of 517

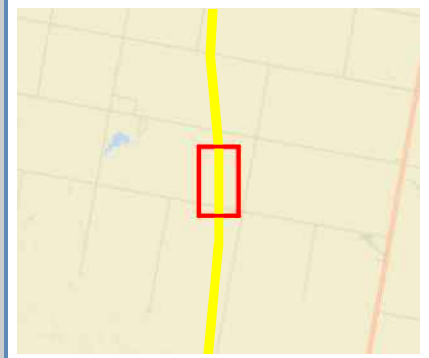
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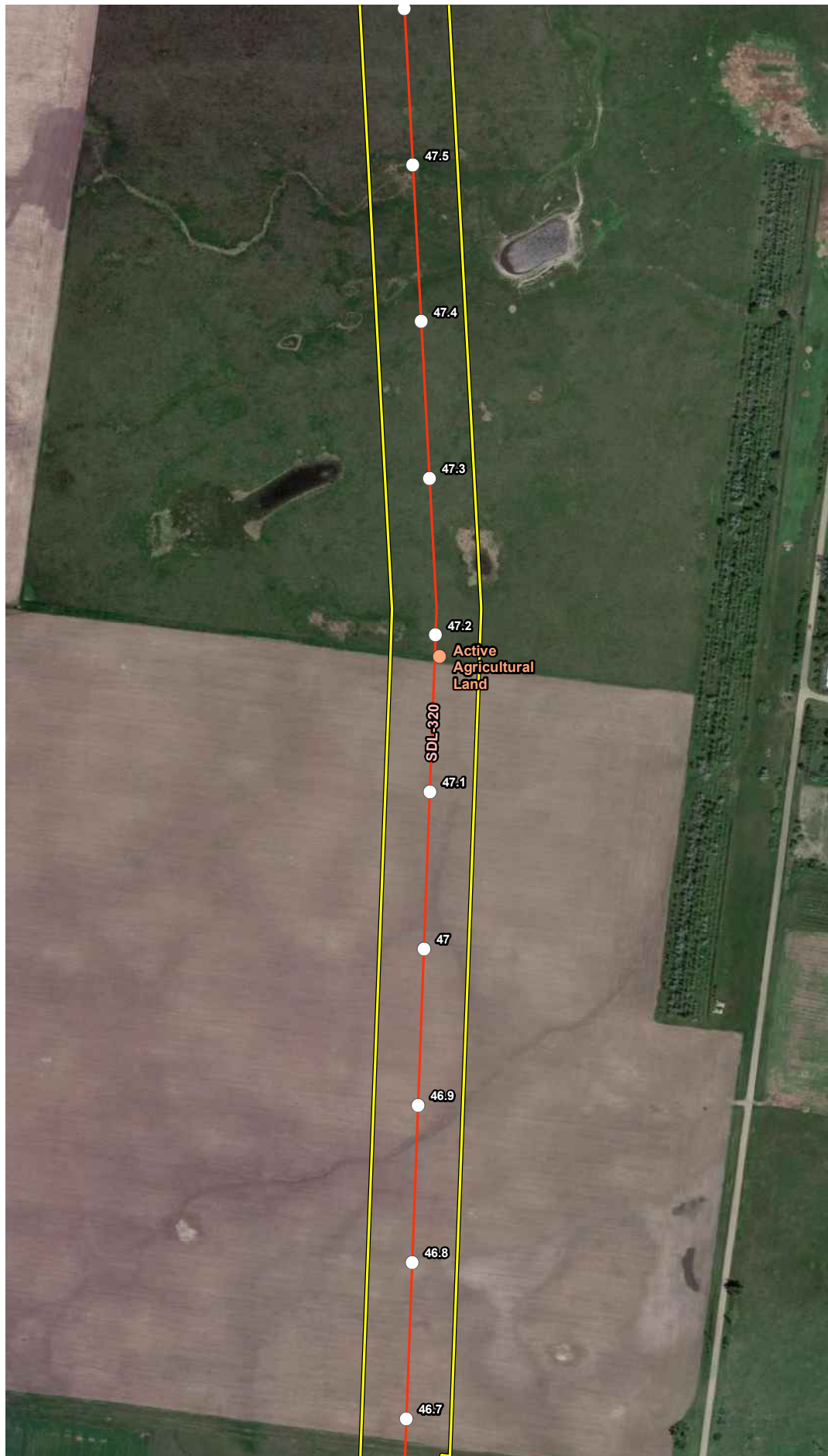
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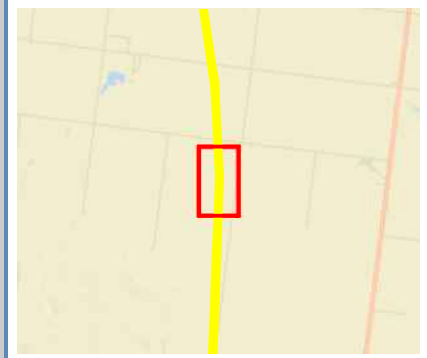
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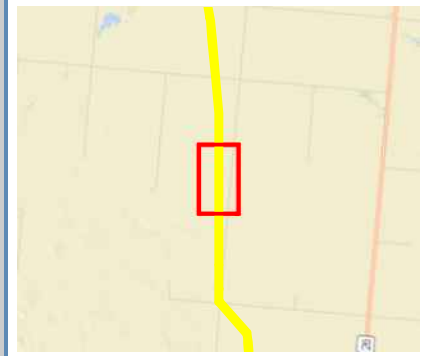
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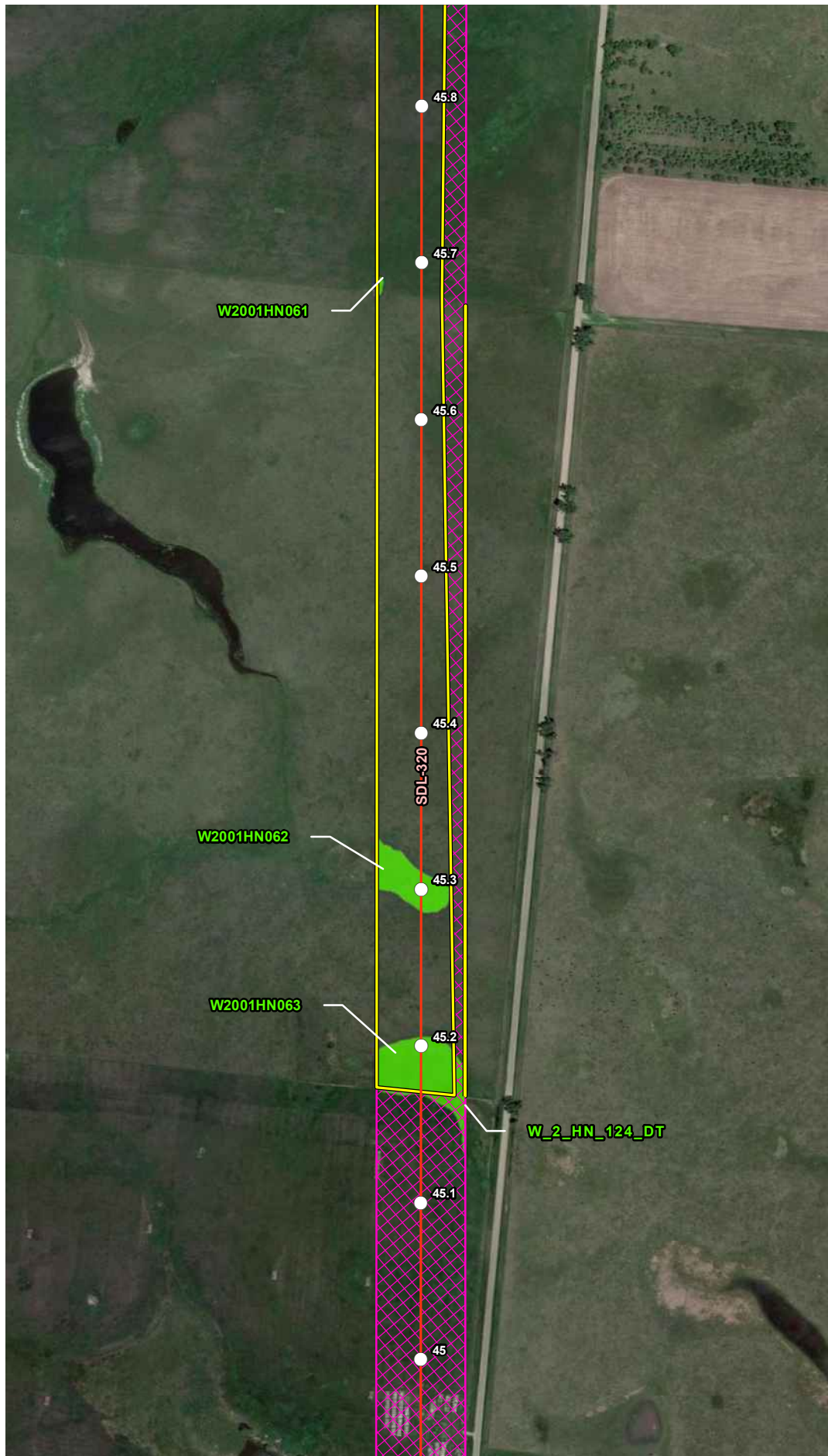
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Sheet 366 of 517

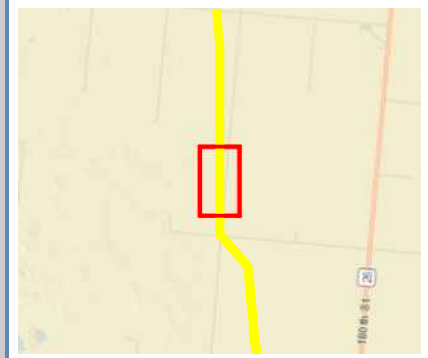
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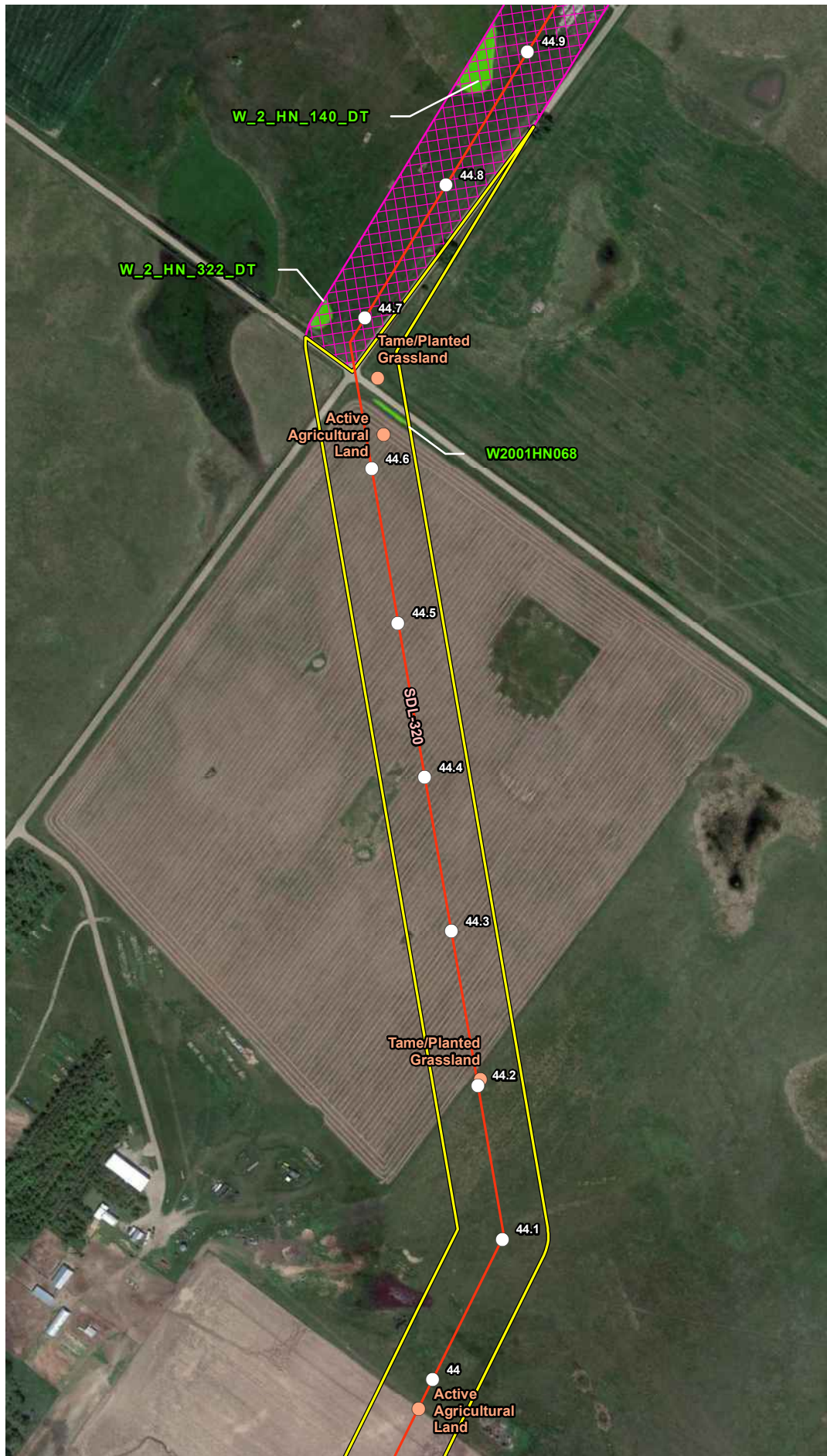
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Sheet:
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Sheet 367 of 517

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Projection:
Transverse Mercator
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Sheet:
368
Sheet 368 of 517

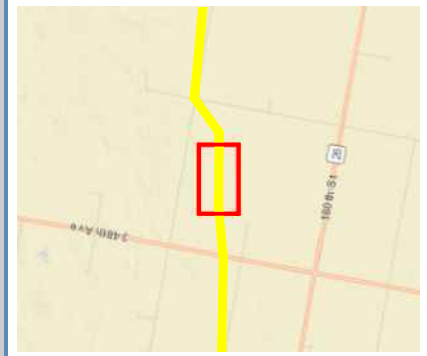
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- PSS Wetland
- County Boundary
- State Boundary

0 250 500
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

Revision description

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Revision description

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

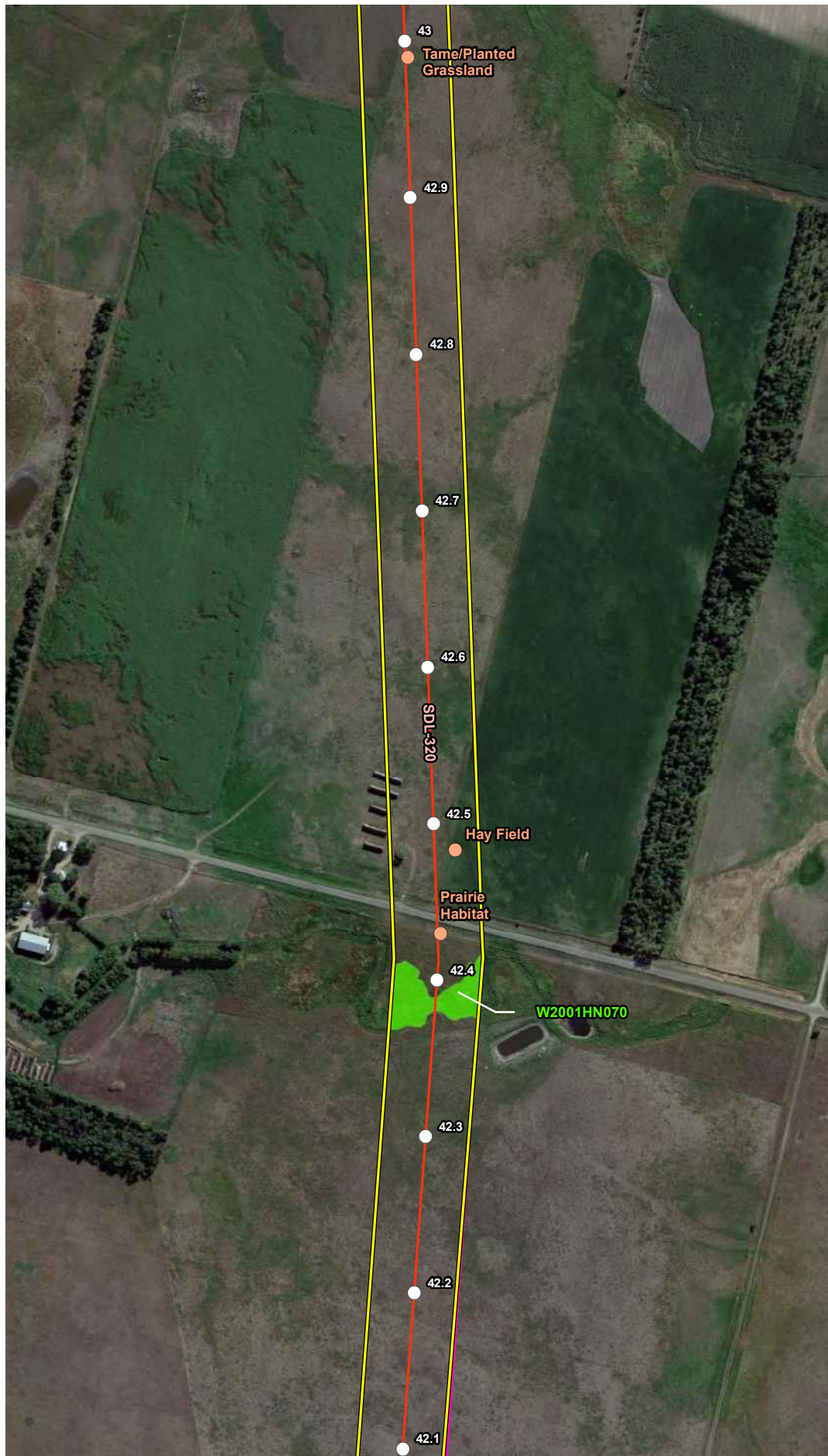
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 369 of 517

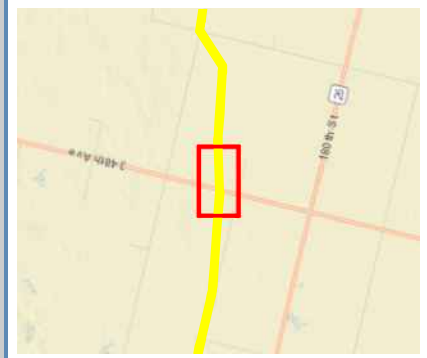
Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet



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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

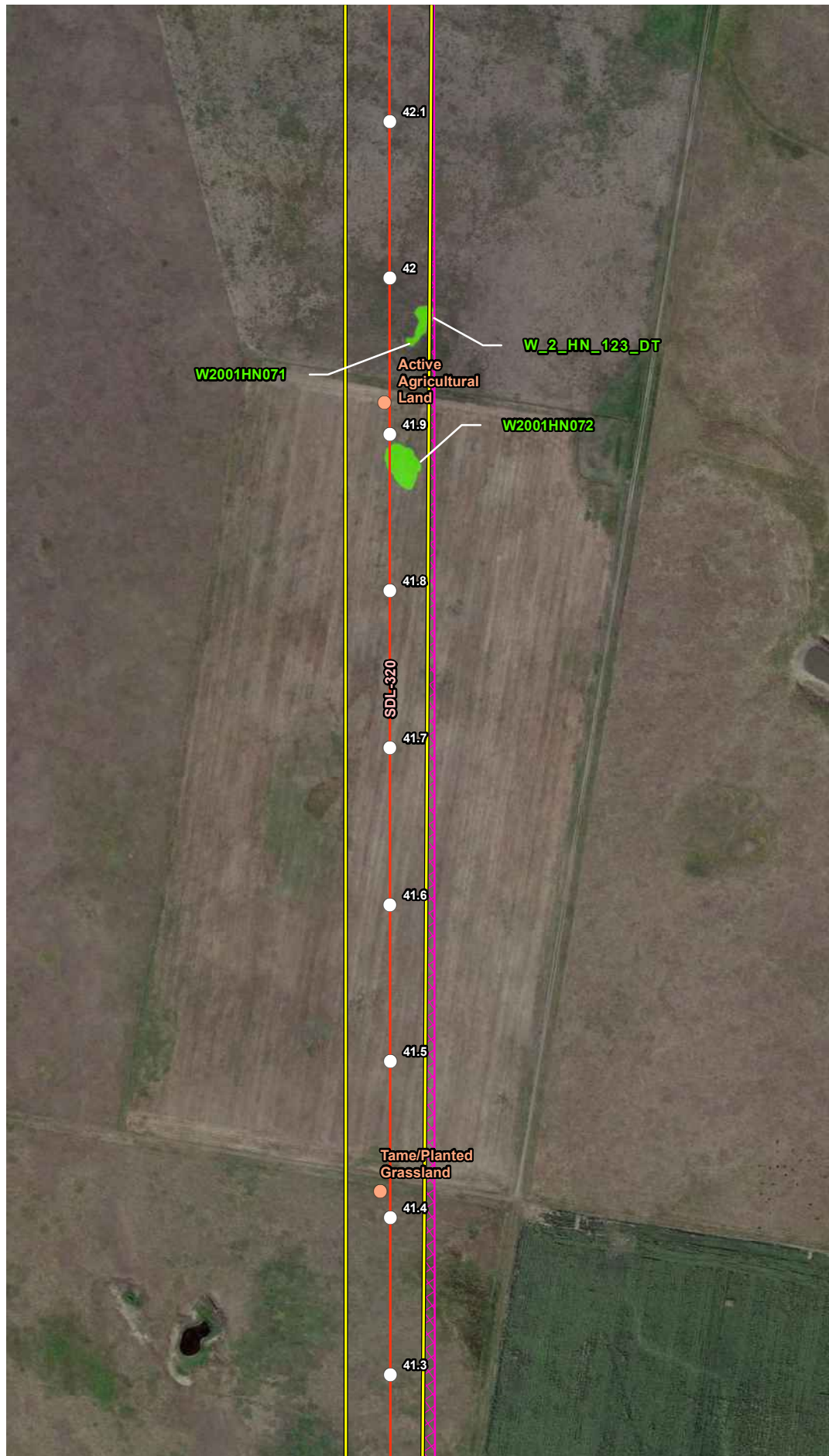
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 370 of 517

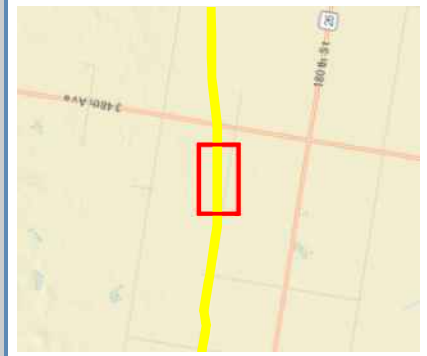
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0 250 500 Feet



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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
371
Sheet 371 of 517

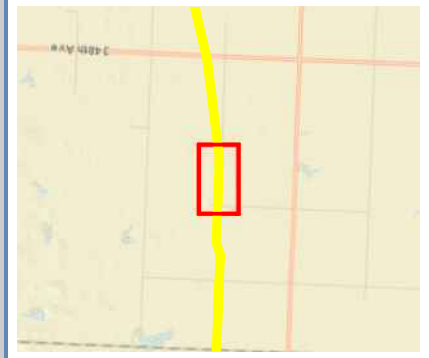
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0 250 500 Feet



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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
372
Sheet 372 of 517

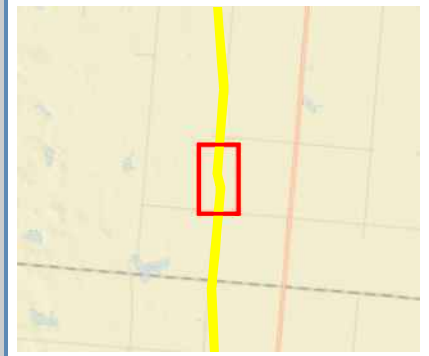
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0 250 500 Feet



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Figure Number:

2

Scale:
Scale: 1:6,000
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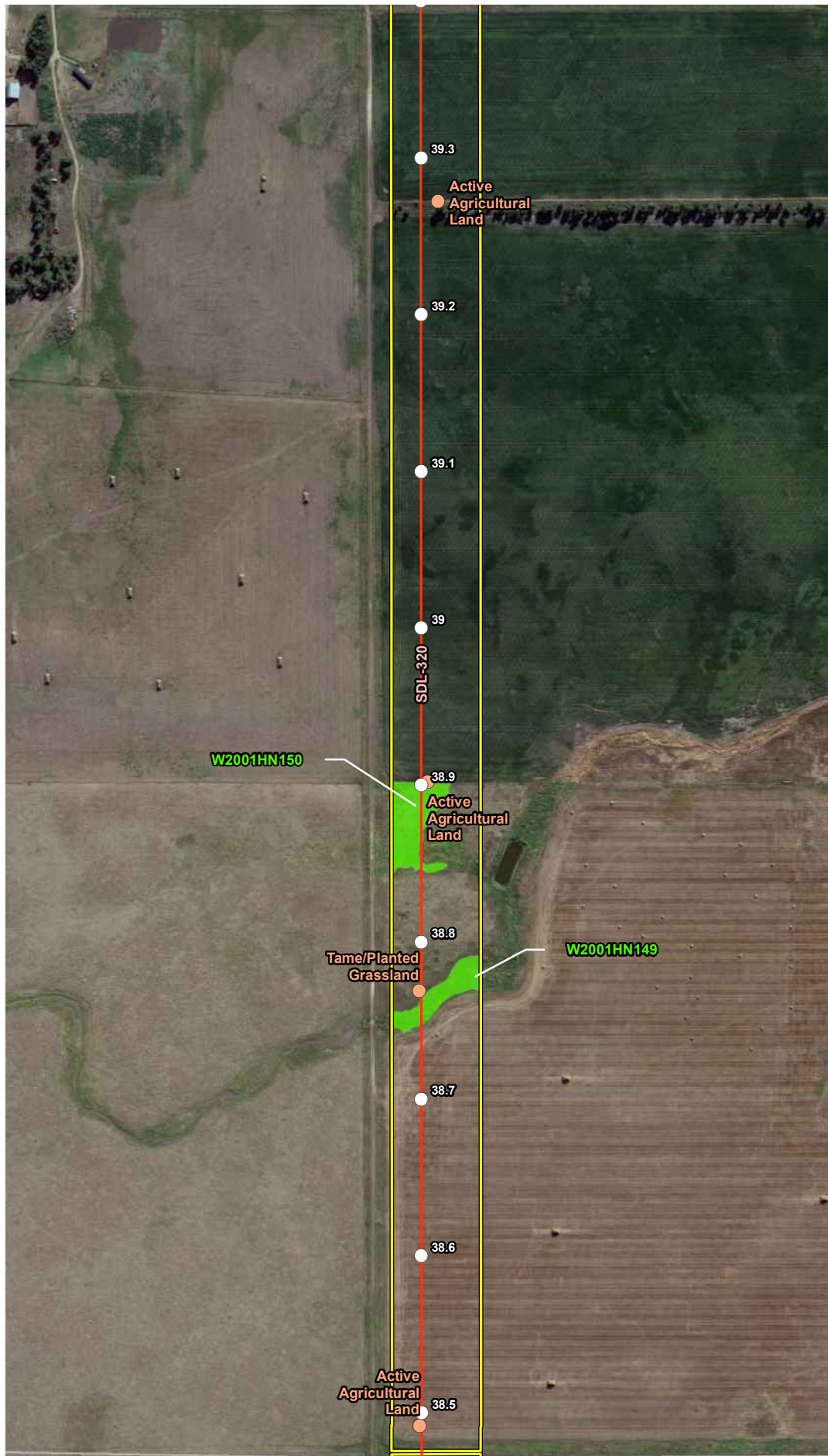
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 373 of 517

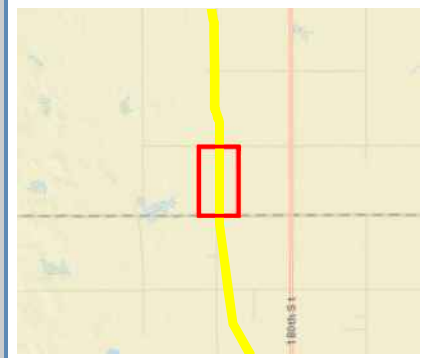
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0 250 500 Feet



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Figure Number: 2

Scale:
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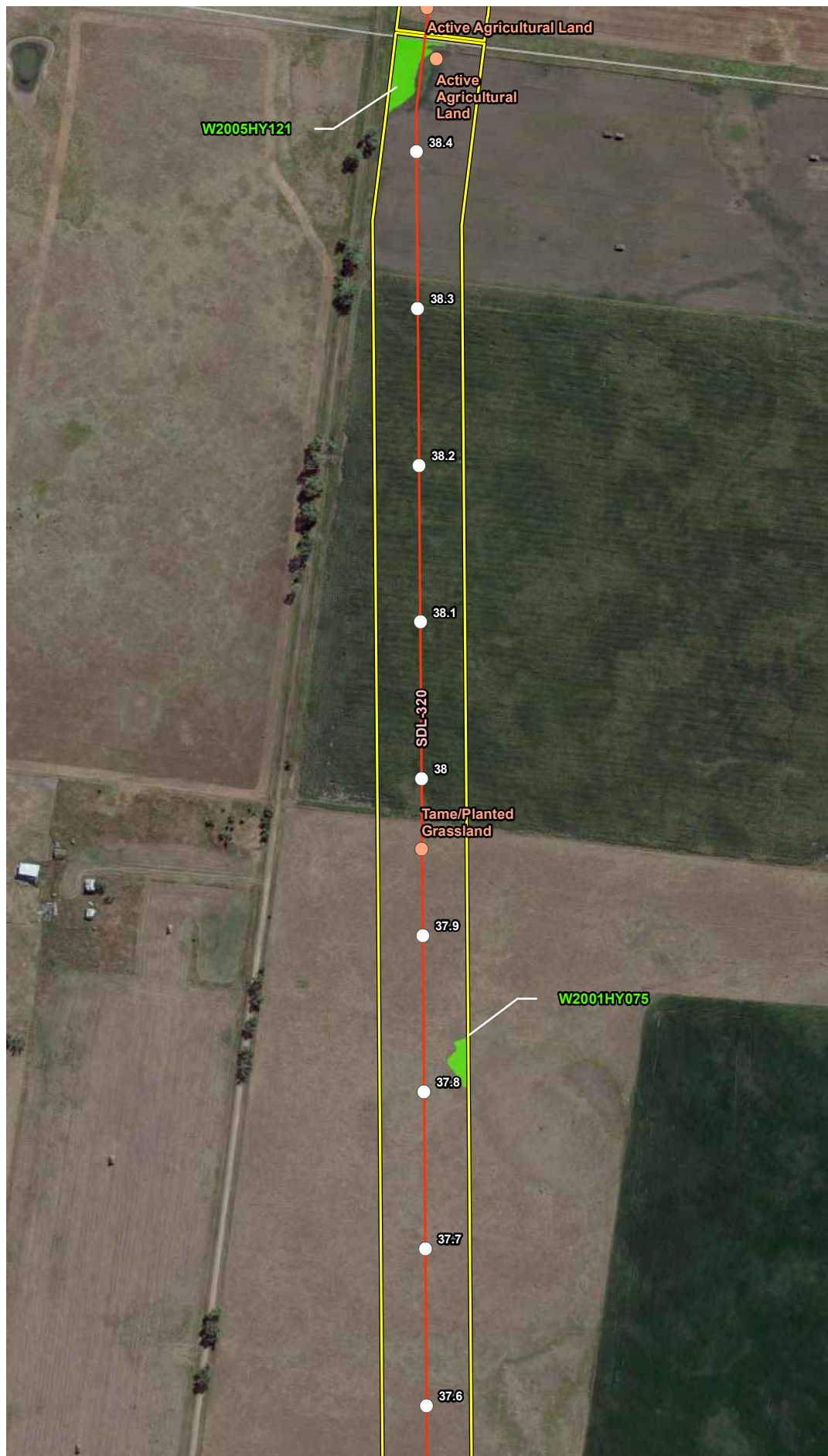
Projection:
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NAD 1983 UTM Zone 14N

Sheet:
374
Sheet 374 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
Scale: 1:6,000
1 inch = 500 feet

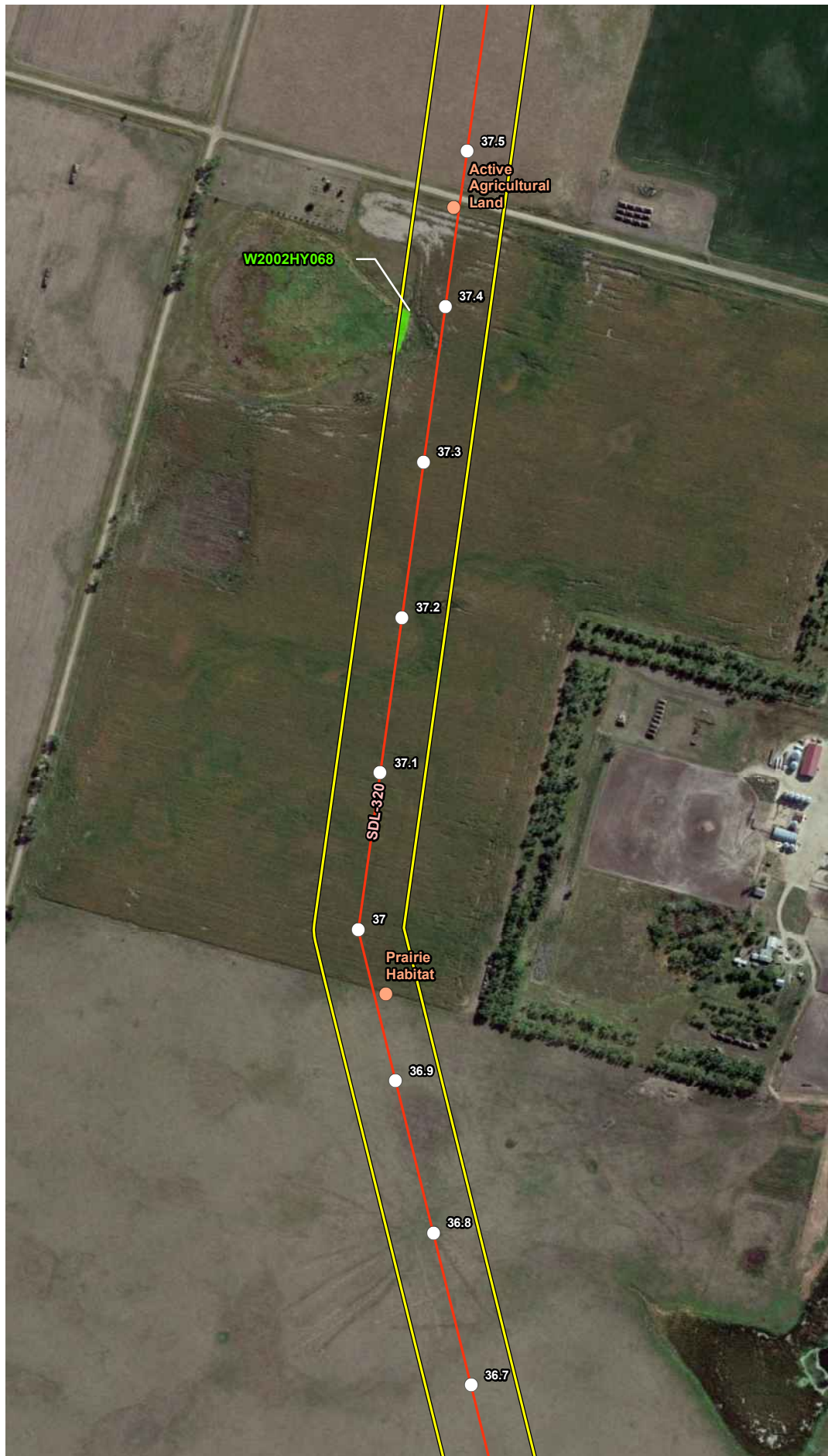
Projection:
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NAD 1983 UTM Zone 14N

Sheet:
375
Sheet 375 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



LEGEND

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- ▭ State Boundary

0 250 500
Feet



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2

Scale:
Scale: 1:6,000
1 inch = 500 feet

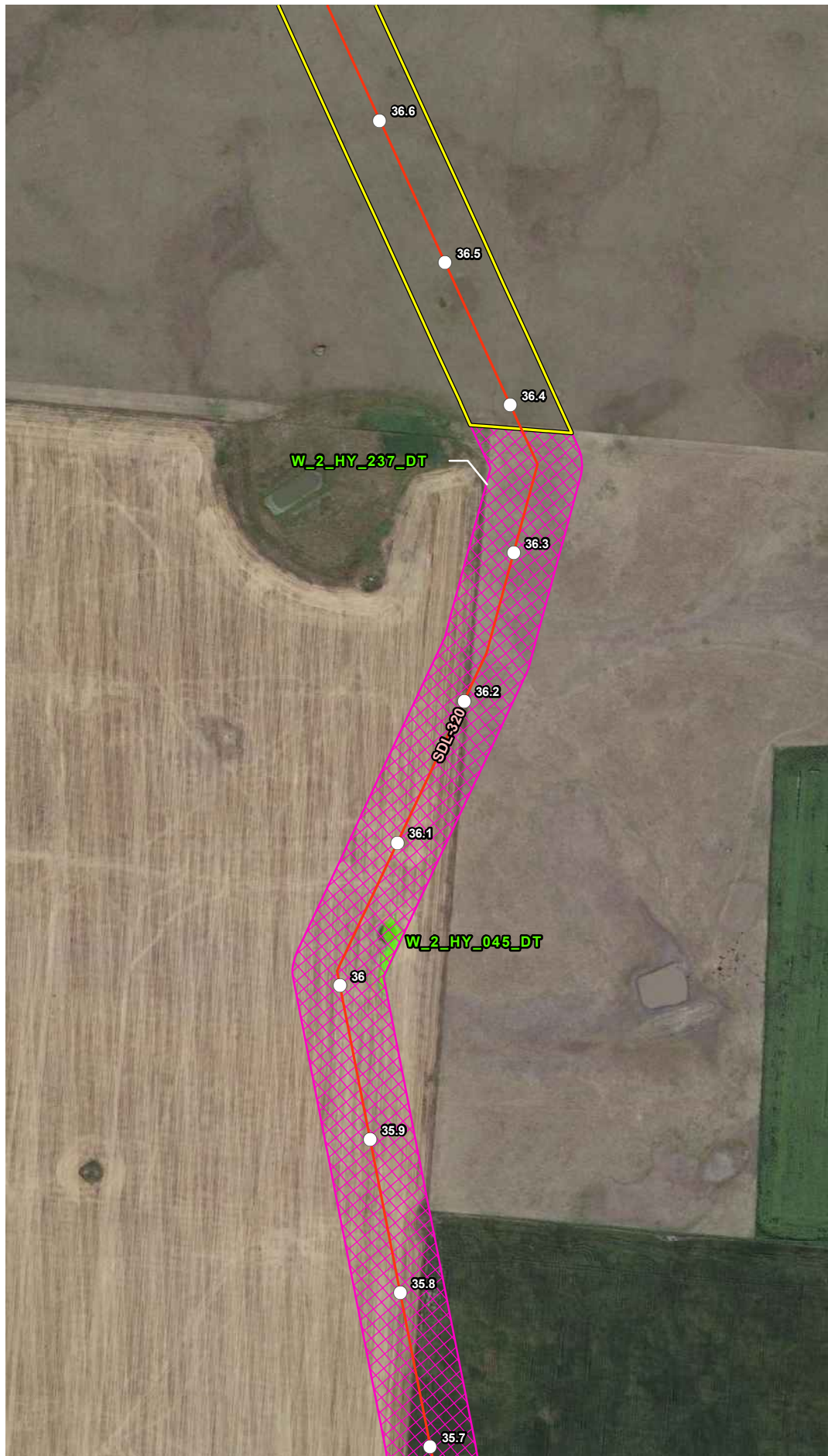
Projection:
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NAD 1983 UTM Zone 14N

Sheet:
376
Sheet 376 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number:
2

Scale:
Scale: 1:6,000
1 inch = 500 feet

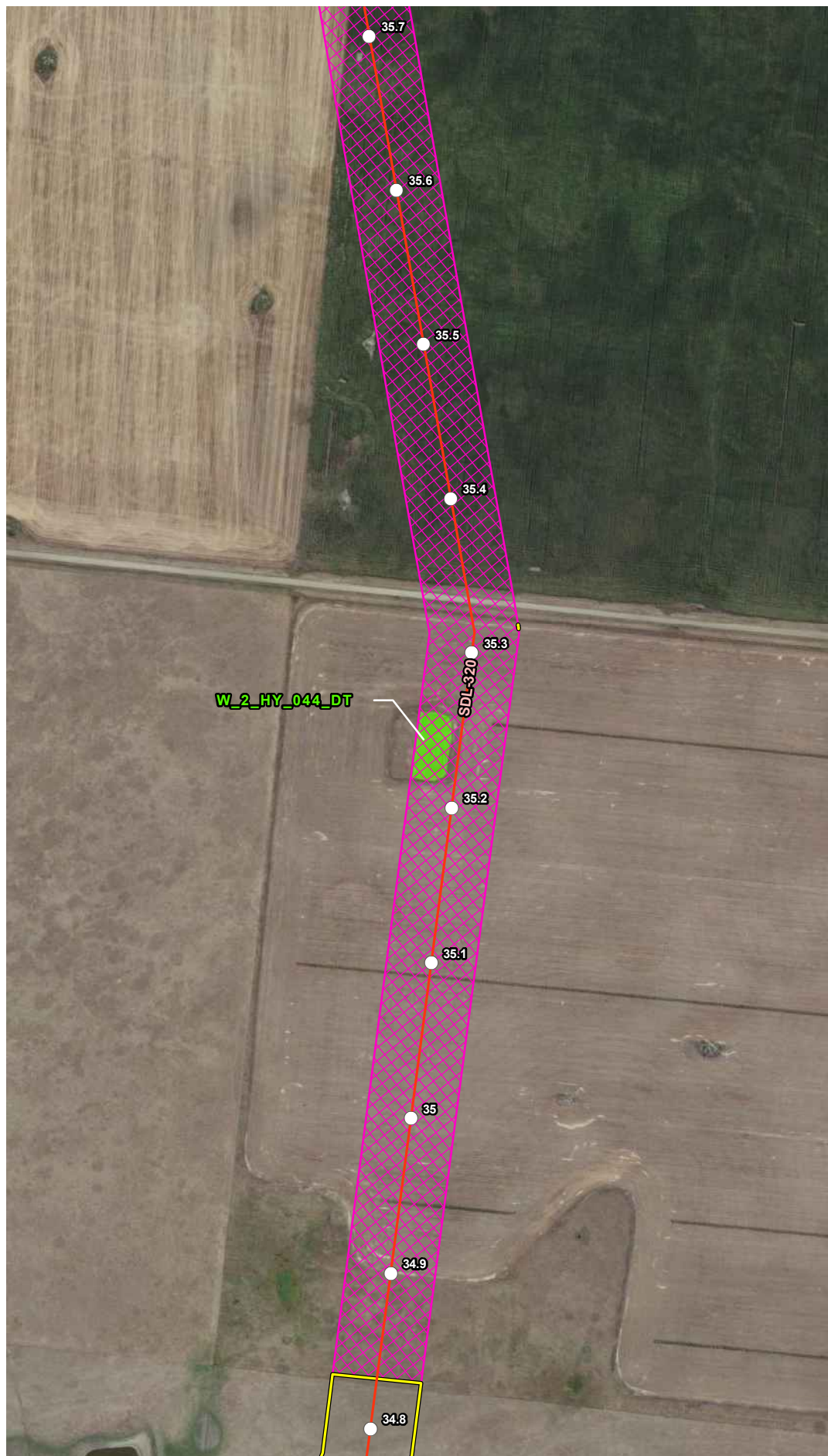
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NAD 1983 UTM Zone 14N

Sheet:
377
Sheet 377 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet

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Figure Number:

2

Scale:
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1 inch = 500 feet

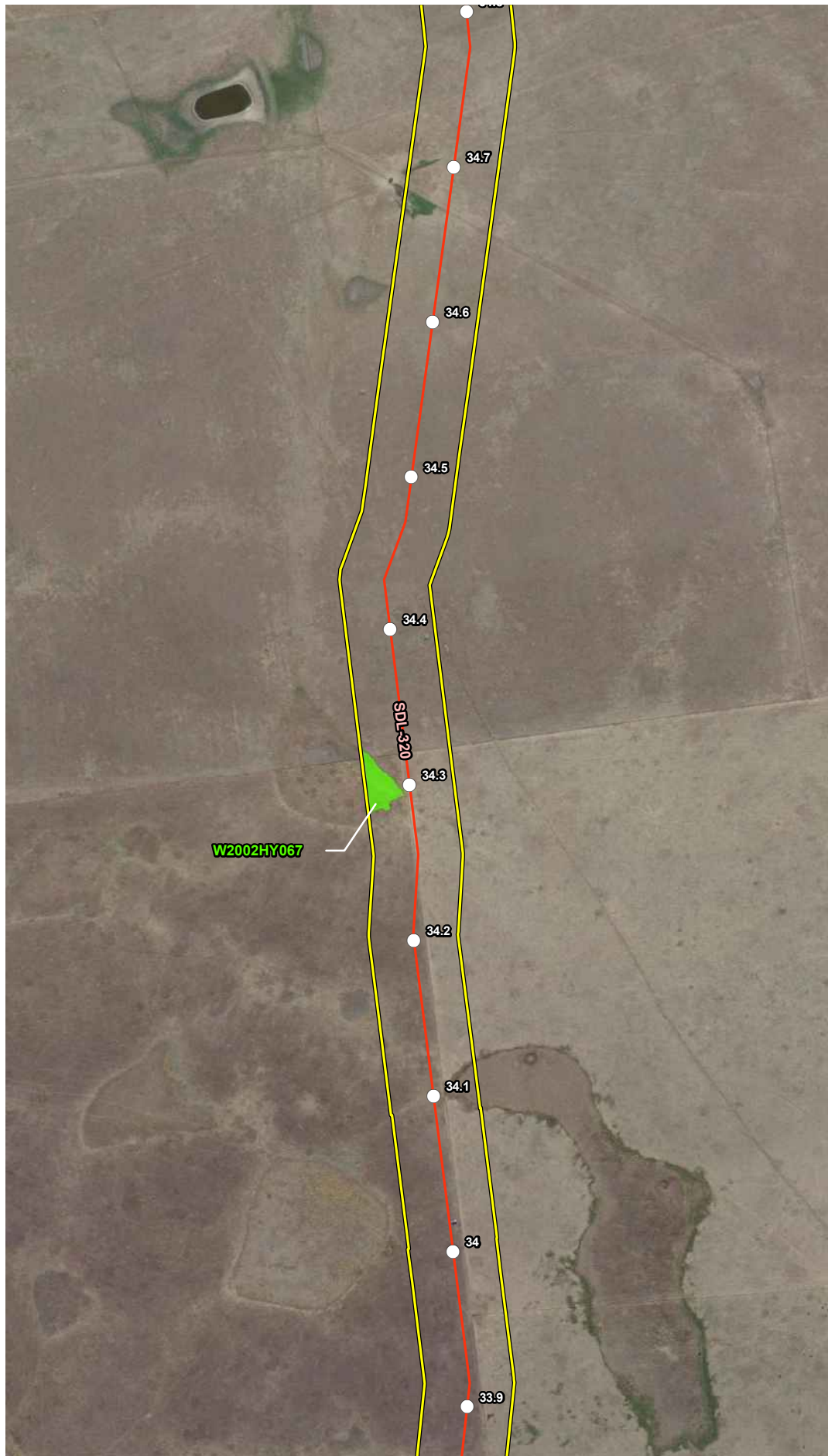
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
378
Sheet 378 of 517

Drawing Number:
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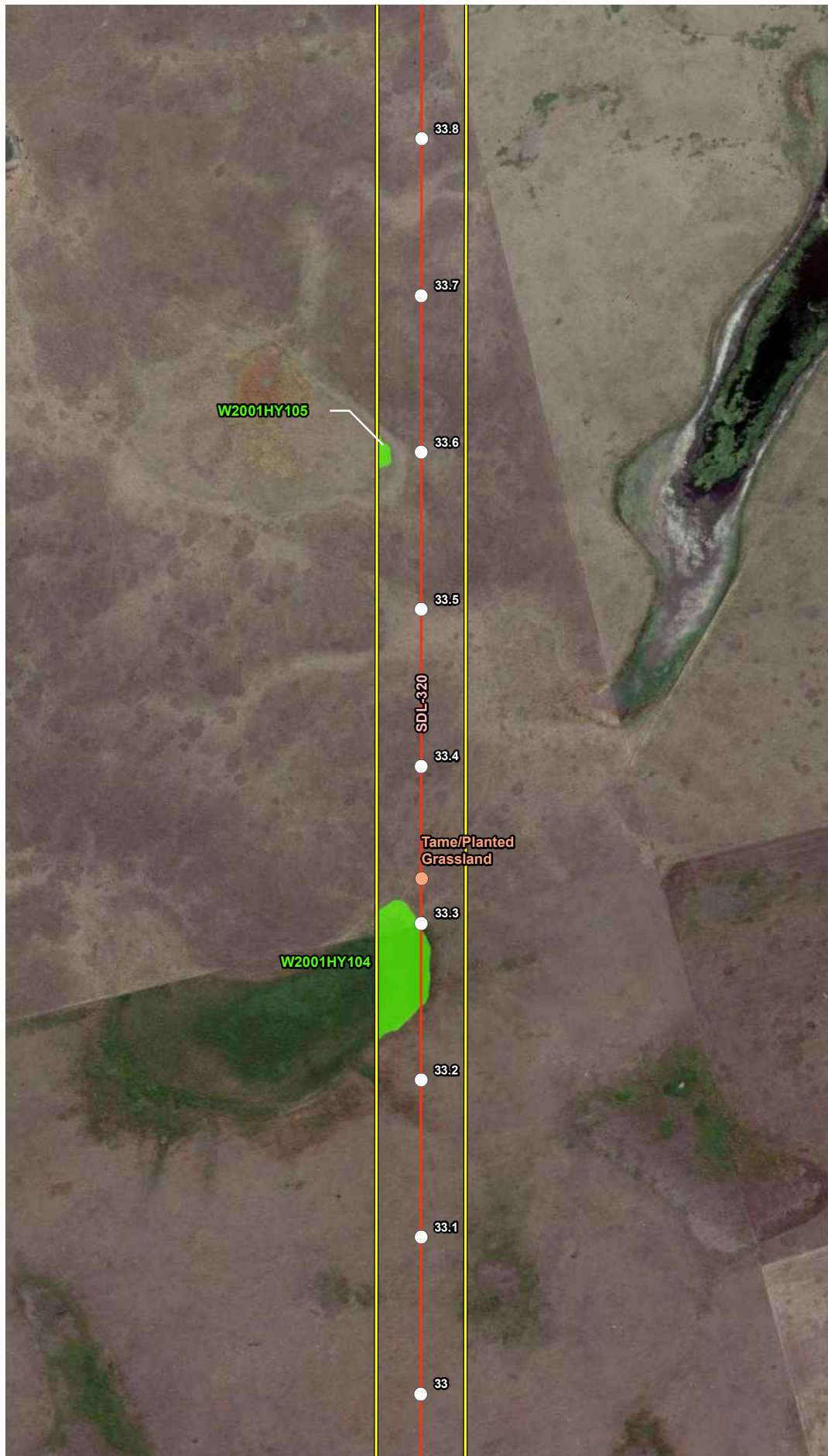
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NAD 1983 UTM Zone 14N

Sheet:
379
Sheet 379 of 517

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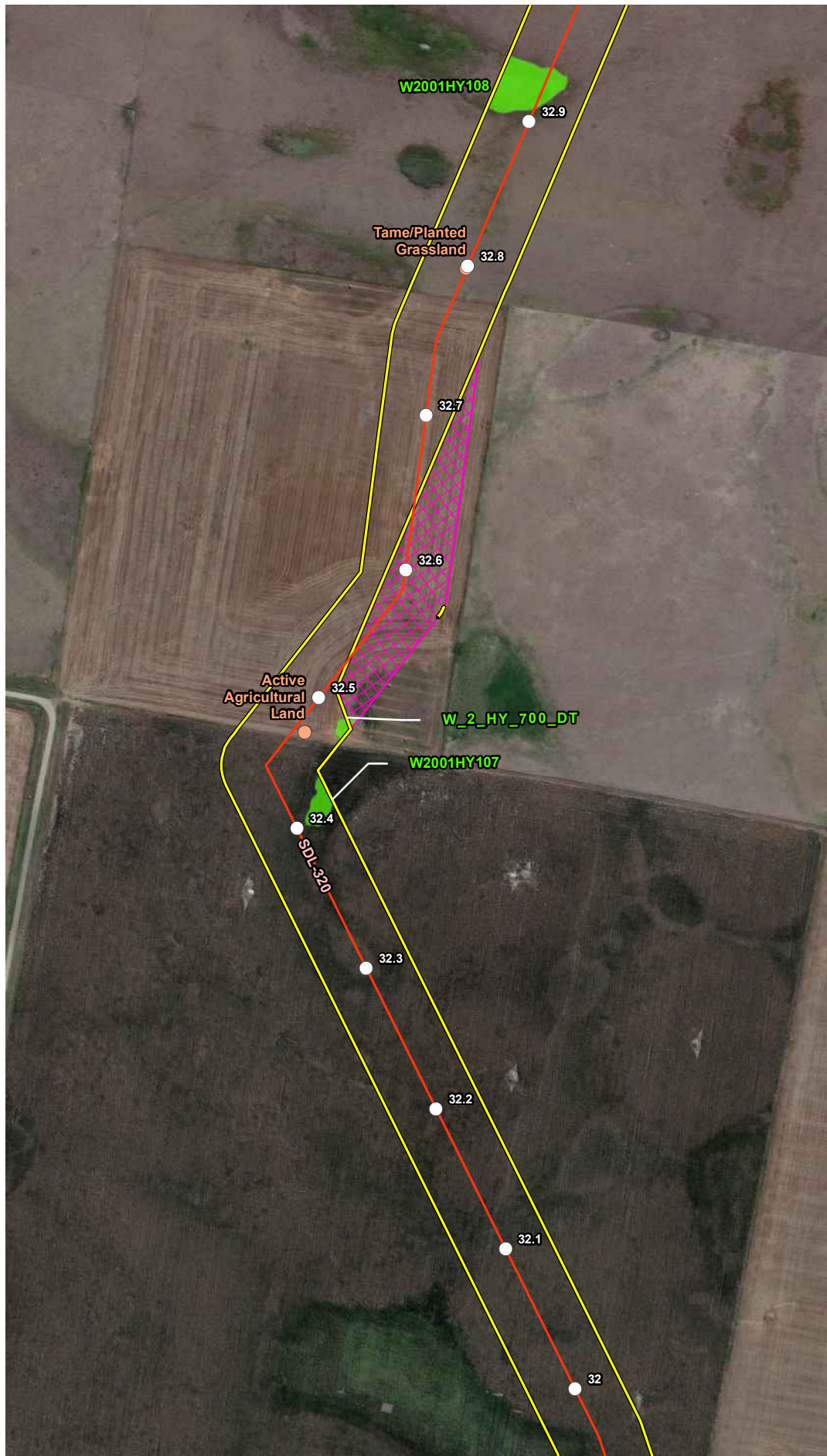
Projection:
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NAD 1983 UTM Zone 14N

Sheet:
380
Sheet 380 of 517

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AERIAL MAP



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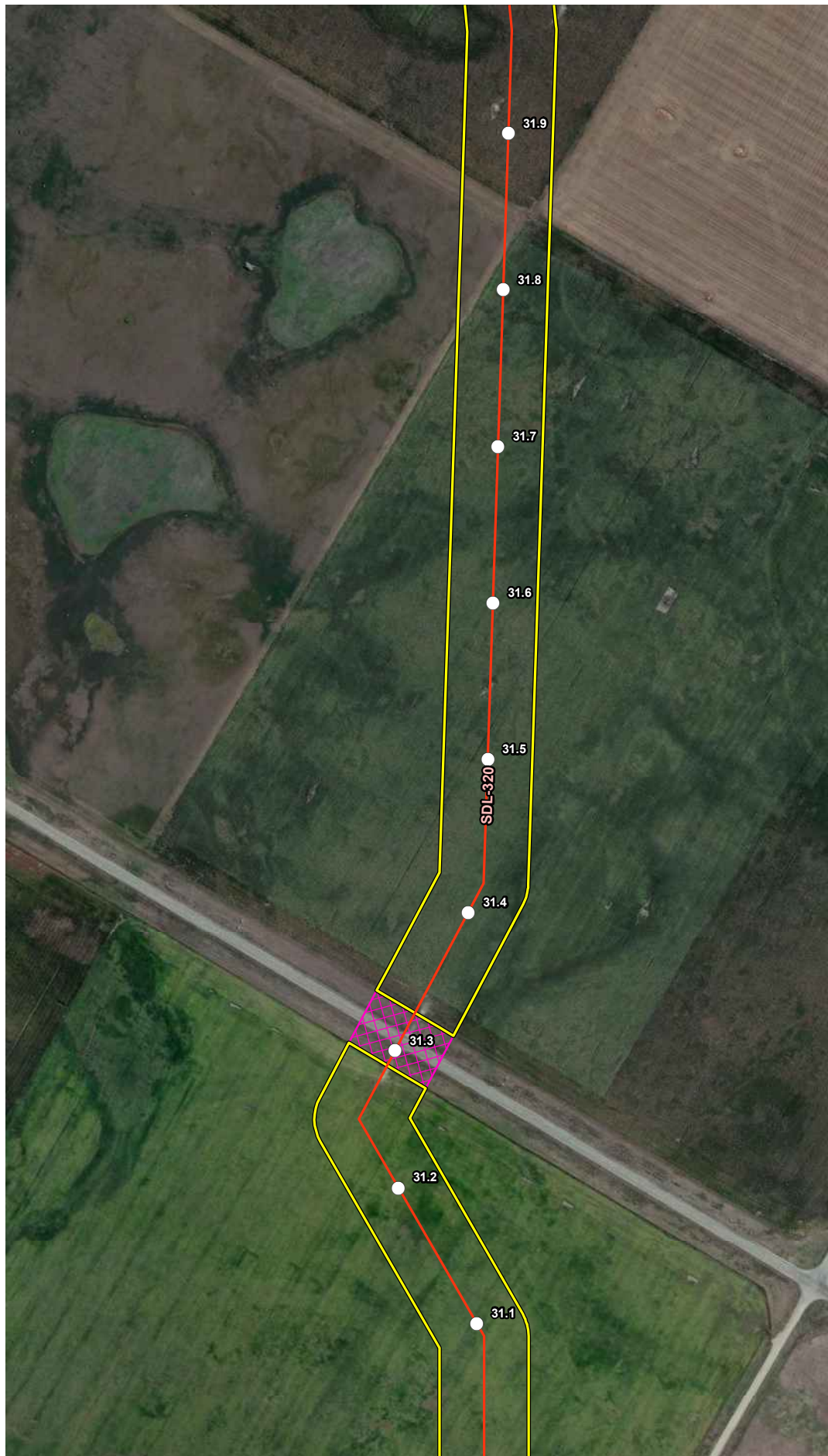
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NAD 1983 UTM Zone 14N

Sheet:
381
Sheet 381 of 517

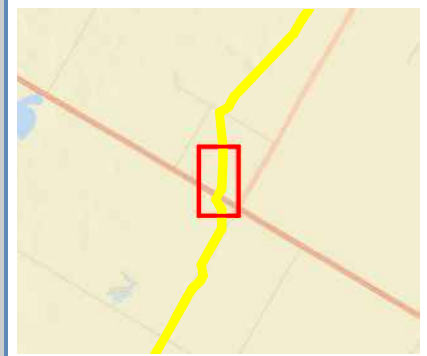
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Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
382
Sheet 382 of 517

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AERIAL MAP



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Figure Number:

2

Scale:

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Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

383
Sheet 383 of 517

Drawing Number:

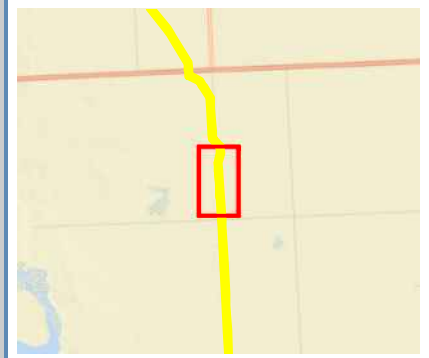
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Figure Number: 2

Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
384
Sheet 384 of 517

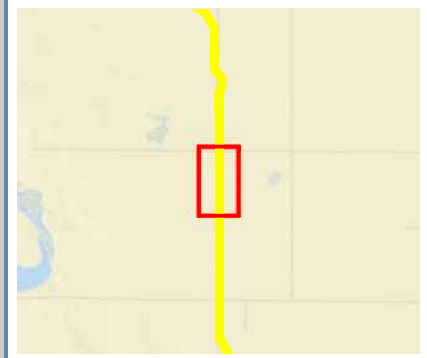
Drawing Number:
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet



REVISIONS

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1A - Revision		
Revision description		
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Sheet:
385
Sheet 385 of 517

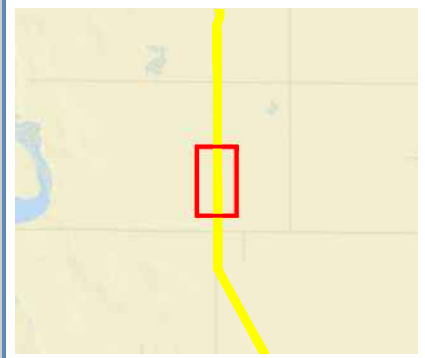
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Sheet:
386
Sheet 386 of 517

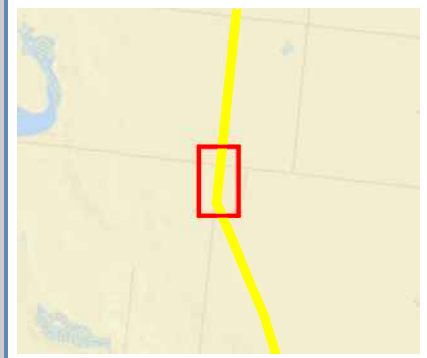
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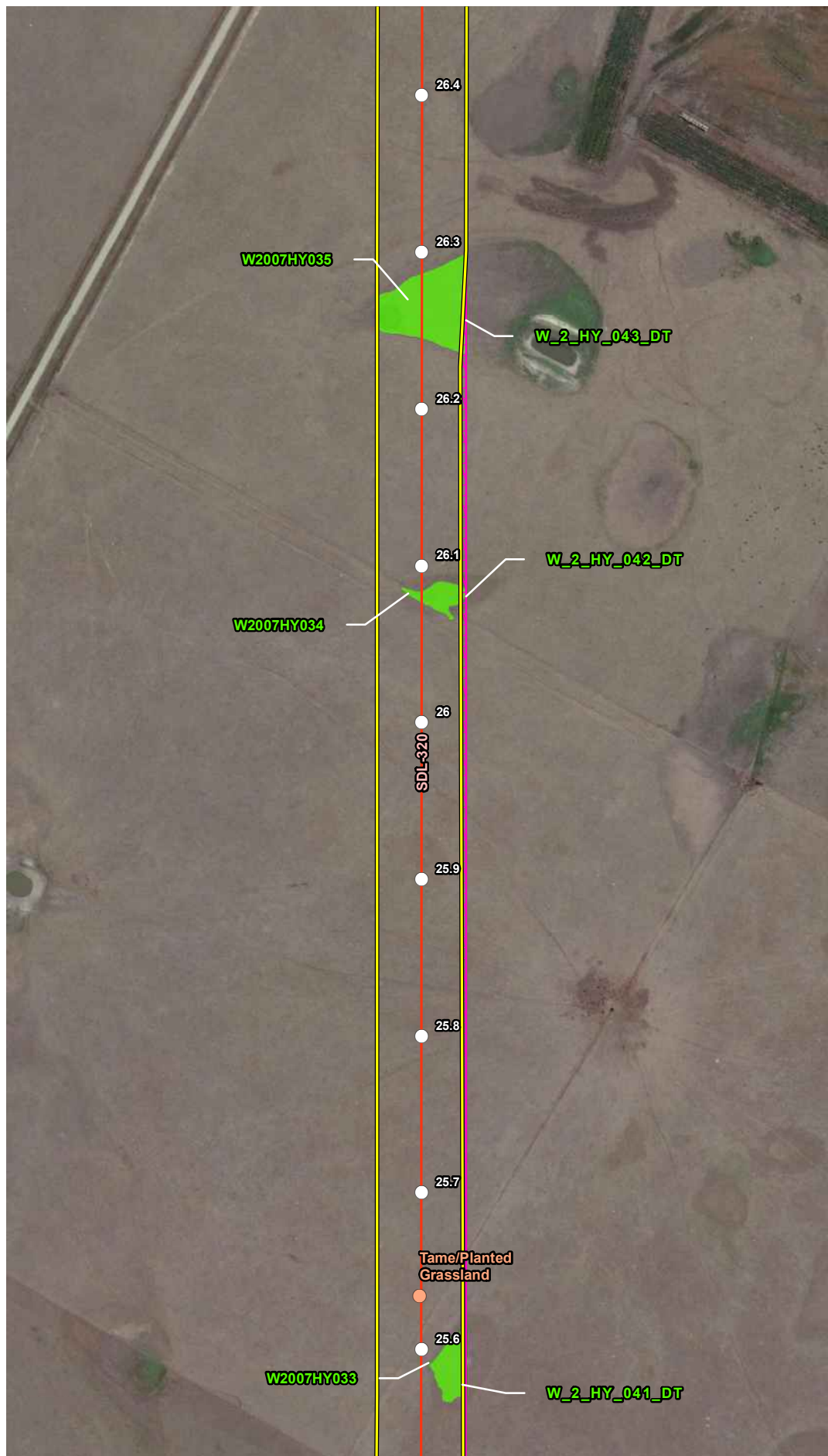
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Sheet 387 of 517

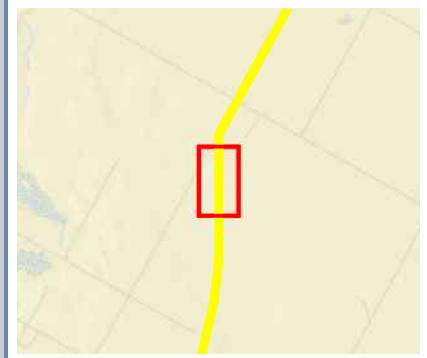
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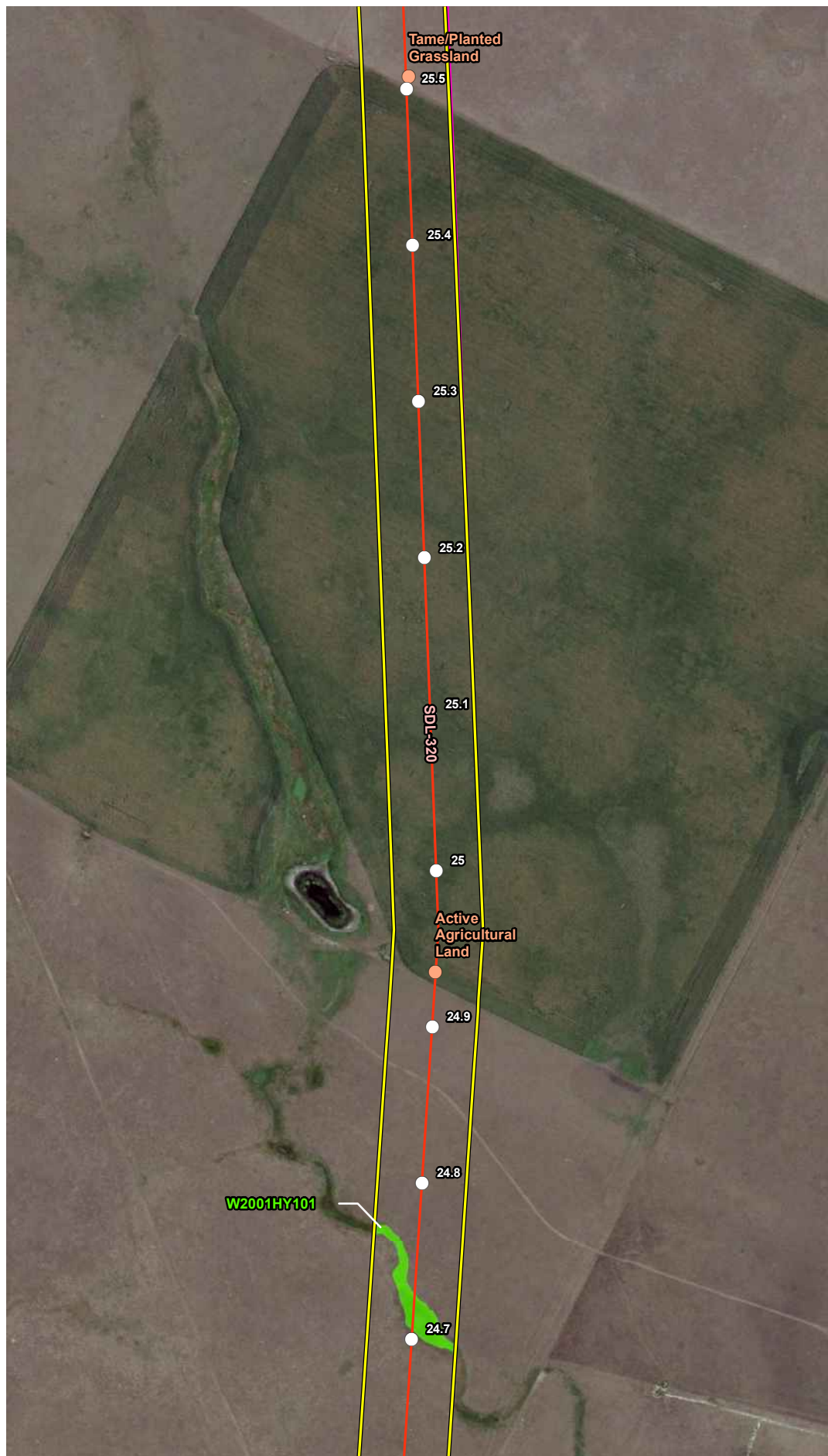
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Sheet 388 of 517

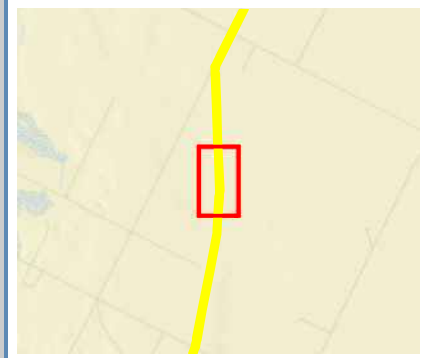
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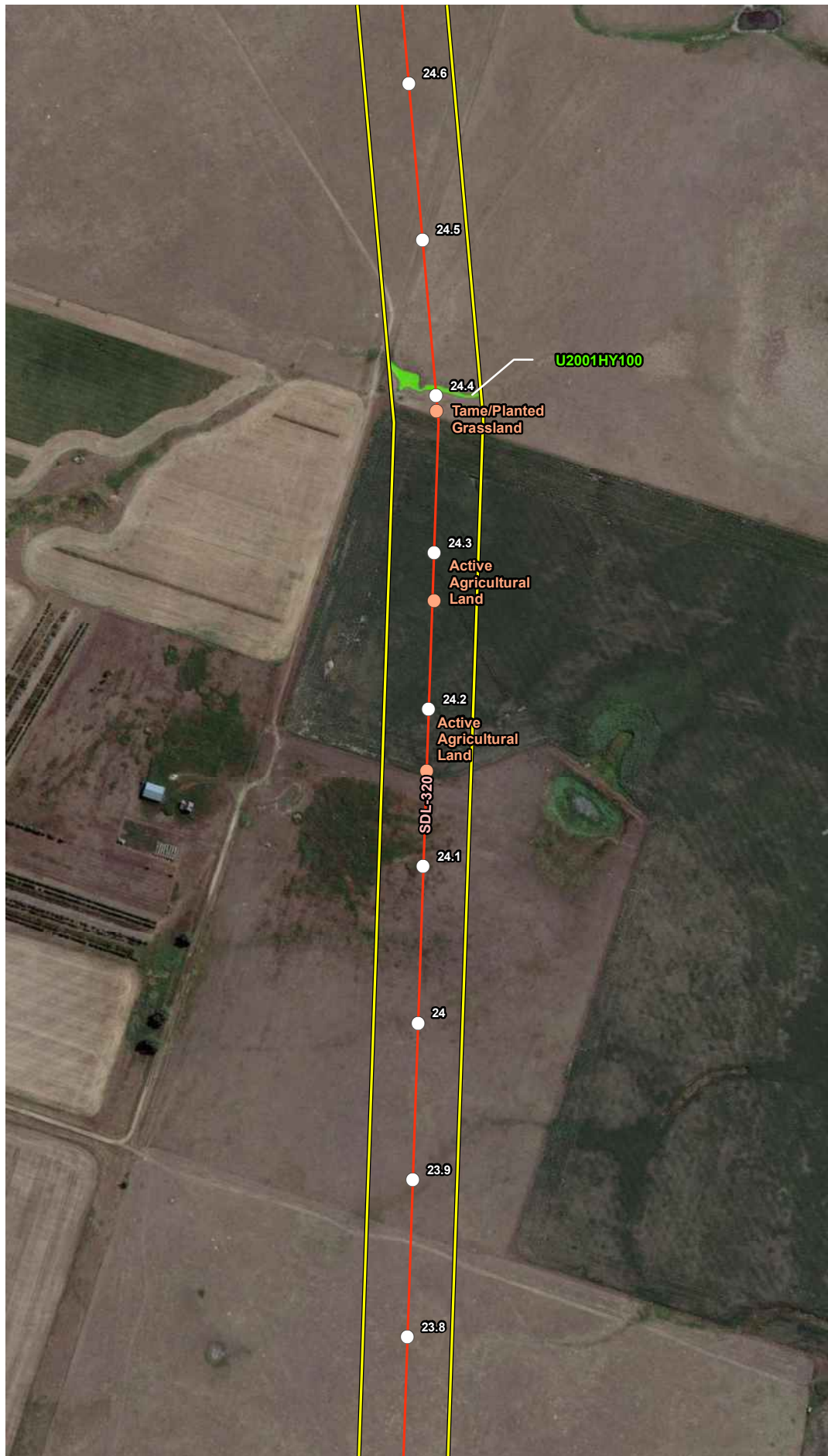
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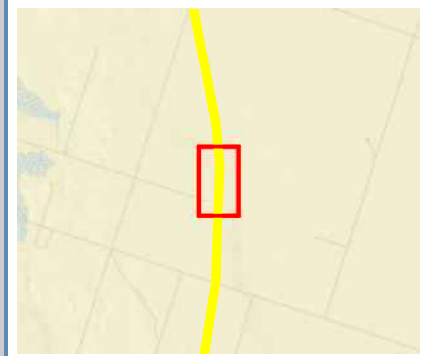
Sheet:
389
Sheet 389 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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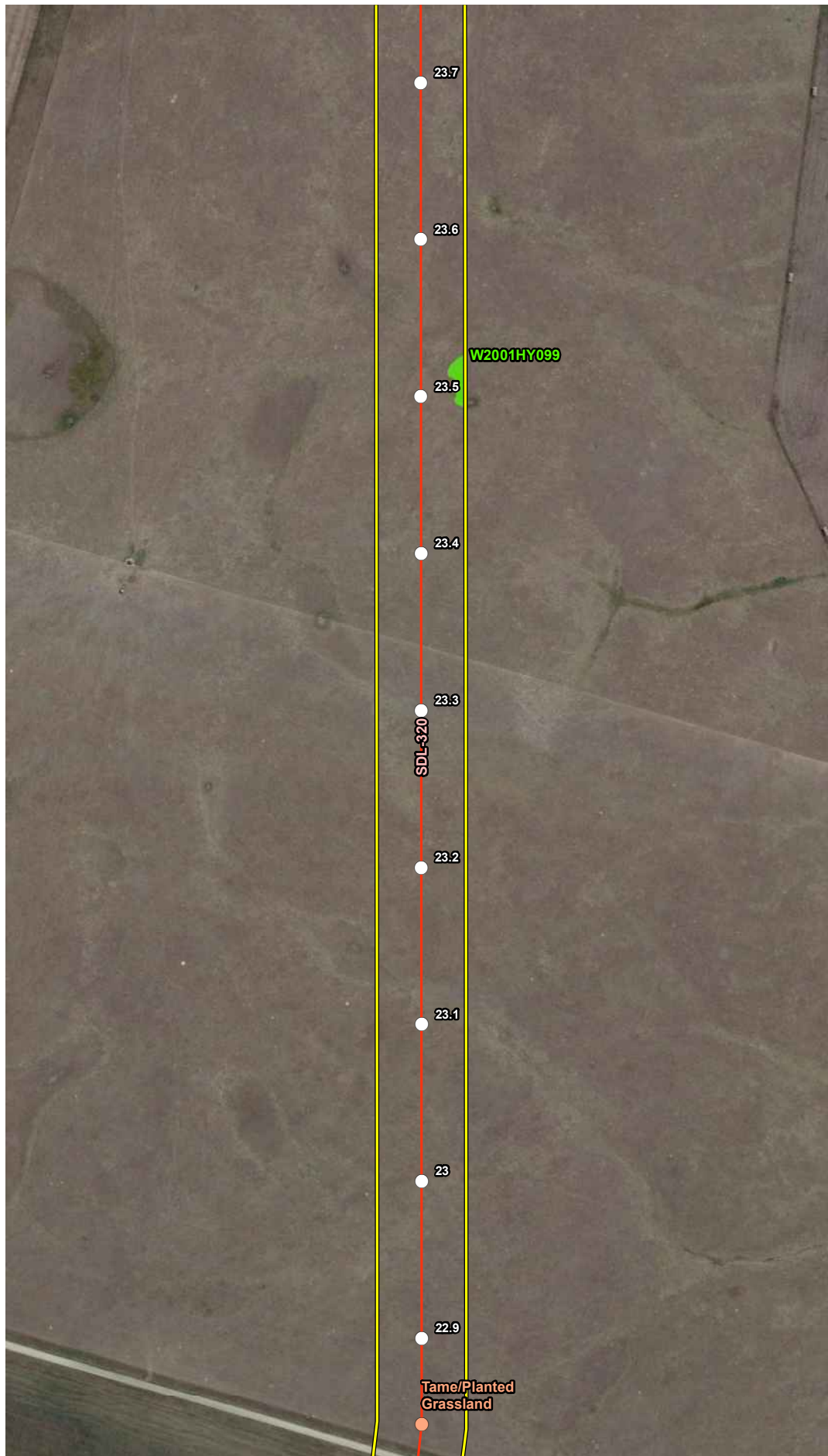
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Sheet:
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Sheet 390 of 517

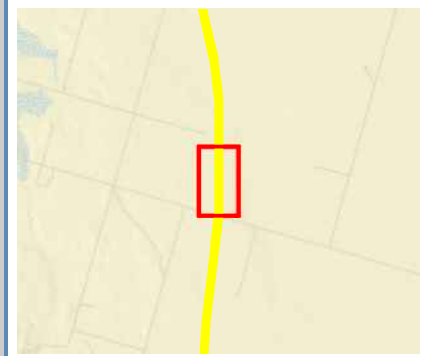
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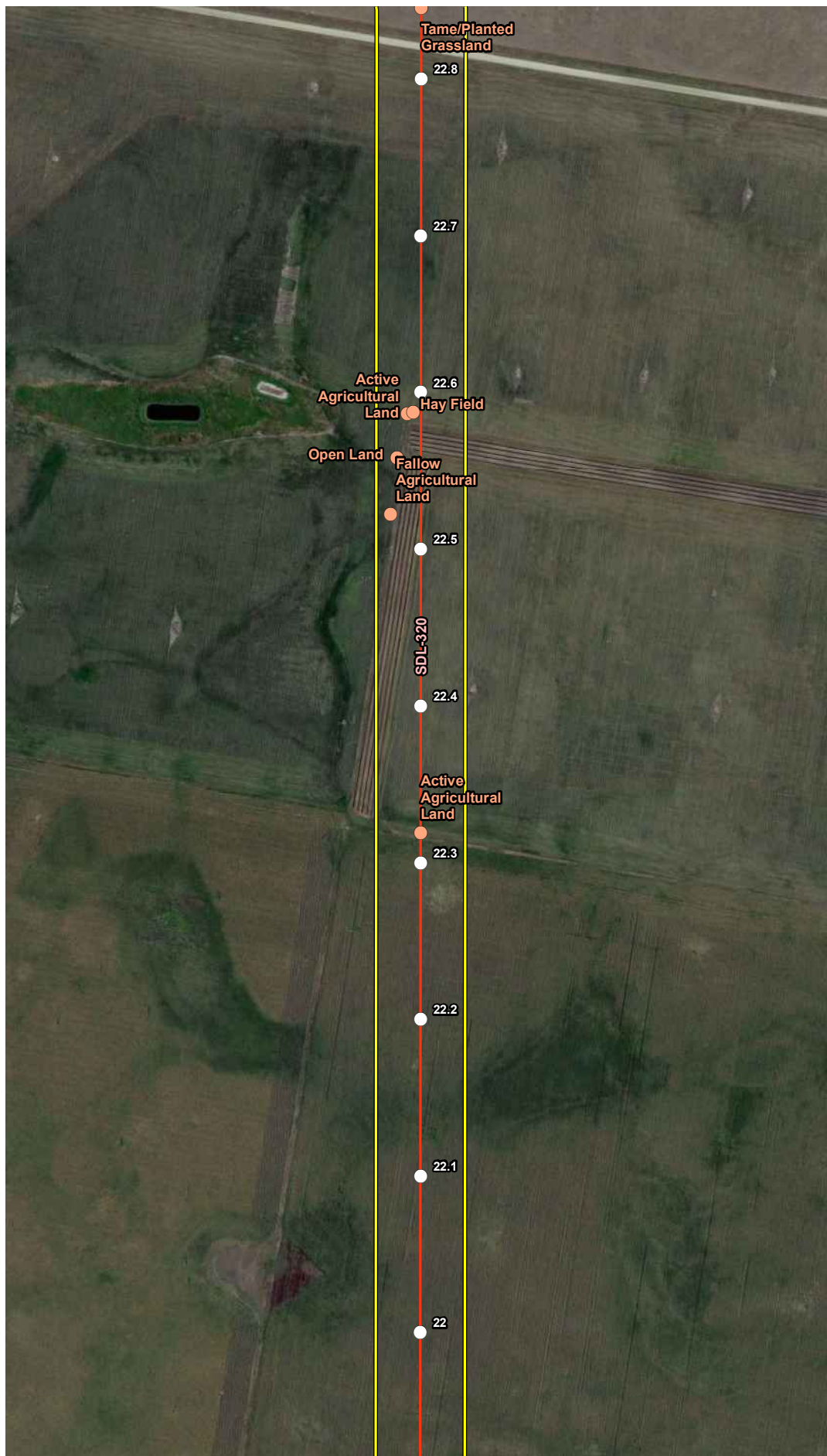
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Sheet:
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Sheet 391 of 517

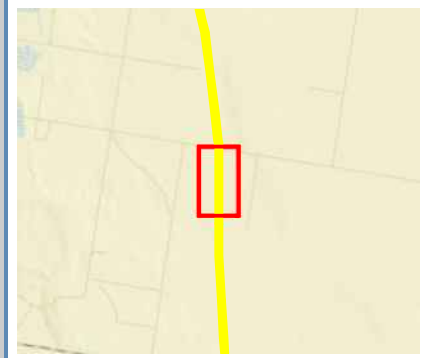
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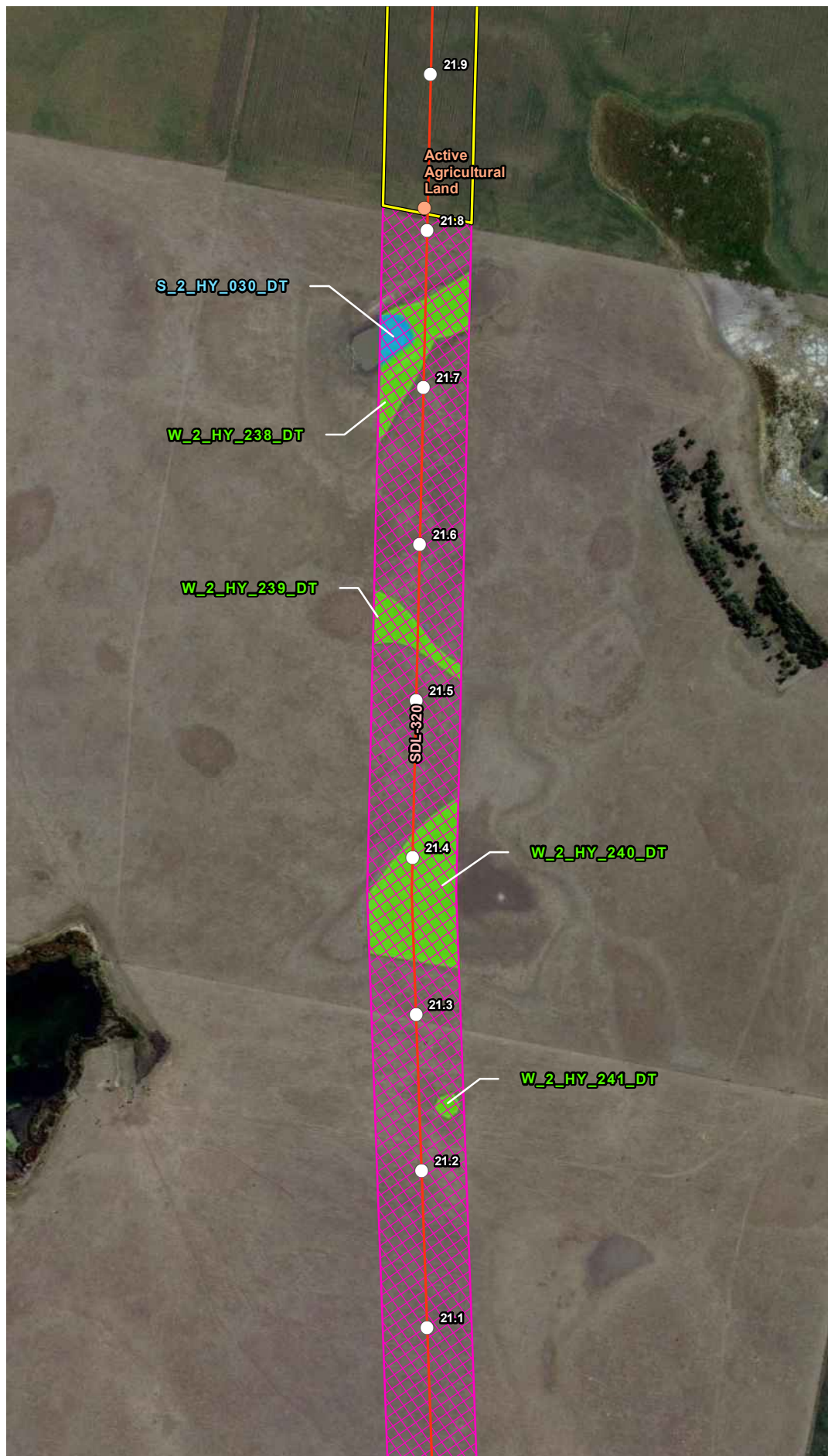
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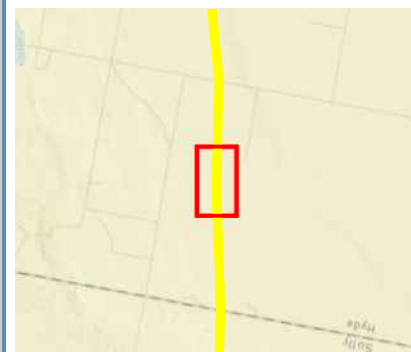
Sheet:
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Sheet 392 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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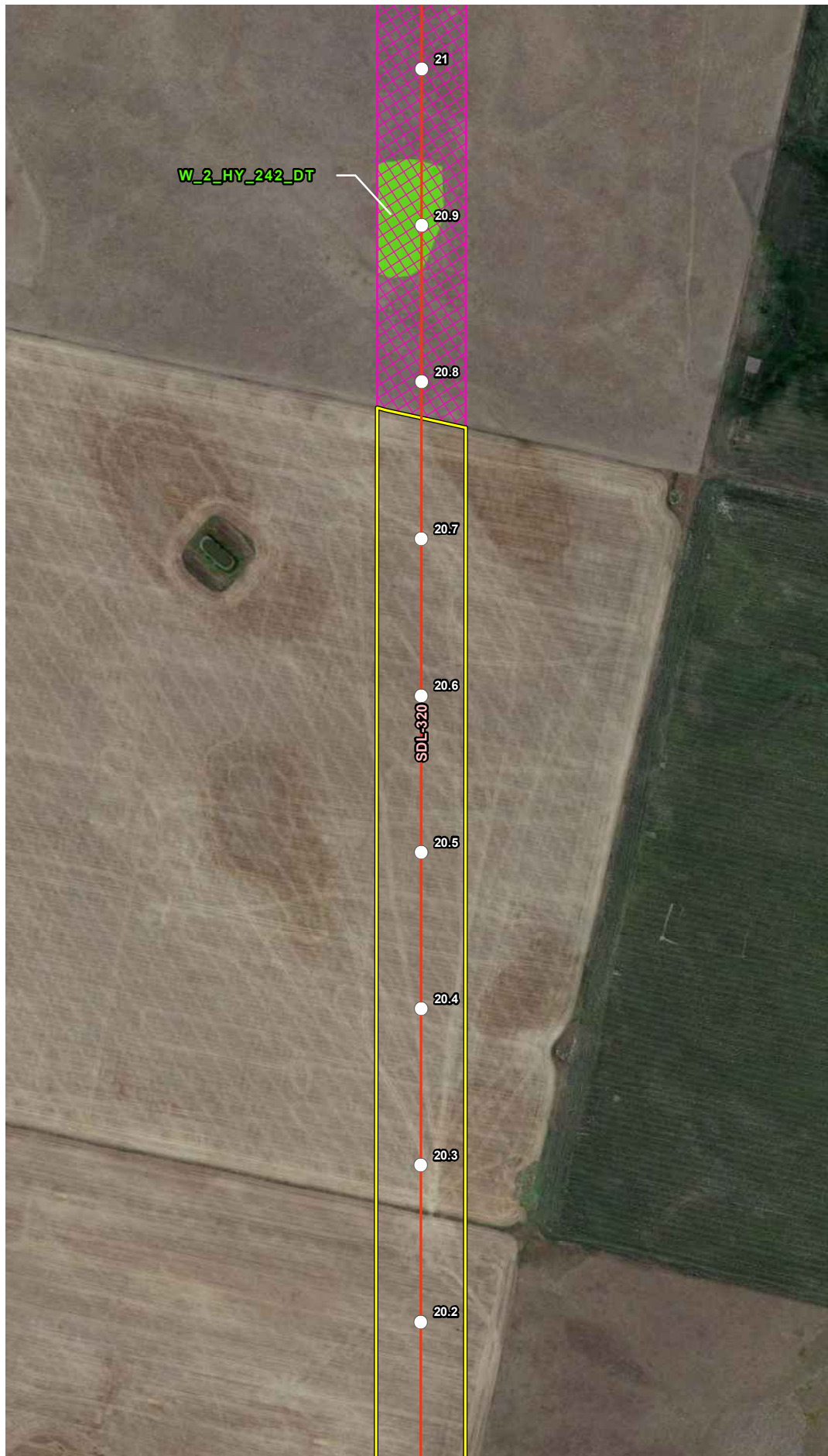
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Sheet 393 of 517

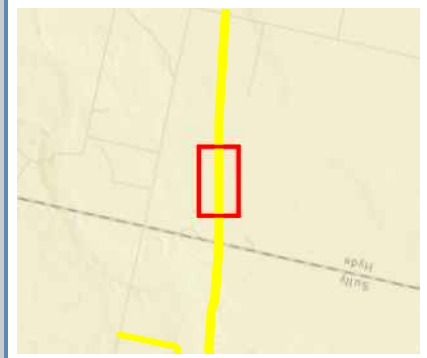
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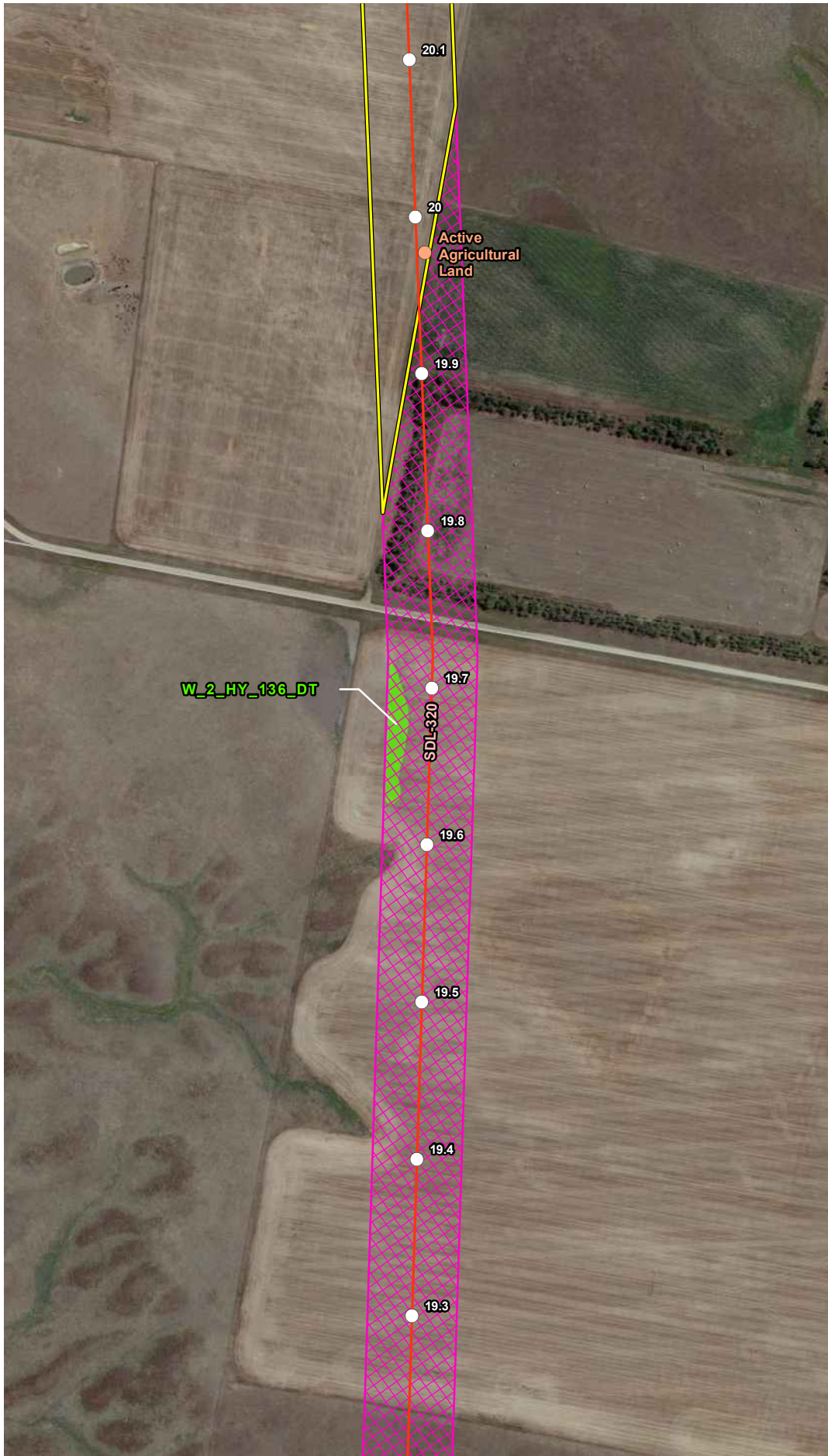
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Sheet 394 of 517

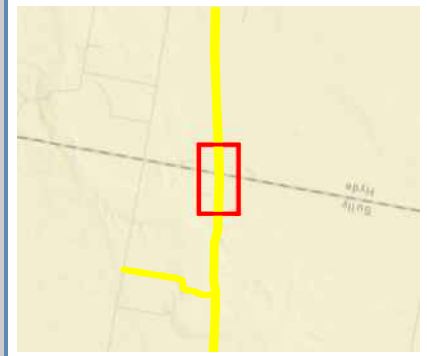
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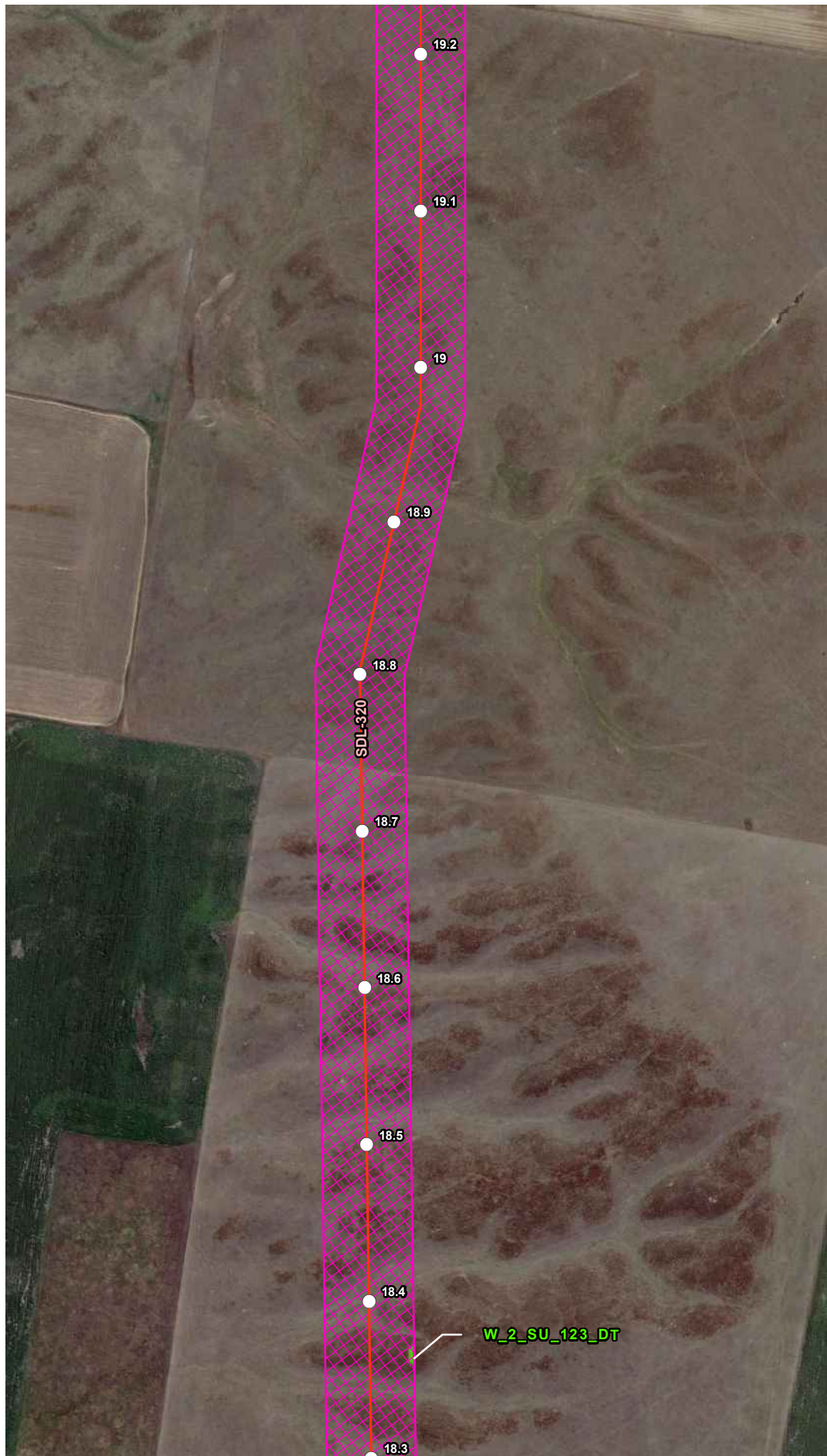
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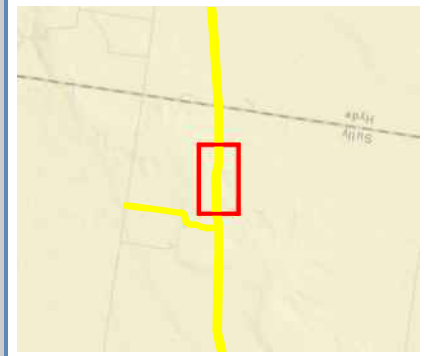
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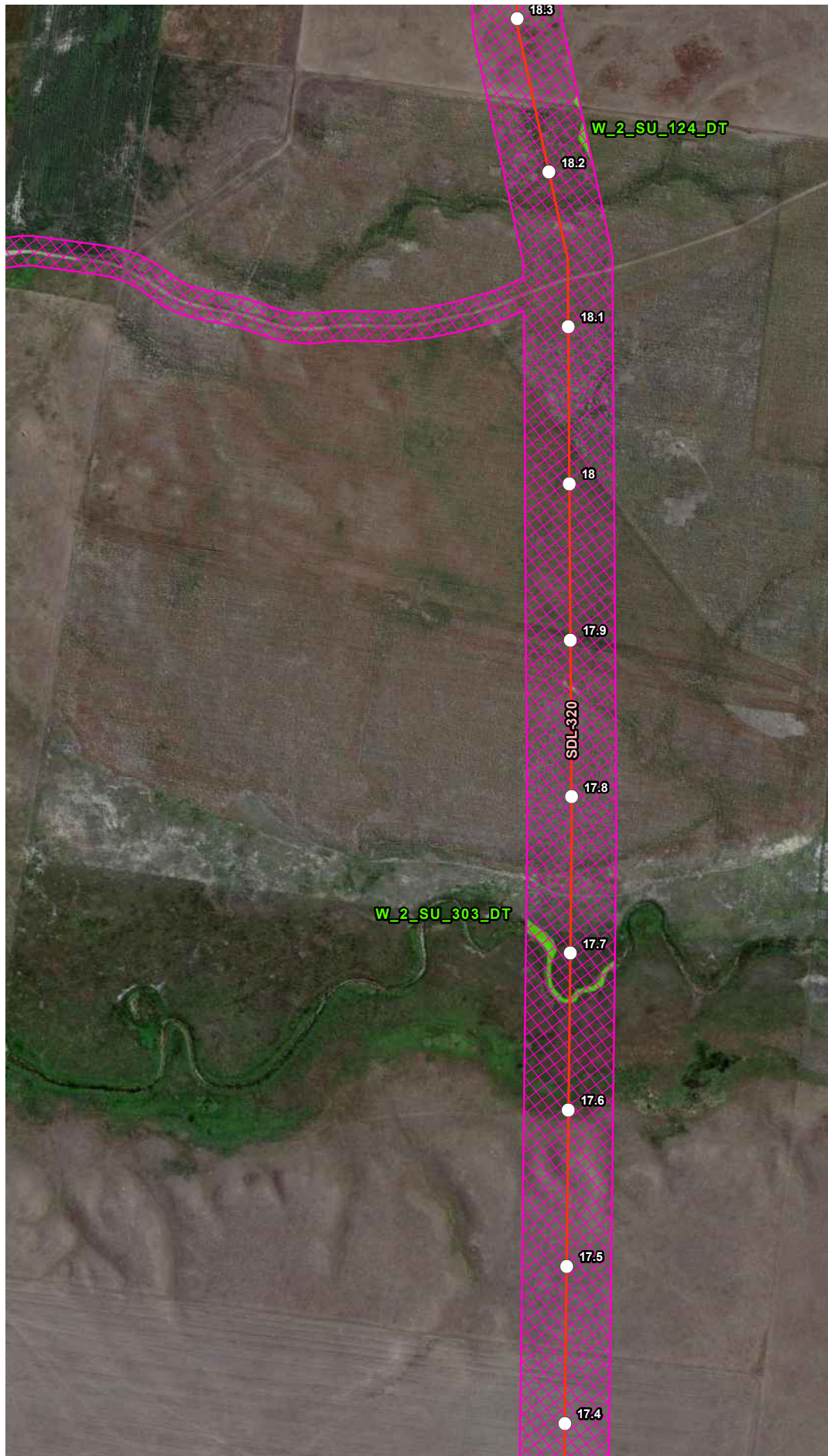
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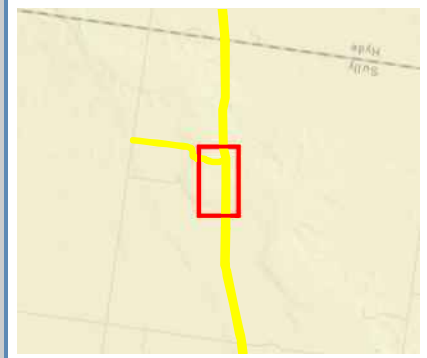
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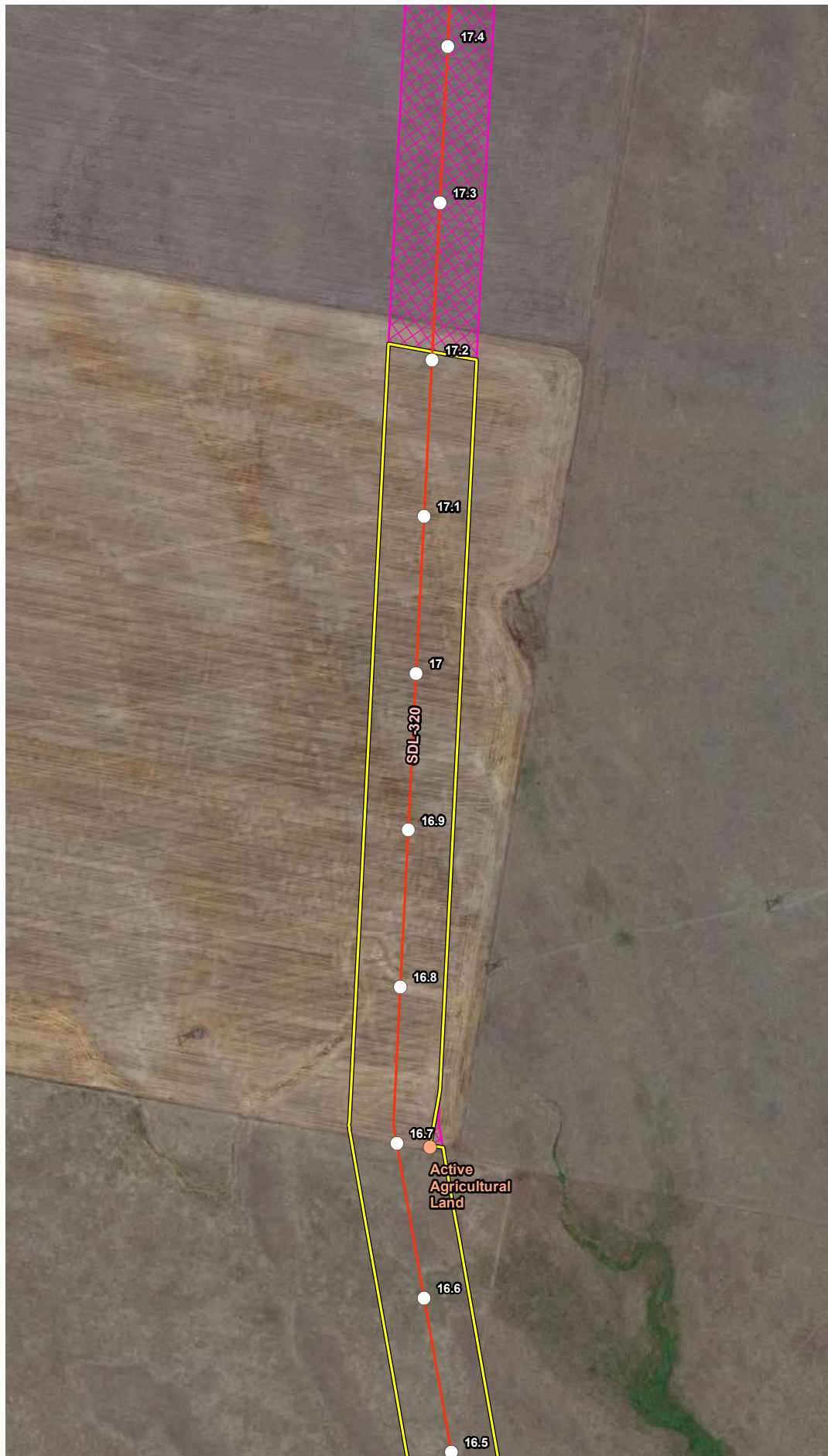
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Sheet 397 of 517

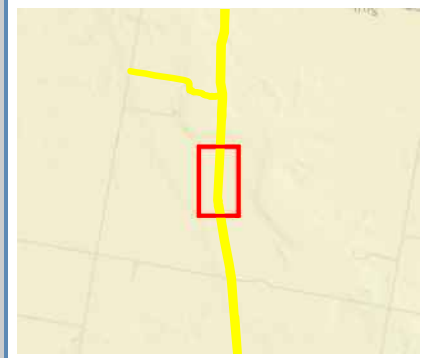
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Sheet:
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Sheet 398 of 517

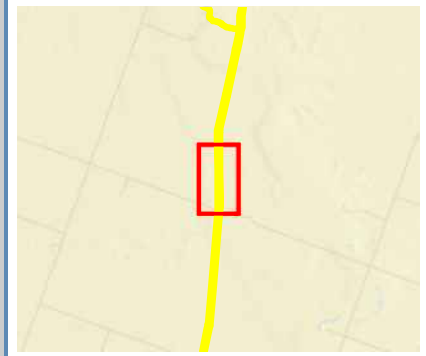
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VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

Revision description

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Figure Number:

2

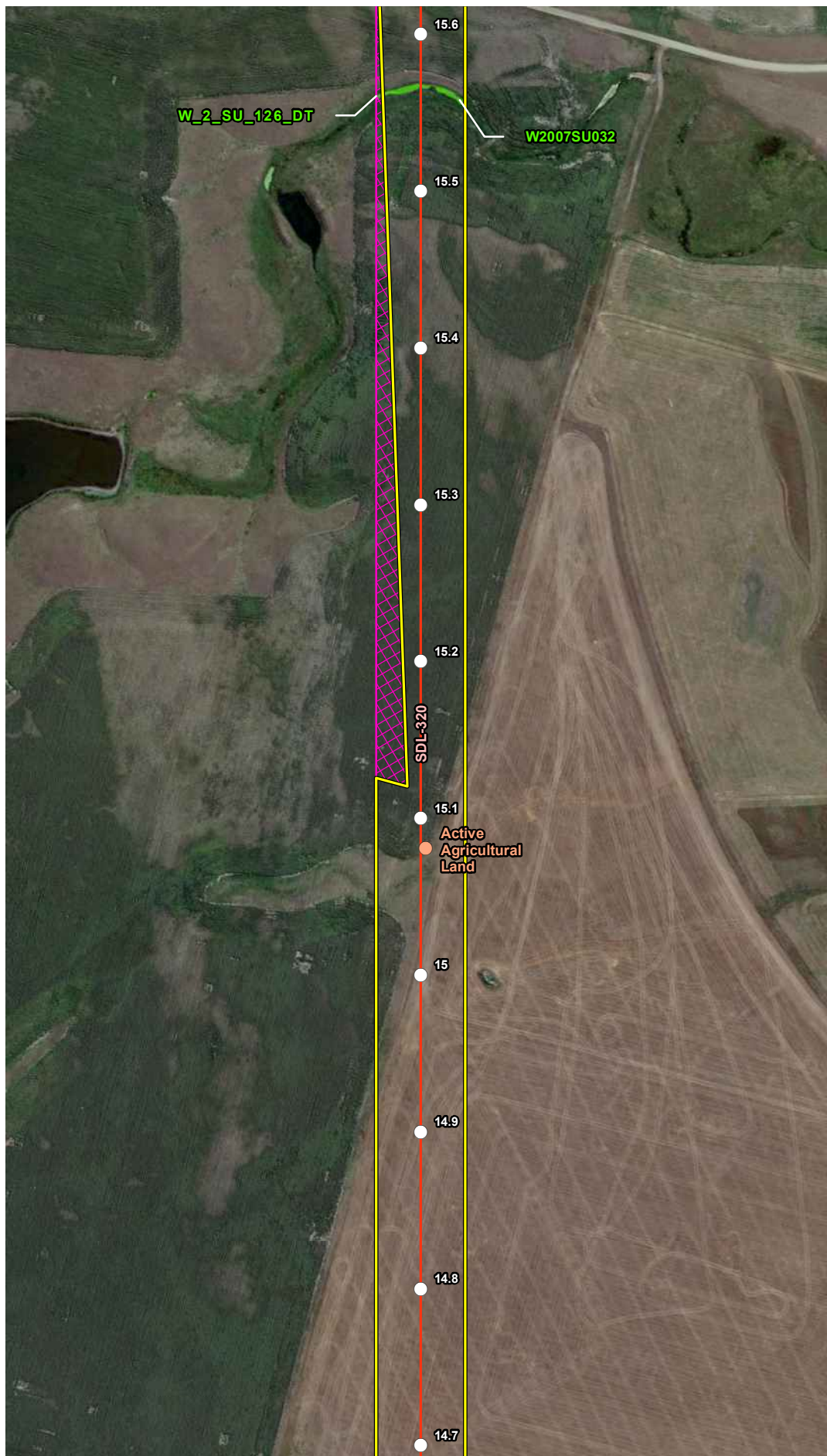
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NAD 1983 UTM Zone 14N

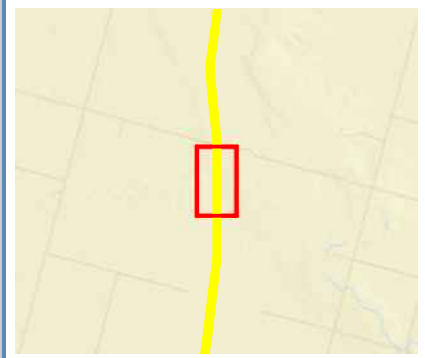
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399
Sheet 399 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number:

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1 inch = 500 feet

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Transverse Mercator
NAD 1983 UTM Zone 14N

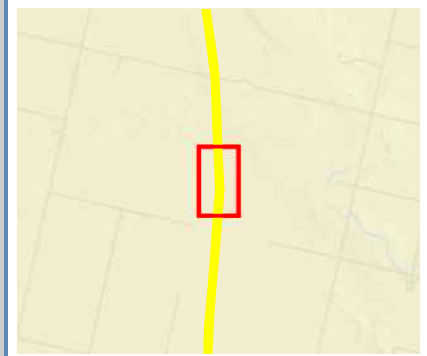
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Sheet 400 of 517

Drawing Number:
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AERIAL MAP



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Figure Number: 2

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Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

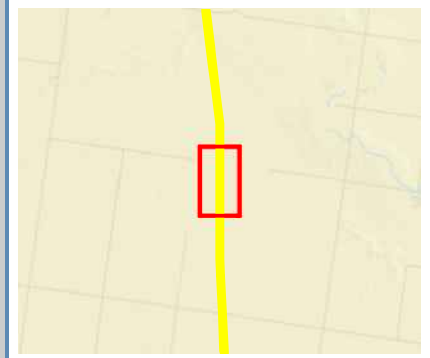
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Drawing Number:
2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



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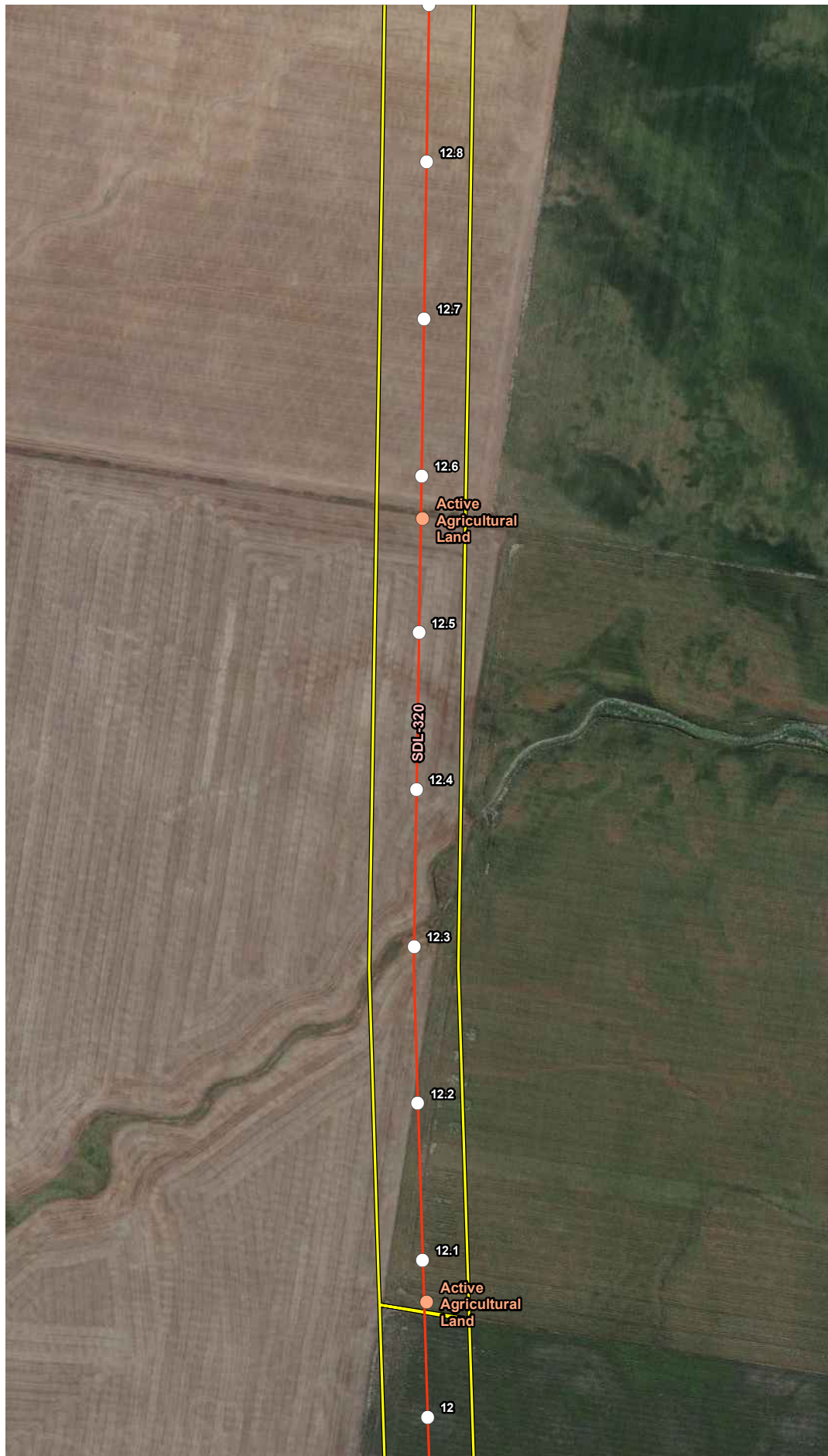
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Sheet 402 of 517

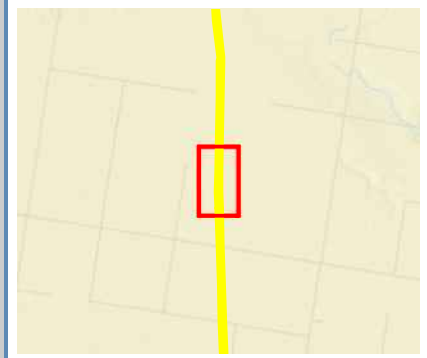
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
403
Sheet 403 of 517

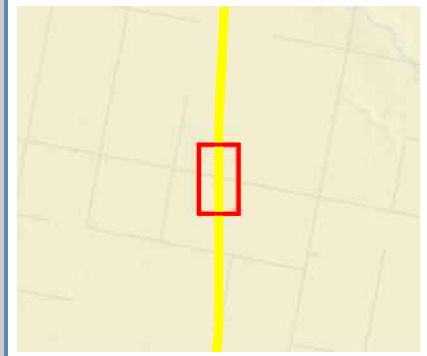
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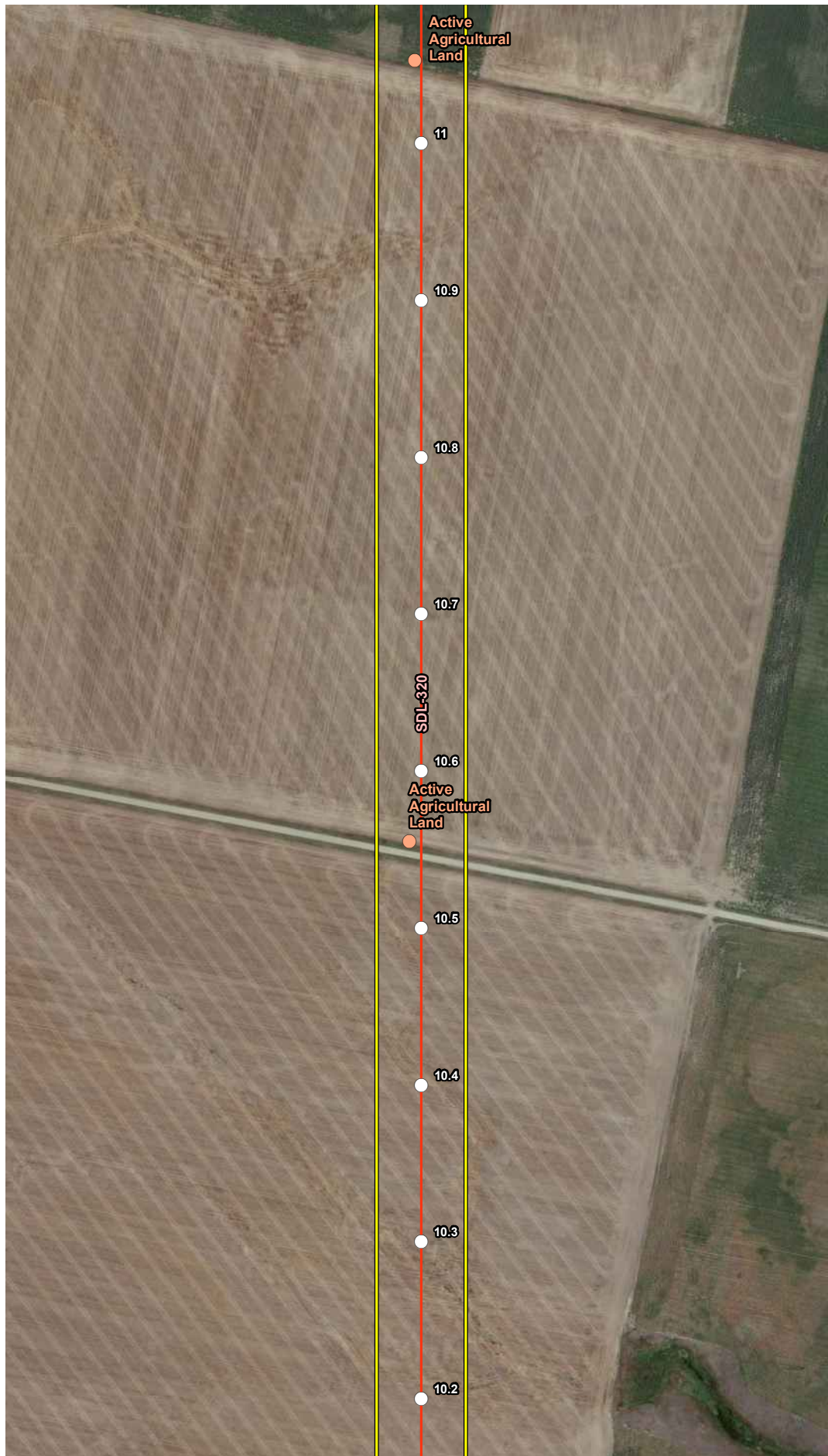
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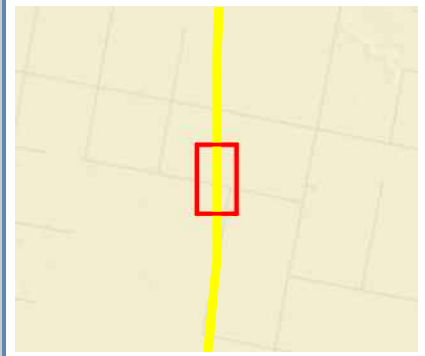
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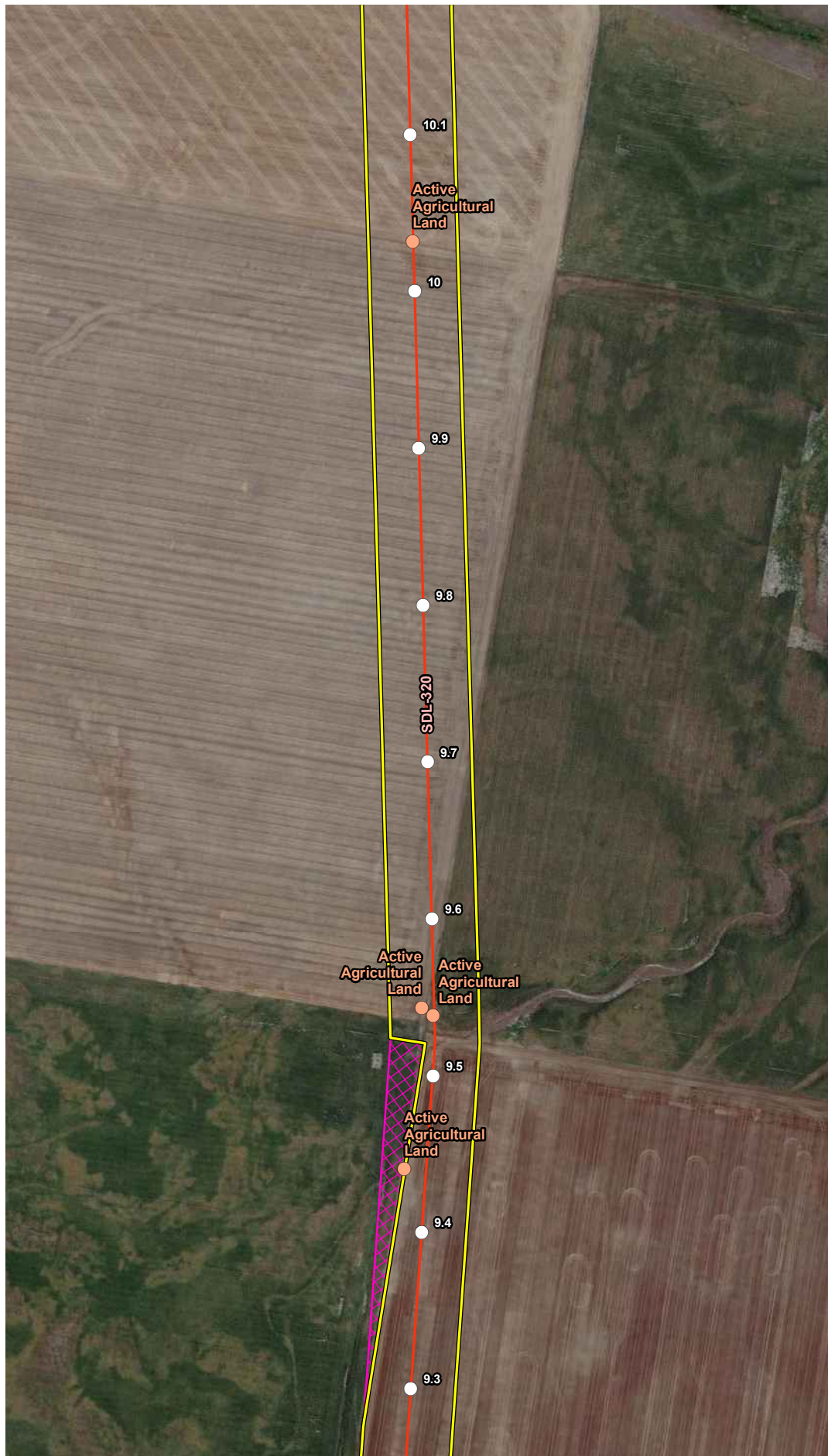
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Sheet 405 of 517

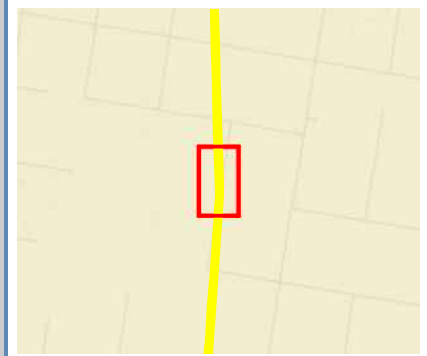
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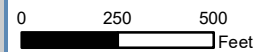


VICINITY MAP



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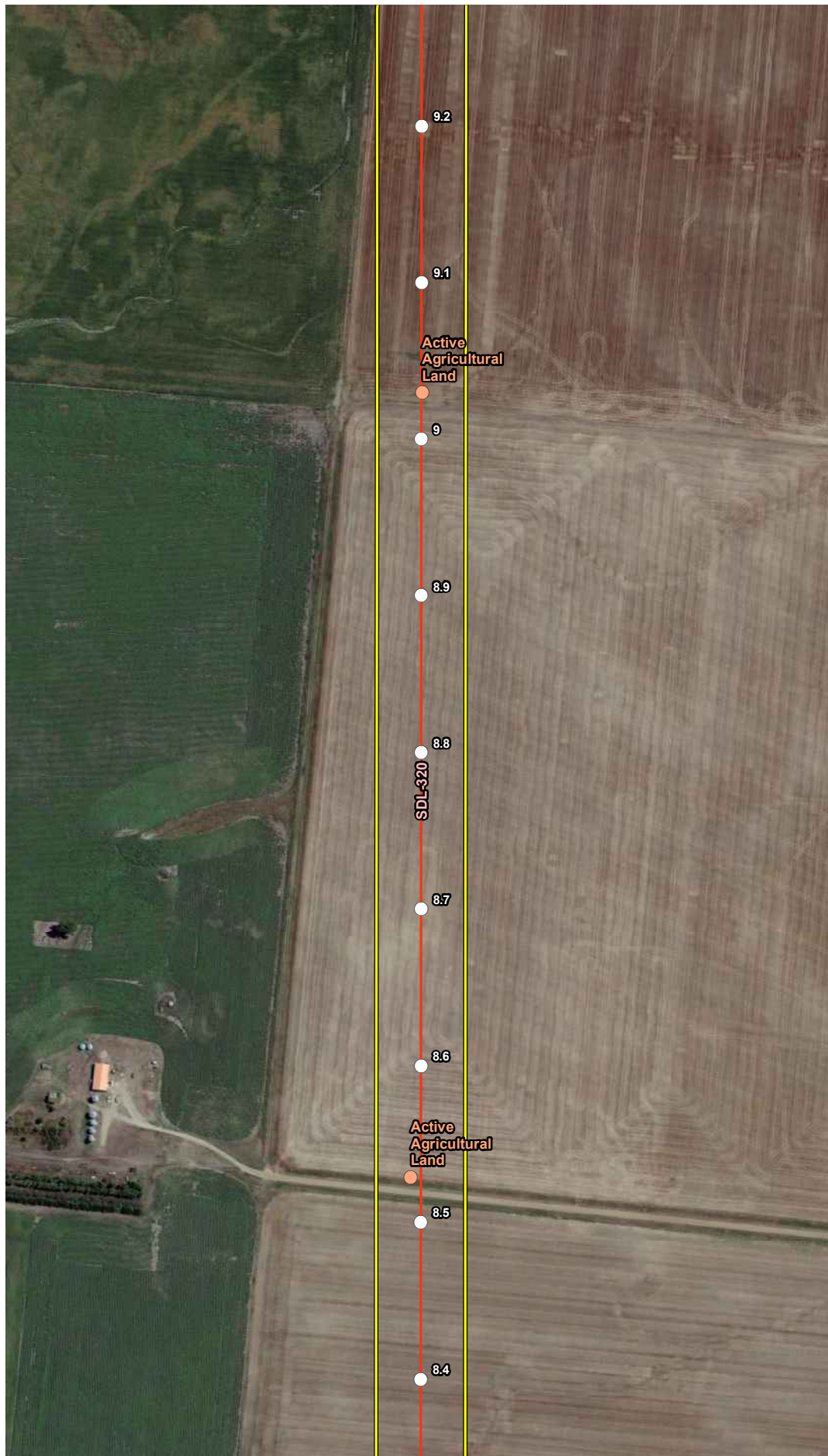
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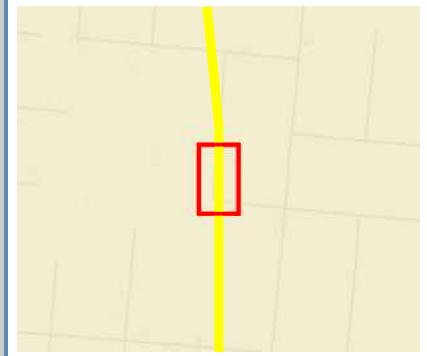
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 Sheet 406 of 517

Drawing Number: 2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500
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Figure Number:

2

Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 407 of 517

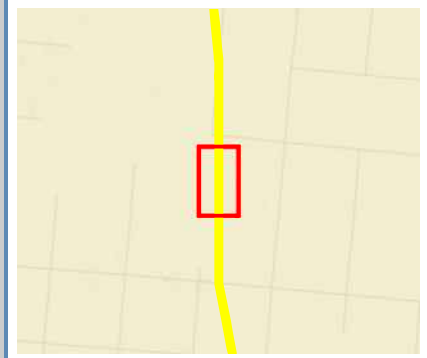
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AERIAL MAP



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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
408
Sheet 408 of 517

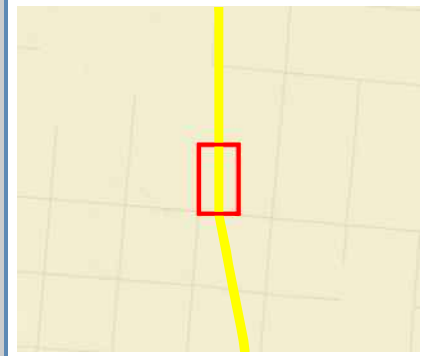
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 409 of 517

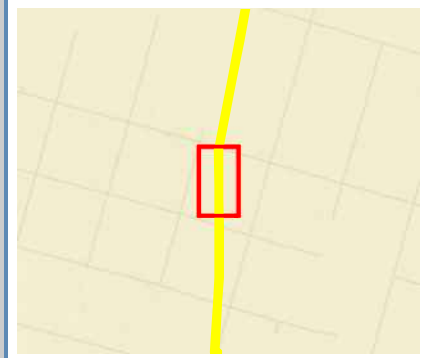
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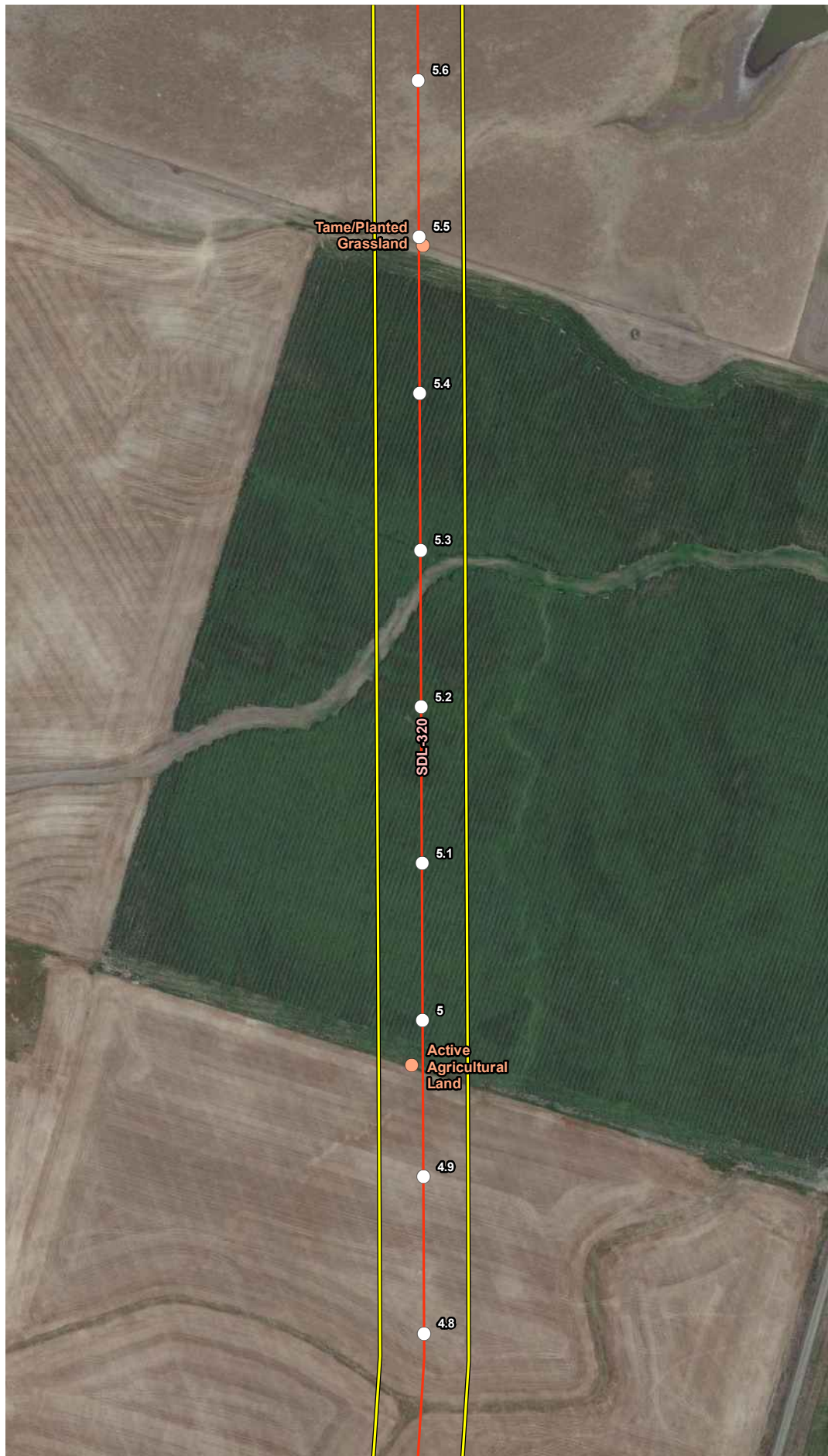
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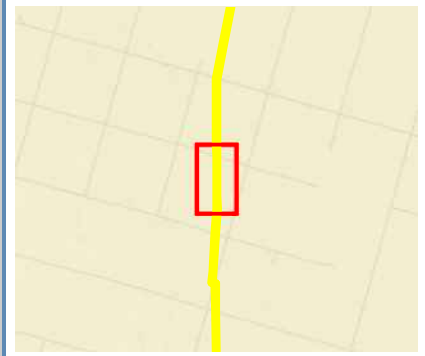
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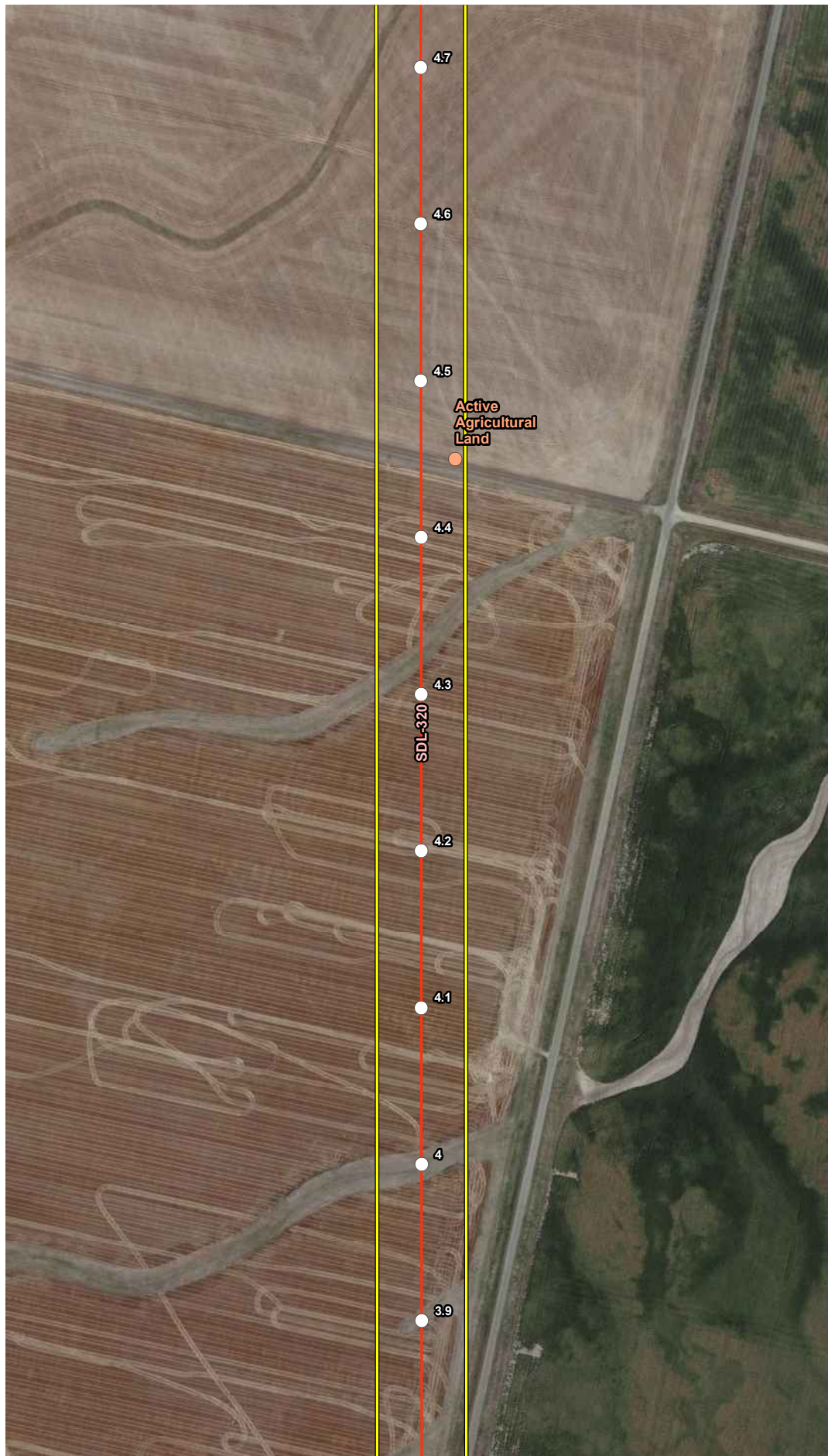
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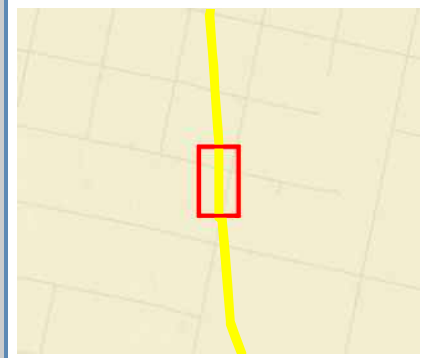
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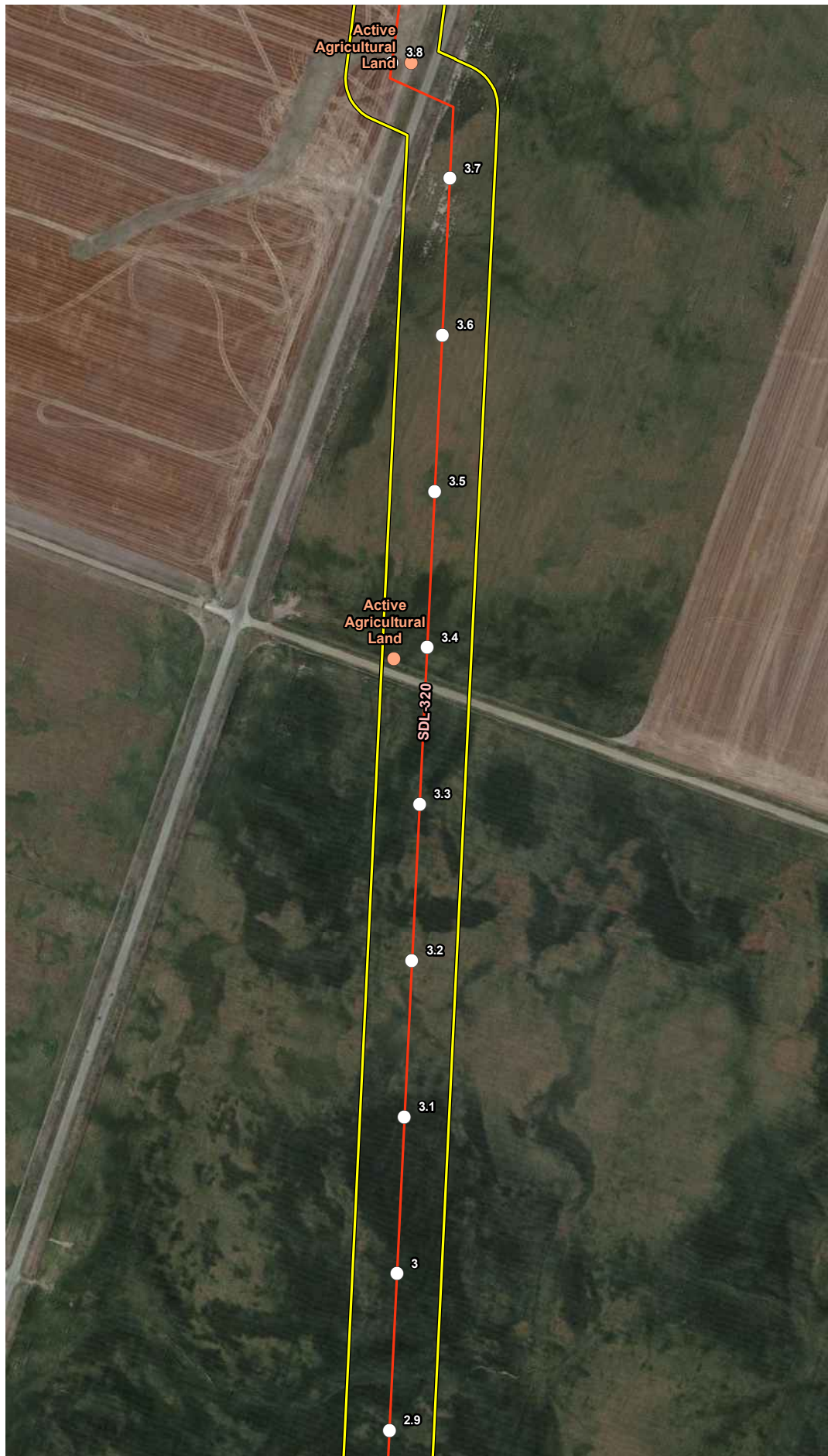
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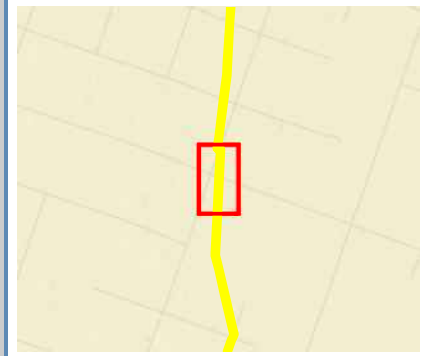
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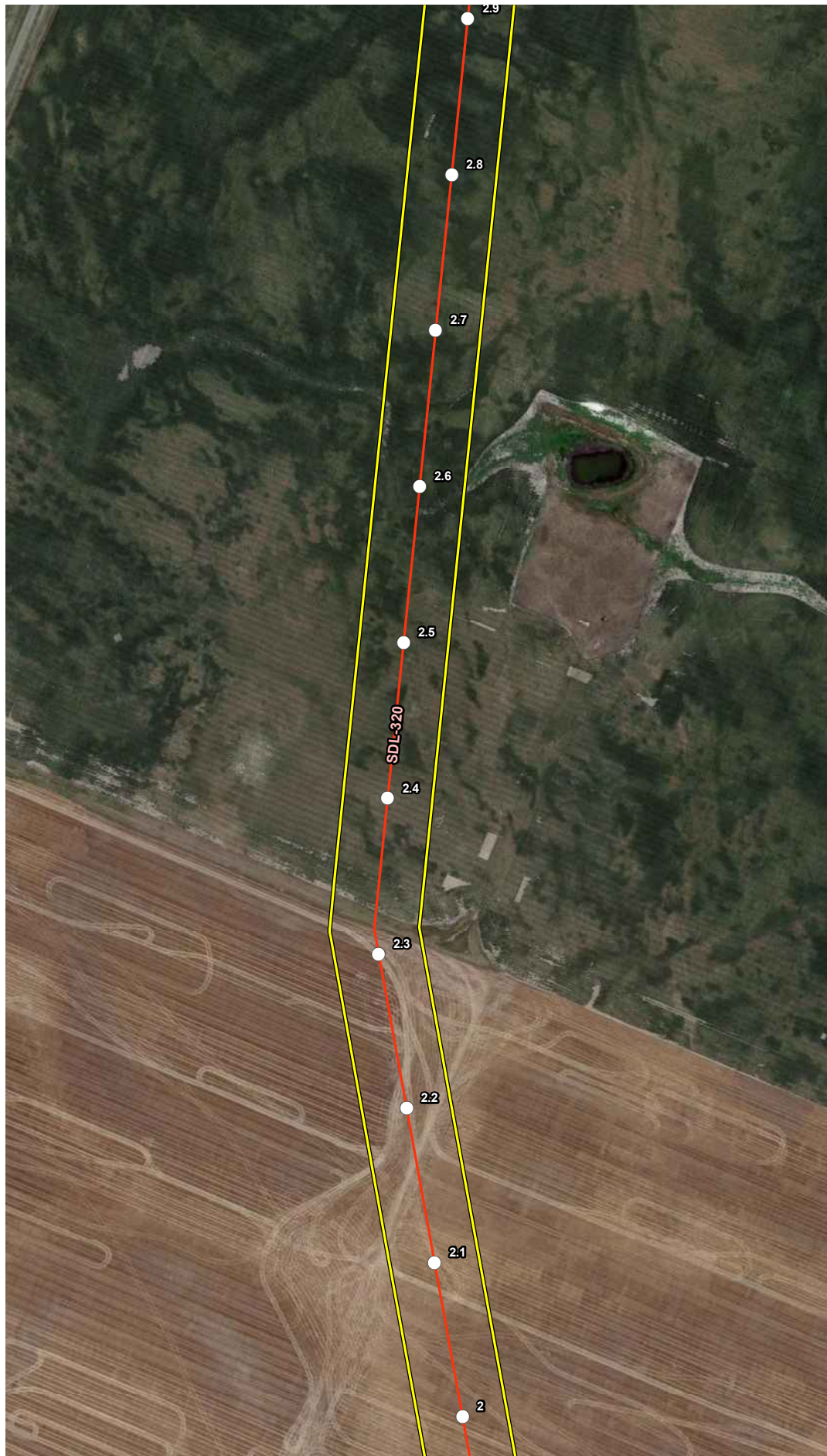
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Sheet:
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Sheet 413 of 517

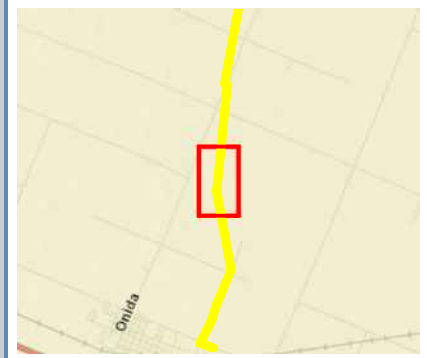
Drawing Number:
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
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- PEM Wetland
- PFO Wetland
- PSS Wetland
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0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
Date: YYYY-MM-DD	Revised by: TBD	Checked by: TBD
Revision Letter/Number - Revision		
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

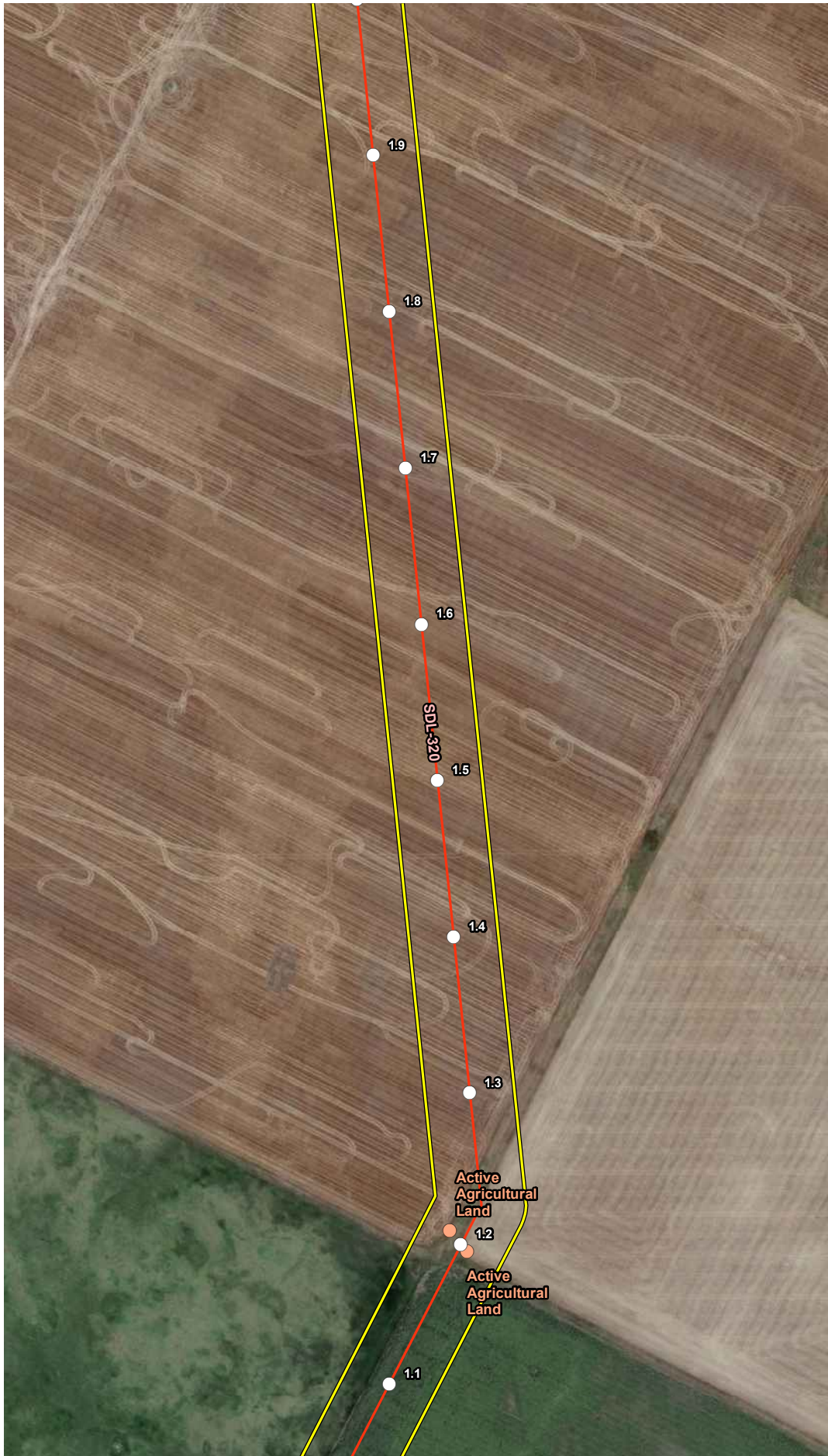
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
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Sheet 414 of 517

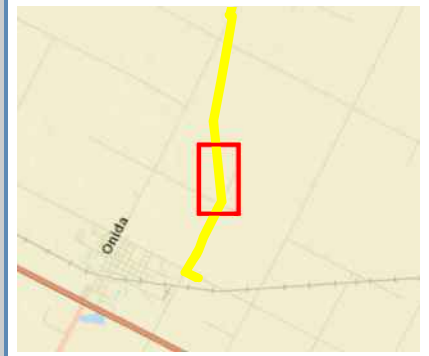
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0 250 500 Feet



REVISIONS

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Revision description

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Figure Number:

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Scale:
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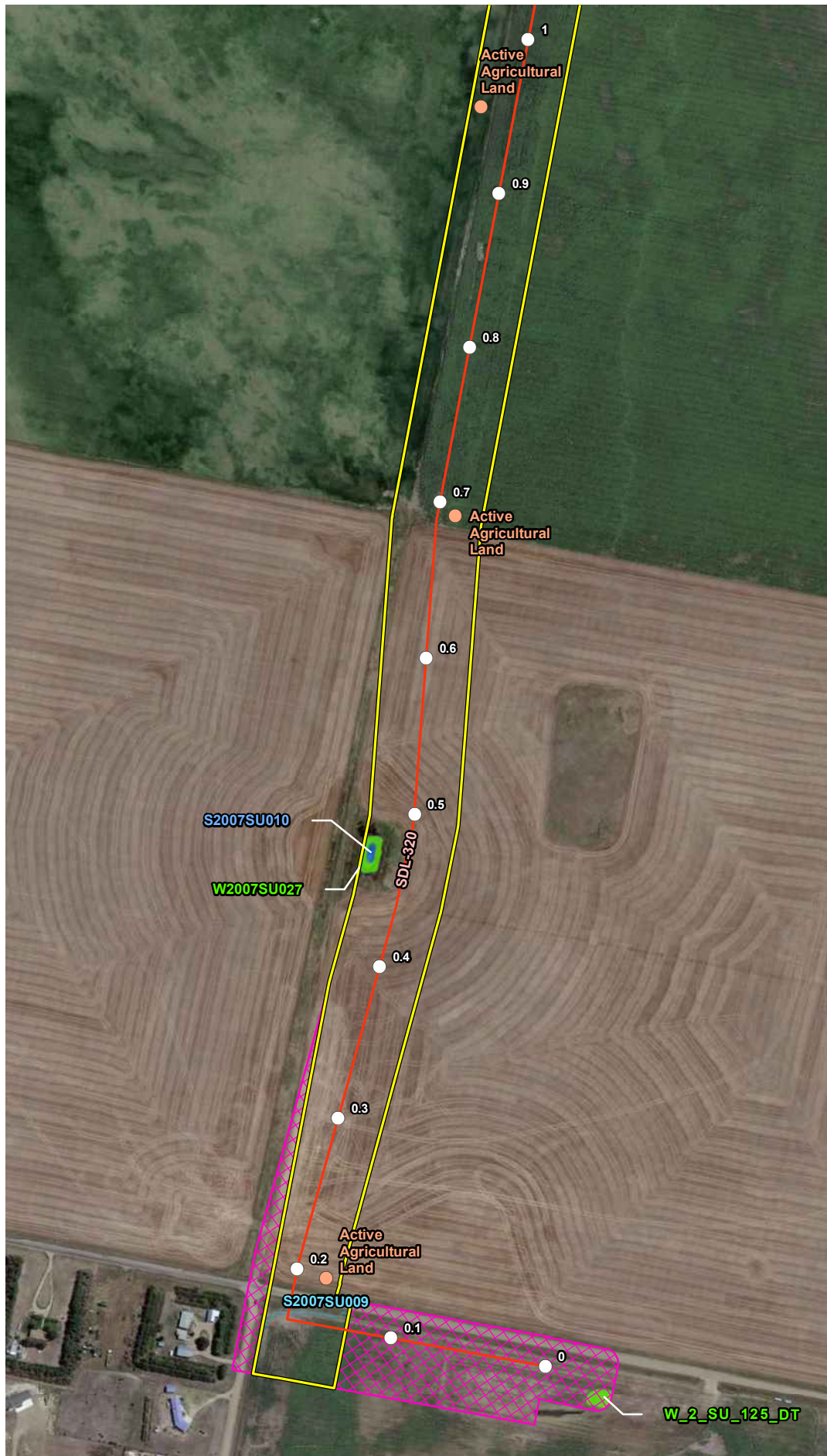
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 415 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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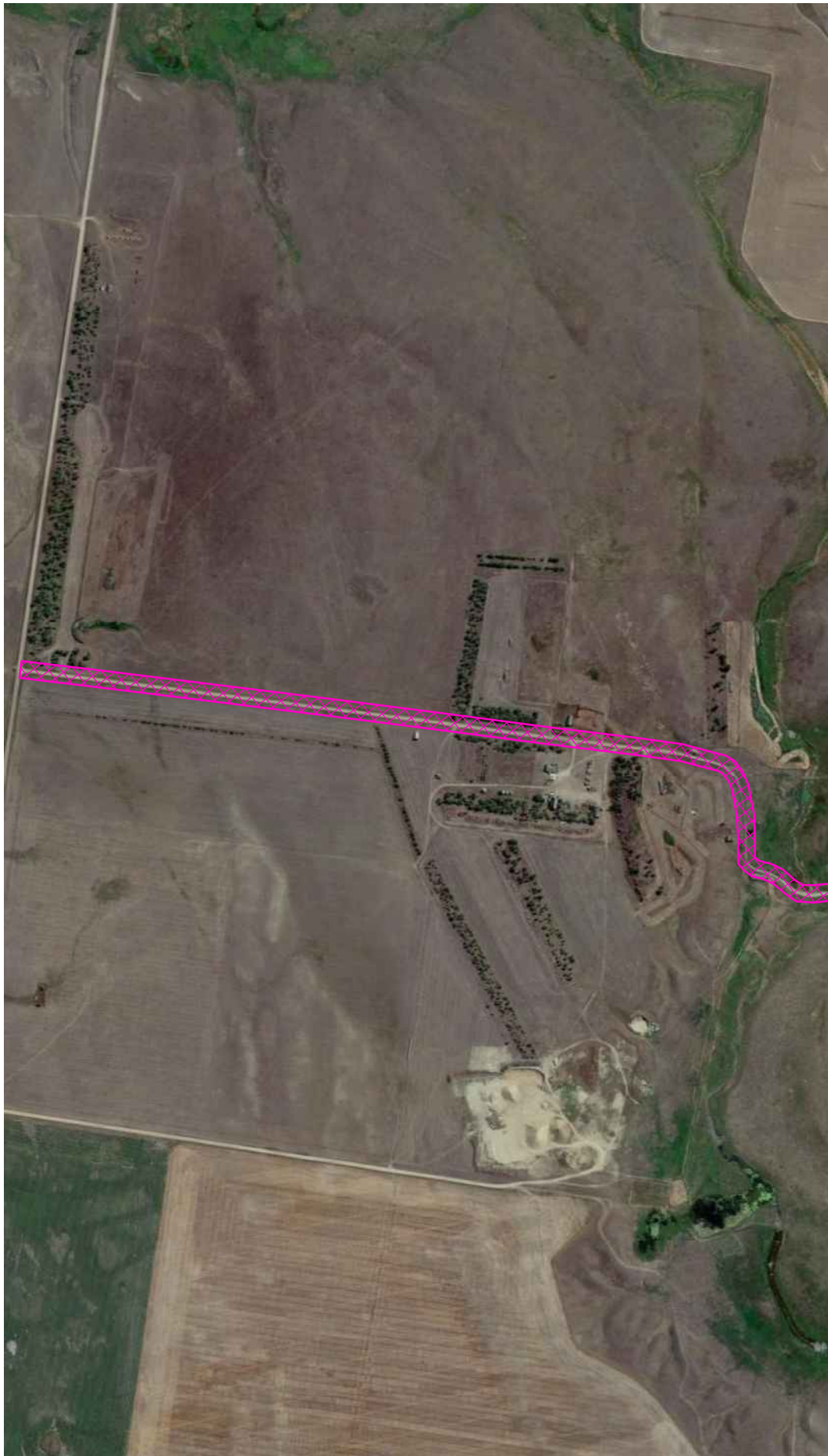
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Sheet 416 of 517

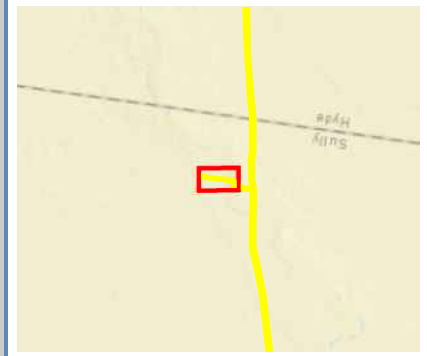
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0 445 890 Feet



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Scale:
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 1 inch = 500 feet

Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
417
 Sheet 417 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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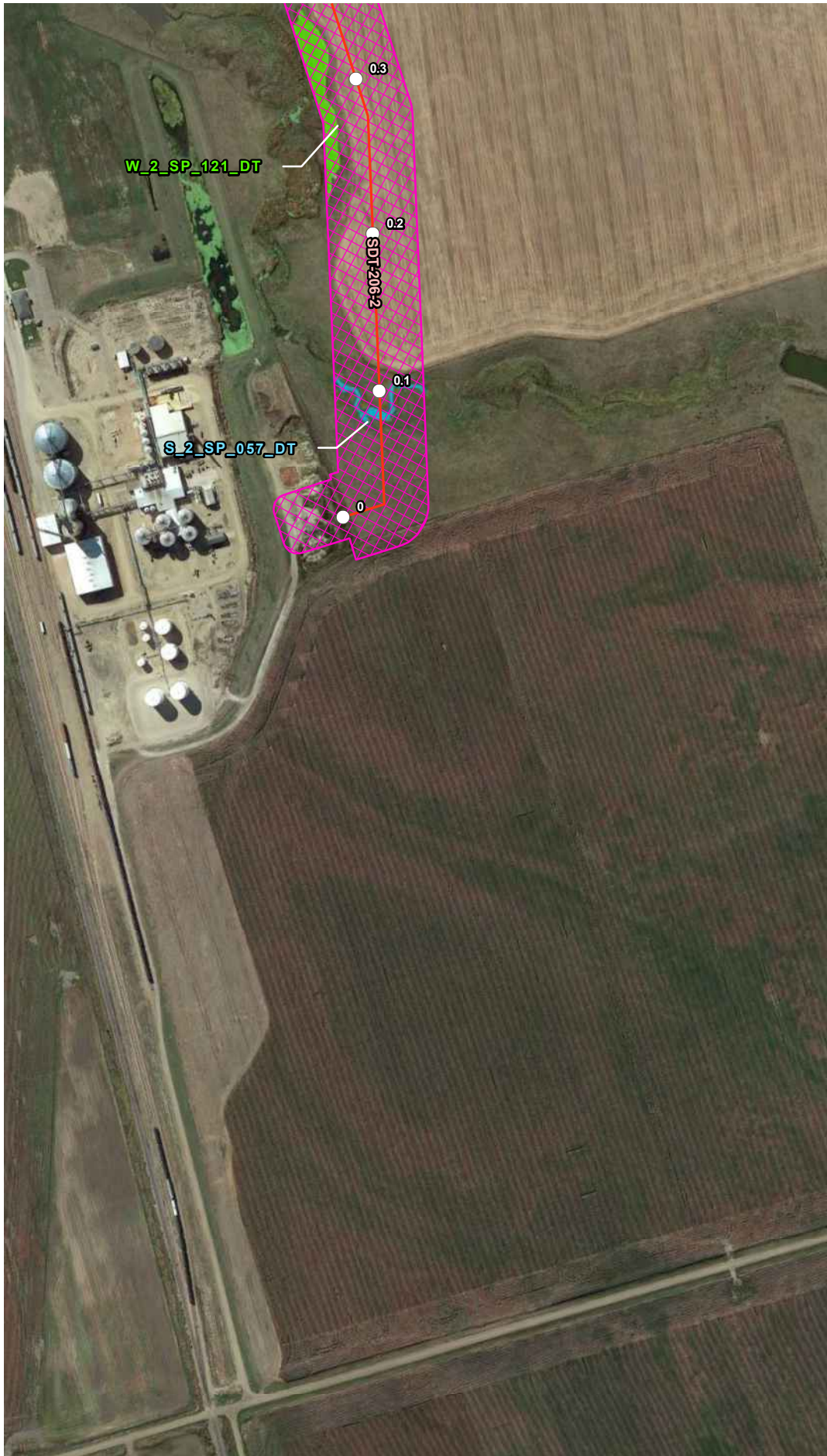
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 418 of 517

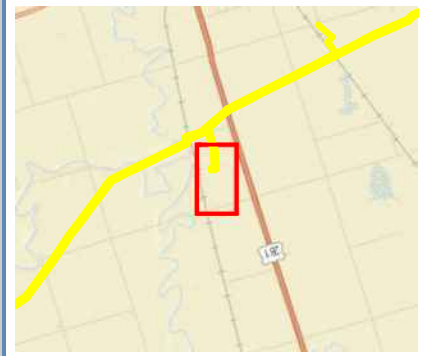
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0 250 500 Feet



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2

Scale:

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Projection:

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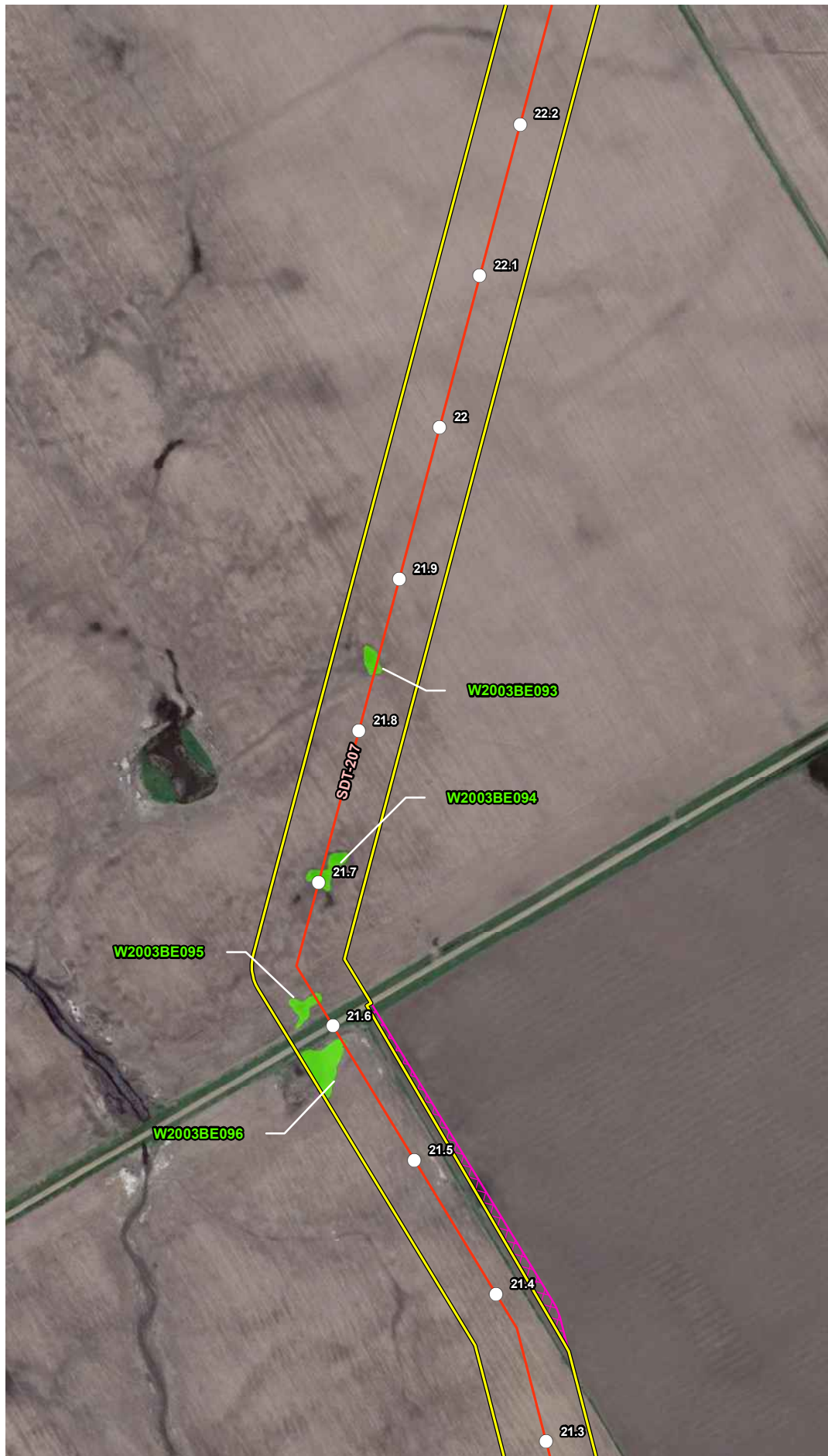
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Sheet 419 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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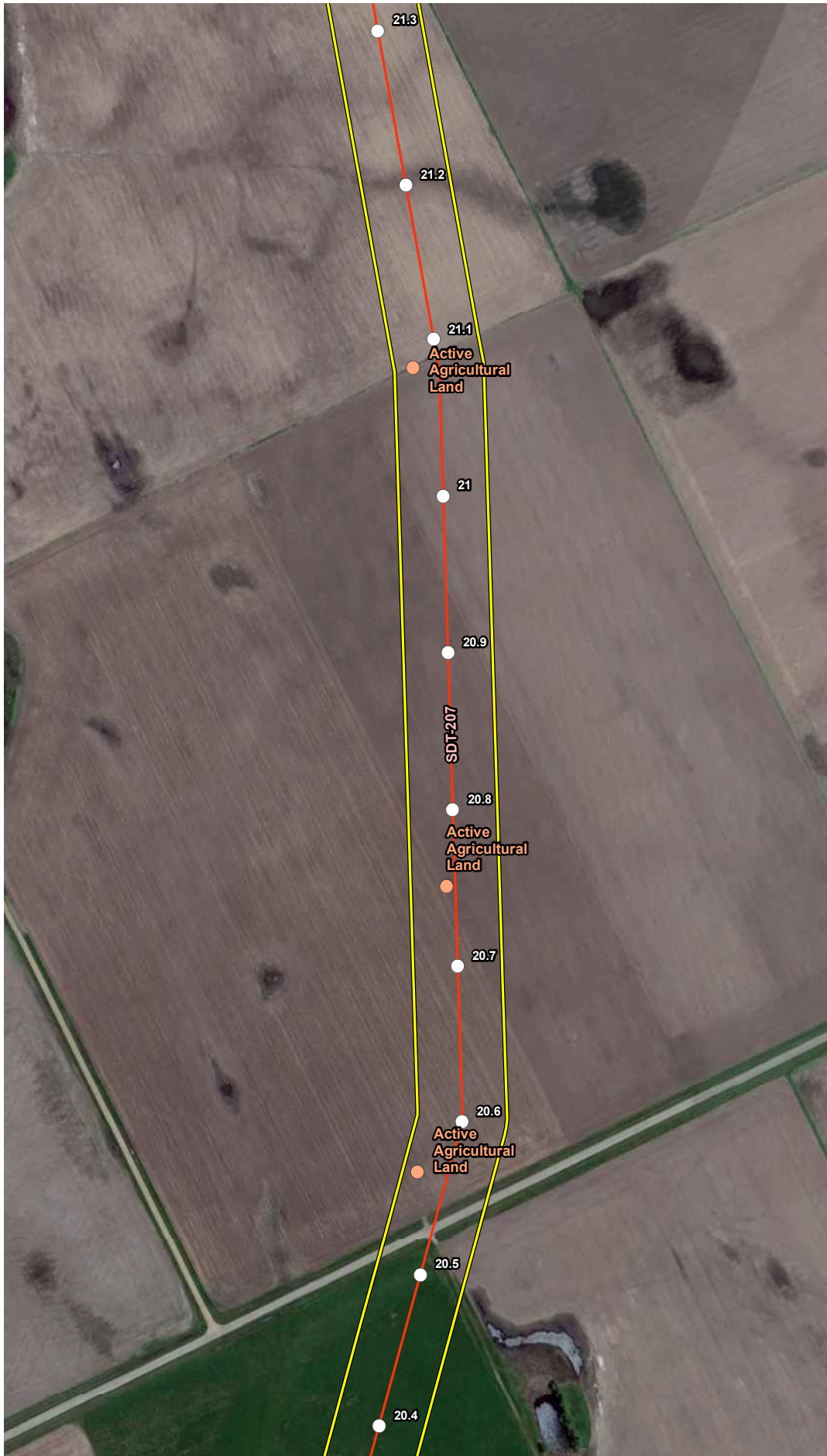
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NAD 1983 UTM Zone 14N

Sheet:
420
Sheet 420 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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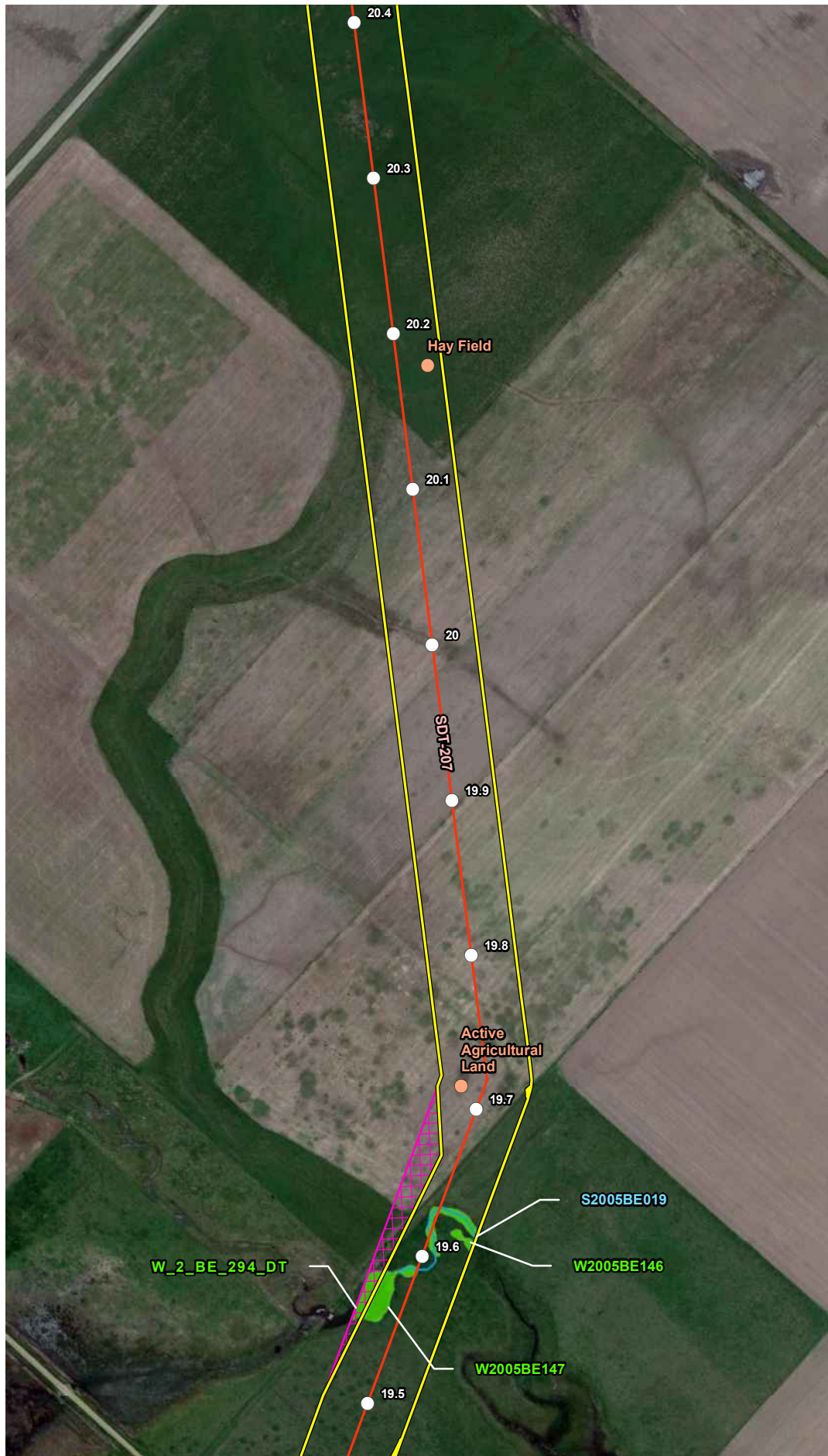
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NAD 1983 UTM Zone 14N

Sheet:
421
Sheet 421 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

Scale:
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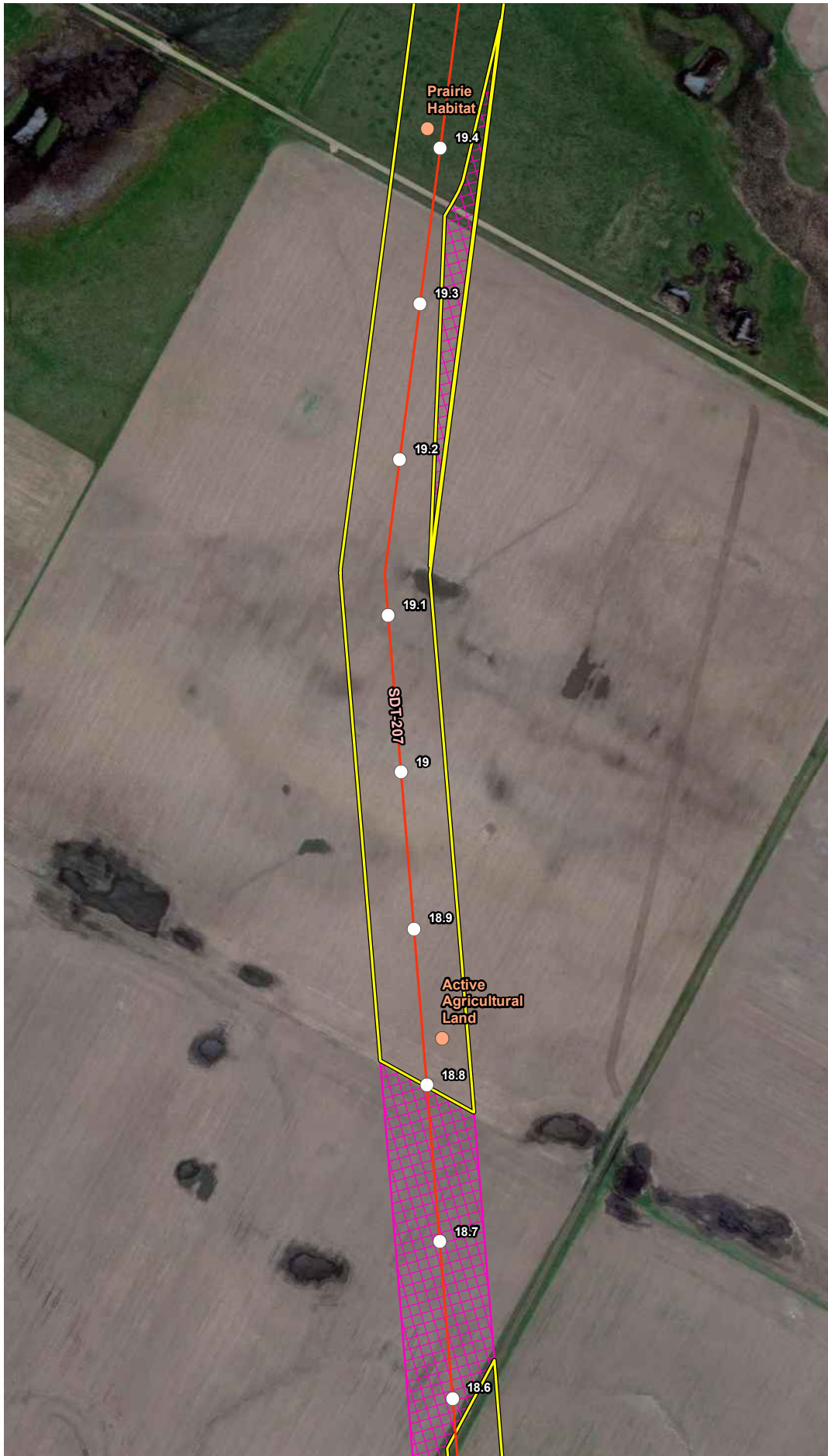
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NAD 1983 UTM Zone 14N

Sheet:
422
Sheet 422 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
Scale: 1:6,000
1 inch = 500 feet

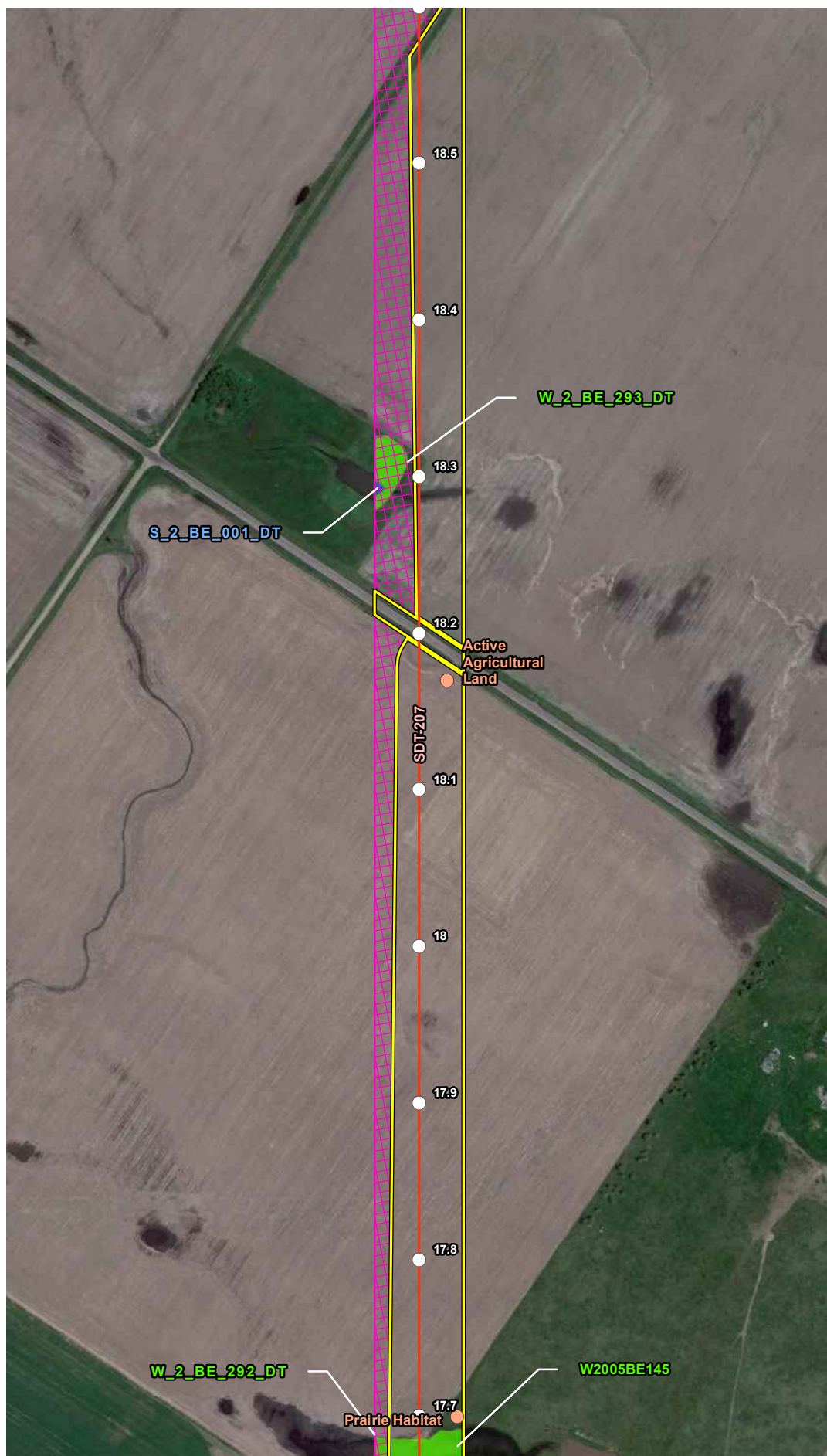
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NAD 1983 UTM Zone 14N

Sheet:
423
Sheet 423 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



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0 250 500
Feet



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2

Scale:
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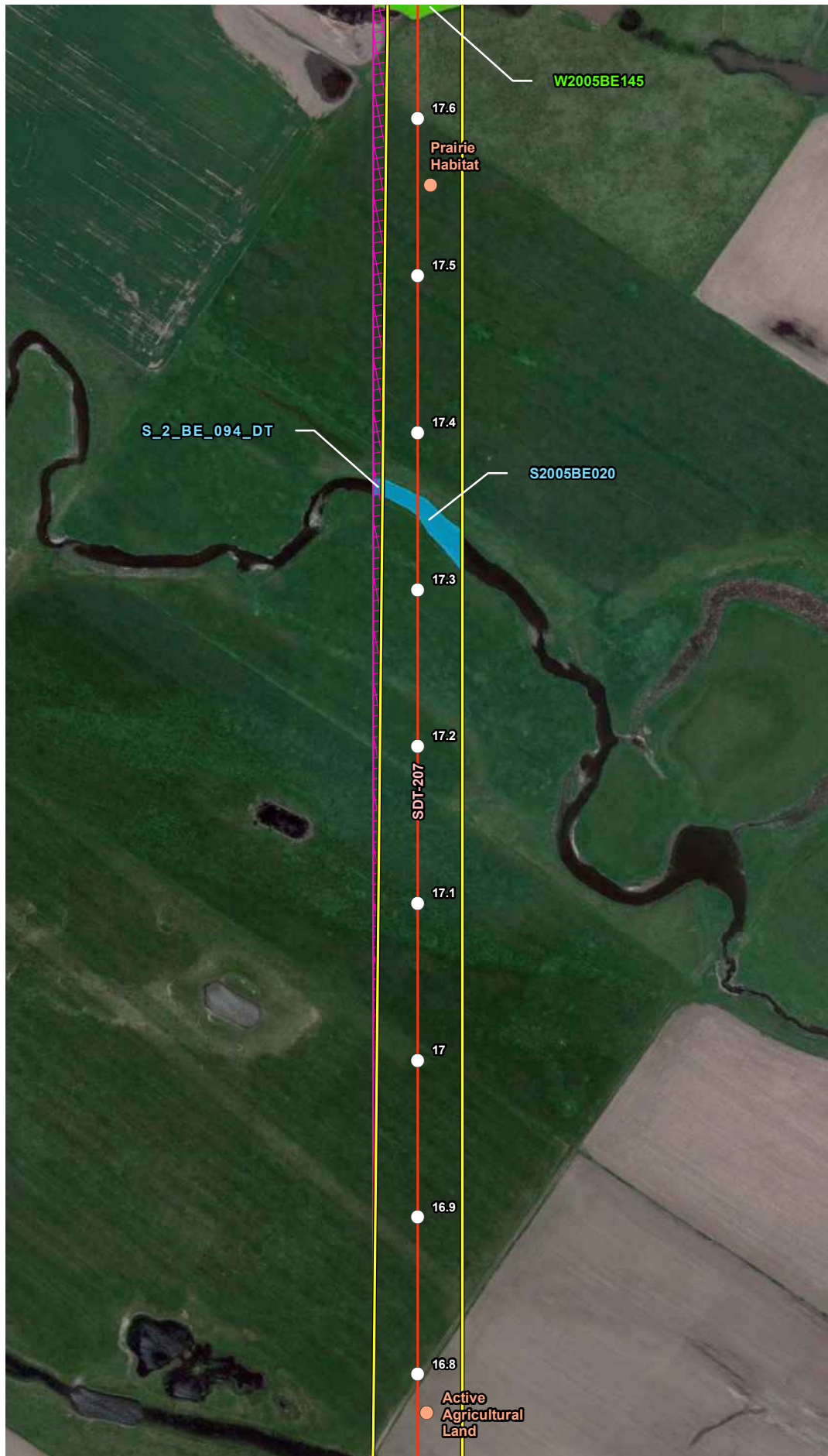
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Sheet 424 of 517

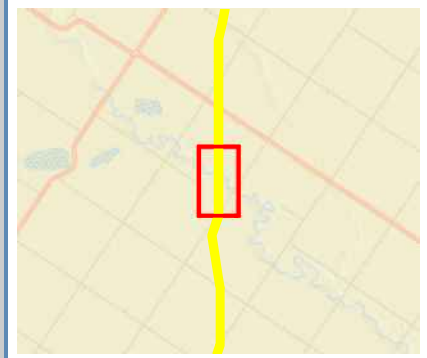
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0 250 500 Feet



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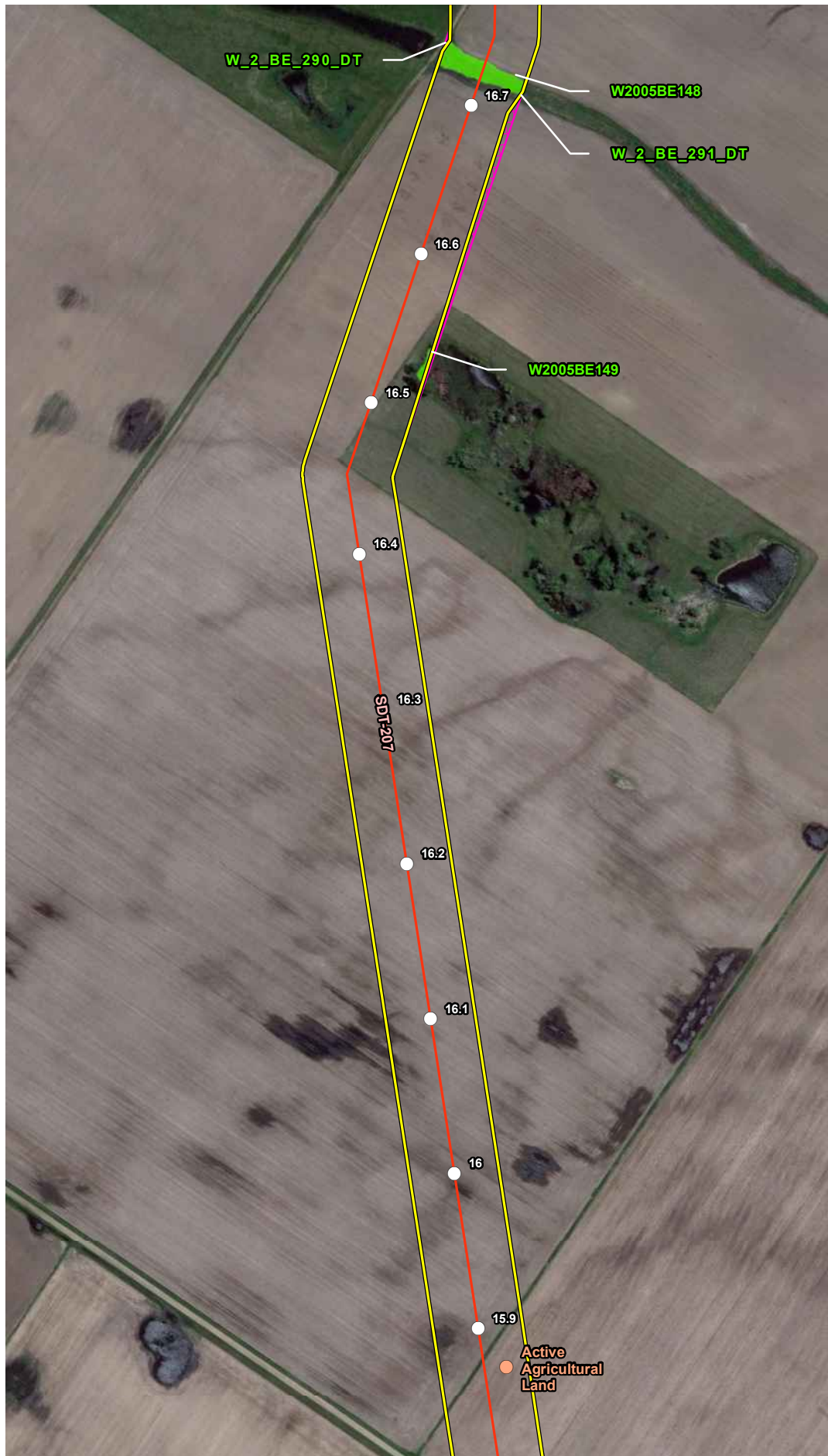
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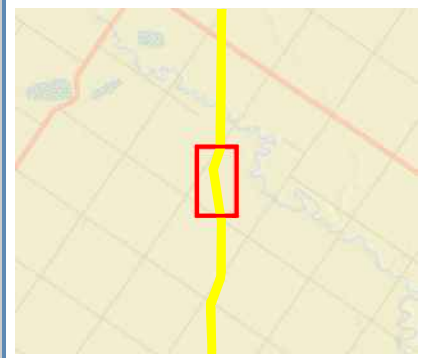
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0 250 500 Feet



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Figure Number: 2

Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
426
Sheet 426 of 517

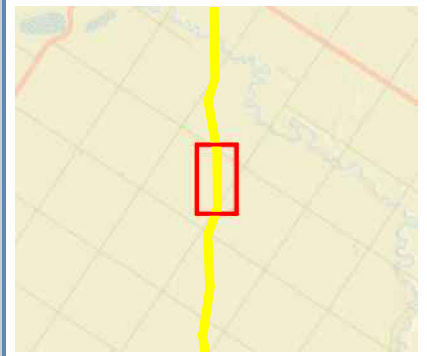
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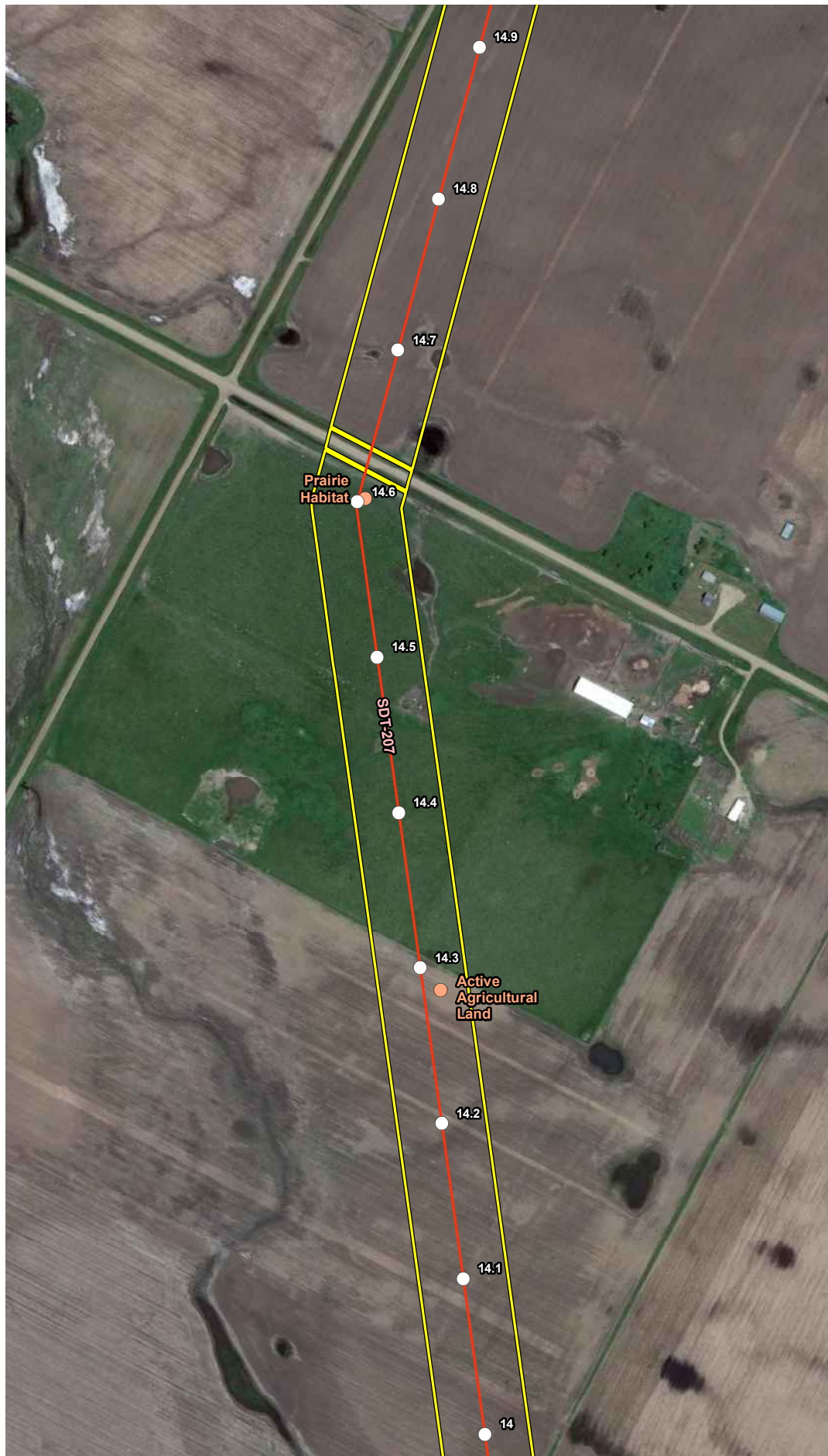
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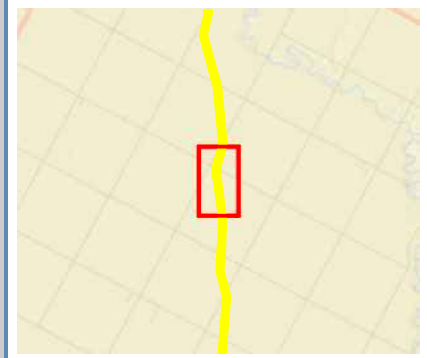
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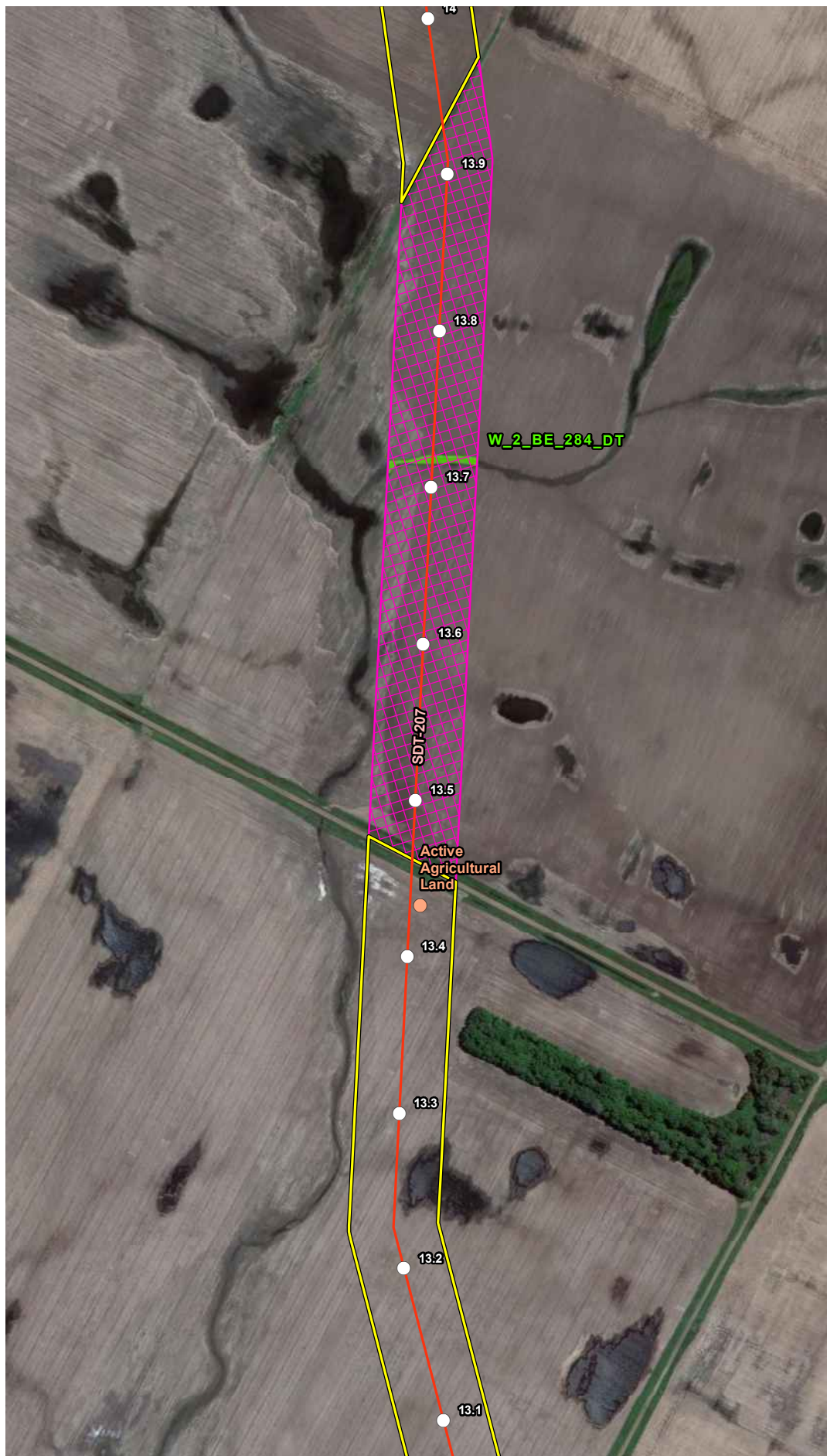
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 428 of 517

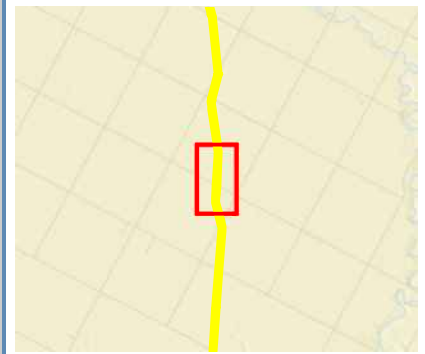
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
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0 250 500 Feet



REVISIONS

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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

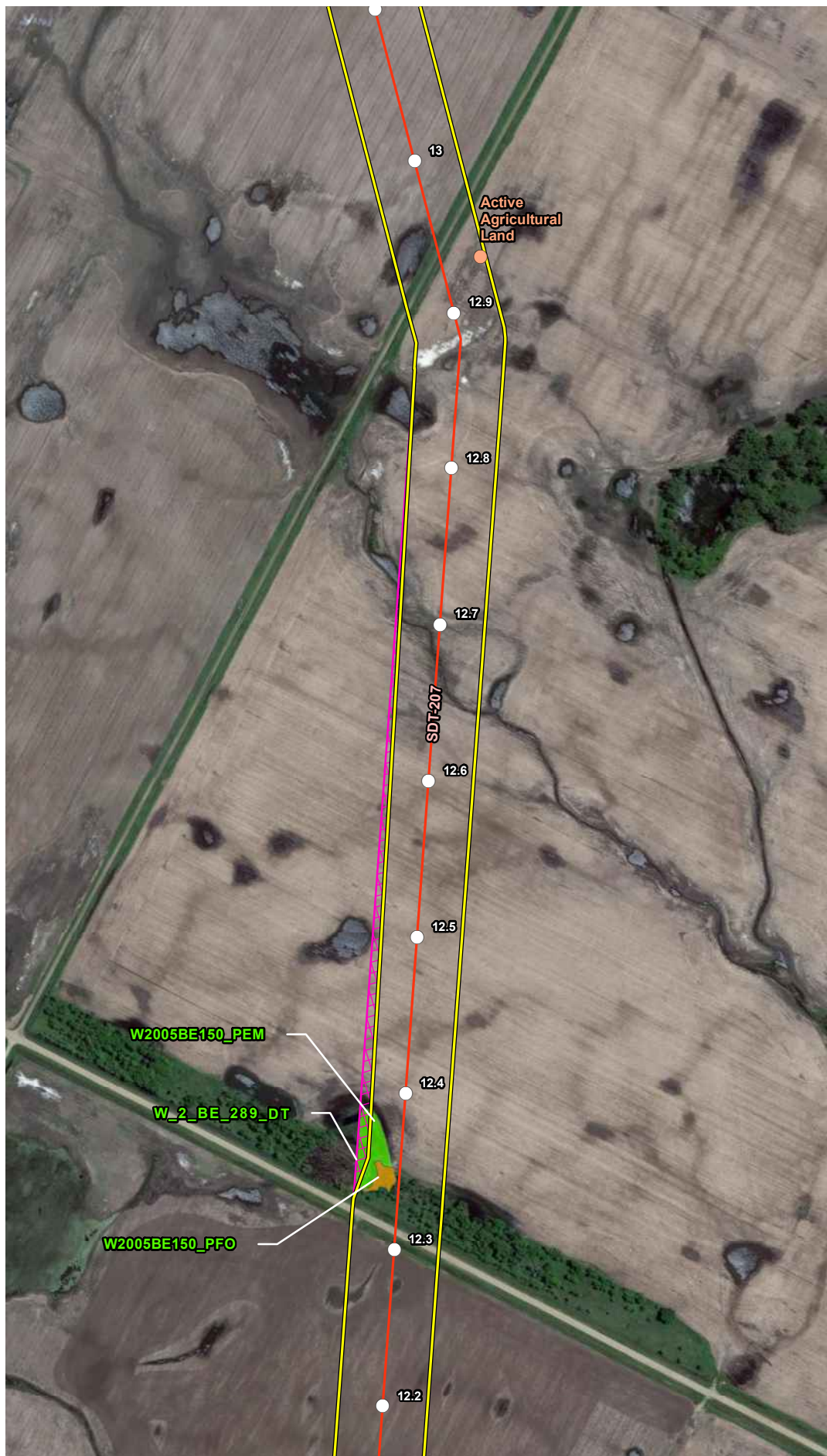
Projection:
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NAD 1983 UTM Zone 14N

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Sheet 429 of 517

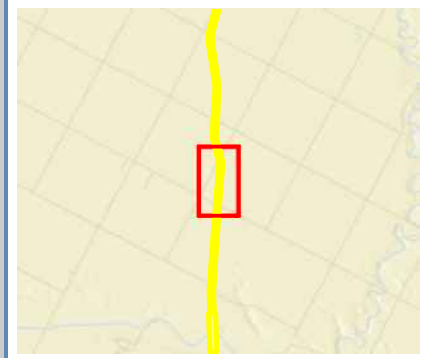
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Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
430
Sheet 430 of 517

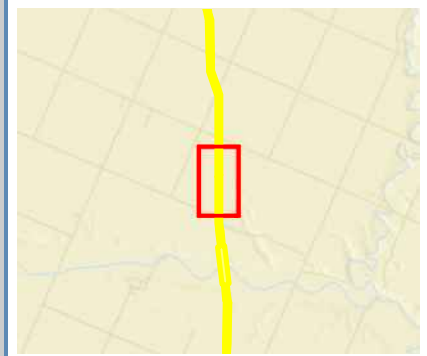
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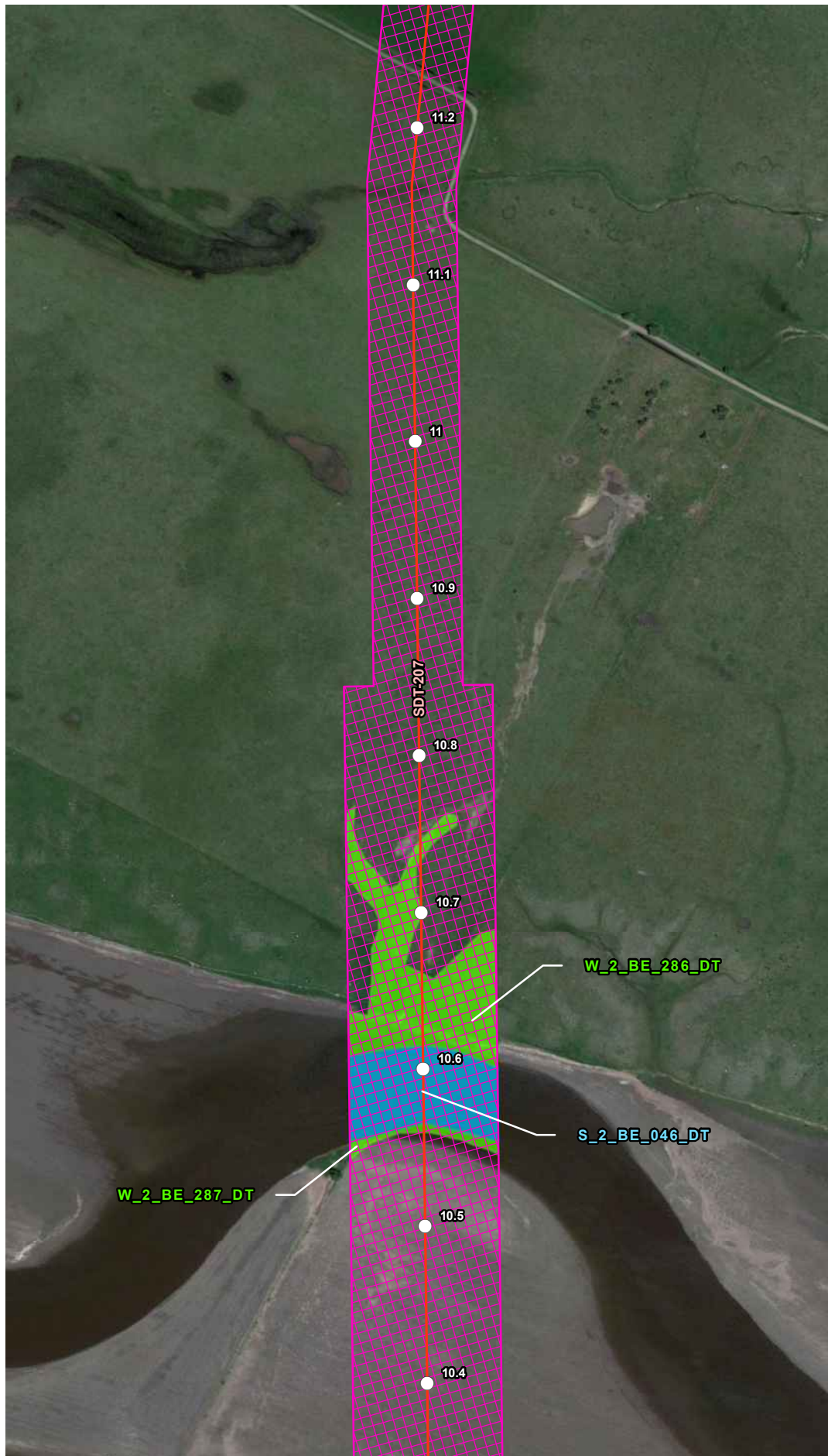
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Sheet 431 of 517

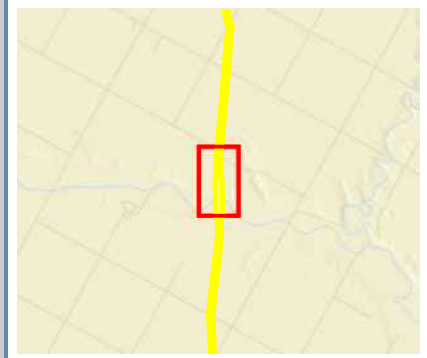
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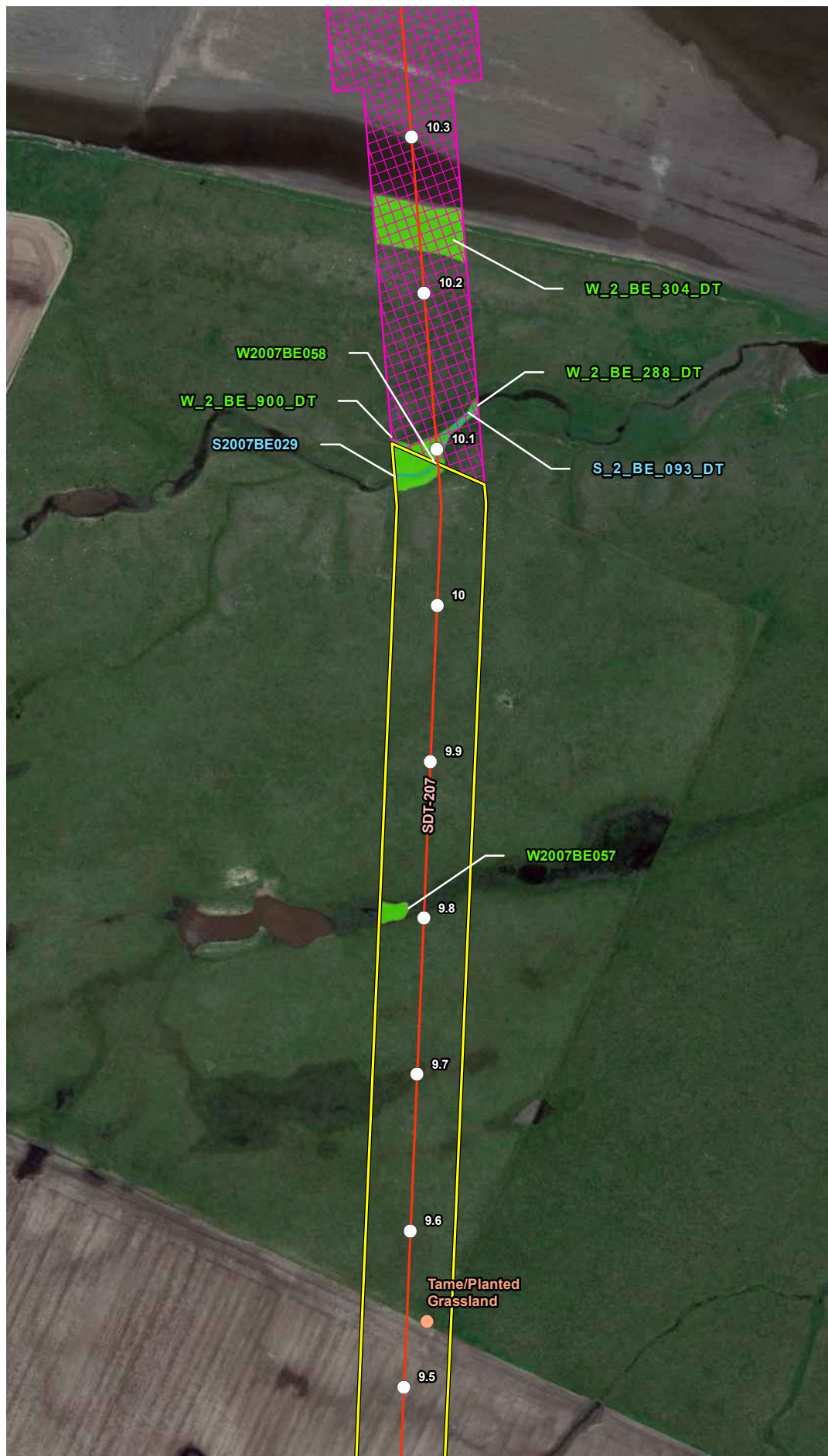
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Sheet 432 of 517

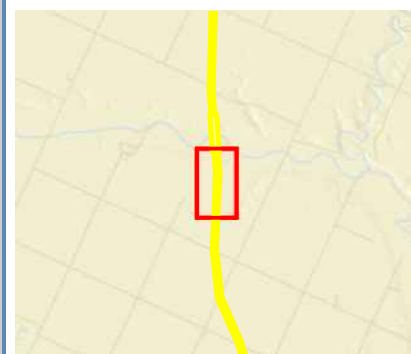
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0 250 500 Feet



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Scale:
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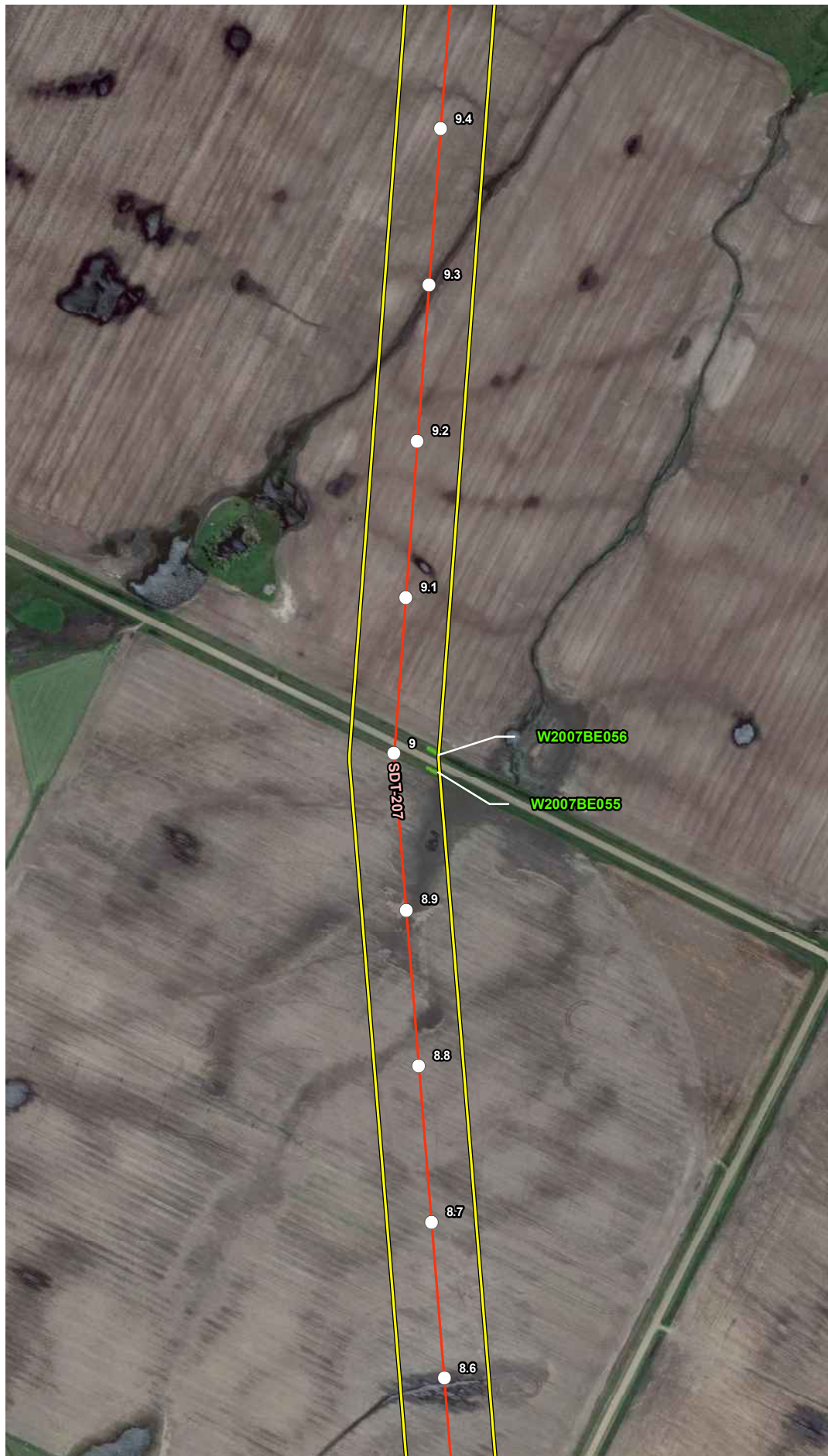
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Sheet:
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Sheet 433 of 517

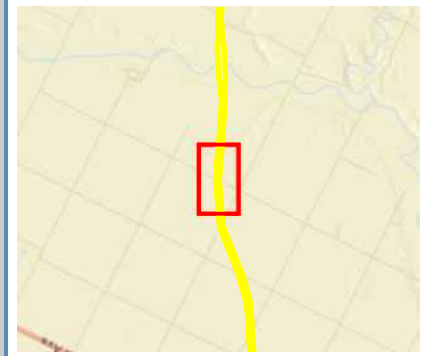
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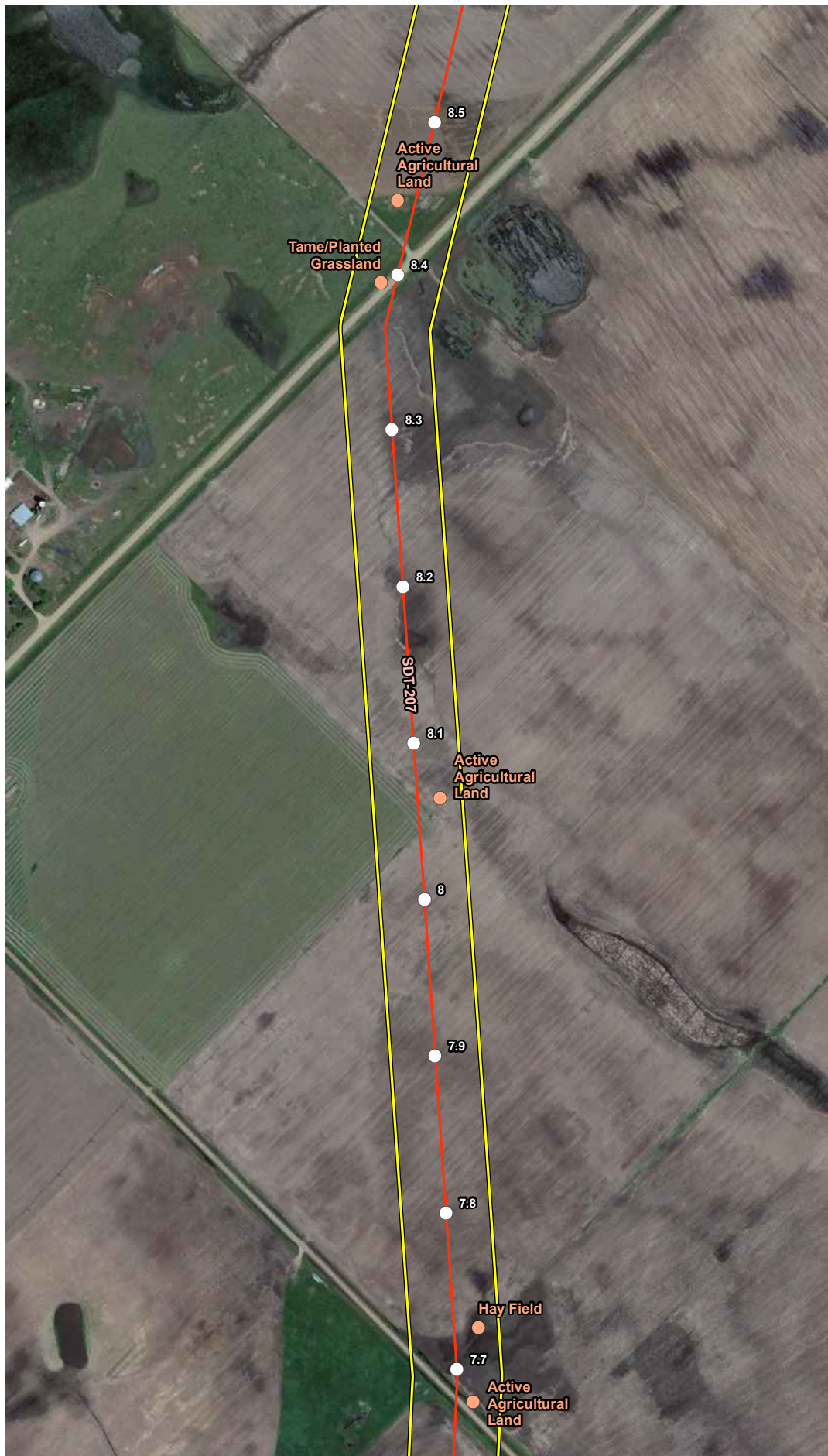
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Sheet 434 of 517

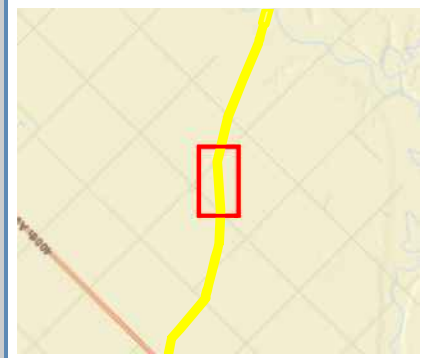
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0 250 500 Feet



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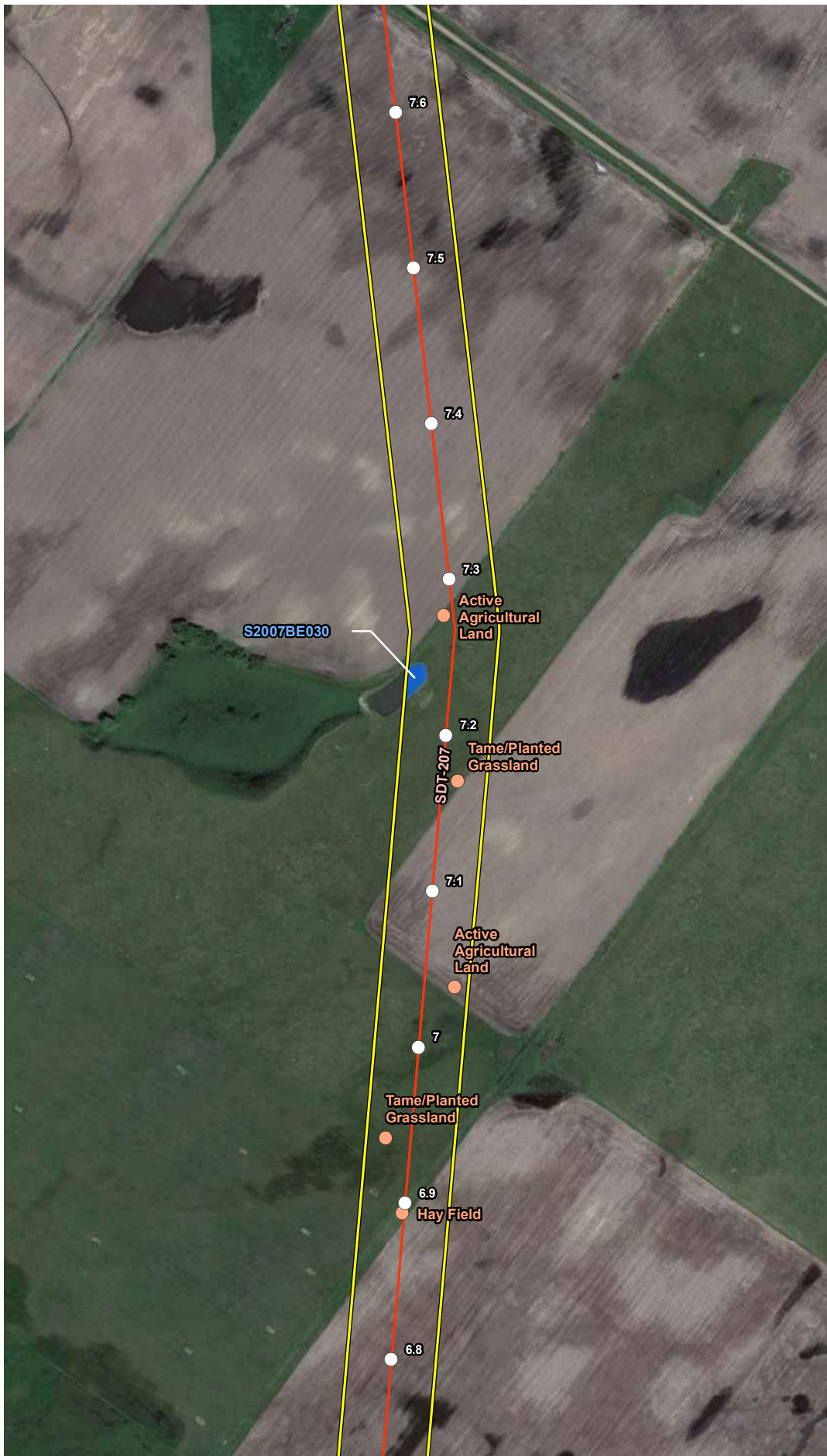
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 435 of 517

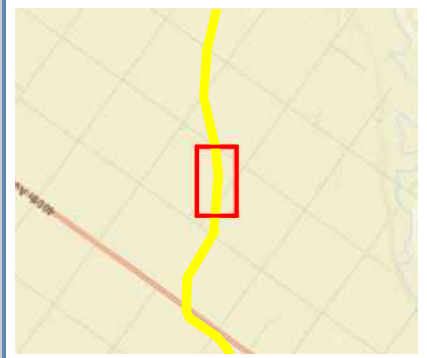
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0 250 500 Feet



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 NAD 1983 UTM Zone 14N

Sheet:
 436
 Sheet 436 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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0 250 500
Feet



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Scale:
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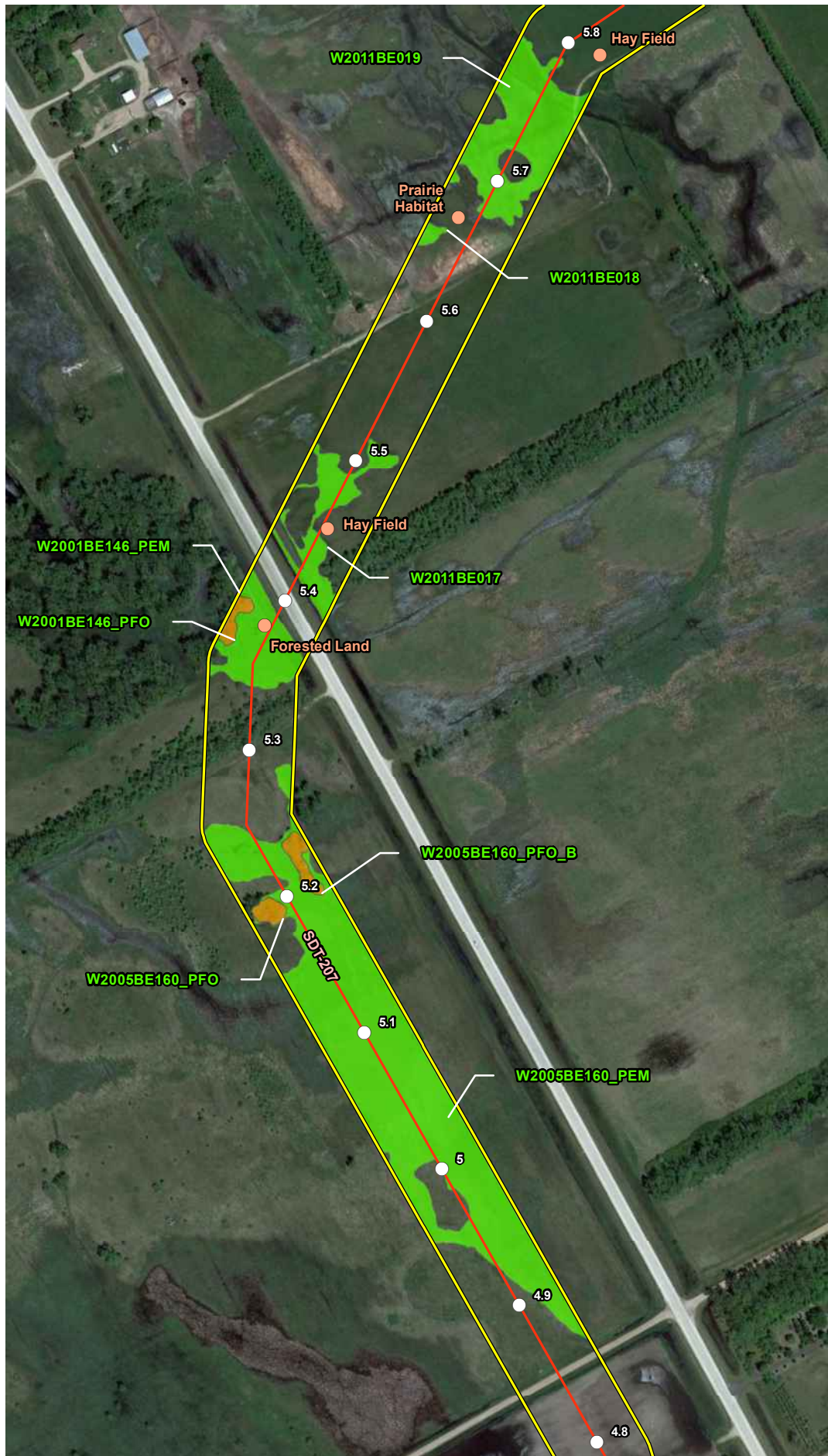
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Sheet 437 of 517

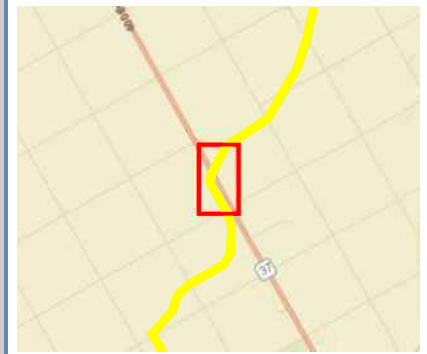
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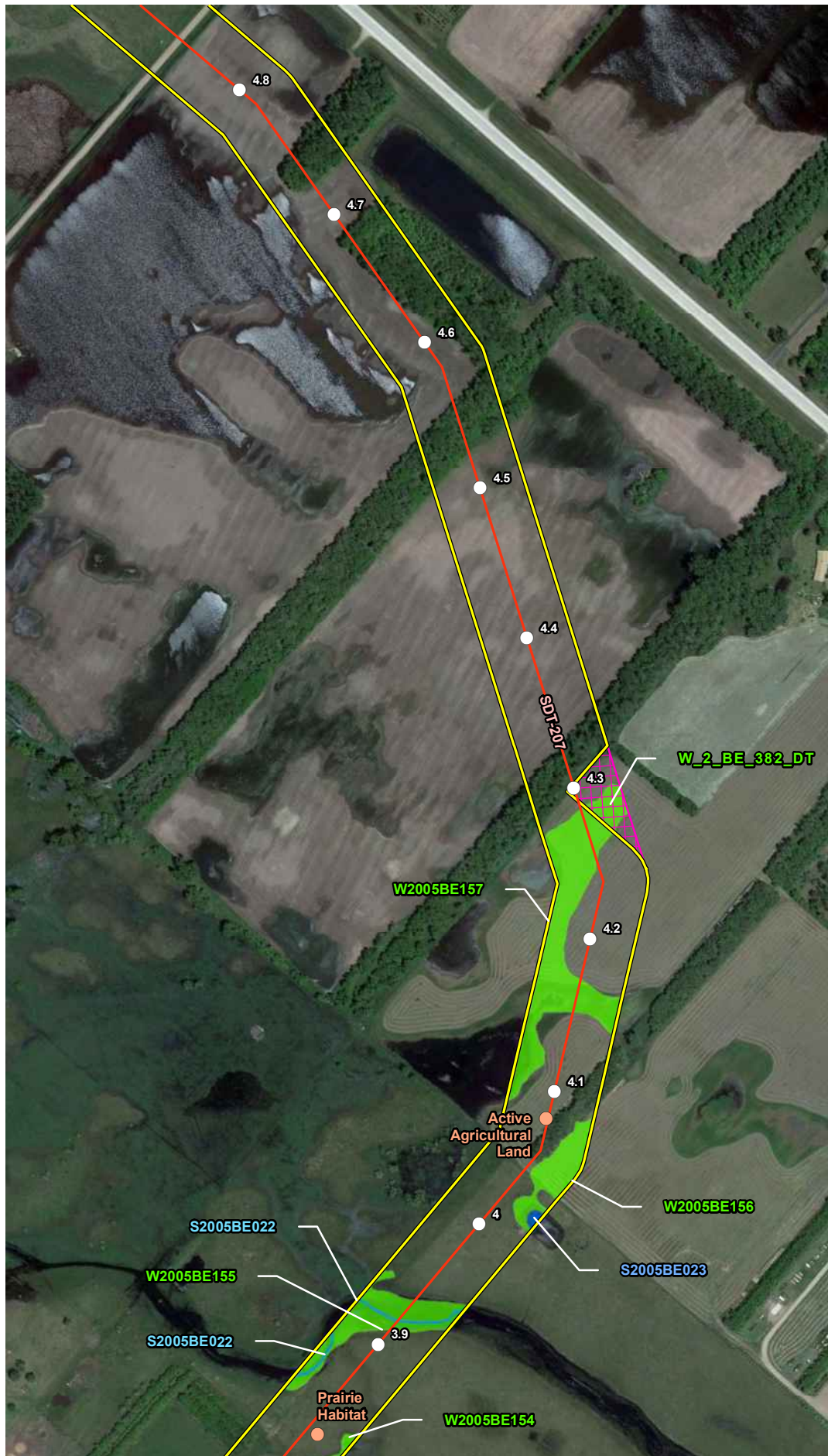
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Sheet 438 of 517

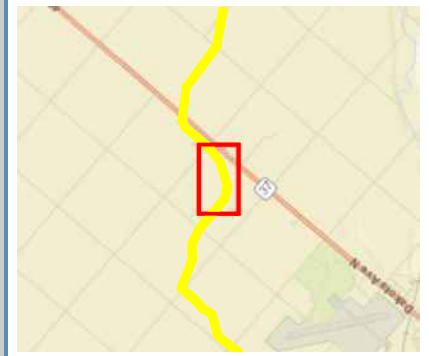
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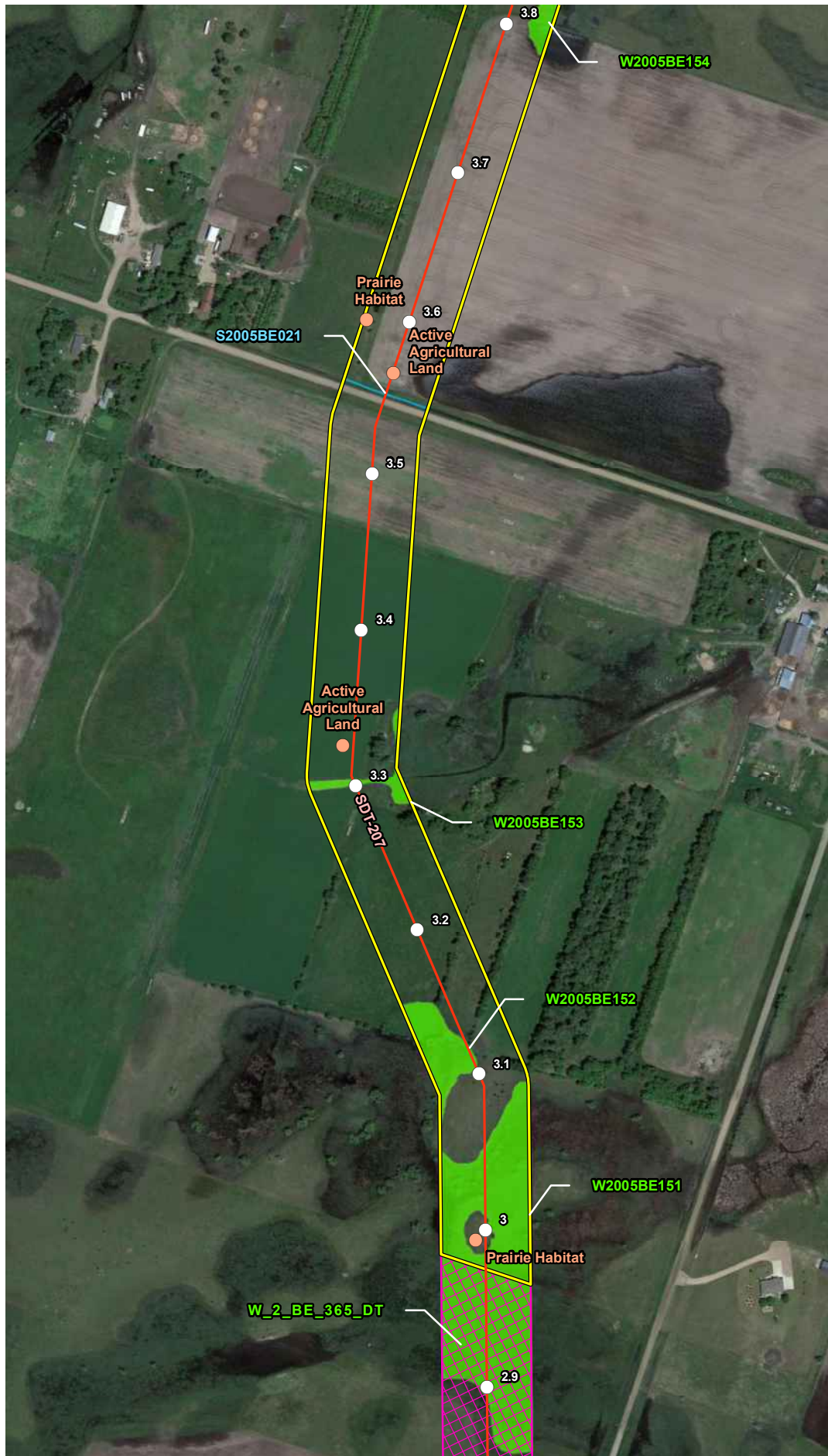
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Sheet:
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 Sheet 439 of 517

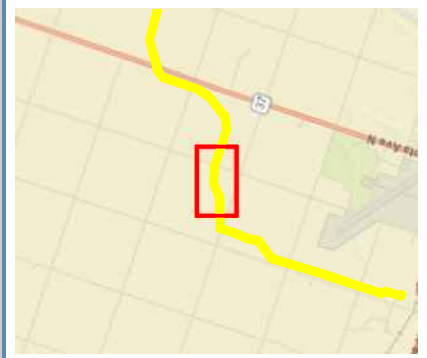
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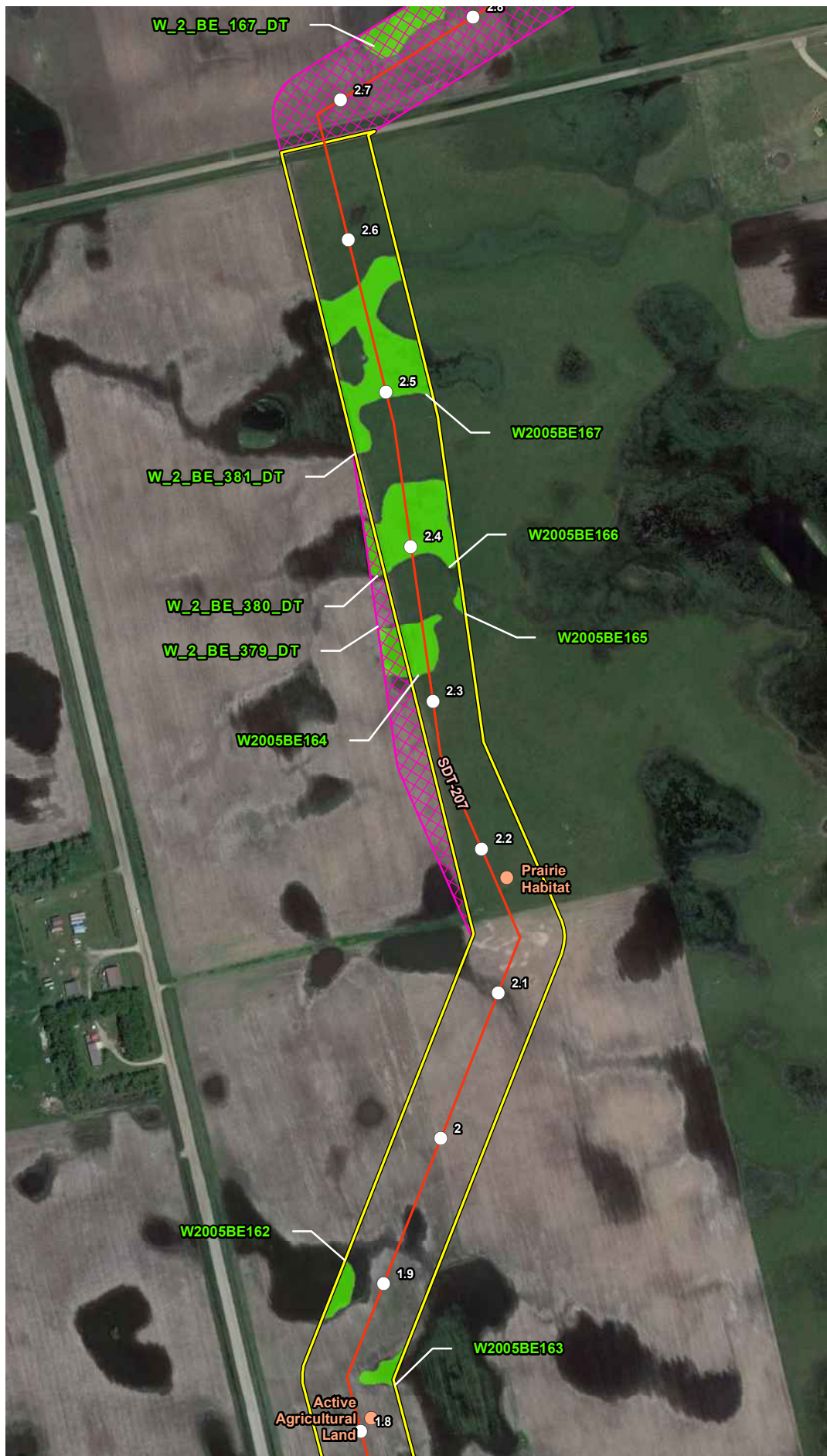
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Sheet:
440
Sheet 440 of 517

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NAD 1983 UTM Zone 14N

Sheet:
441
Sheet 441 of 517

Drawing Number:
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Projection:
 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 442
 Sheet 442 of 517

Drawing Number:
 2001-21-002
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AERIAL MAP



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Sheet:
443
Sheet 443 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- Desktop Review Area
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- Stream
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- PEM Wetland
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- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

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Revision description

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Figure Number:

2

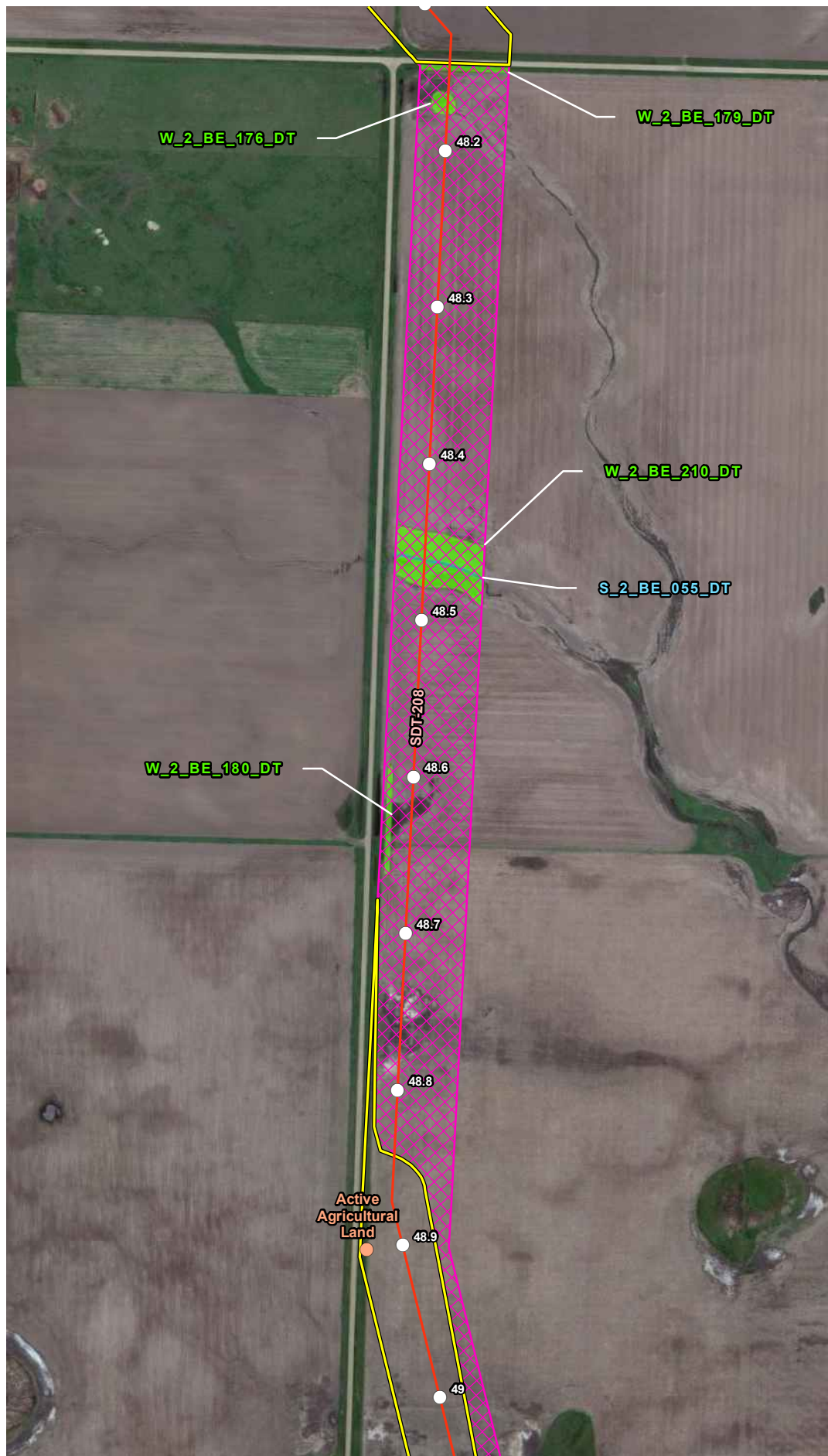
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
444
Sheet 444 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

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 1 inch = 500 feet

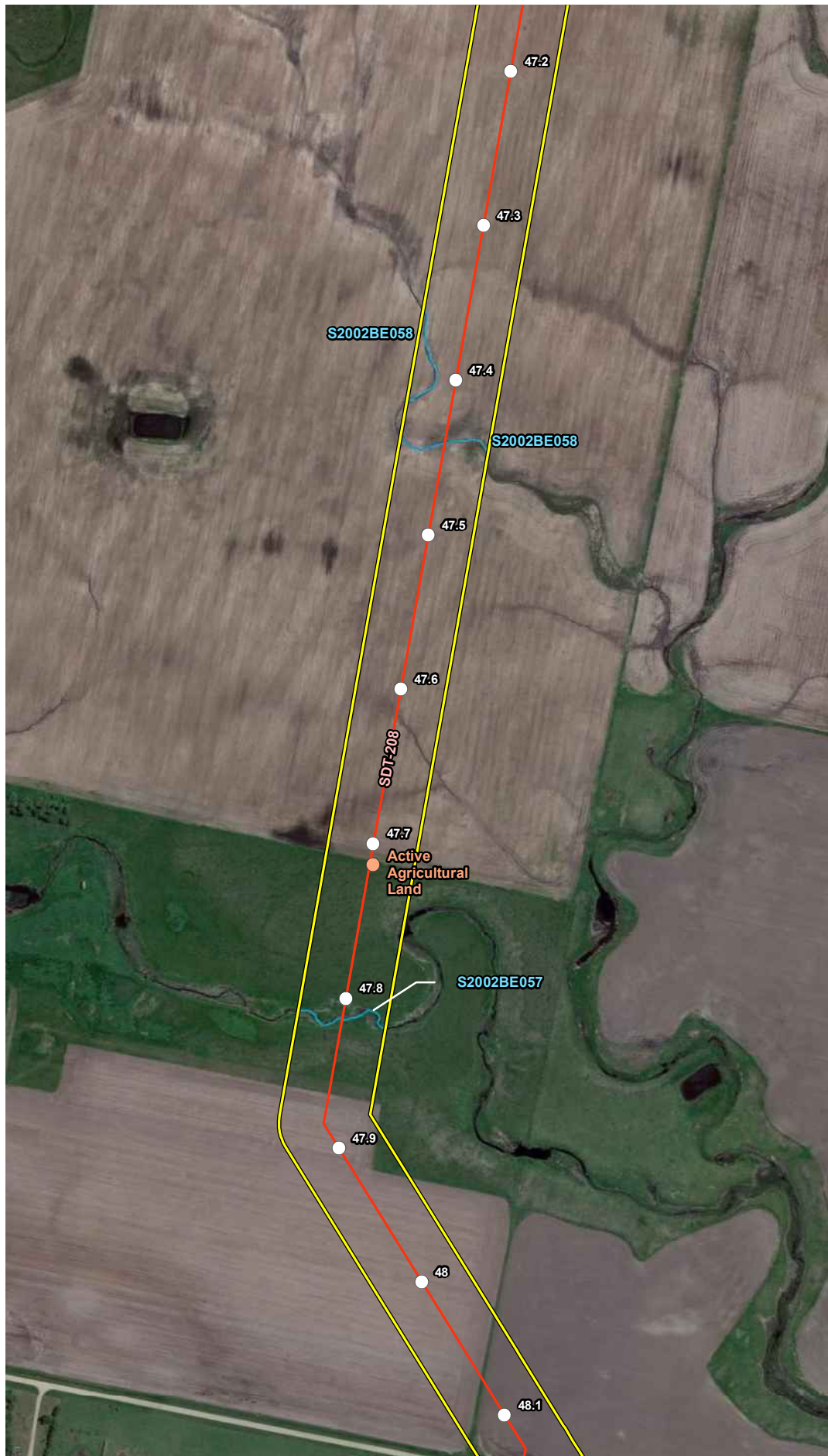
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 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
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 Sheet 445 of 517

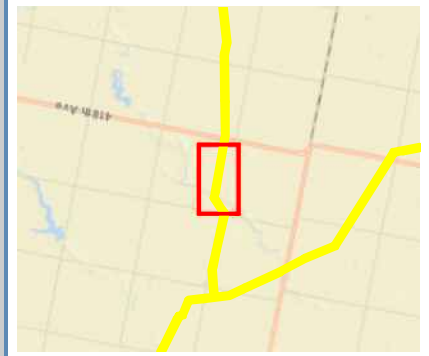
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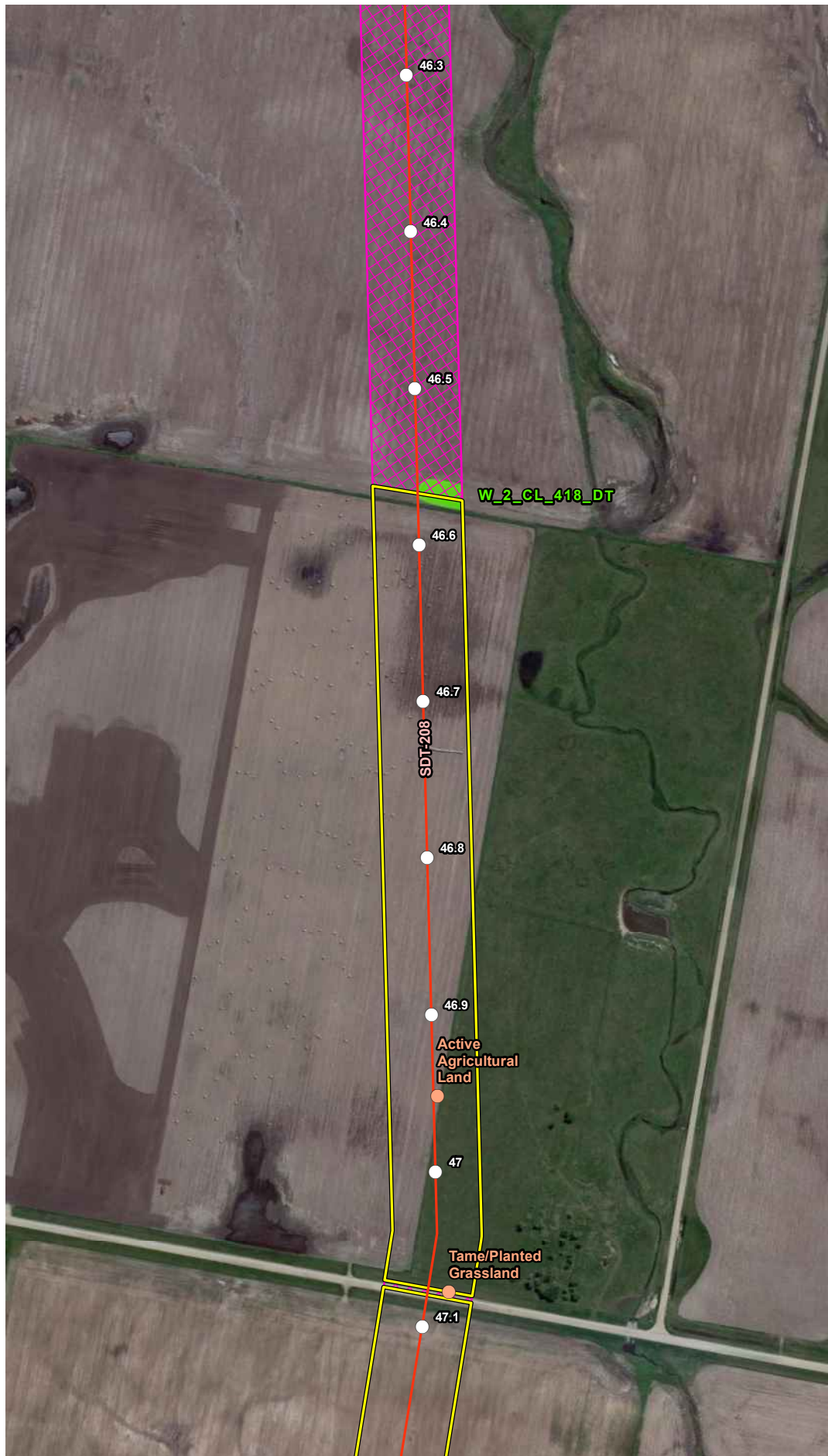
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NAD 1983 UTM Zone 14N

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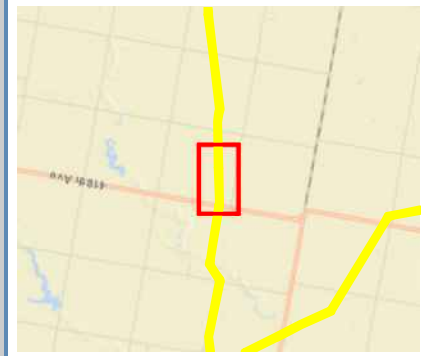
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Figure Number: 2

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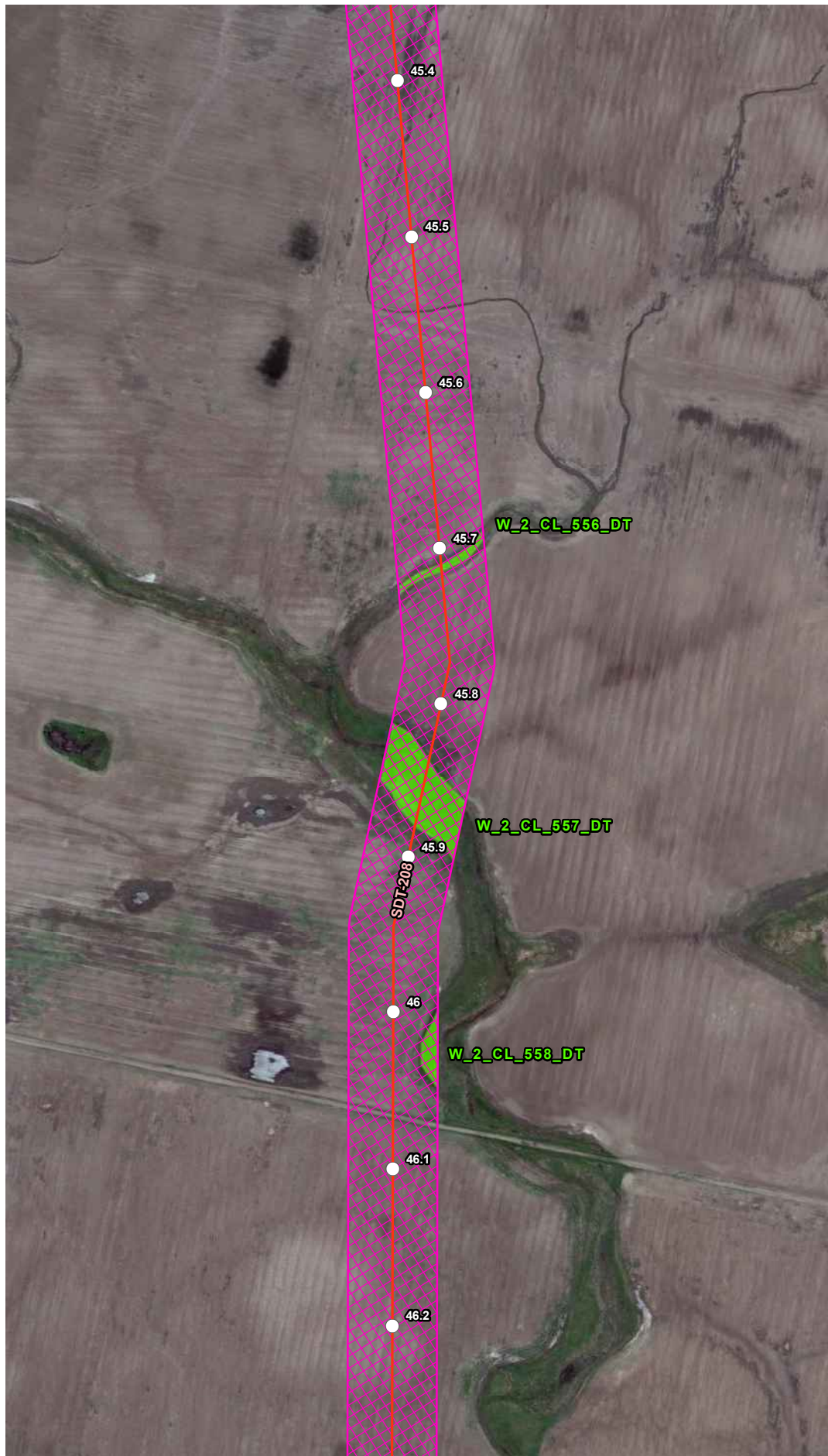
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 447 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



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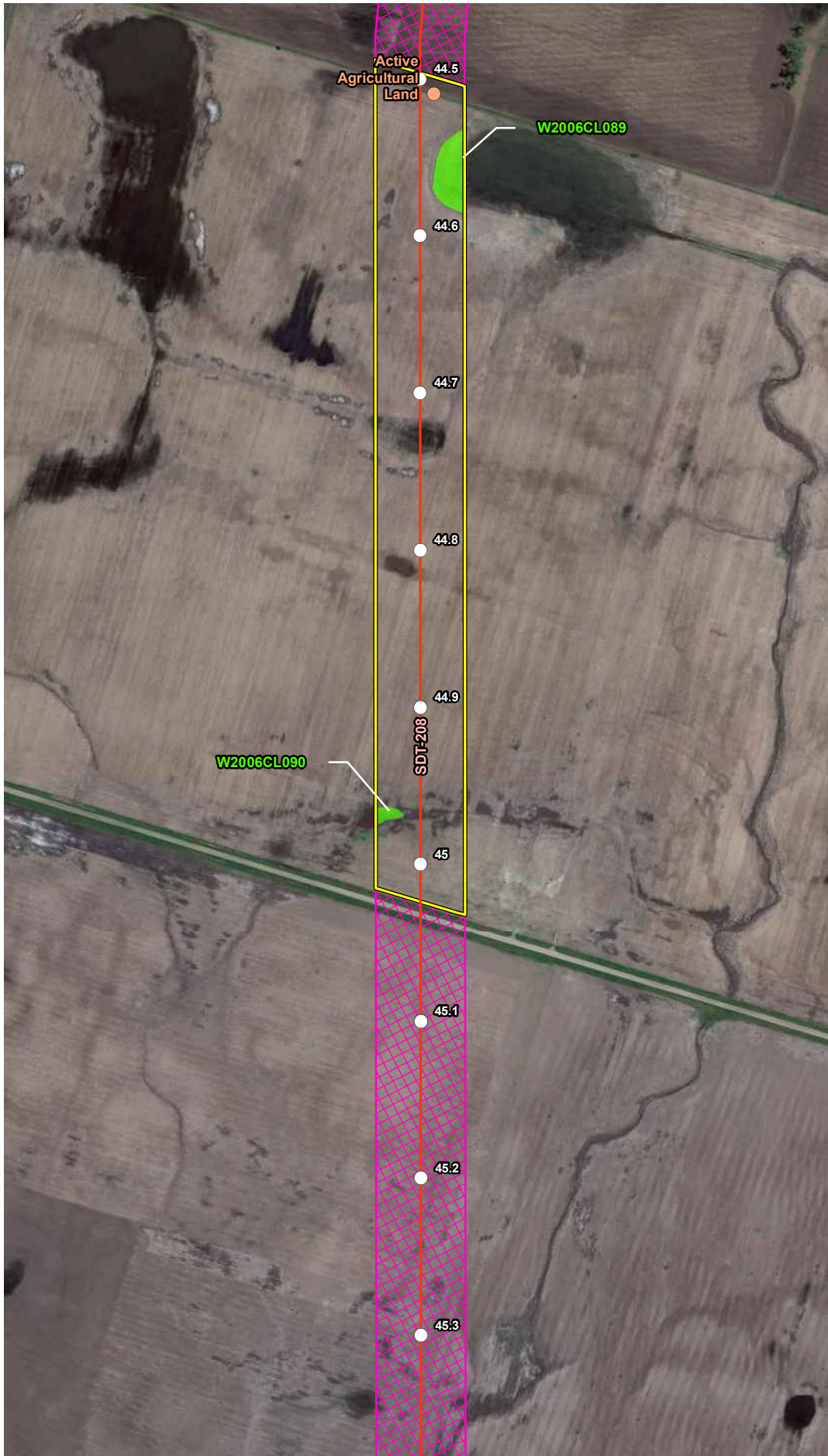
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Sheet:
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Sheet 448 of 517

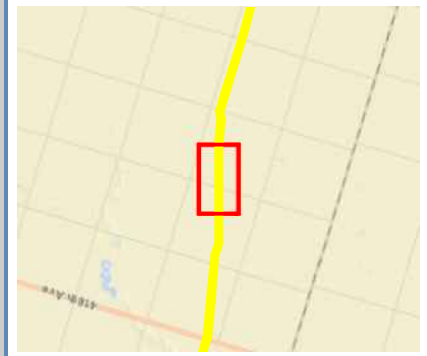
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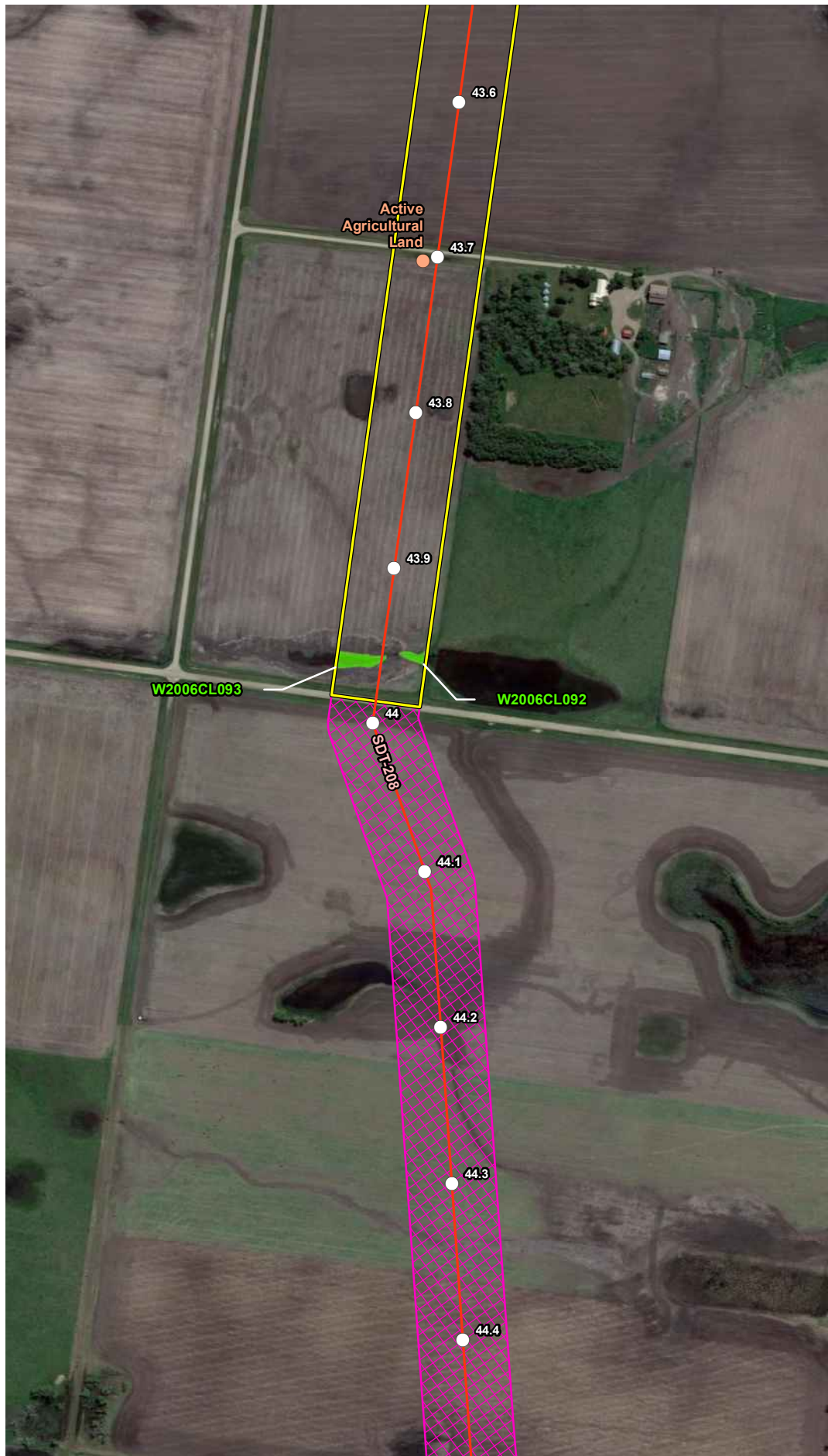
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Sheet:
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Sheet 449 of 517

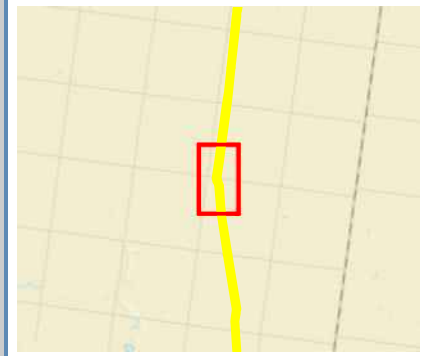
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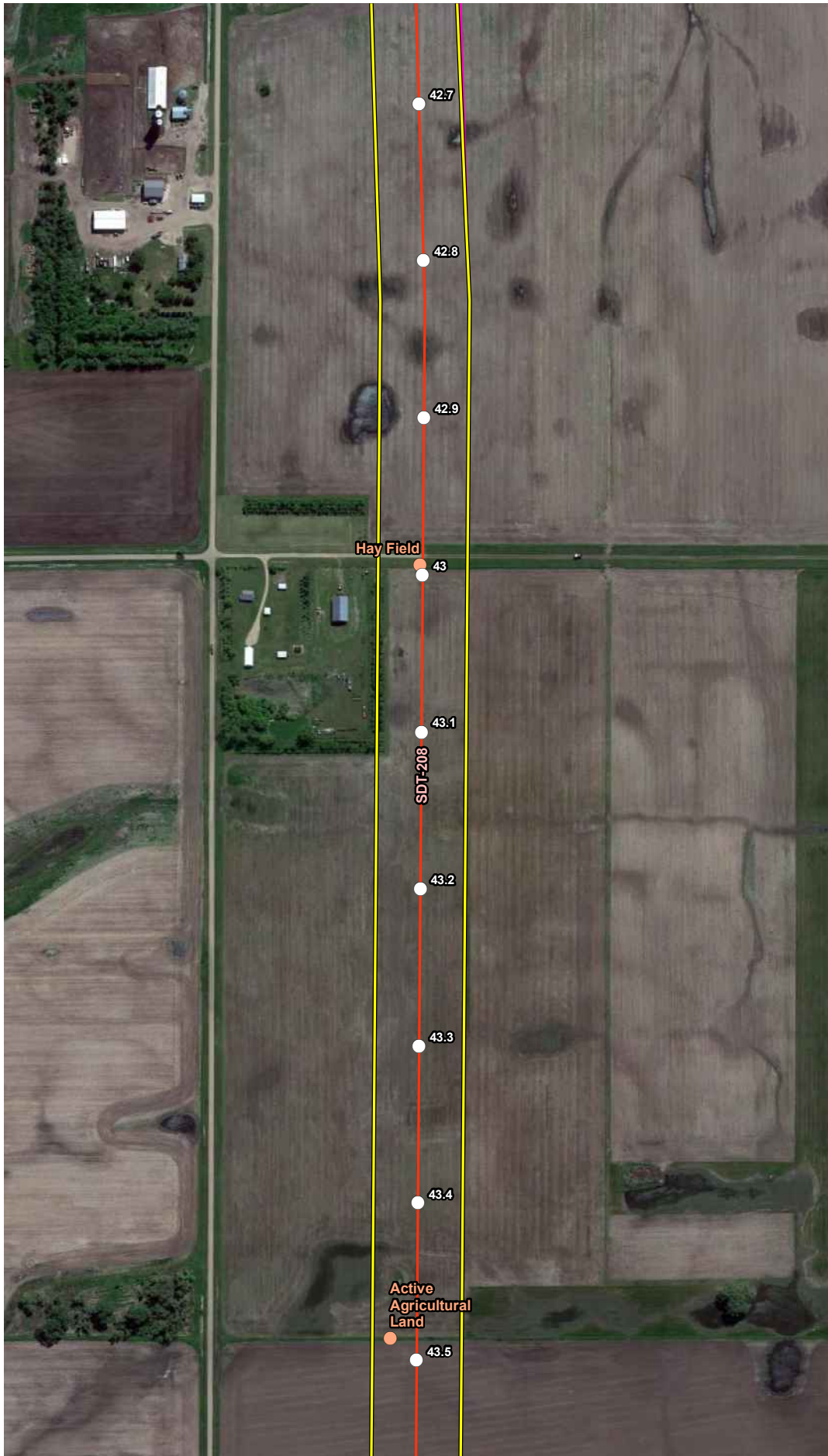
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 450 of 517

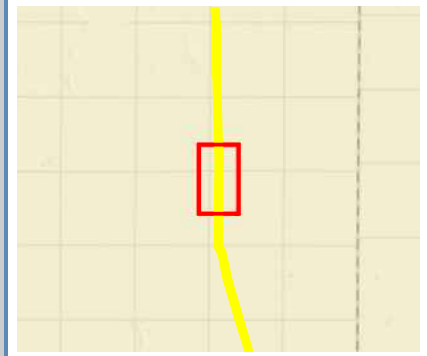
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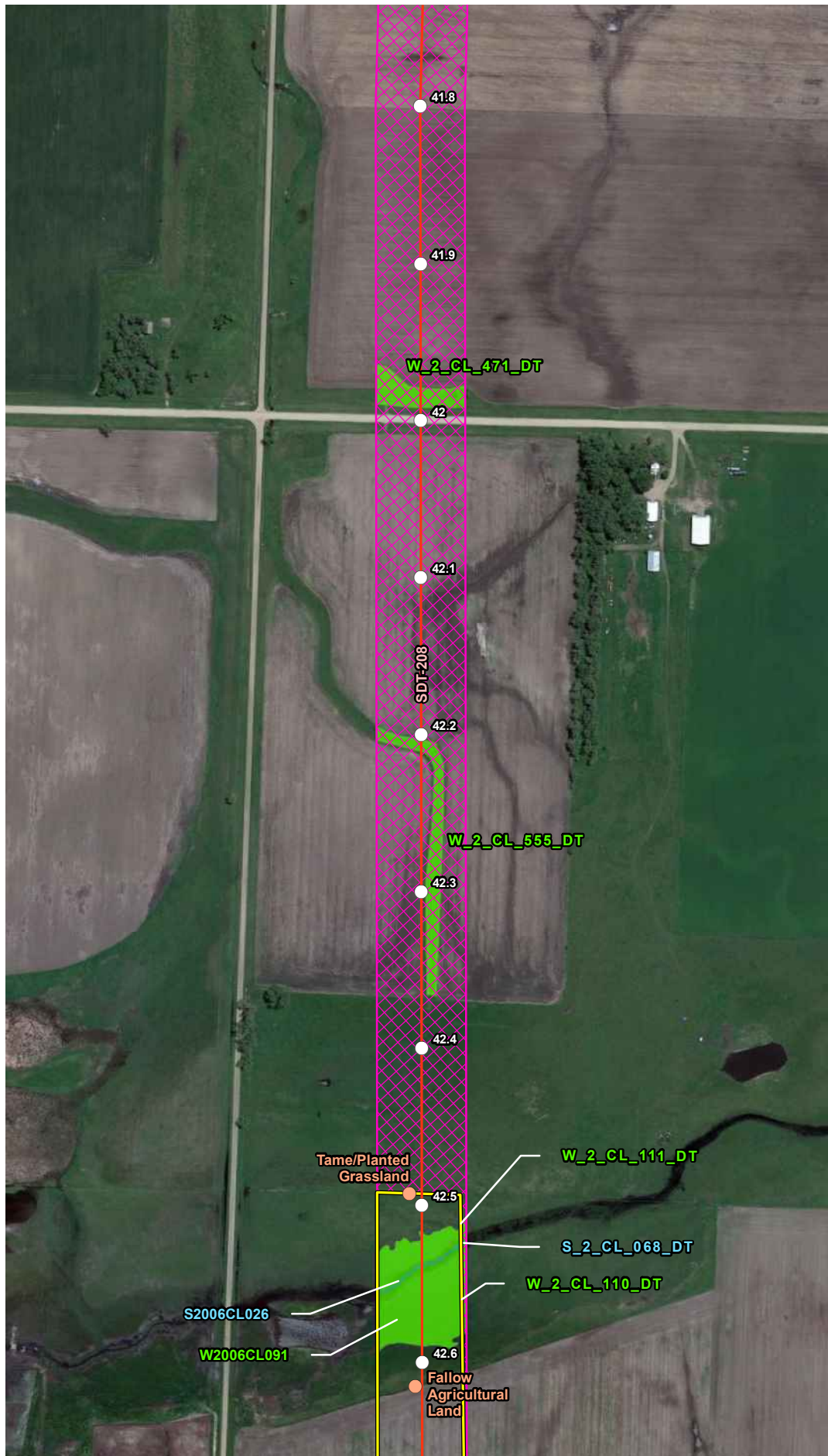
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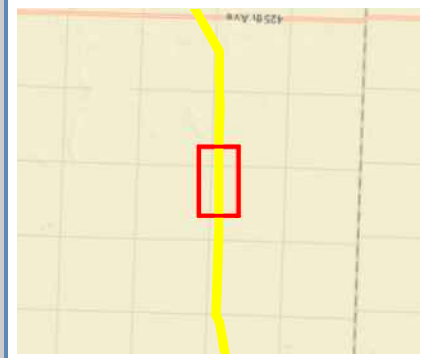
Sheet:
451
Sheet 451 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

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0 250 500 Feet



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Figure Number:

2

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1 inch = 500 feet

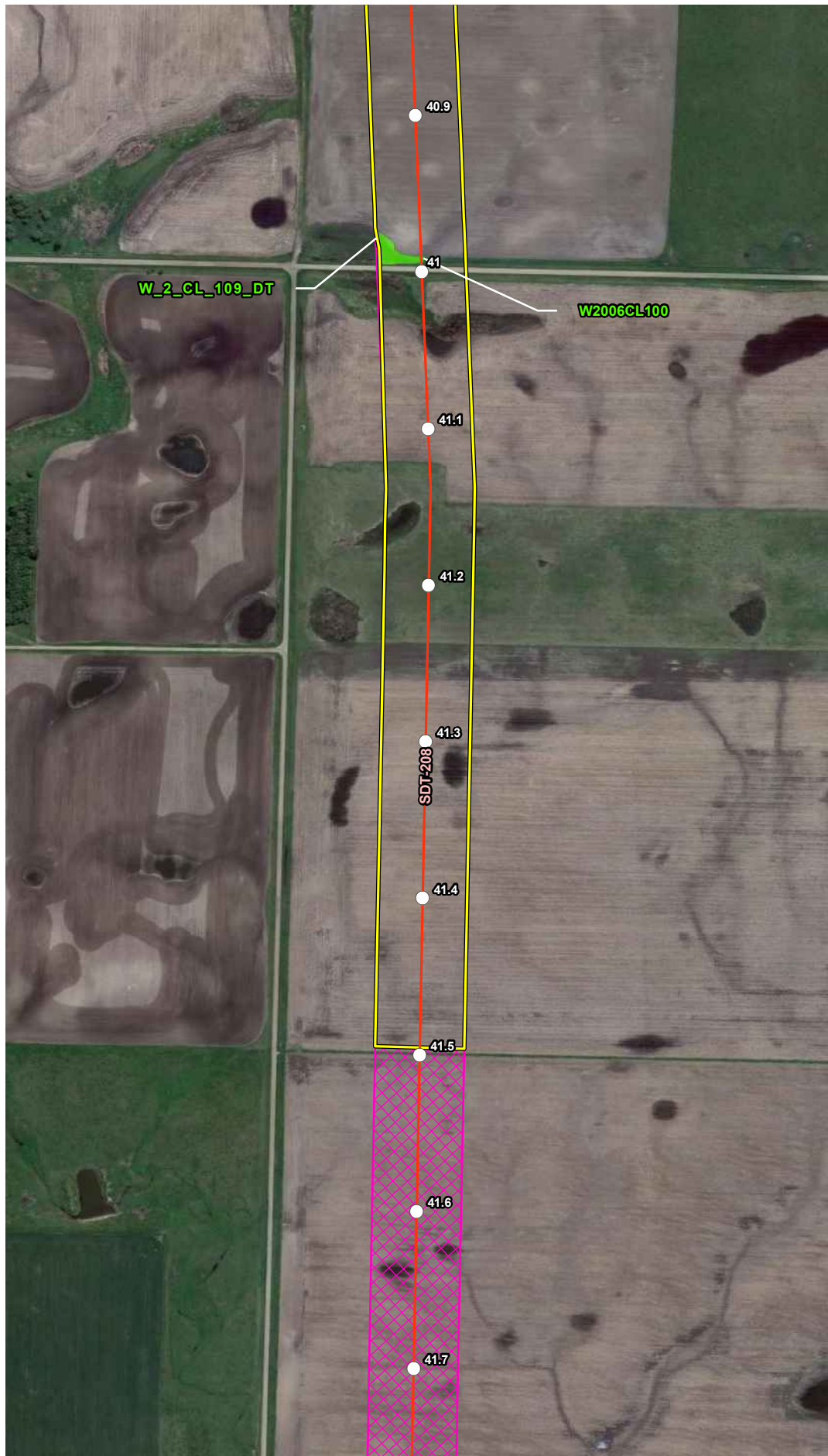
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NAD 1983 UTM Zone 14N

Sheet:
452
Sheet 452 of 517

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AERIAL MAP



VICINITY MAP



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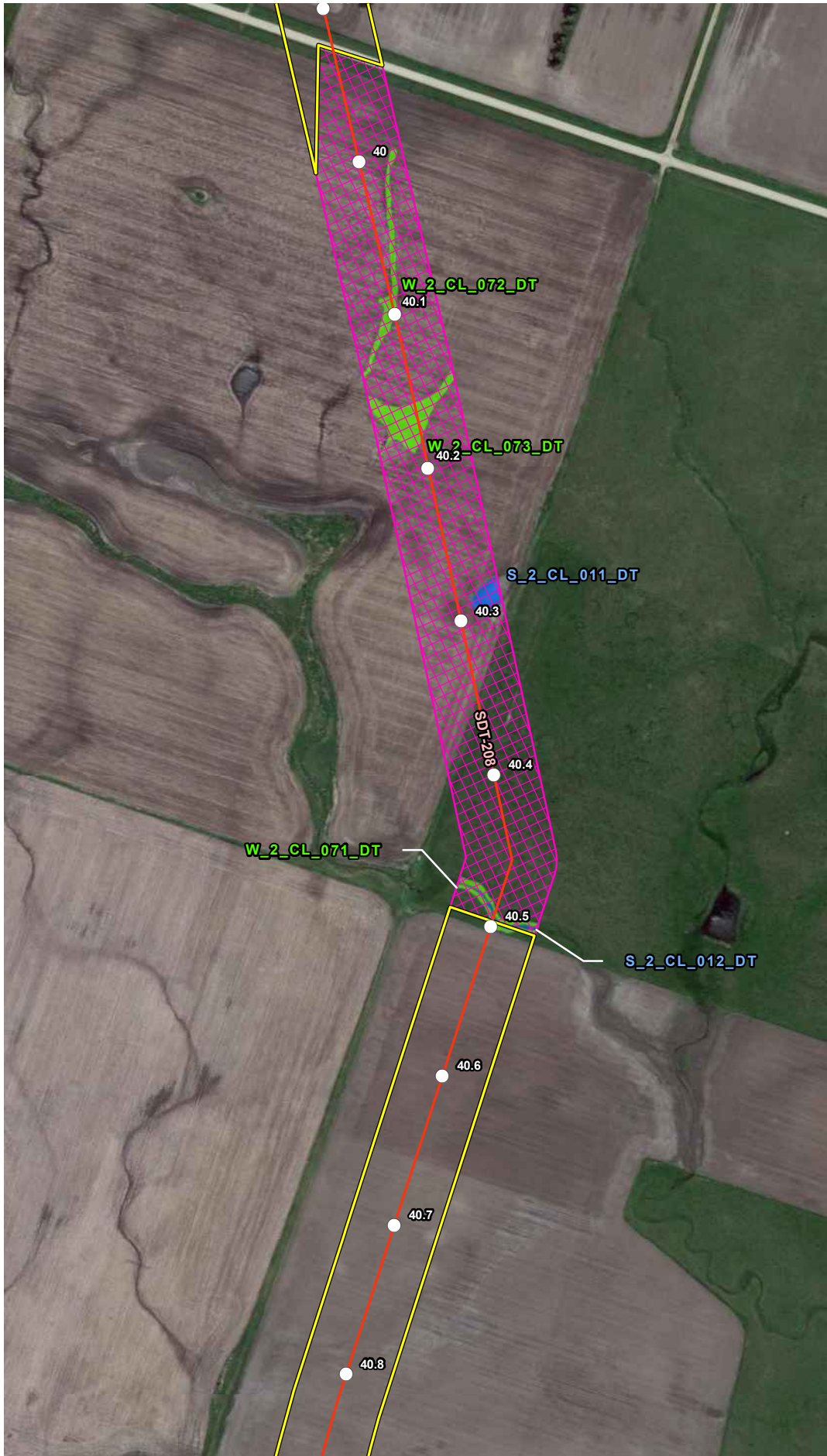
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 NAD 1983 UTM Zone 14N

Sheet:
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 Sheet 453 of 517

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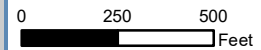


VICINITY MAP



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Scale: 1:6,000
 1 inch = 500 feet

Projection: Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet: 454
 Sheet 454 of 517

Drawing Number: 2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



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Figure Number:

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Scale:

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1 inch = 500 feet

Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

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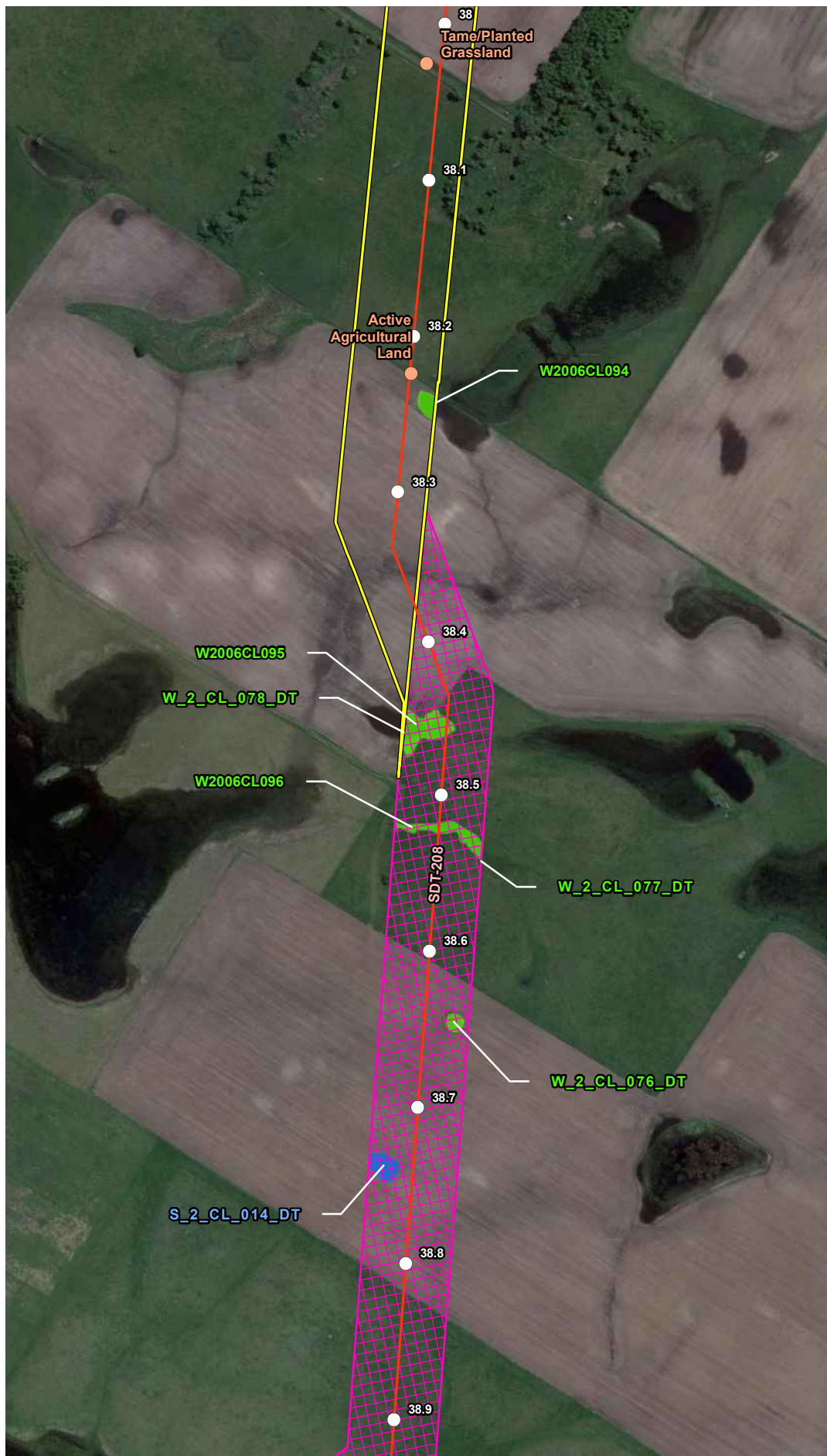
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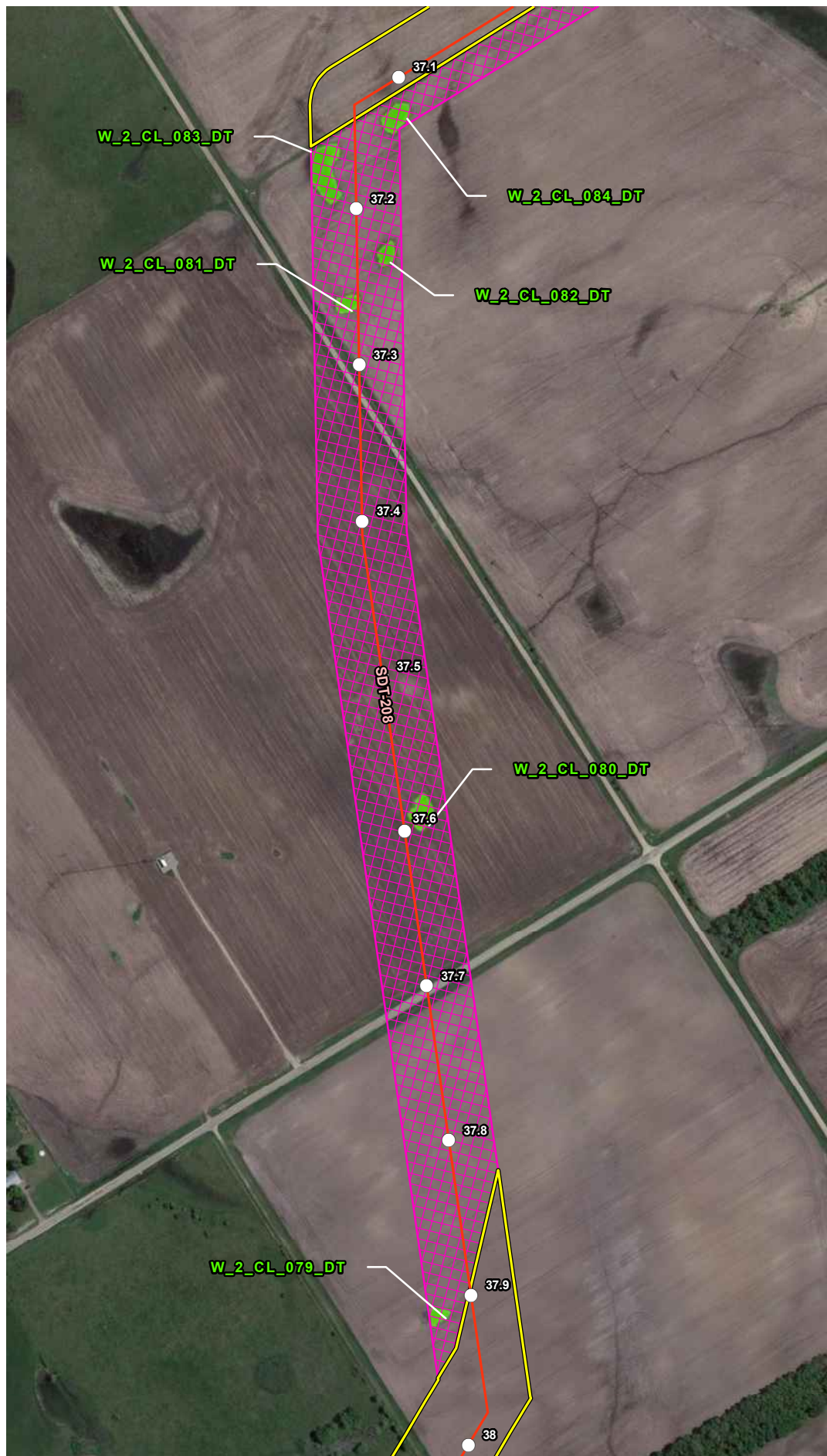
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 456 of 517

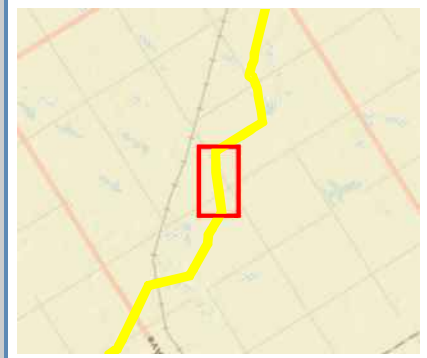
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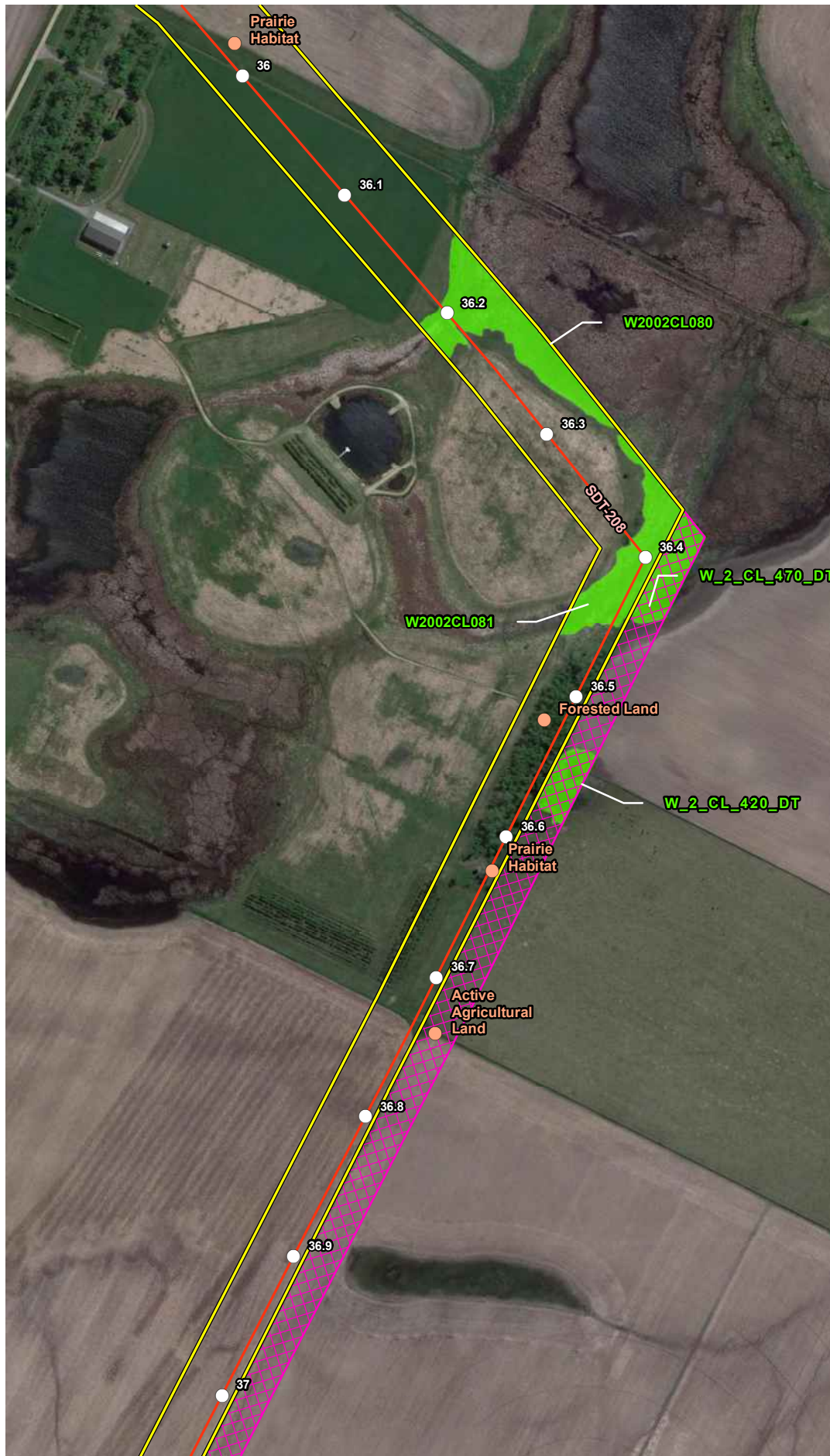
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NAD 1983 UTM Zone 14N

Sheet:
457
Sheet 457 of 517

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AERIAL MAP



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Sheet:
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Sheet 458 of 517

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- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
Date: YYYY-MM-DD	Revised by: TBD	Checked by: TBD
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
459
Sheet 459 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
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0 250 500 Feet



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Figure Number: 2

Scale:
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1 inch = 500 feet

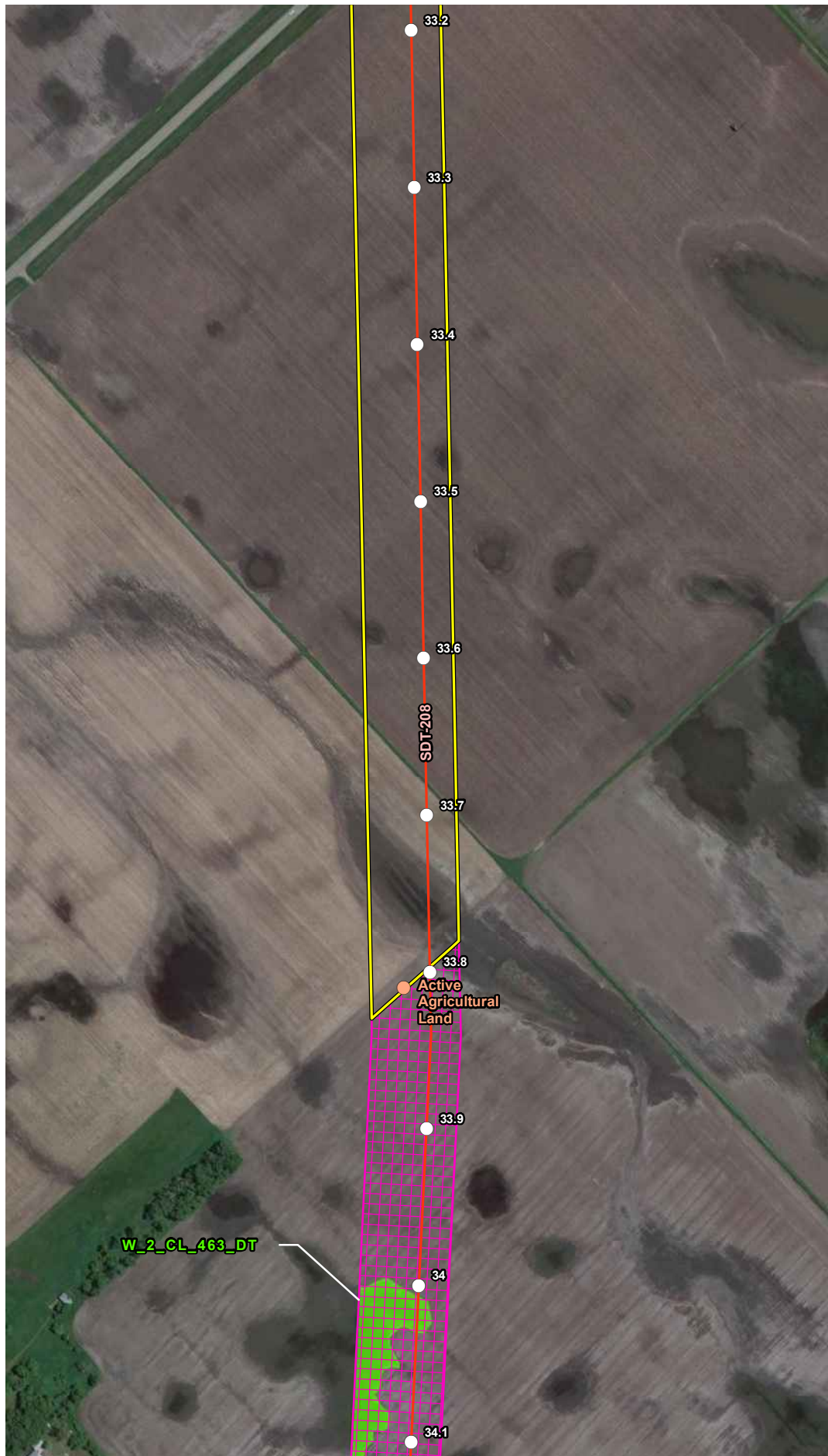
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
460
Sheet 460 of 517

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AERIAL MAP



VICINITY MAP



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Figure Number: 2

Scale:
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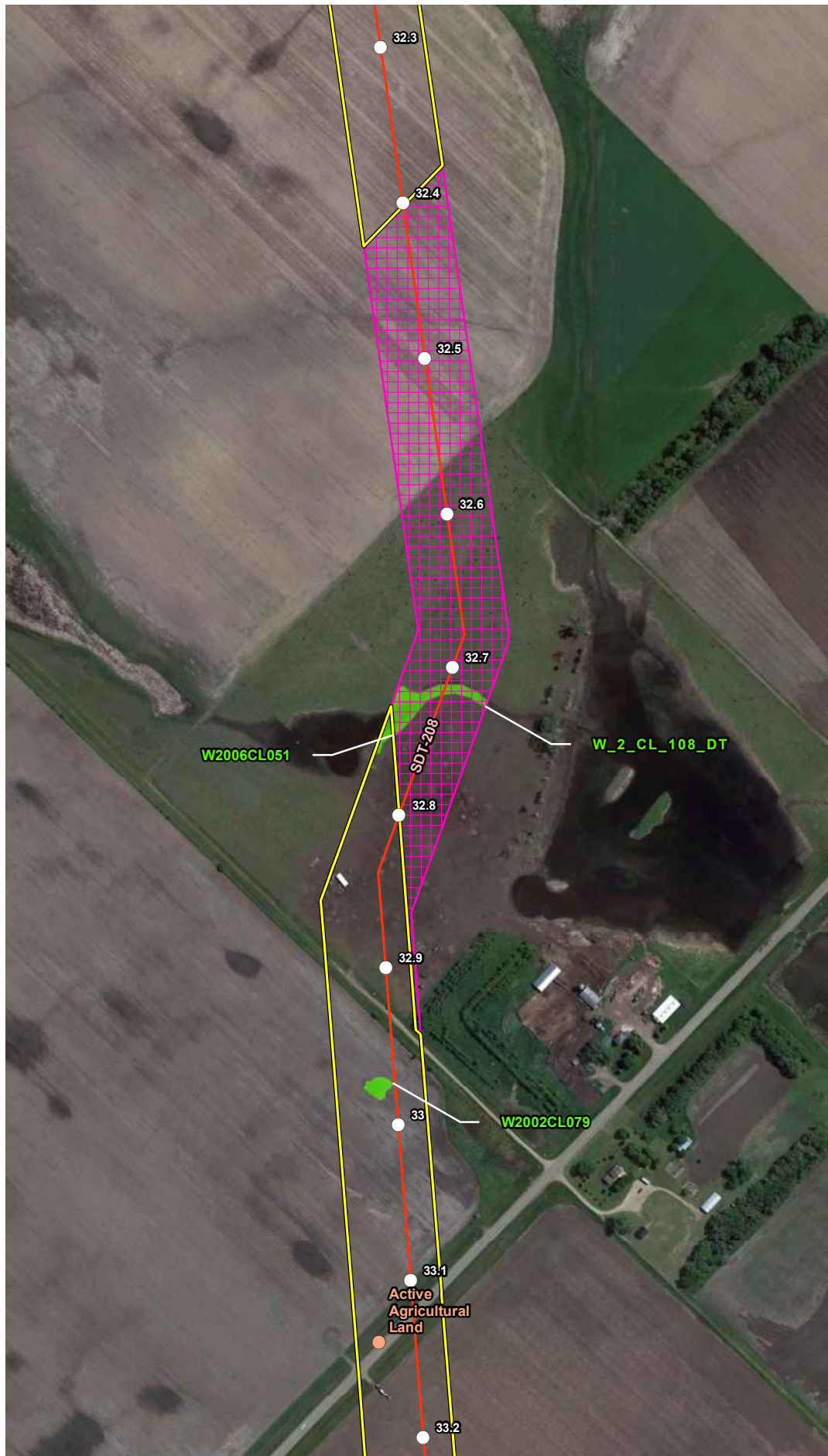
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
461
Sheet 461 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number:

2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
462
Sheet 462 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number:

2

Scale:

Scale: 1:6,000

1 inch = 500 feet

Projection:

Transverse Mercator

NAD 1983 UTM Zone 14N

Sheet:

463

Sheet 463 of 517

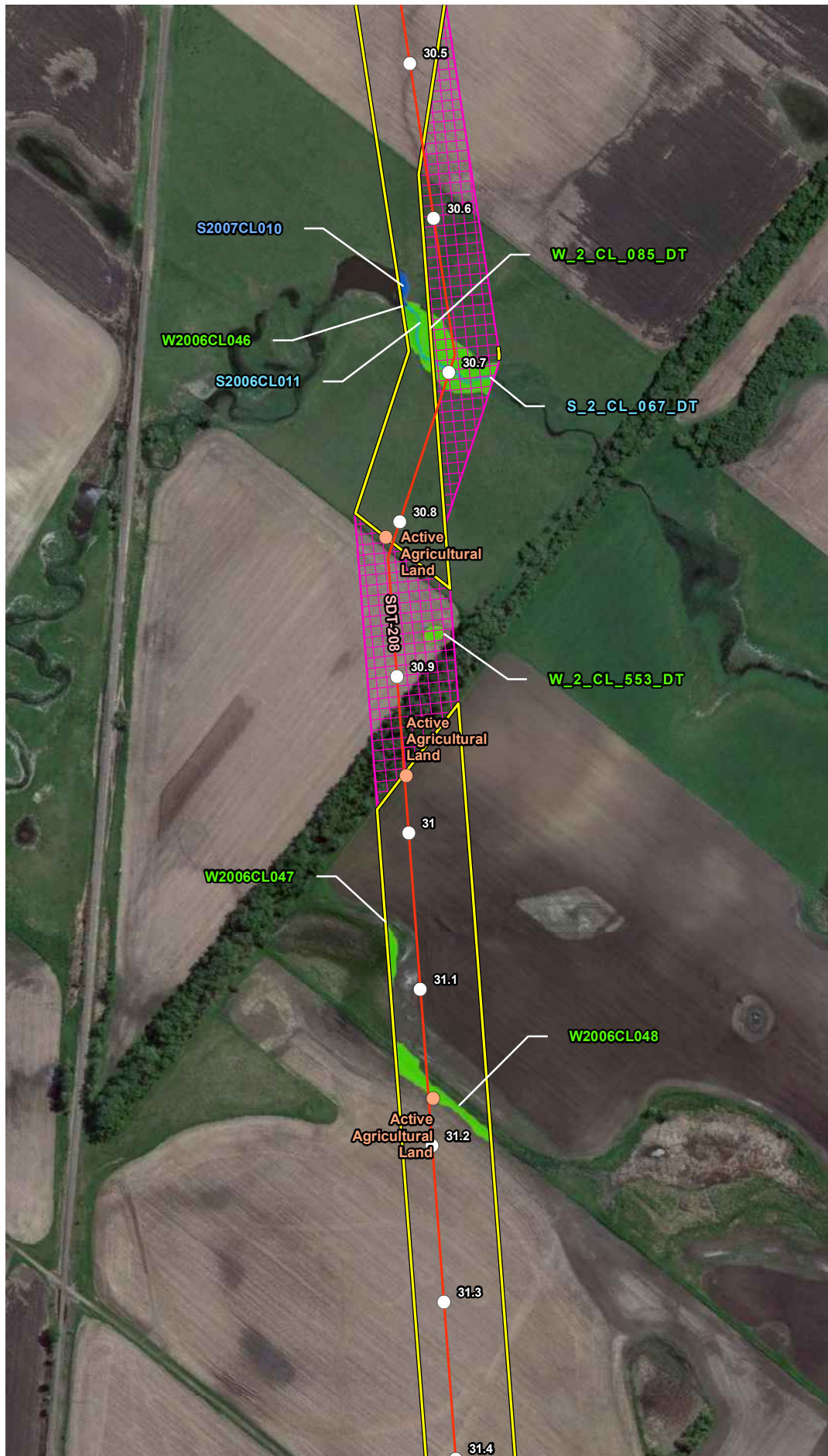
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number: 2

Scale:
 Scale: 1:6,000
 1 inch = 500 feet

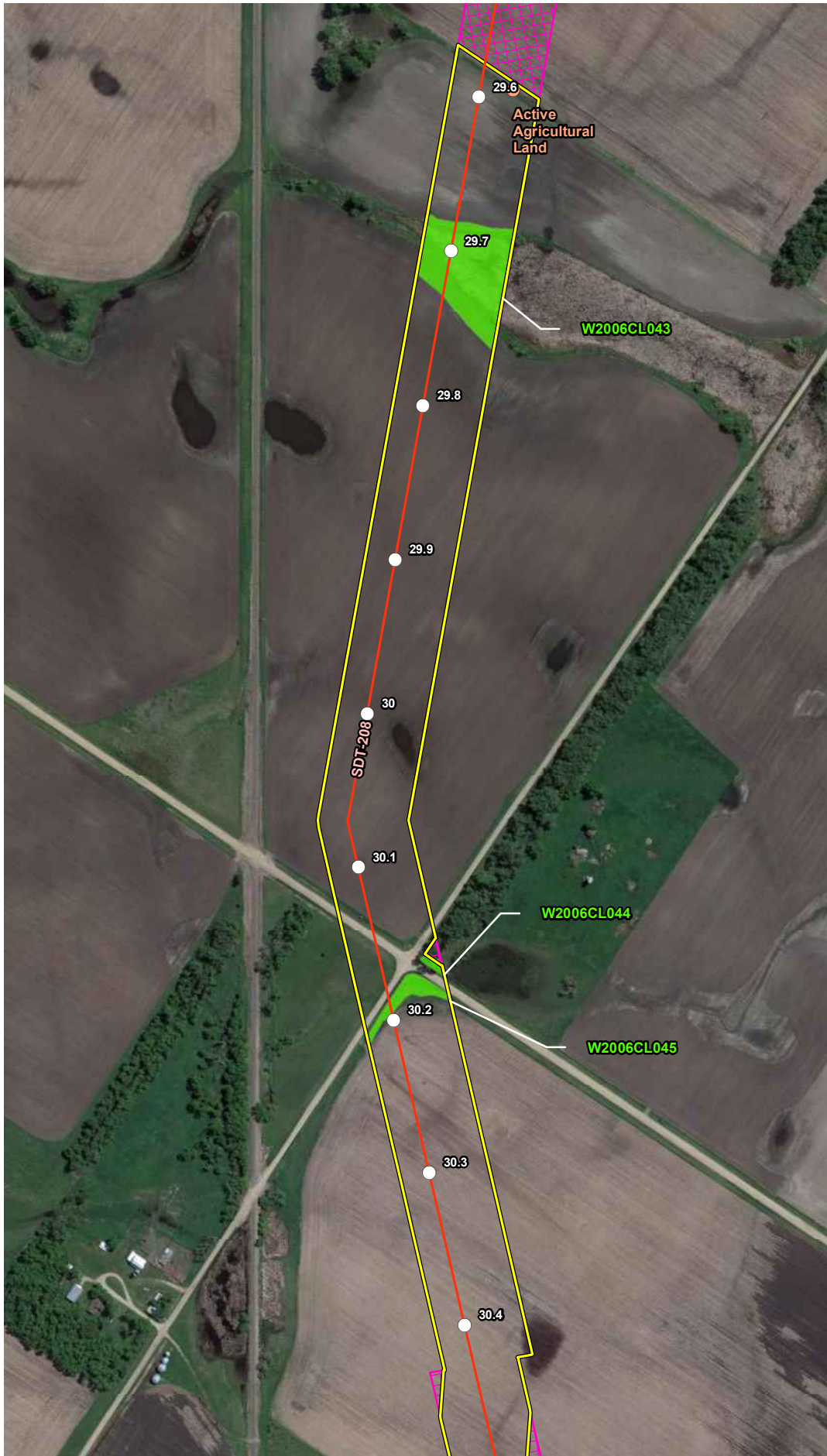
Projection:
 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 464
 Sheet 464 of 517

Drawing Number:
 2001-21-002
 Current Revision

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0 250 500 Feet



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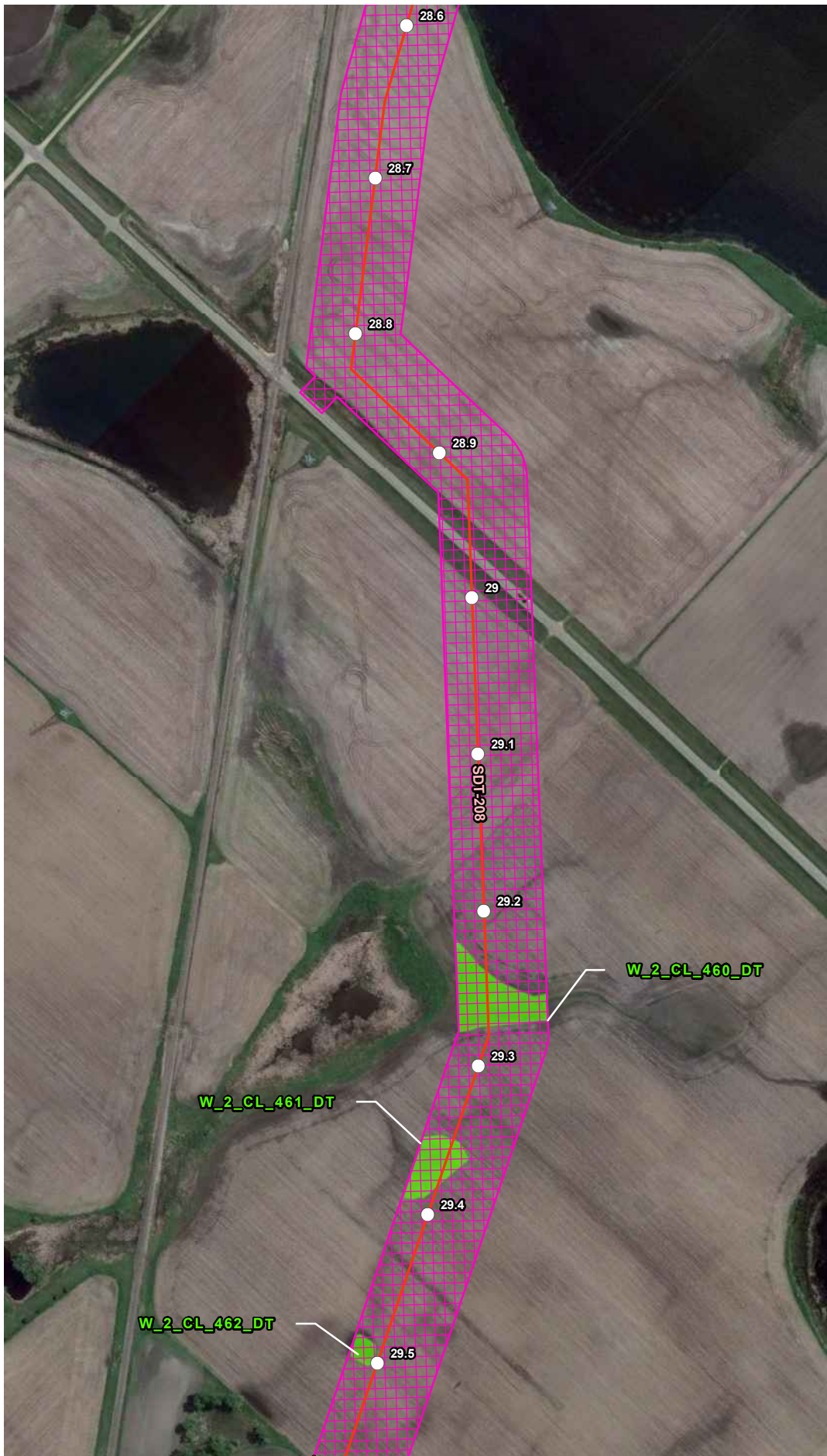
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NAD 1983 UTM Zone 14N

Sheet:
465
Sheet 465 of 517

Drawing Number:
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AERIAL MAP



VICINITY MAP



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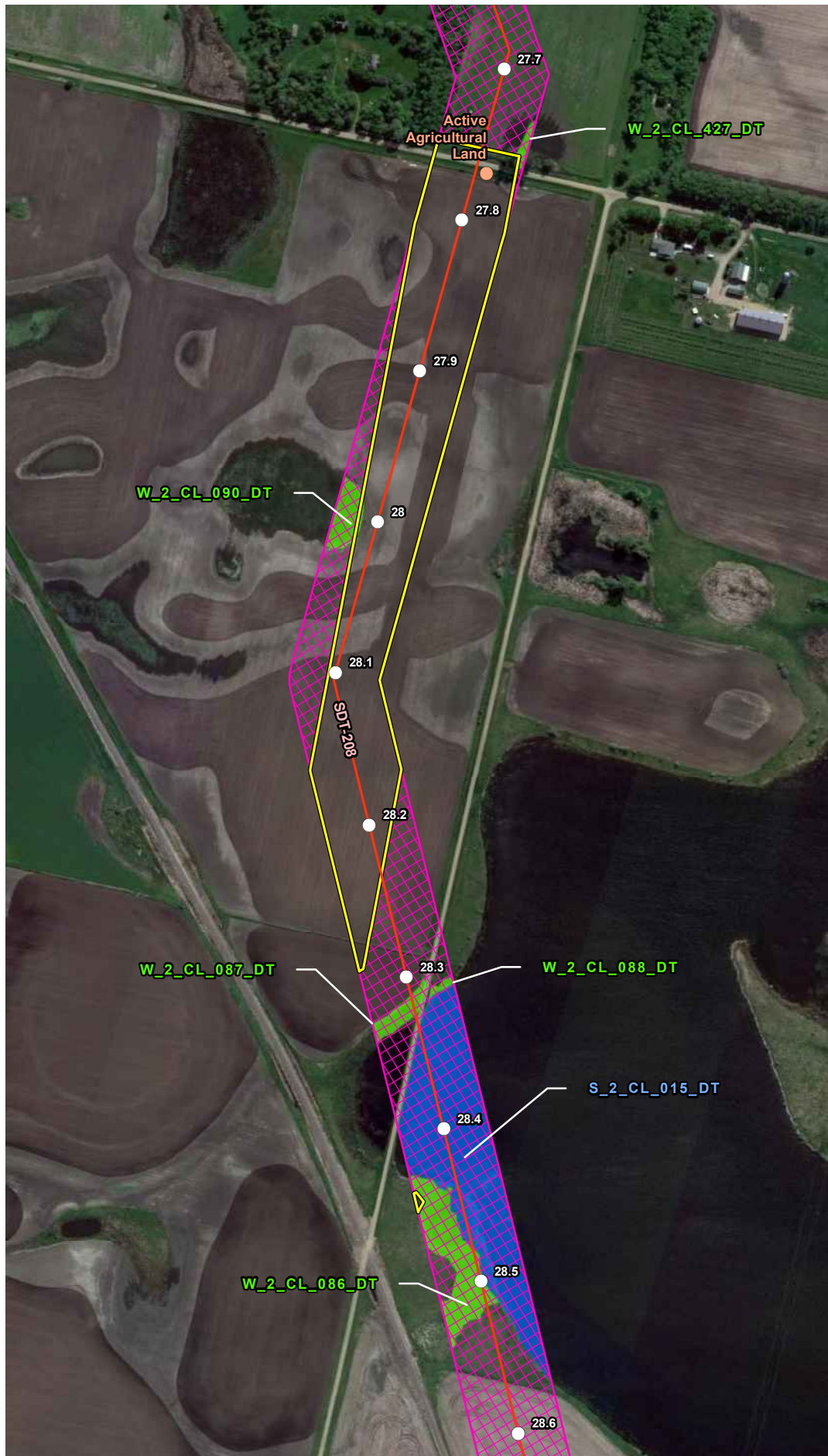
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Projection:
Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
466
 Sheet 466 of 517

Drawing Number:
2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



LEGEND

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0 250 500 Feet



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Figure Number:

2

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
467
Sheet 467 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

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0 250 500 Feet



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Figure Number:

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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
468
Sheet 468 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
Scale: 1:6,000
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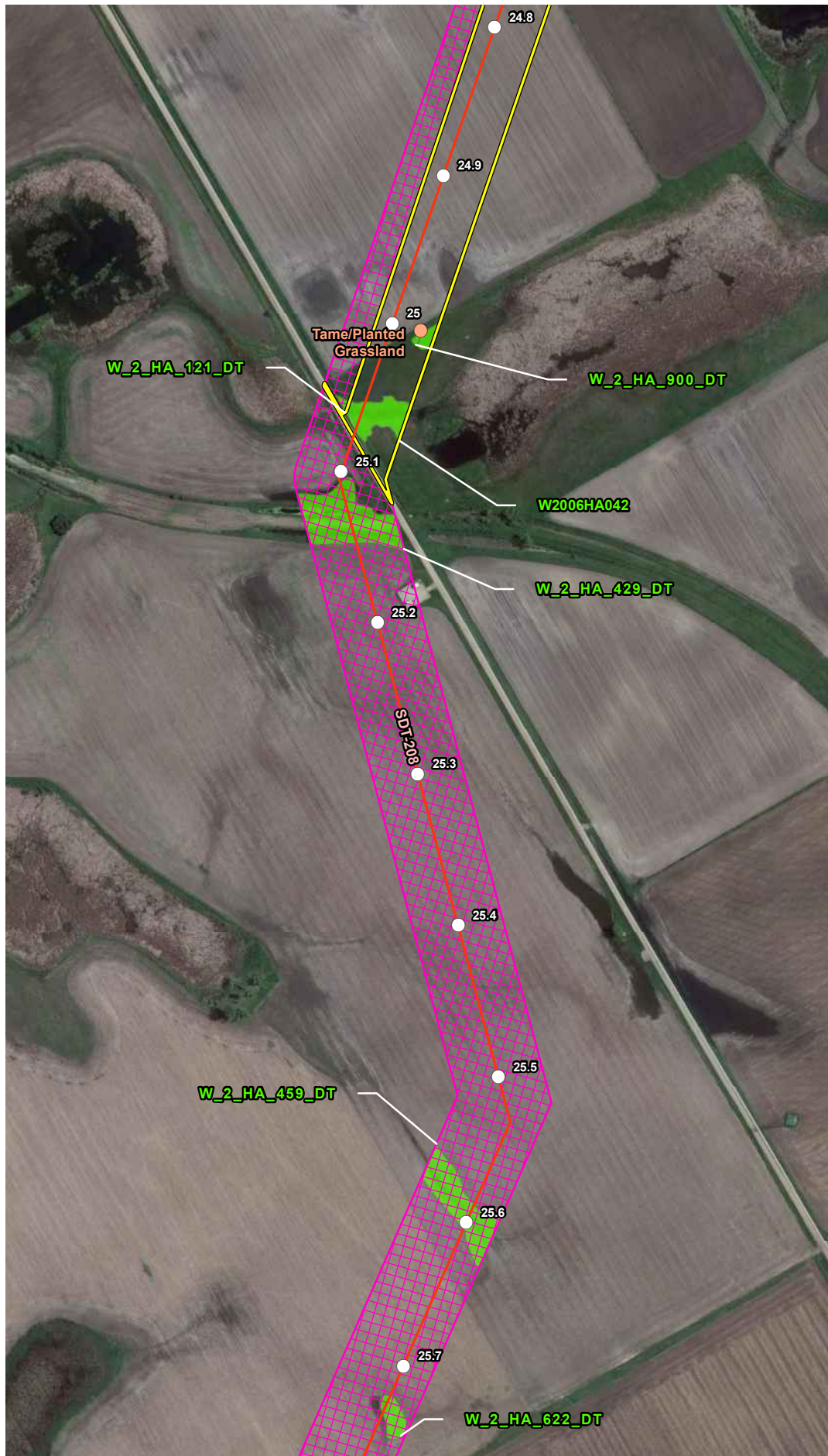
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
469
Sheet 469 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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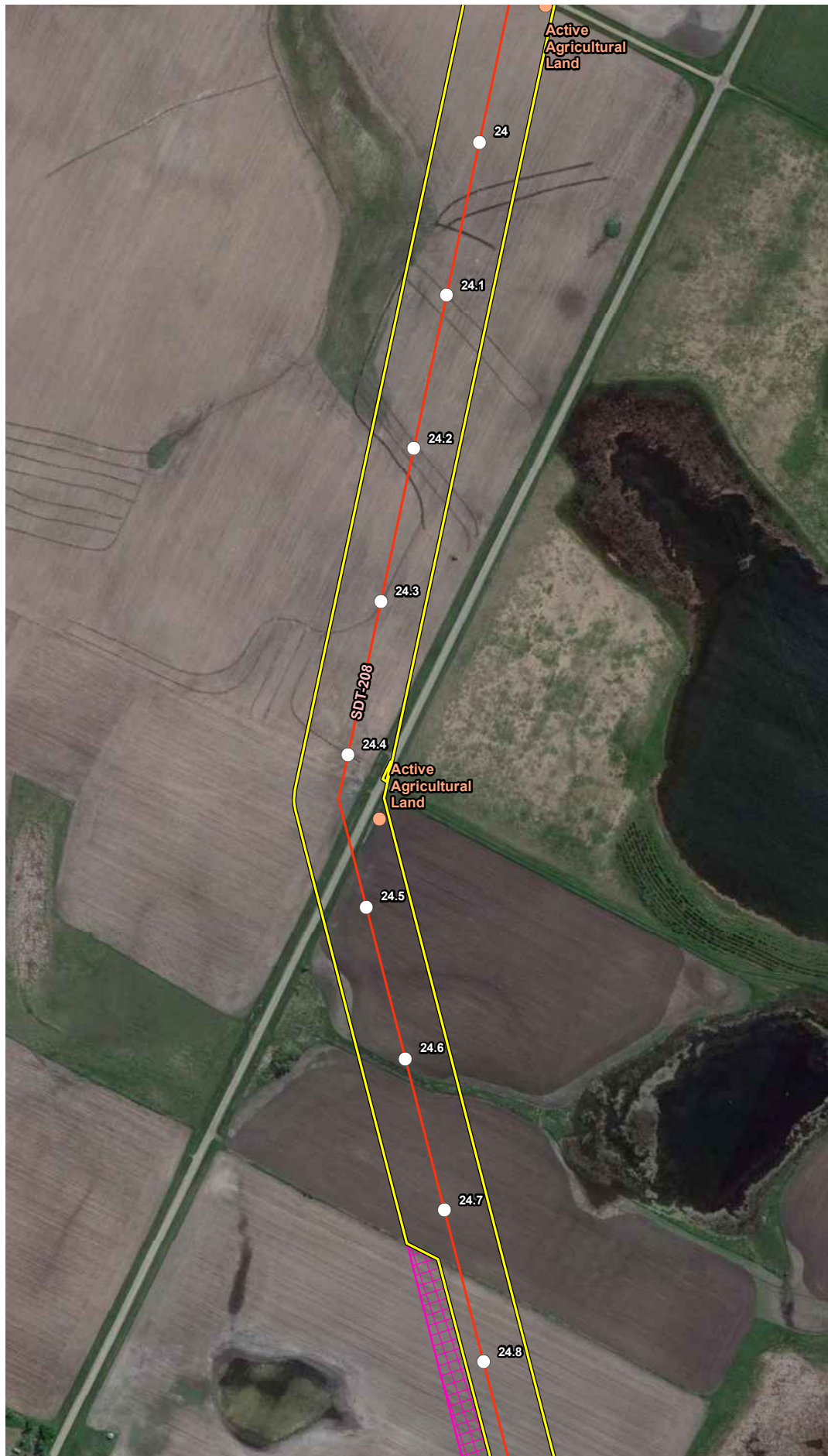
Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
470
Sheet 470 of 517

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AERIAL MAP



VICINITY MAP



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NAD 1983 UTM Zone 14N

Sheet:
471
Sheet 471 of 517

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AERIAL MAP



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Figure Number:
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Scale:
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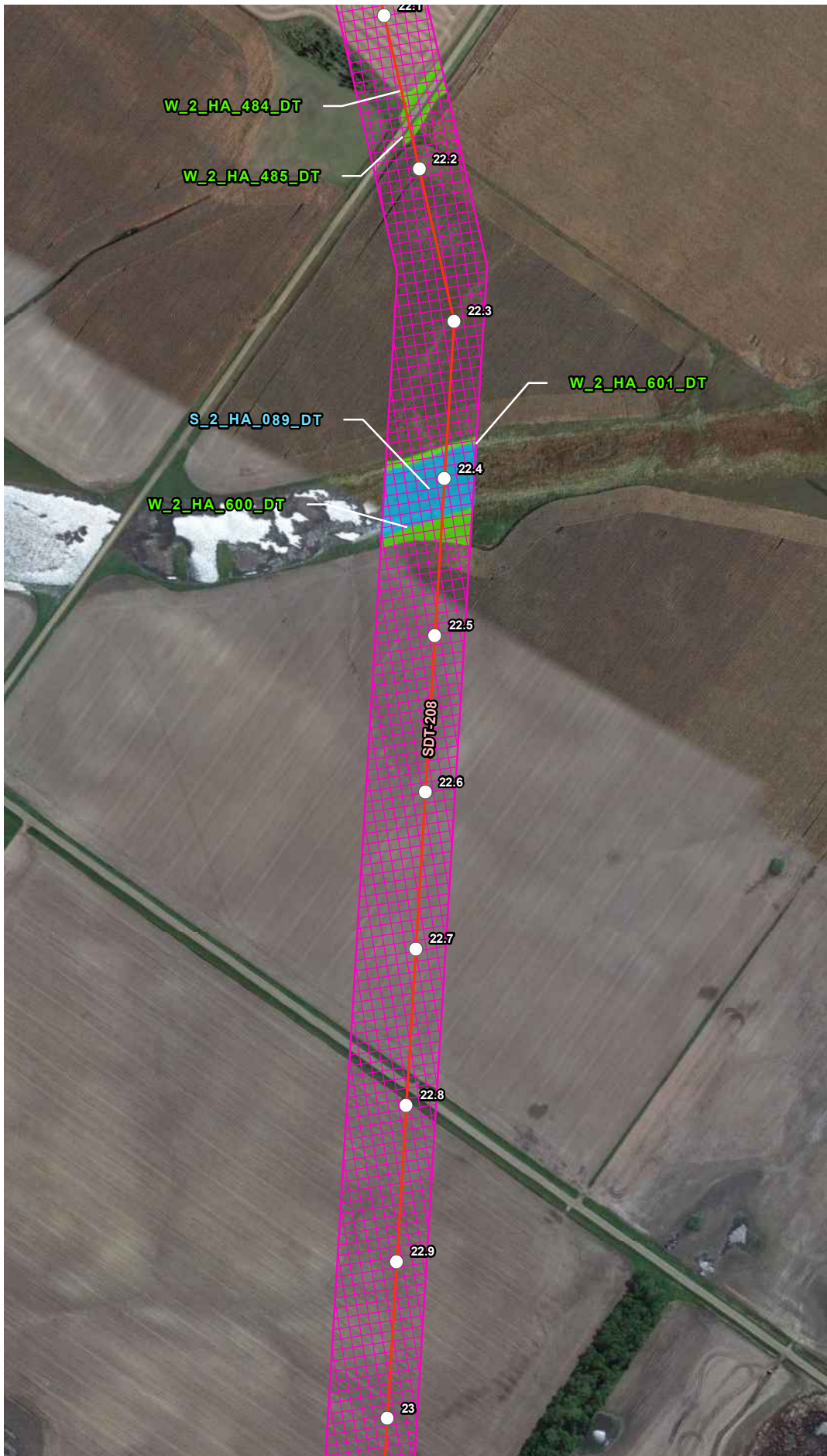
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NAD 1983 UTM Zone 14N

Sheet:
472
Sheet 472 of 517

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AERIAL MAP



VICINITY MAP



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Scale:
Scale: 1:6,000
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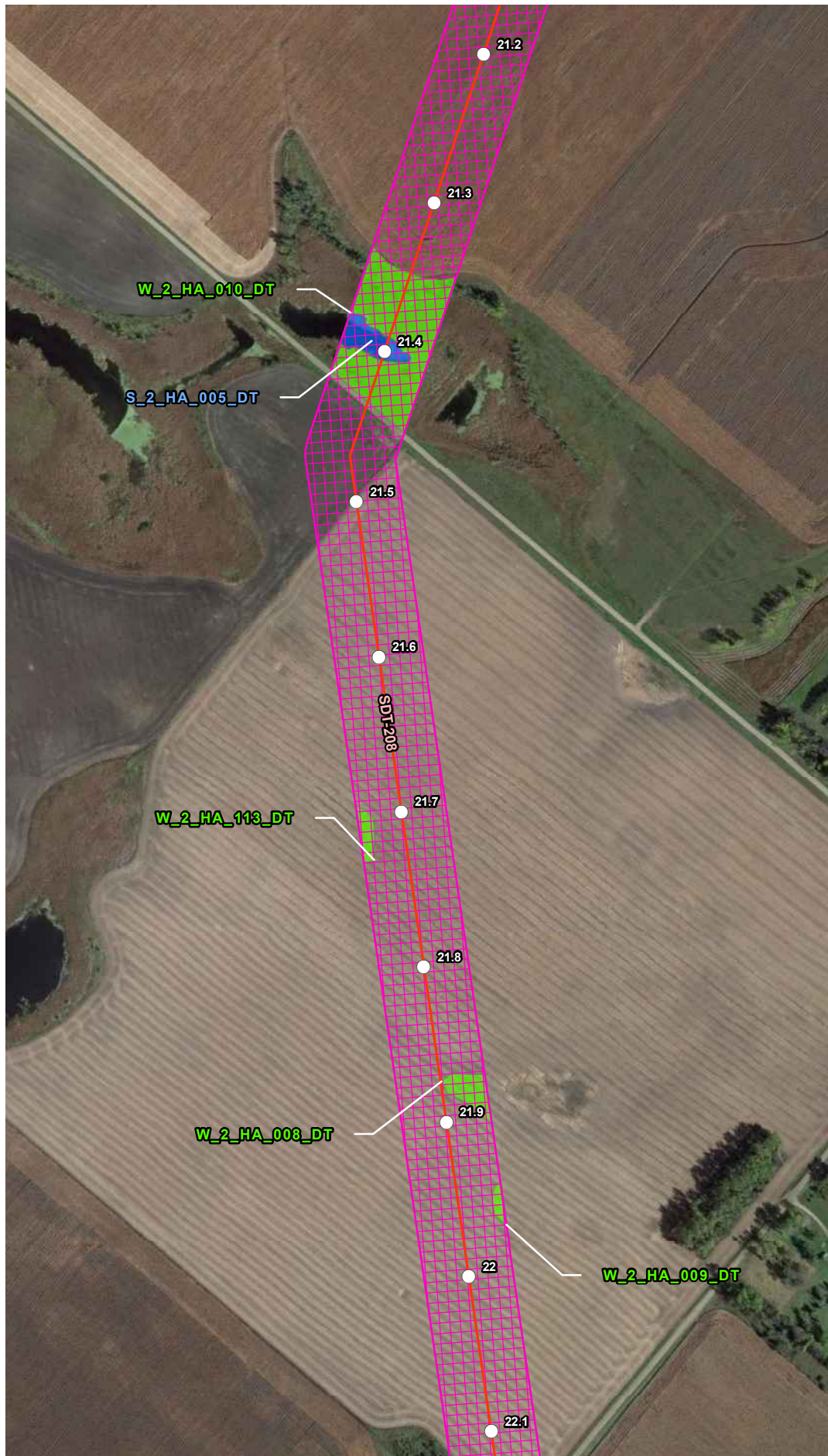
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Sheet:
473
Sheet 473 of 517

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AERIAL MAP



VICINITY MAP



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Figure Number:
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NAD 1983 UTM Zone 14N

Sheet:
474
Sheet 474 of 517

Drawing Number:
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Sheet:
475
Sheet 475 of 517

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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

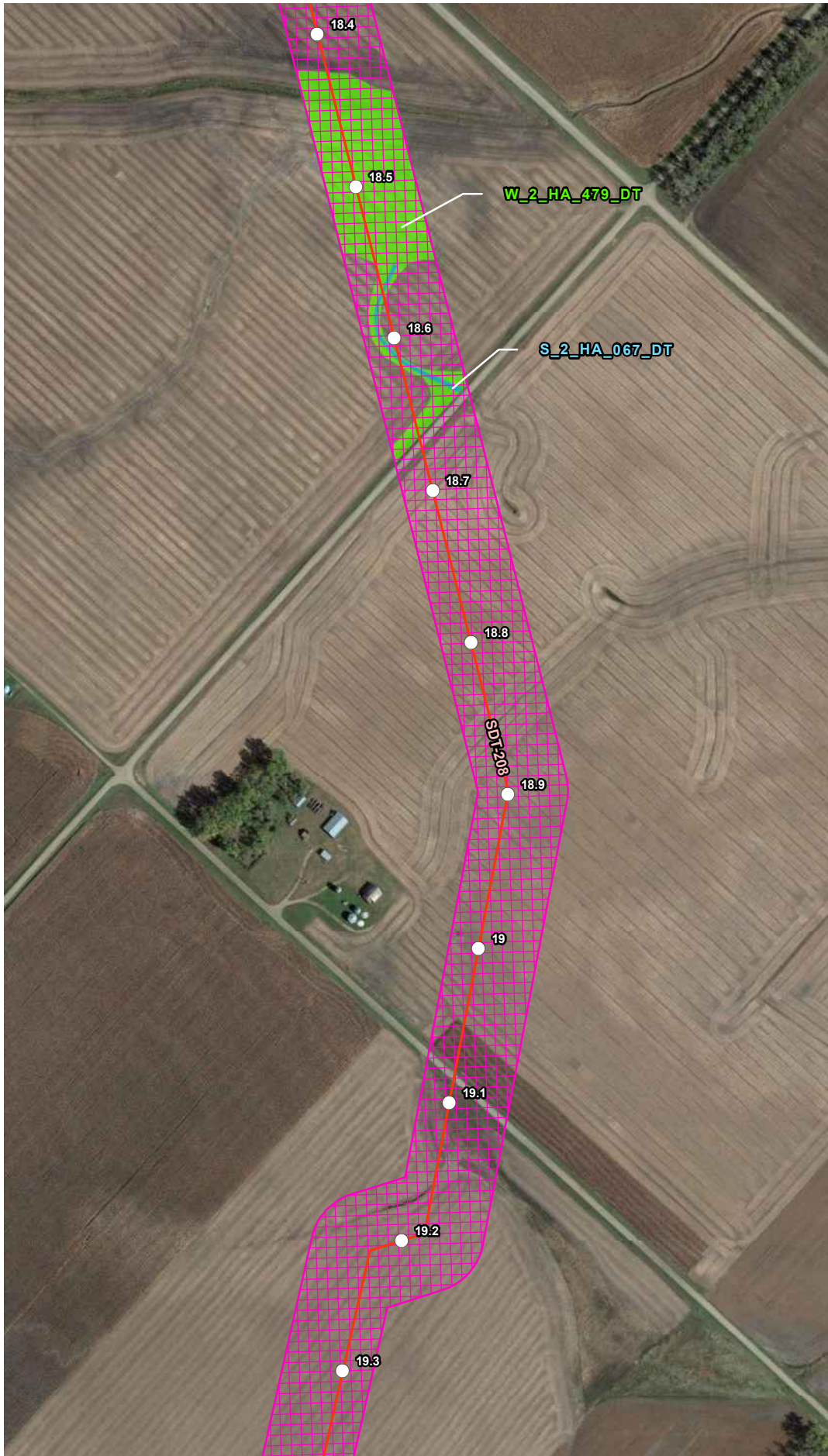
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
476
Sheet 476 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
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- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

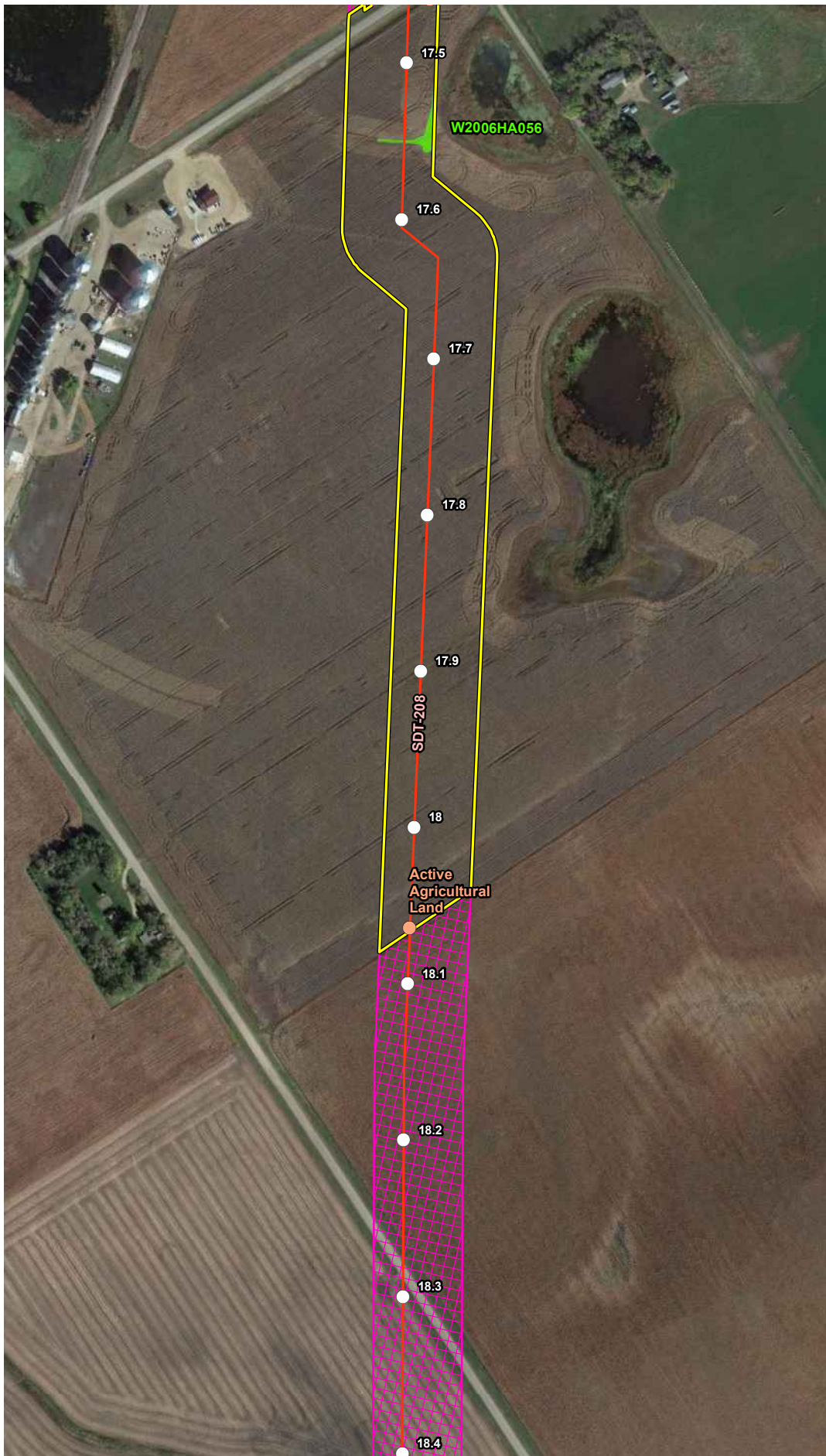
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
477
Sheet 477 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

Scale:
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1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
478
Sheet 478 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



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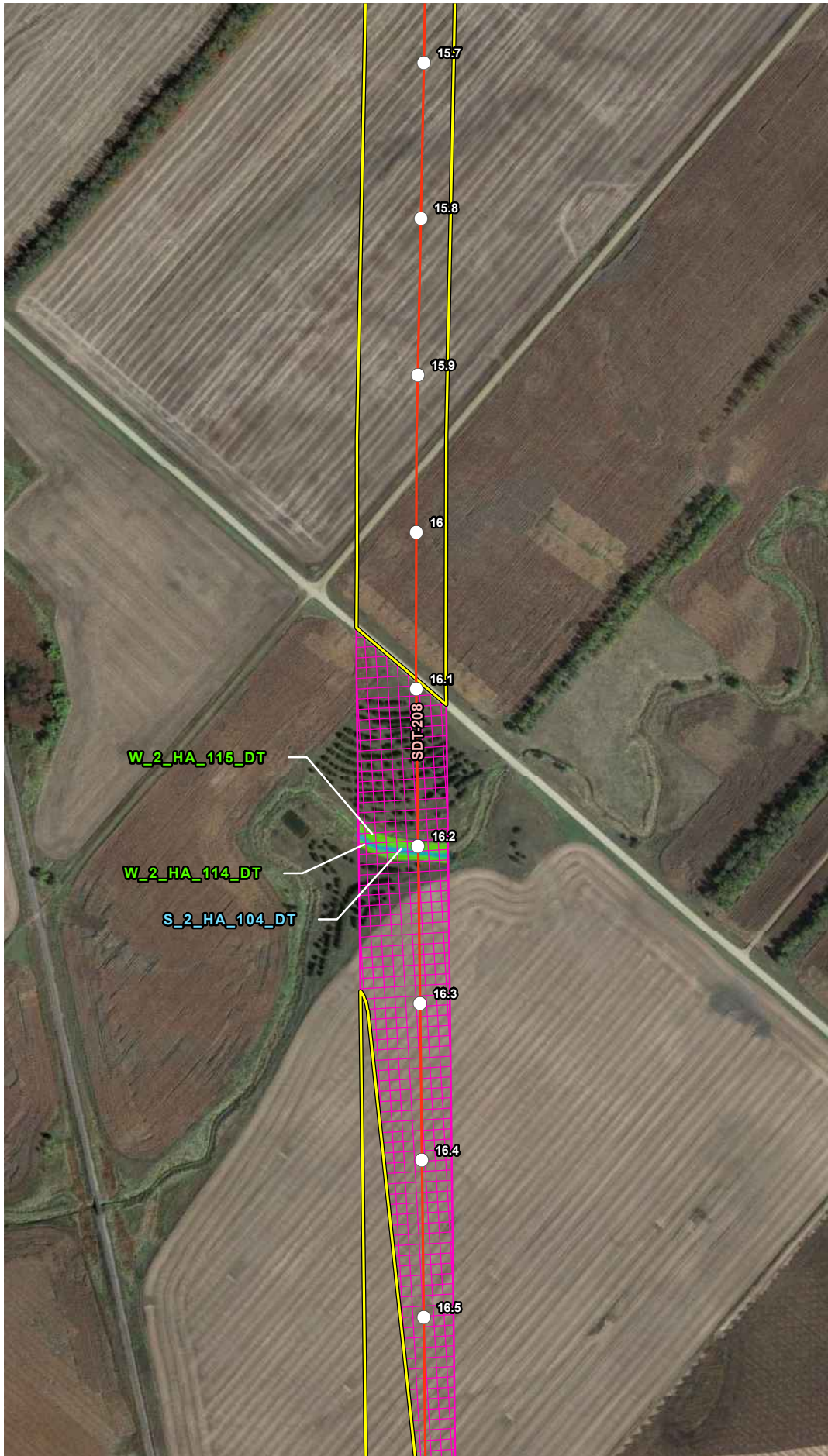
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 1 inch = 500 feet

Projection:
 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 479
 Sheet 479 of 517

Drawing Number:
 2001-21-002
 Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 480
 Sheet 480 of 517

Drawing Number:
 2001-21-002
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
481
Sheet 481 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
482
Sheet 482 of 517

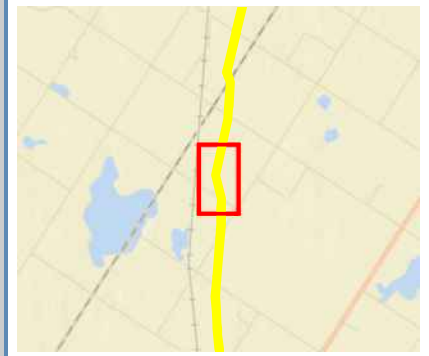
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0 250 500 Feet



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Scale:
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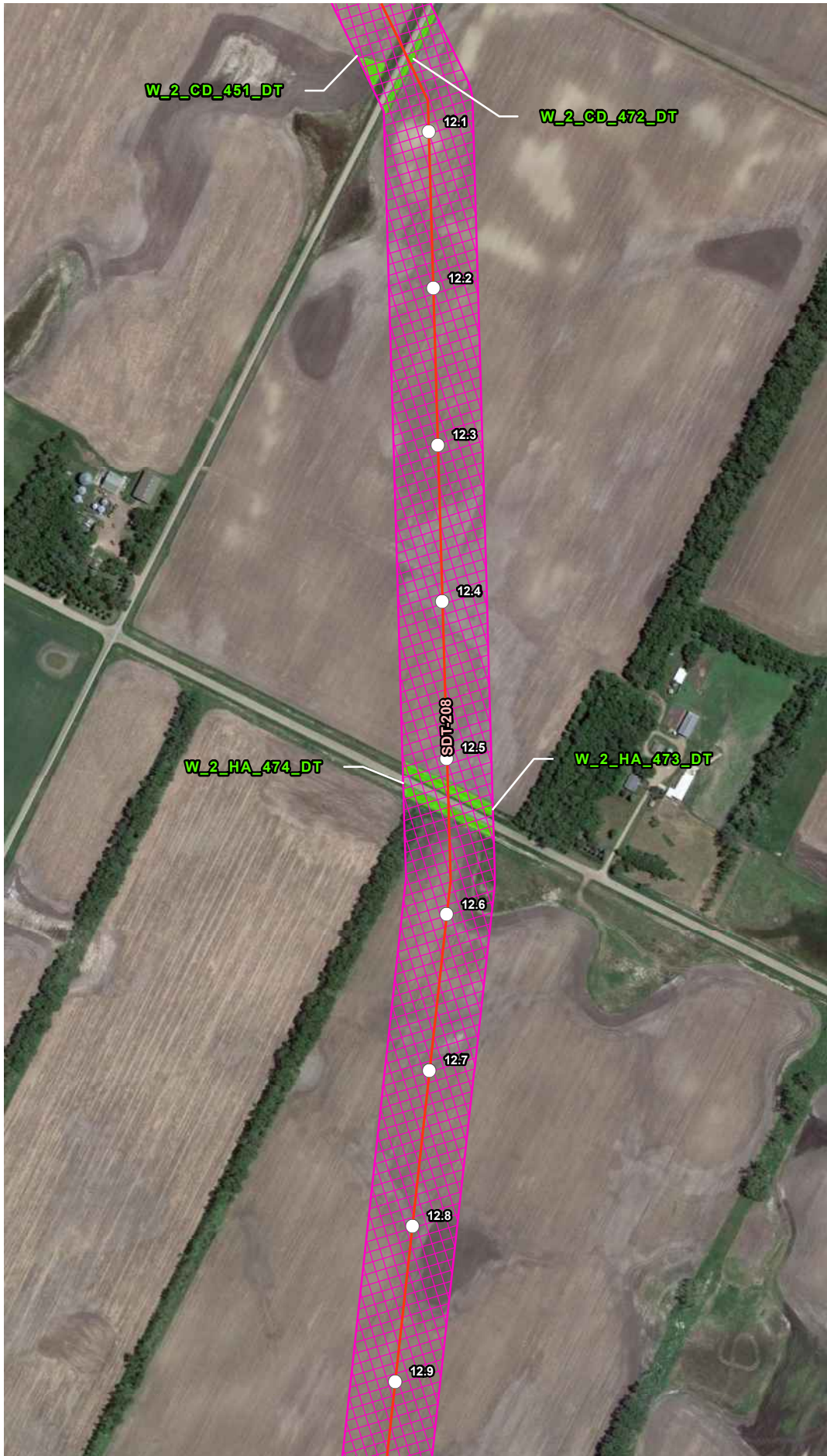
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Sheet 483 of 517

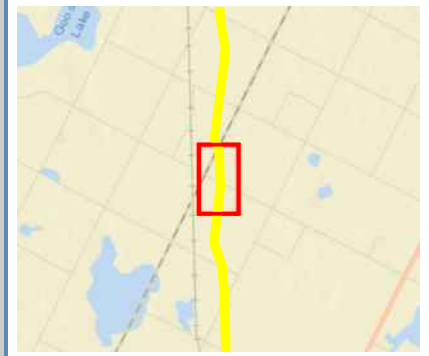
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0 250 500 Feet



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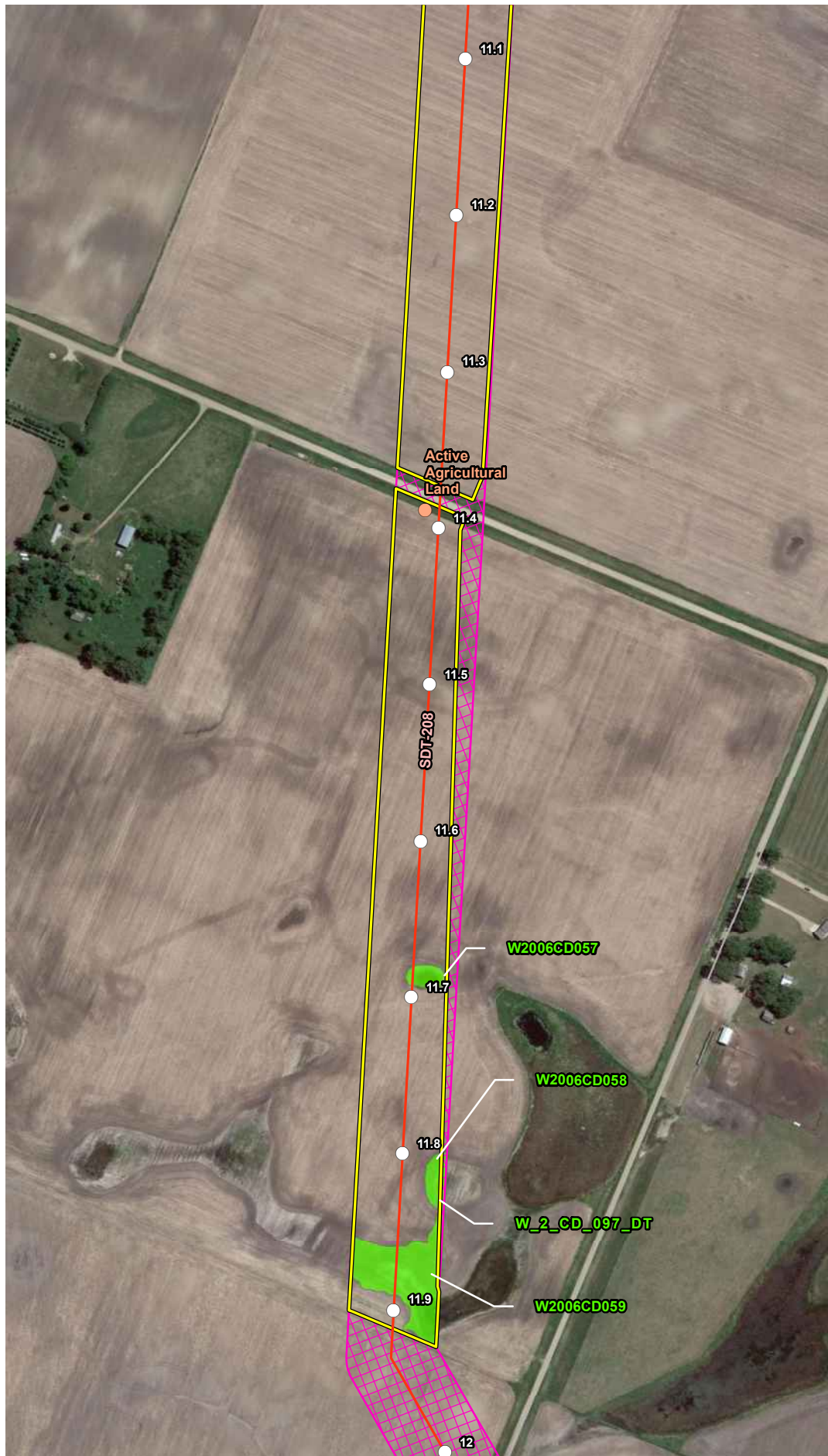
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NAD 1983 UTM Zone 14N

Sheet:
484
Sheet 484 of 517

Drawing Number:
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Current Revision

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AERIAL MAP



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0 250 500 Feet



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2

Scale:
Scale: 1:6,000
1 inch = 500 feet

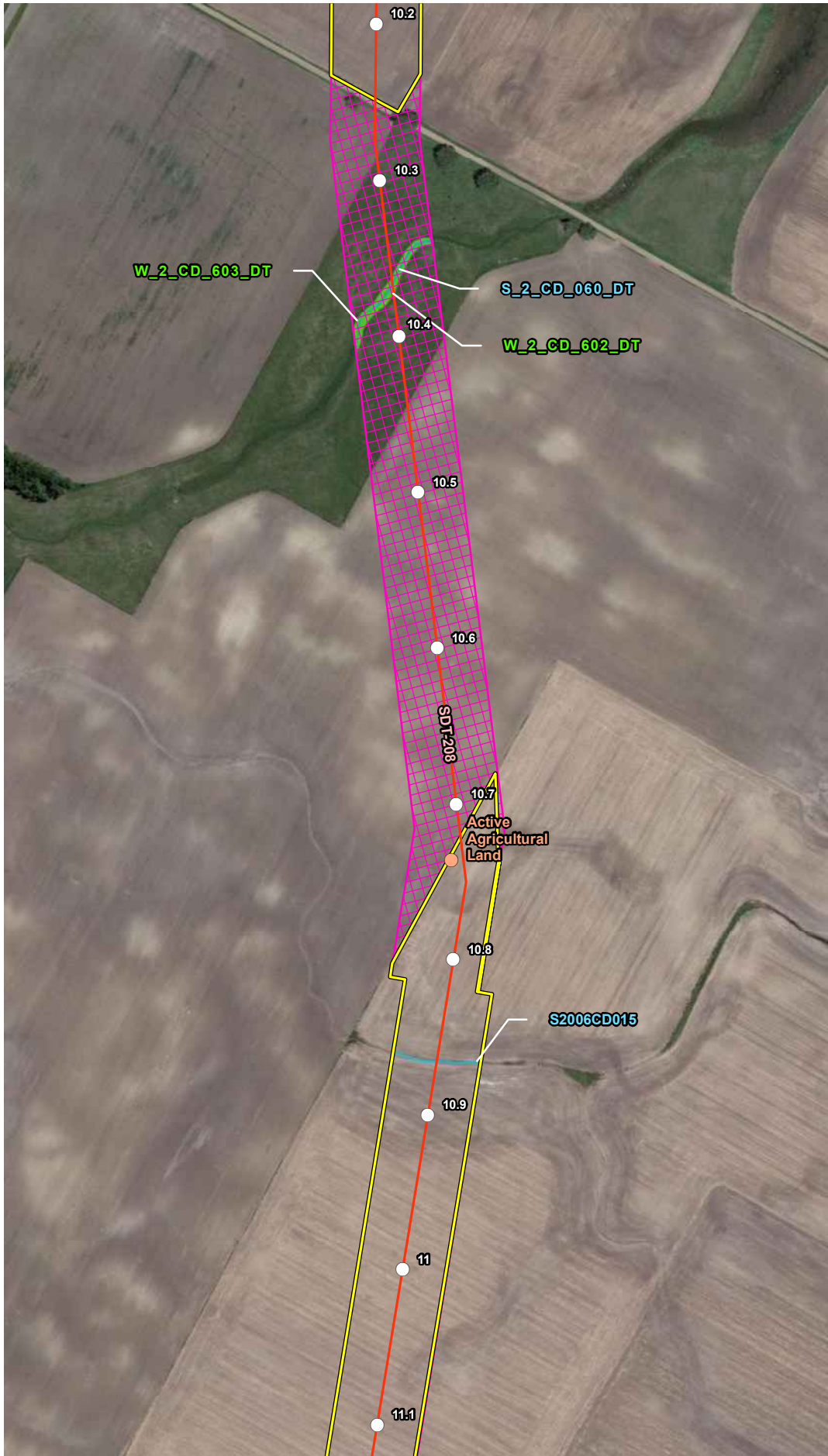
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Sheet 485 of 517

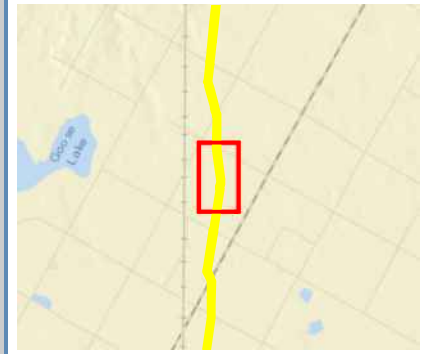
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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2

Scale:
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Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
486
Sheet 486 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



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0 250 500 Feet



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Figure Number: 2

Scale:
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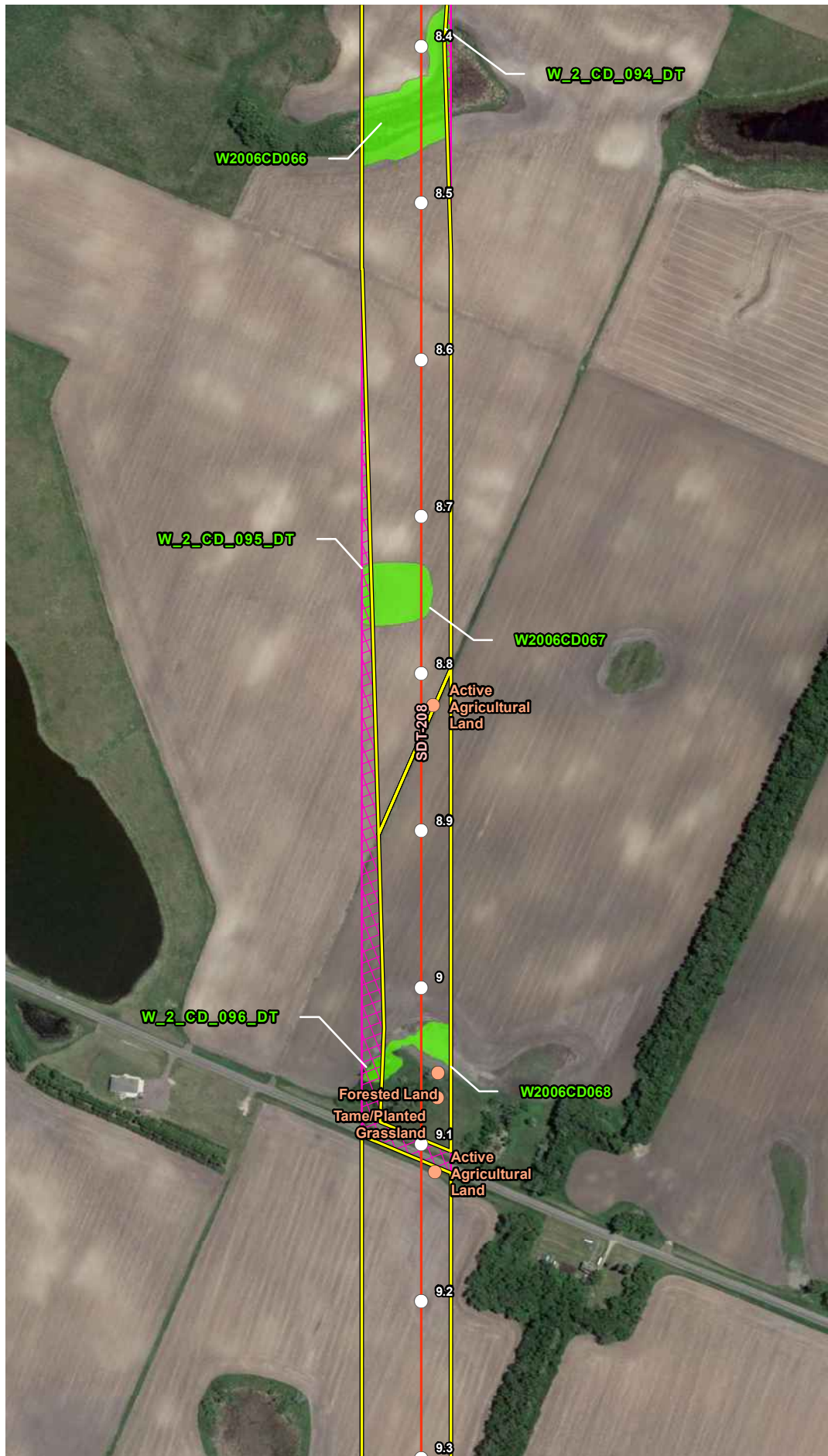
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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 487 of 517

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AERIAL MAP



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0 250 500 Feet



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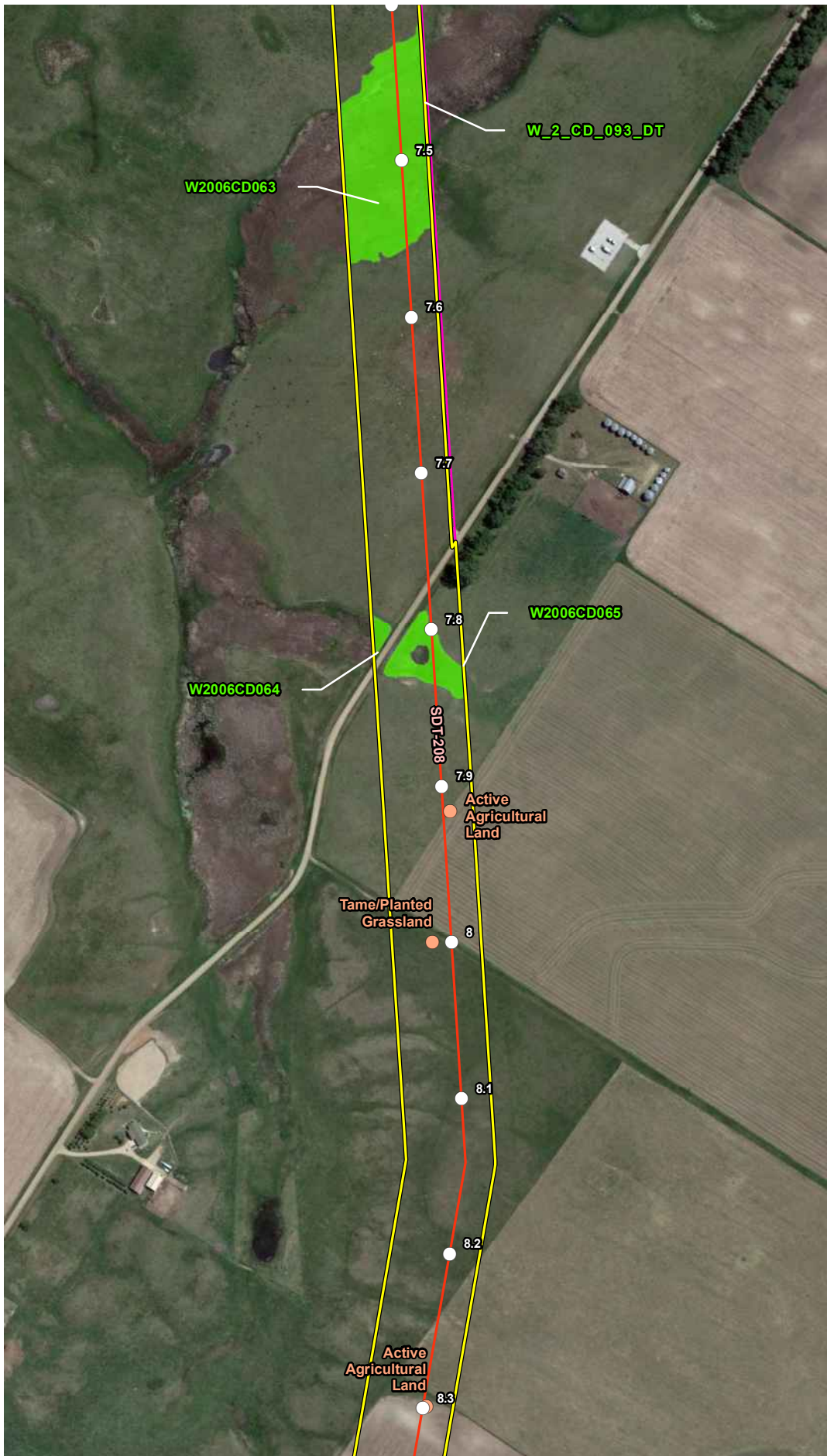
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
488
Sheet 488 of 517

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0 250 500 Feet



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Scale:
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
489
Sheet 489 of 517

Drawing Number:
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0 250 500
Feet



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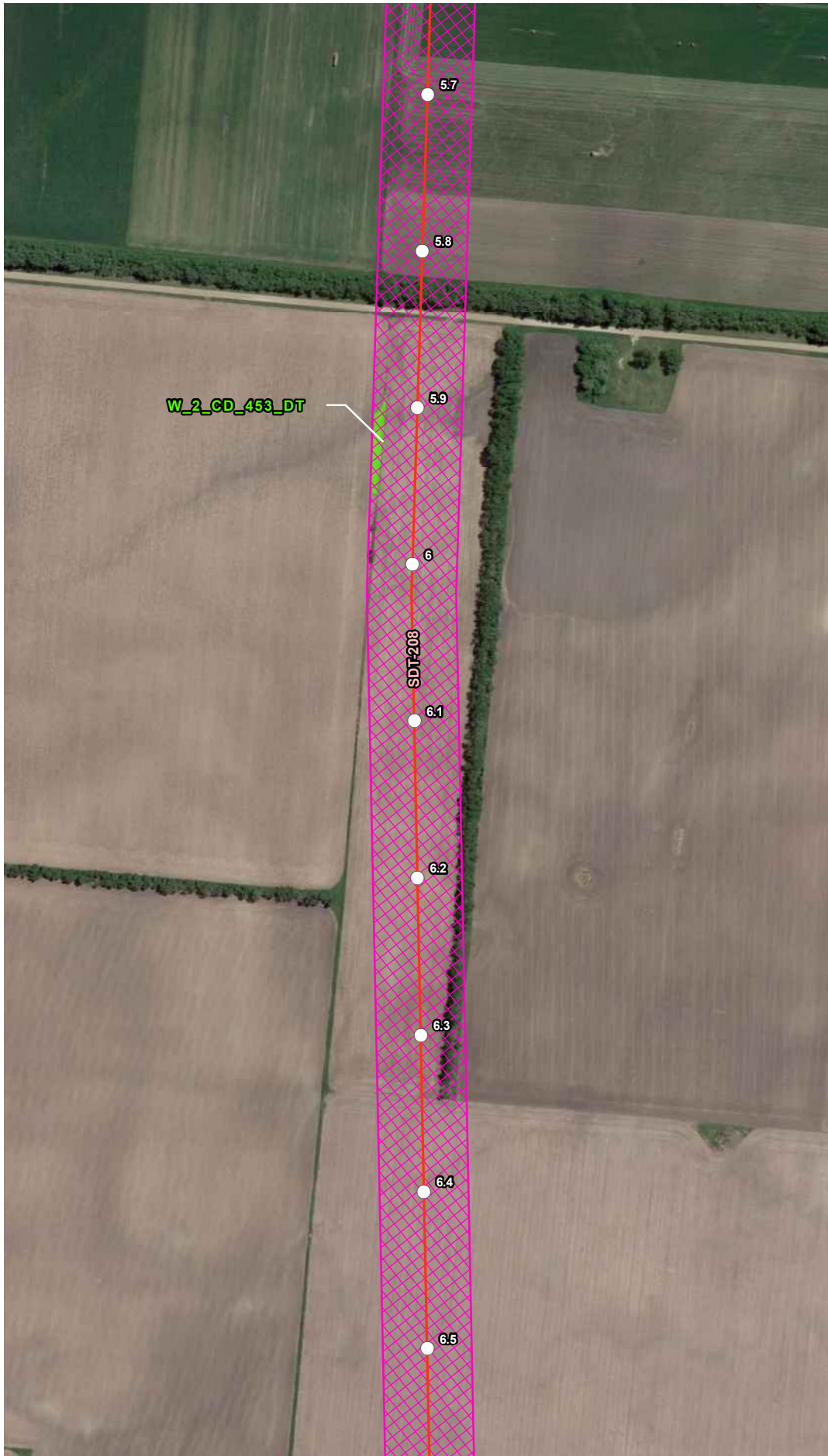
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
490
Sheet 490 of 517

Drawing Number:
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0 250 500 Feet



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Projection:

Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:

491
Sheet 491 of 517

Drawing Number:

2001-21-002
Current Revision

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NAD 1983 UTM Zone 14N

Sheet:
492
Sheet 492 of 517

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- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
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Figure Number: 2

Scale:
Scale: 1:6,000
1 inch = 500 feet

Projection:
Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
493
Sheet 493 of 517

Drawing Number:
2001-21-002
Current Revision

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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
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0 250 500 Feet



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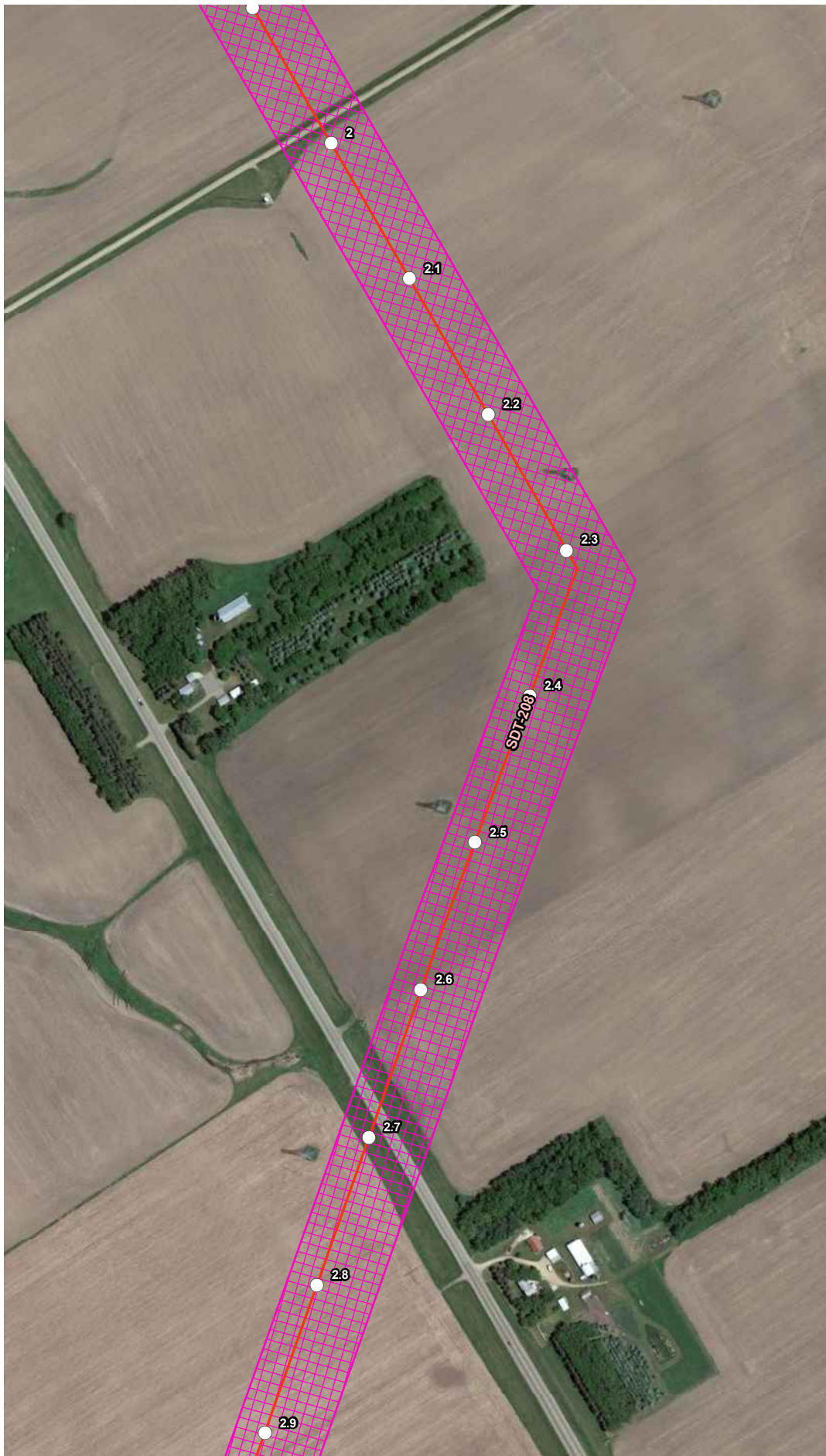
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
494
Sheet 494 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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 NAD 1983 UTM Zone 14N

Sheet:
 495
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0 250 500 Feet



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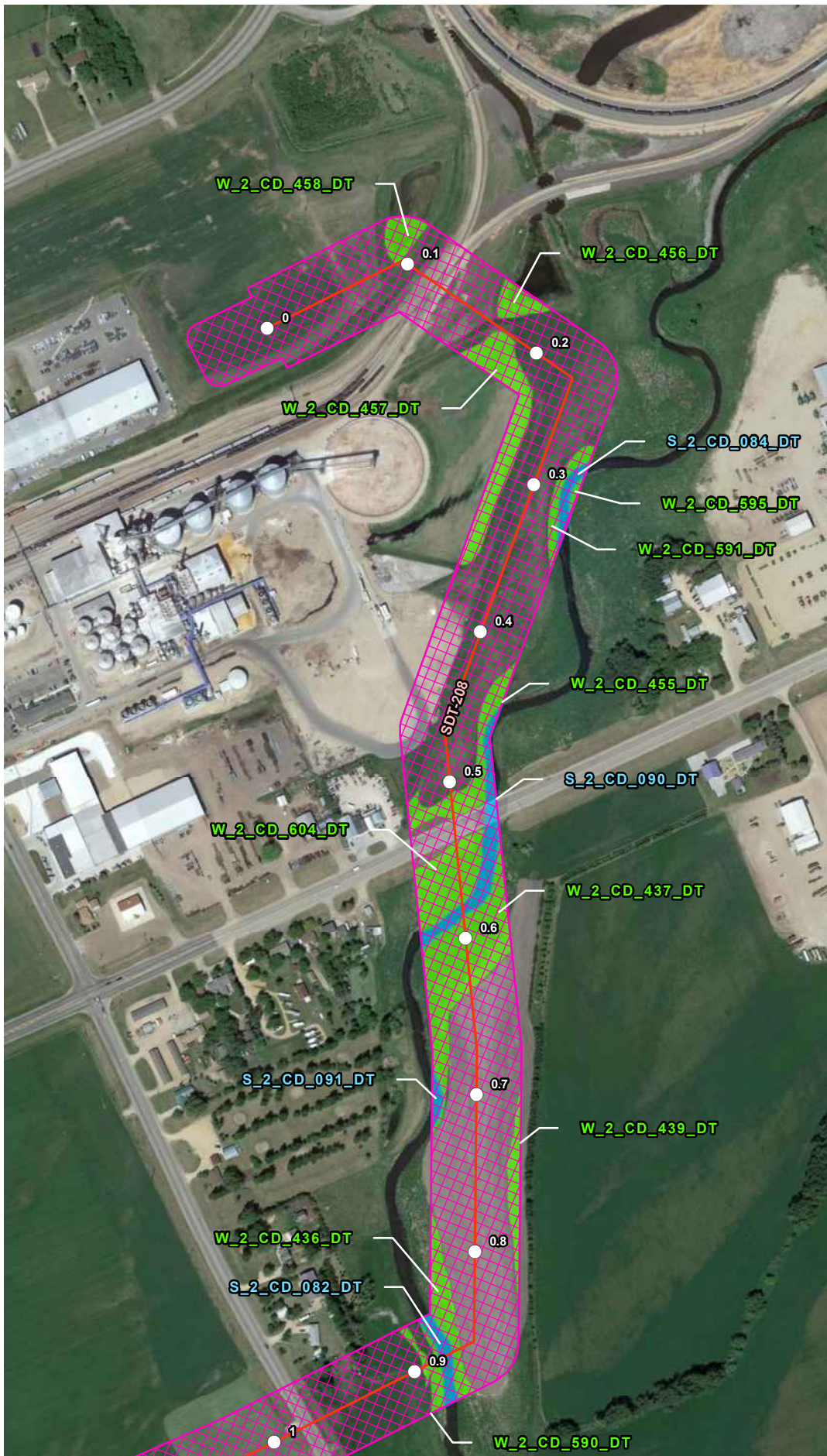
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
496
Sheet 496 of 517

Drawing Number:
2001-21-002
Current Revision

AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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NAD 1983 UTM Zone 14N

Sheet:
497
Sheet 497 of 517

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0 410 820 Feet



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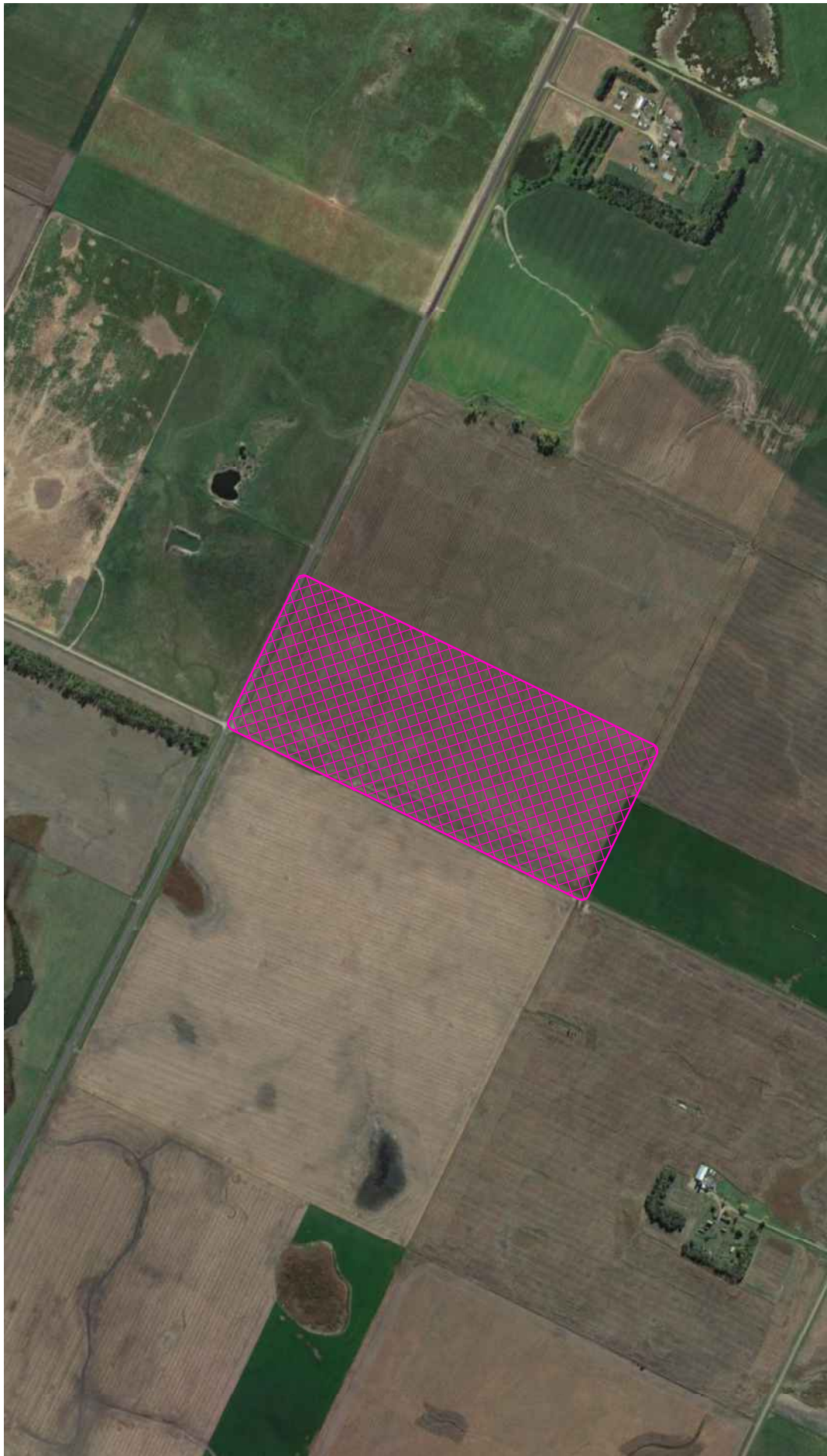
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Transverse Mercator
NAD 1983 UTM Zone 14N

Sheet:
498
Sheet 498 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



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0 500 1,000
Feet



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NAD 1983 UTM Zone 14N

Sheet:
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Sheet 499 of 517

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0 250 500 Feet



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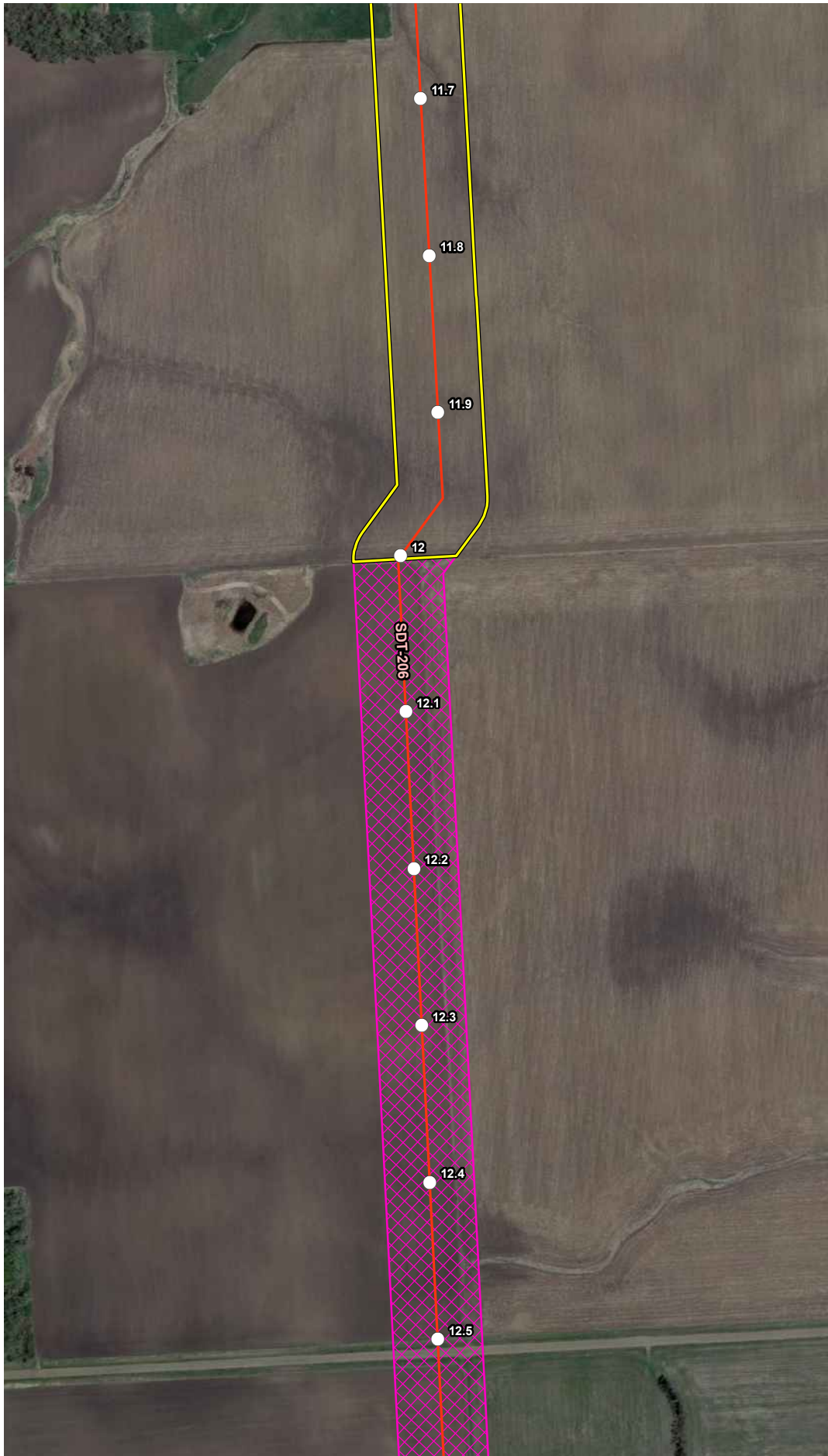
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 NAD 1983 UTM Zone 14N

Sheet:
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 Sheet 500 of 517

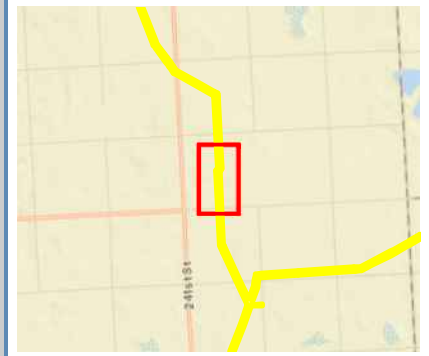
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0 250 500 Feet



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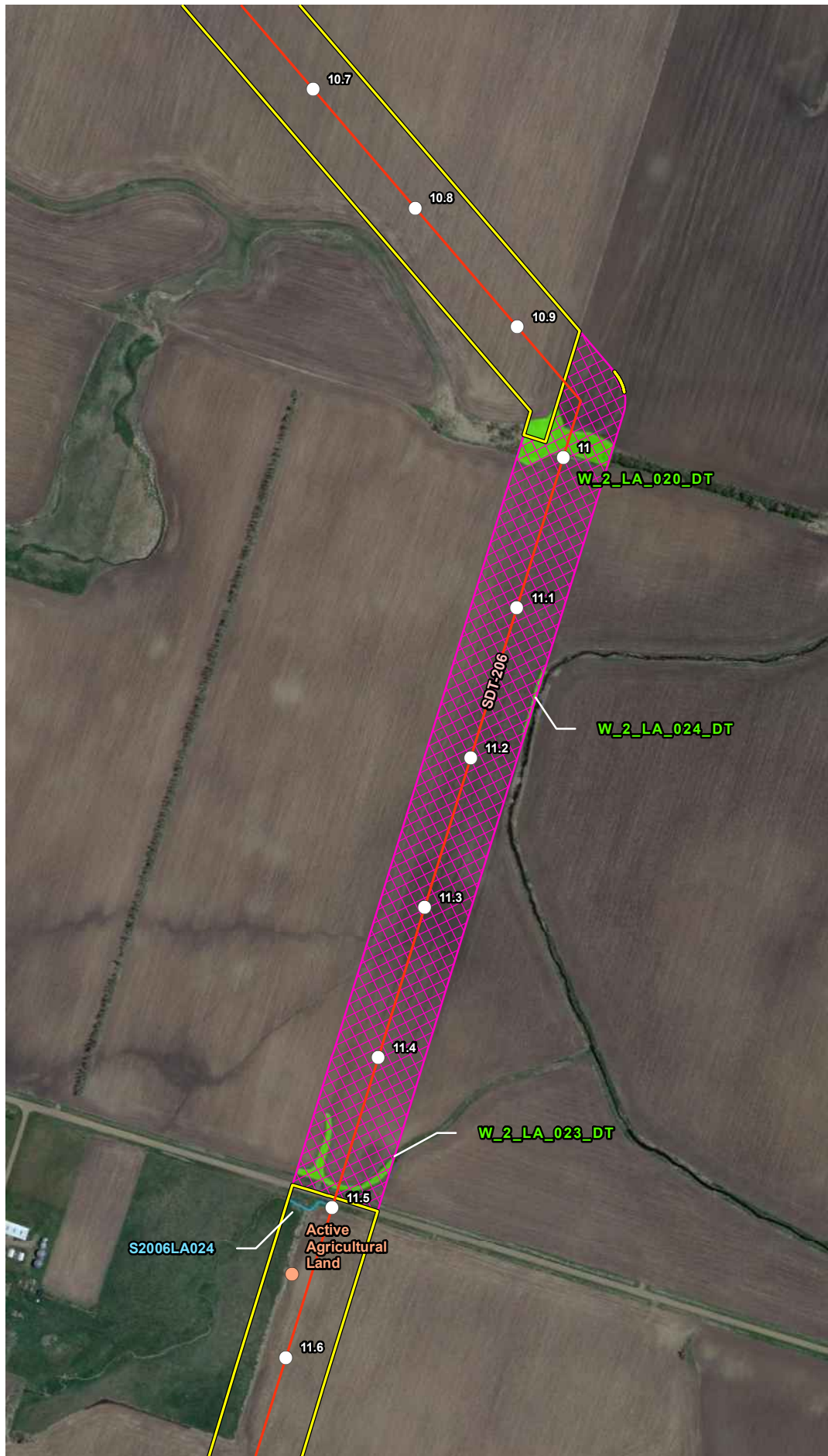
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NAD 1983 UTM Zone 14N

Sheet:
501
Sheet 501 of 517

Drawing Number:
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AERIAL MAP



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0 250 500 Feet

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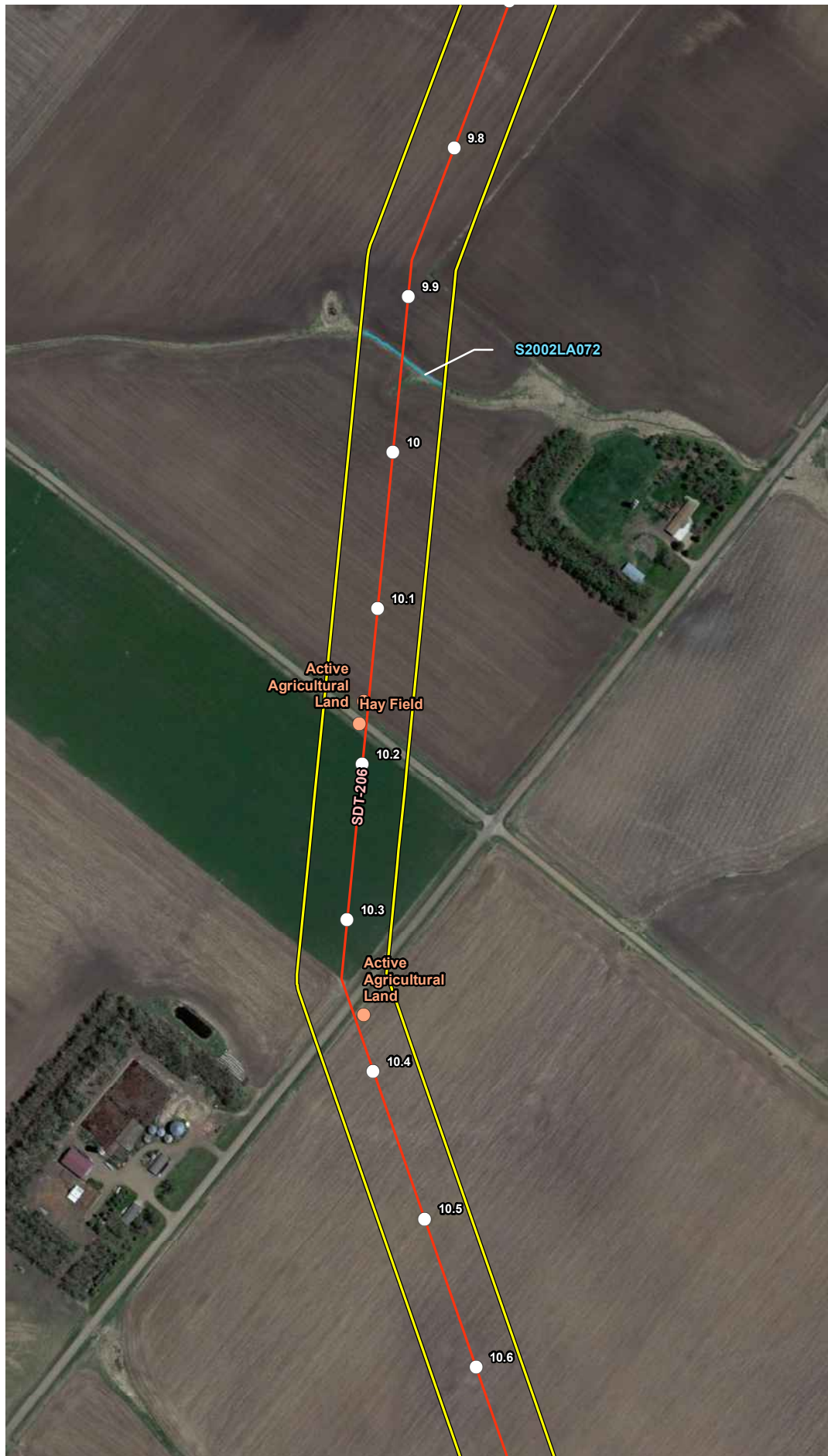
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502
Sheet 502 of 517

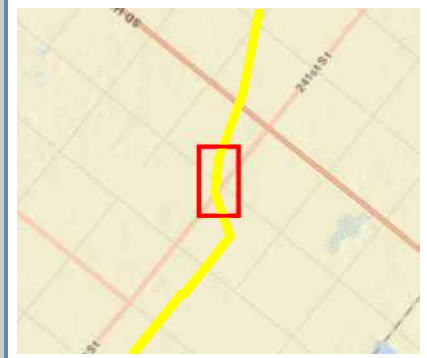
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0 250 500 Feet



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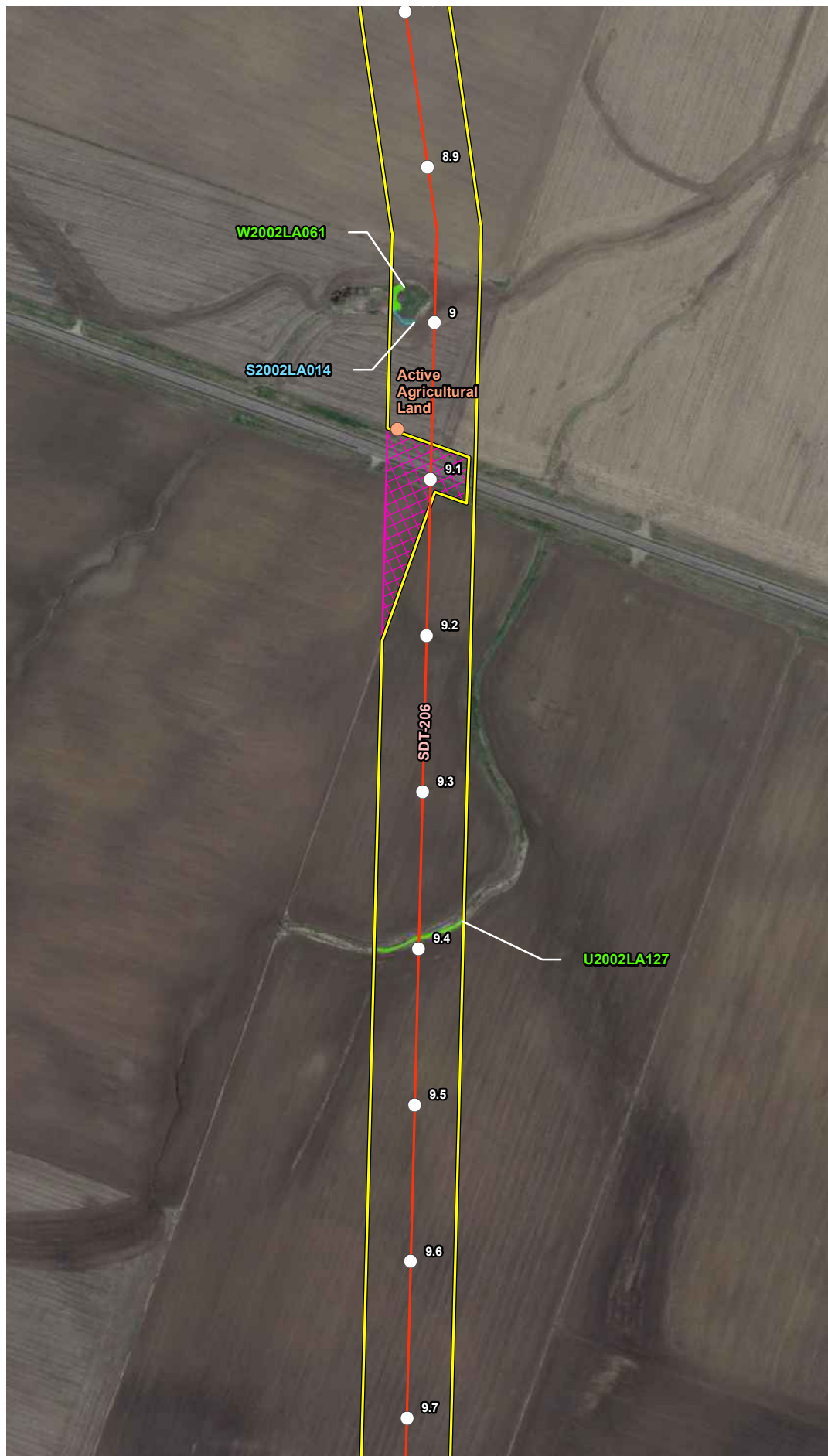
Projection:
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503
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0 250 500
Feet



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504
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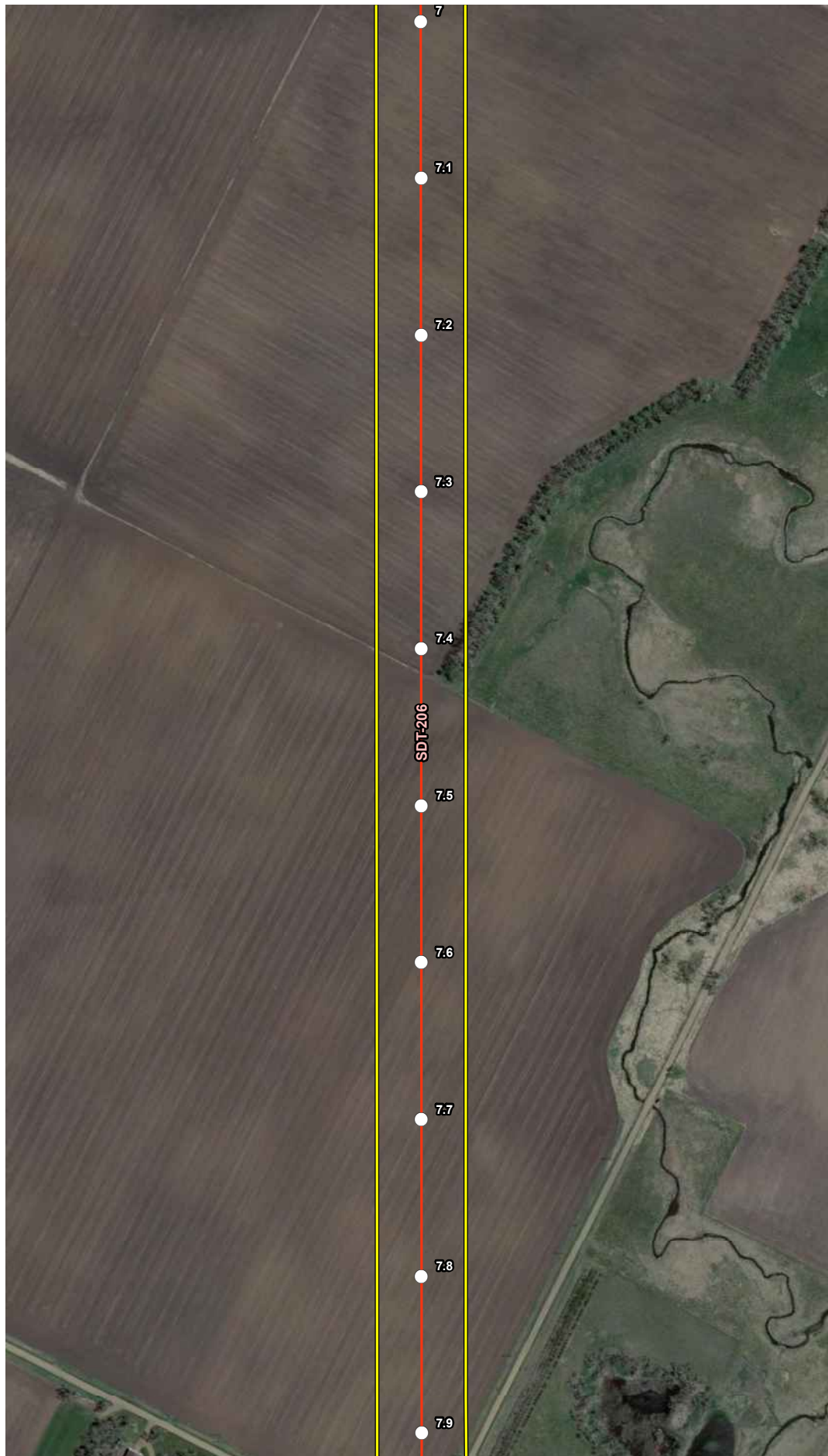
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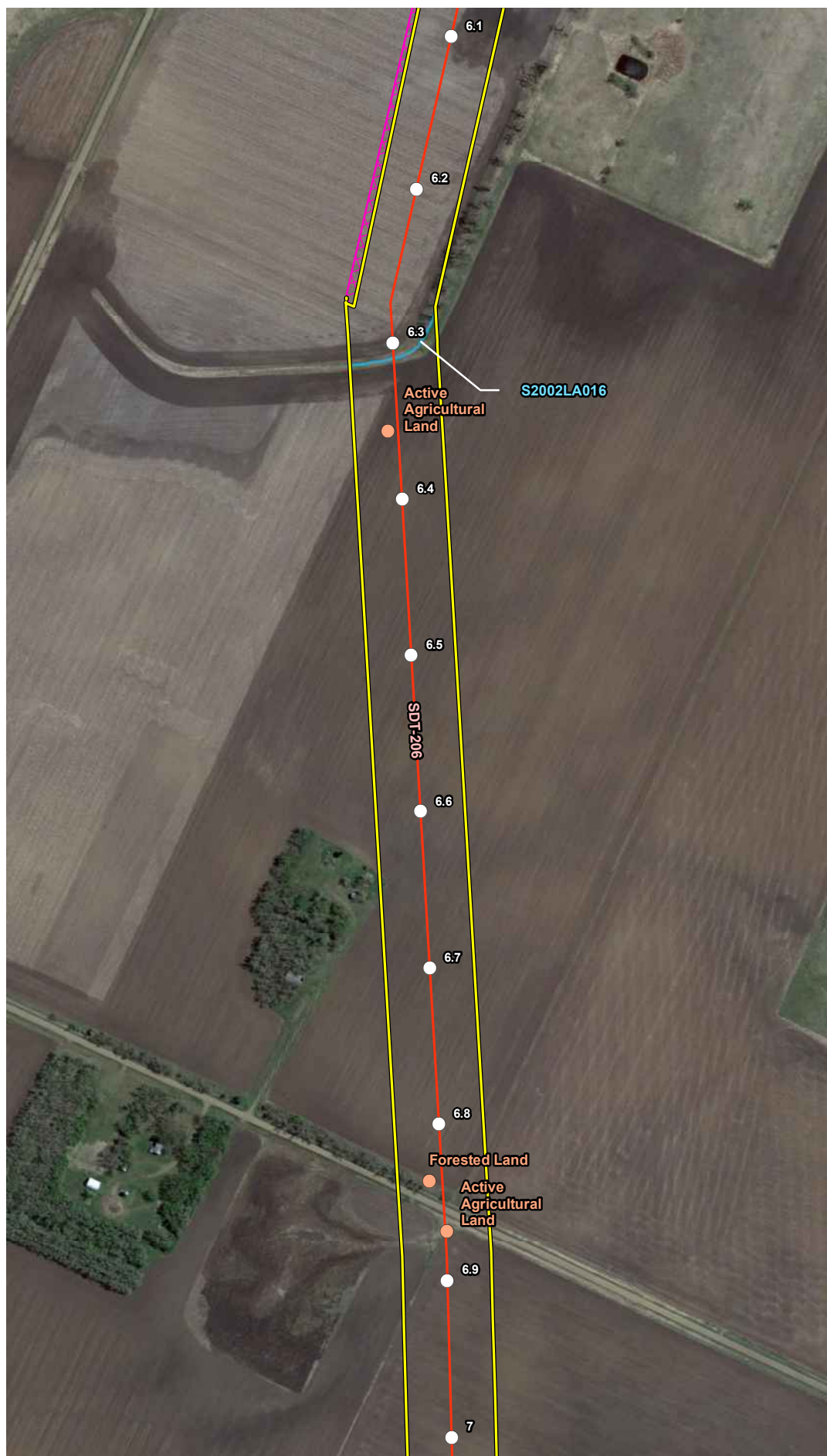
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Sheet:
506
Sheet 506 of 517

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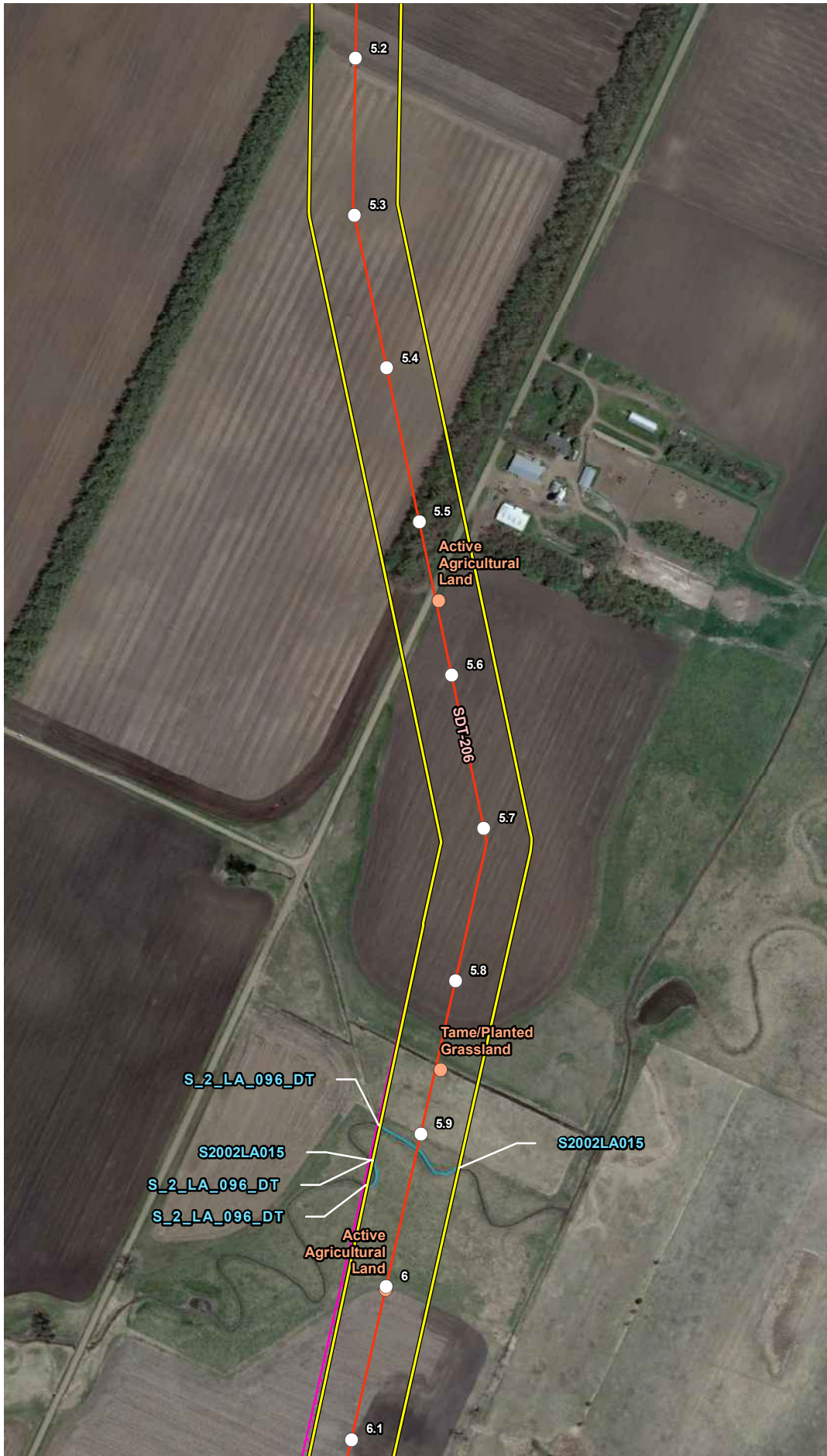
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Sheet:
507
Sheet 507 of 517

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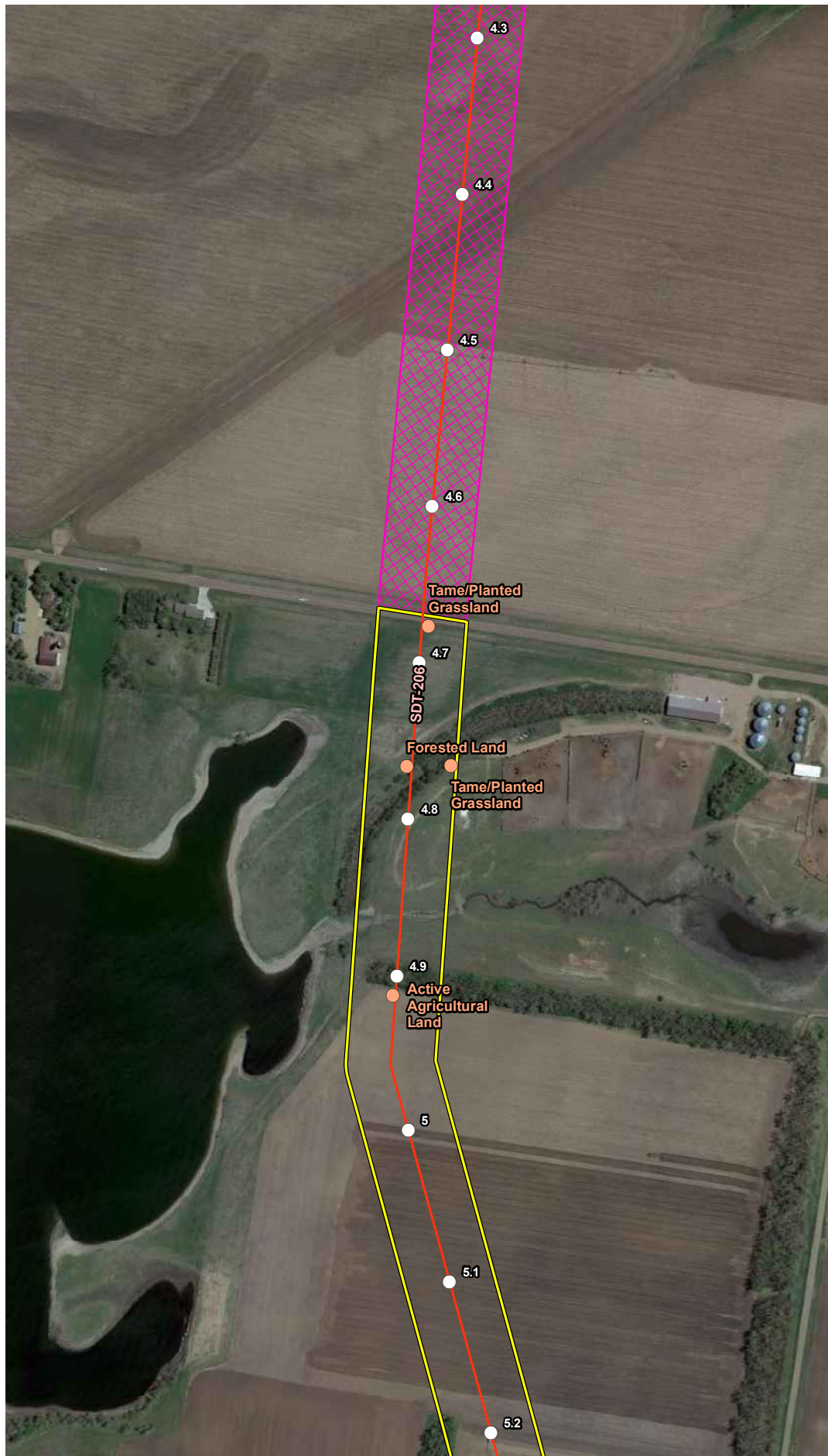
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508
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Scale: 1:6,000
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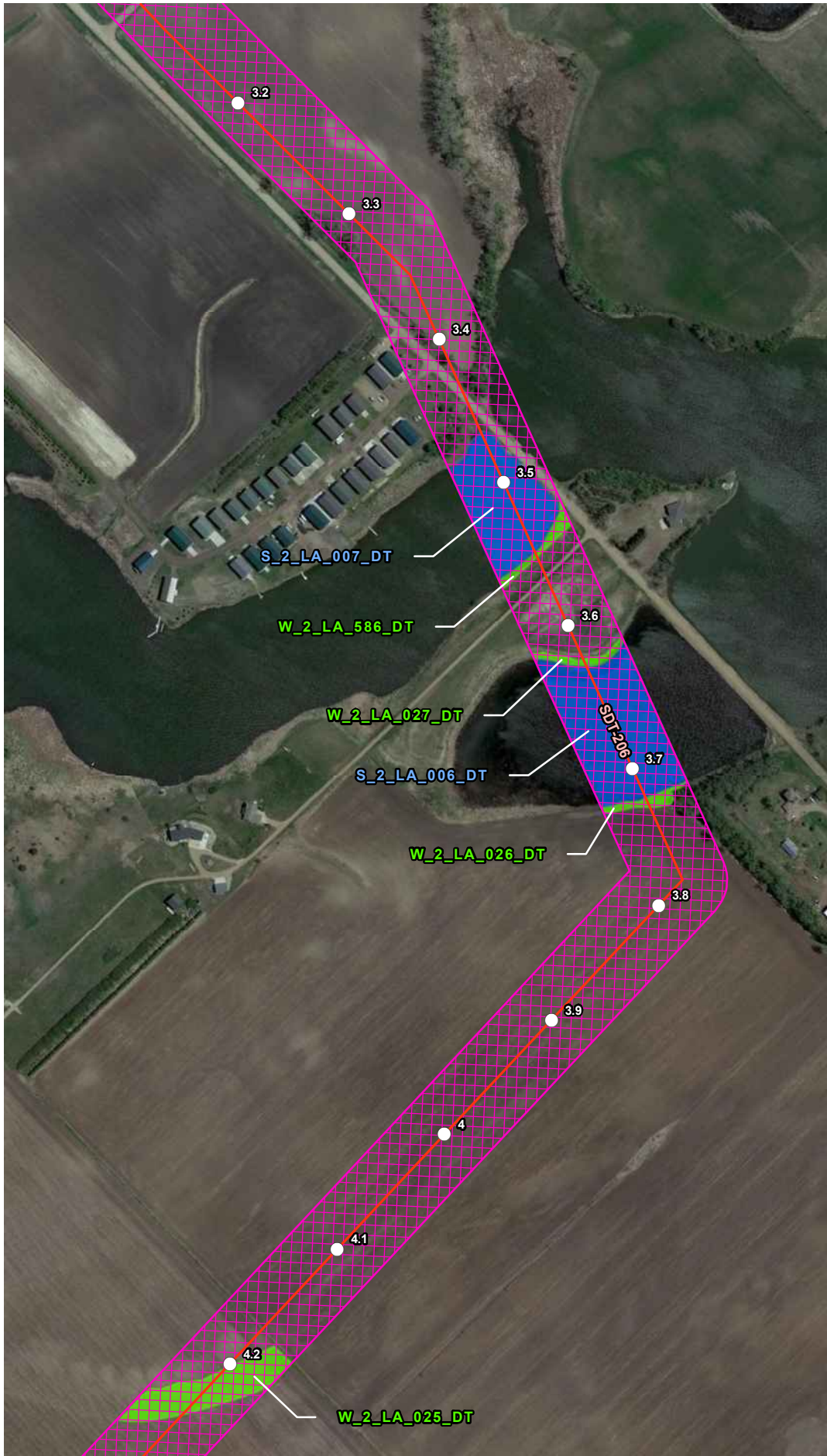
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Sheet 509 of 517

Drawing Number:
2001-21-002
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AERIAL MAP



VICINITY MAP



LEGEND

- Milepost
- Field Recorded Habitat Type
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 250 500 Feet

REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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Revision description		

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Scale:
Scale: 1:6,000
1 inch = 500 feet

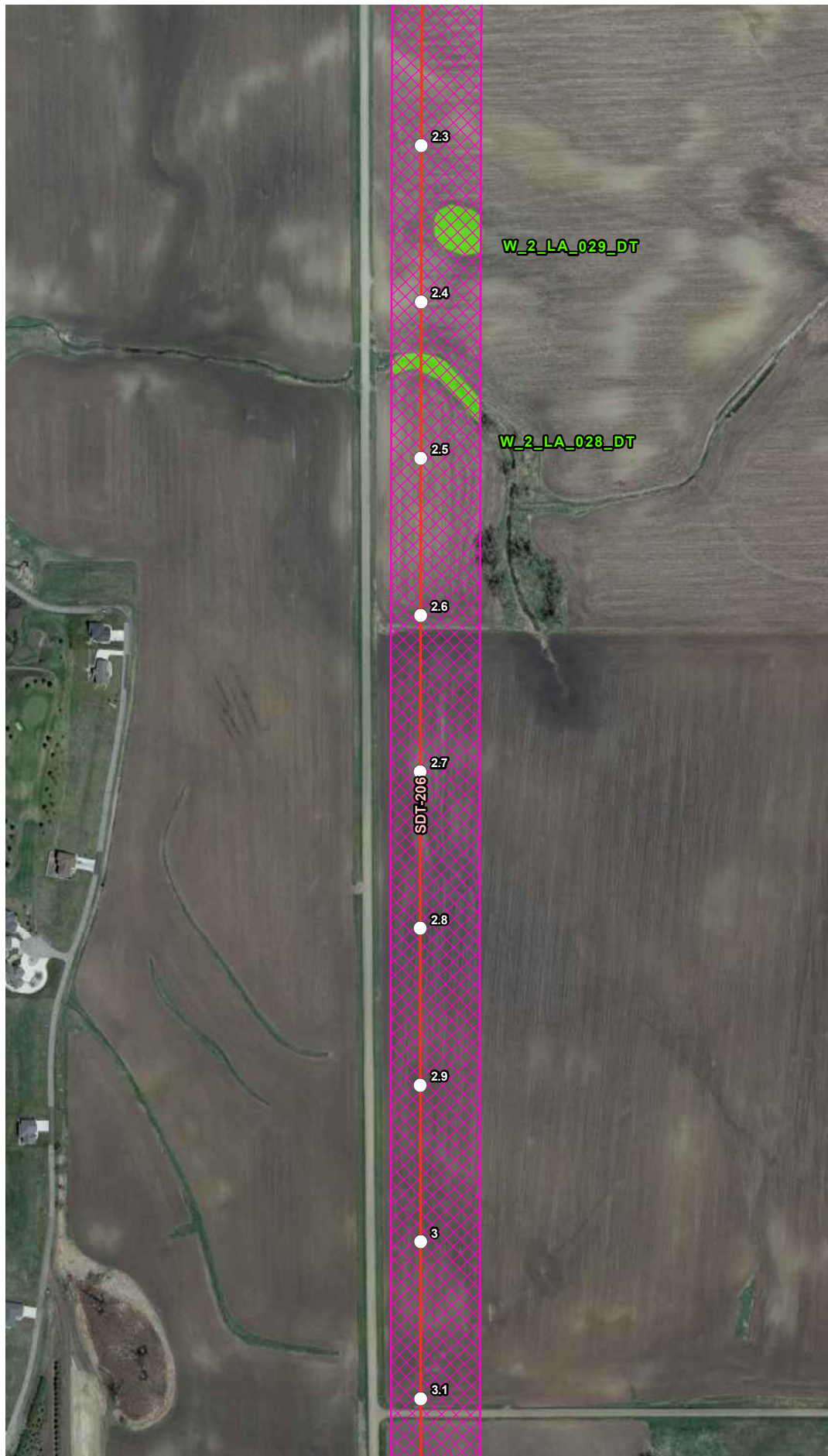
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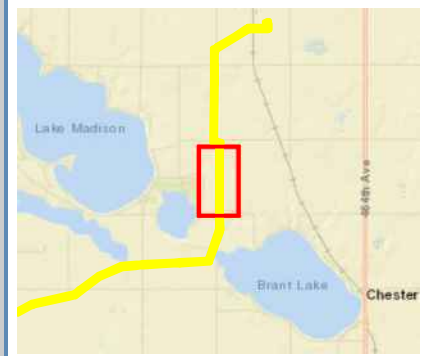
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AERIAL MAP



VICINITY MAP



LEGEND

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0 250 500 Feet



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Scale:
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1 inch = 500 feet

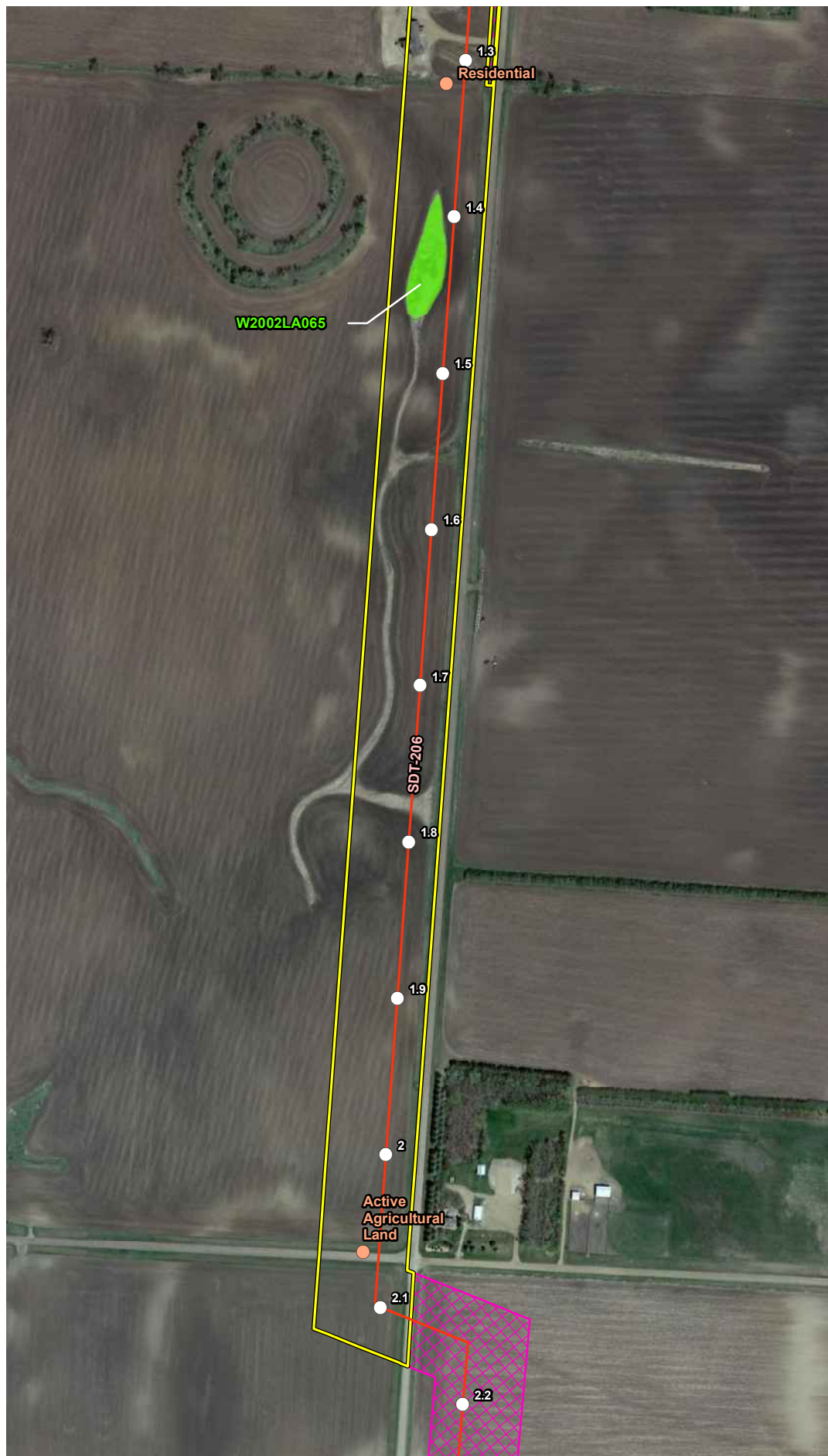
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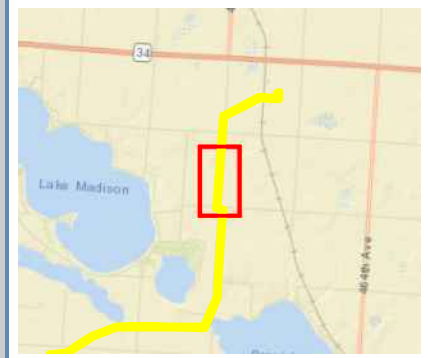
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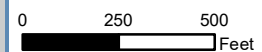


VICINITY MAP



LEGEND

-  Milepost
-  Field Recorded Habitat Type
-  Active Route
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Figure Number:

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1 inch = 500 feet

Projection:
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NAD 1983 UTM Zone 14N

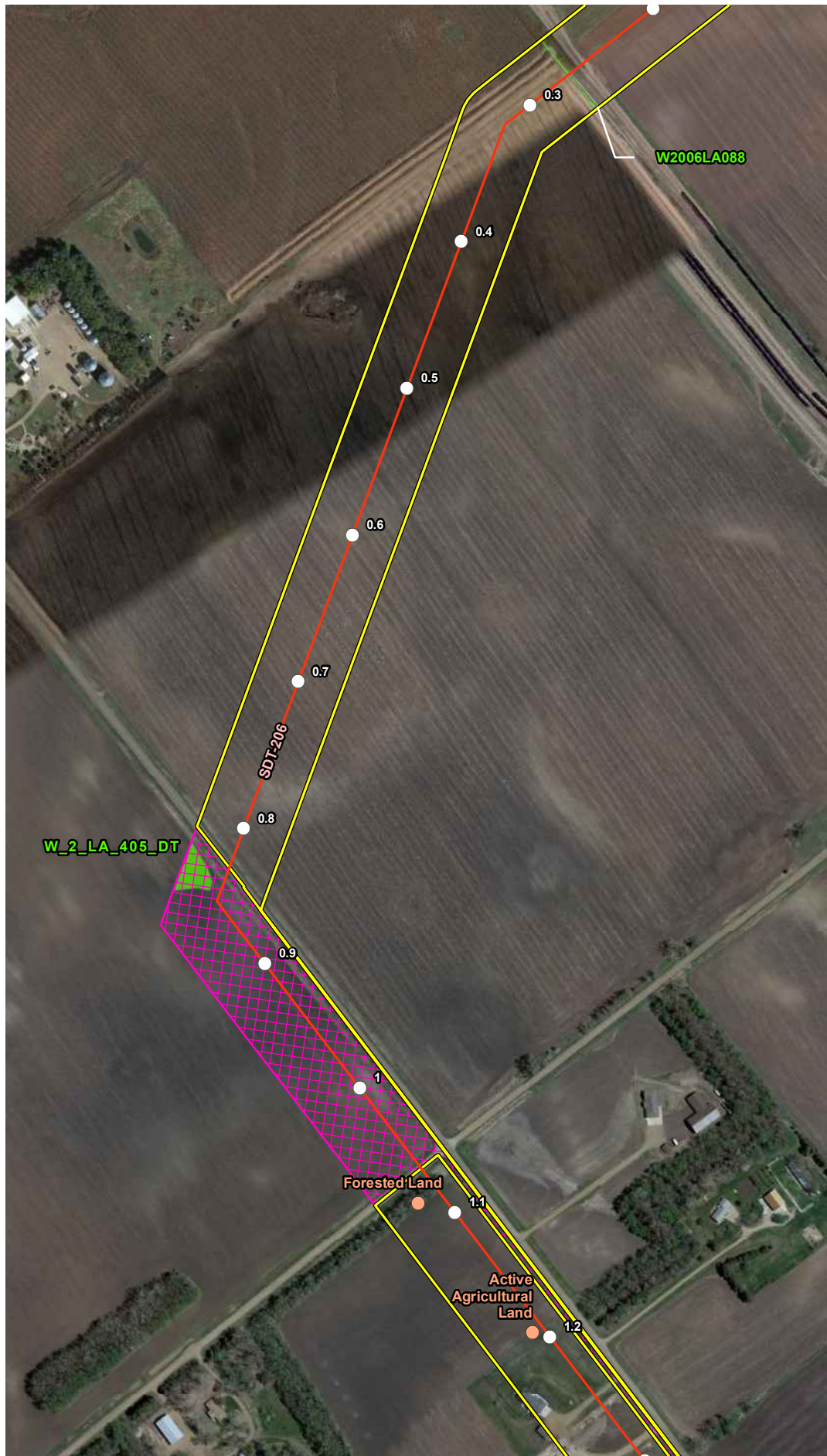
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet

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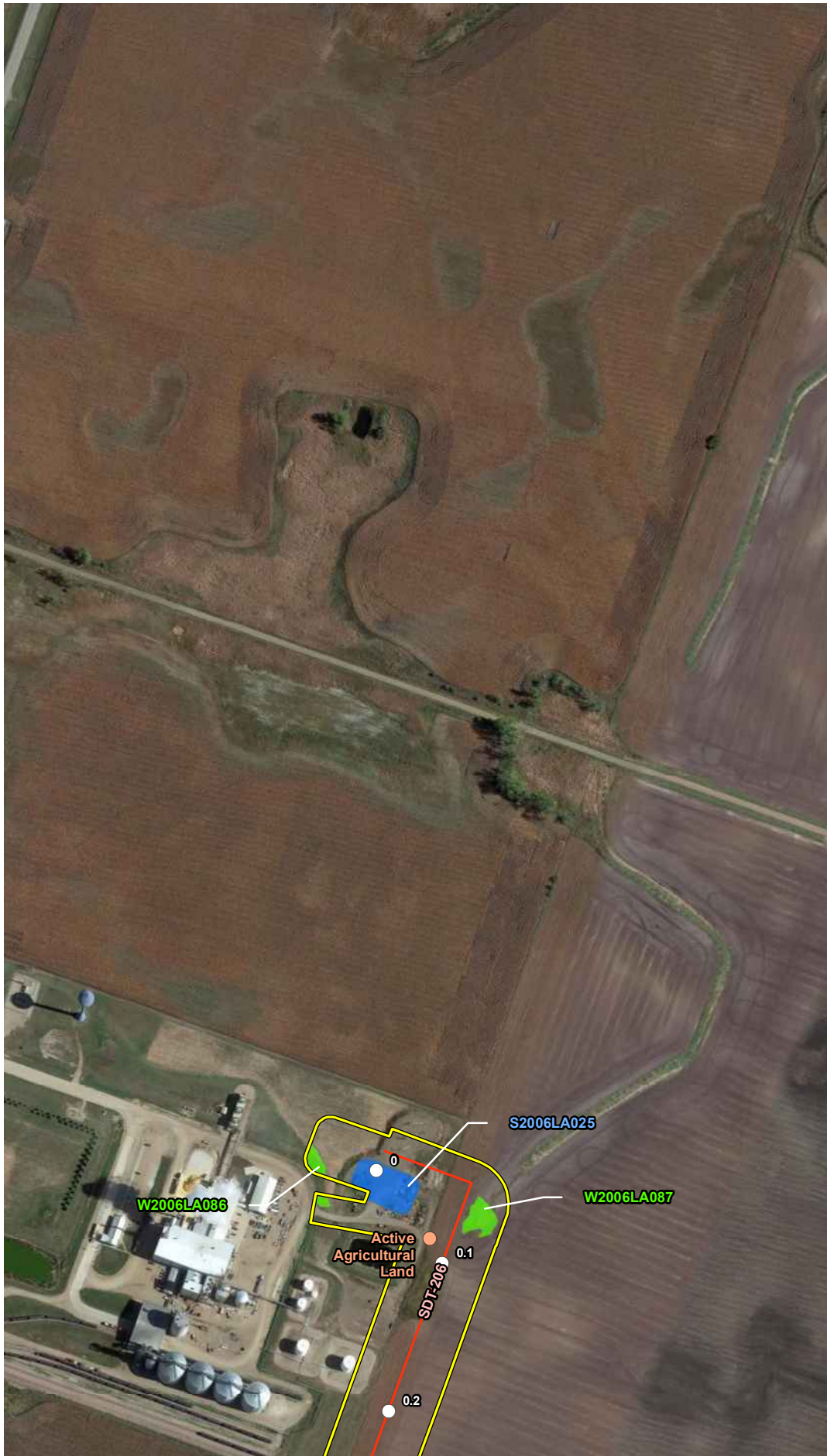
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0 250 500 Feet

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Scale:
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Projection:
 Transverse Mercator
 NAD 1983 UTM Zone 14N

Sheet:
 514
 Sheet 514 of 517

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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Projection:
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Sheet:
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Sheet 515 of 517

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AERIAL MAP



VICINITY MAP



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0 255 510 Feet

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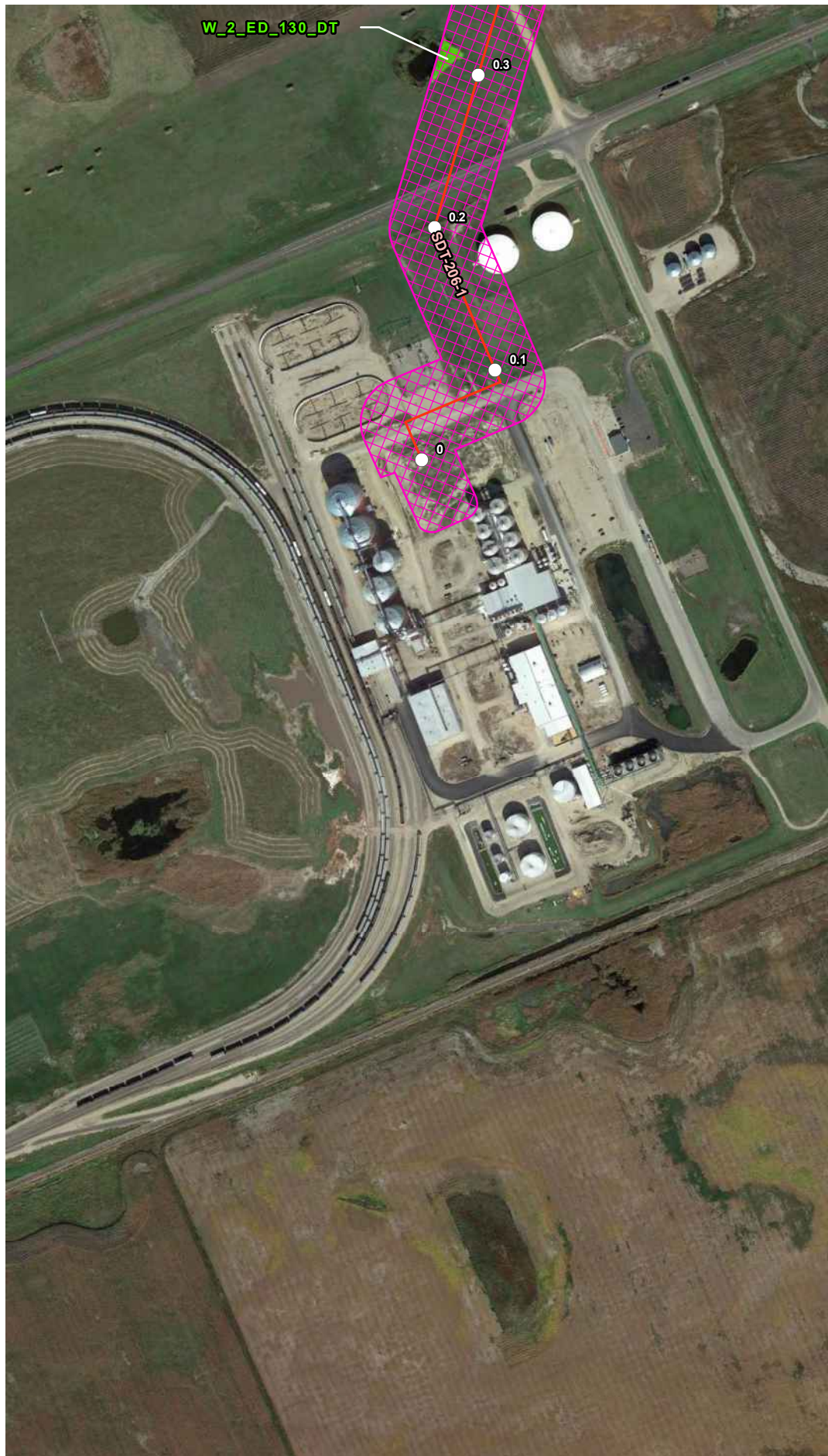
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AERIAL MAP



VICINITY MAP



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0 250 500 Feet



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Figure Number:

2

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NAD 1983 UTM Zone 14N

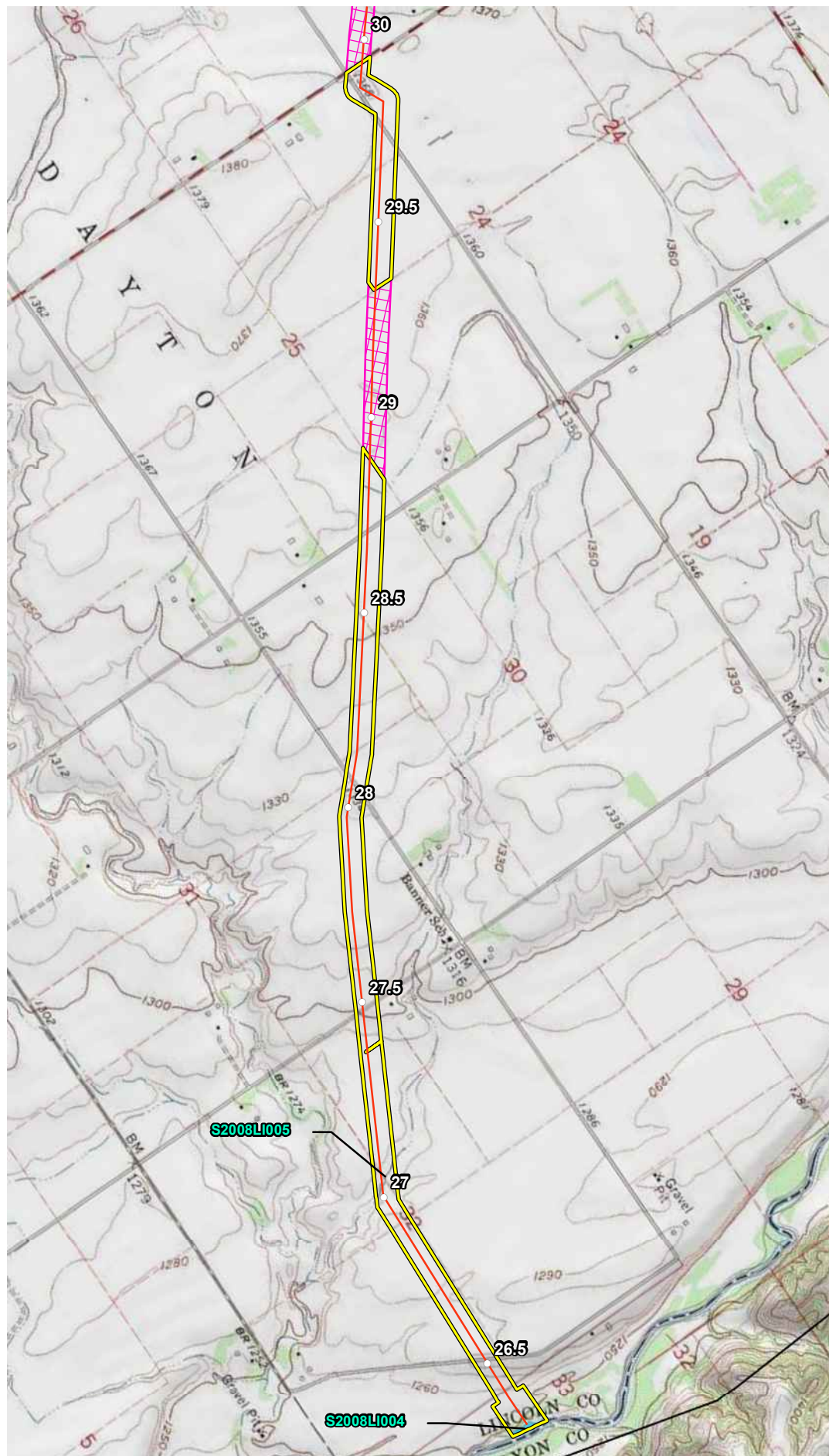
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Current Revision

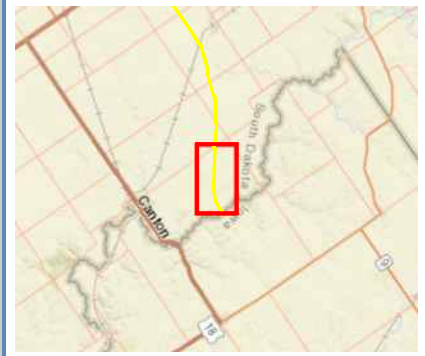
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Topographical Map

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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- State Boundary

0 1,000 2,000
Feet



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Figure Number:

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Scale:

Scale: 1:24,000

1 inch = 2,000 feet

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UTM 14N m

NAD83

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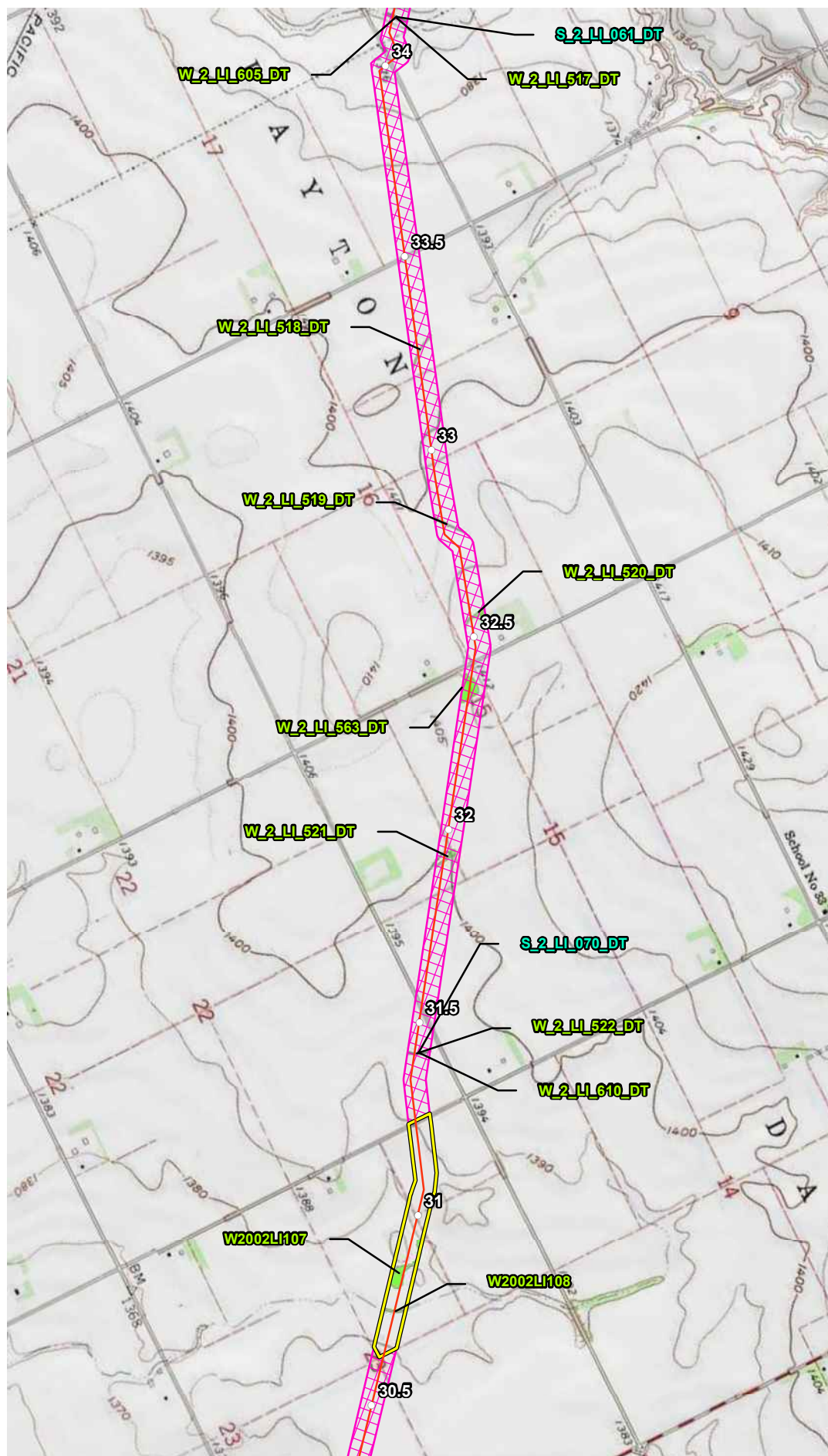
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Sheet 1 of 128

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
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0 1,000 2,000 Feet



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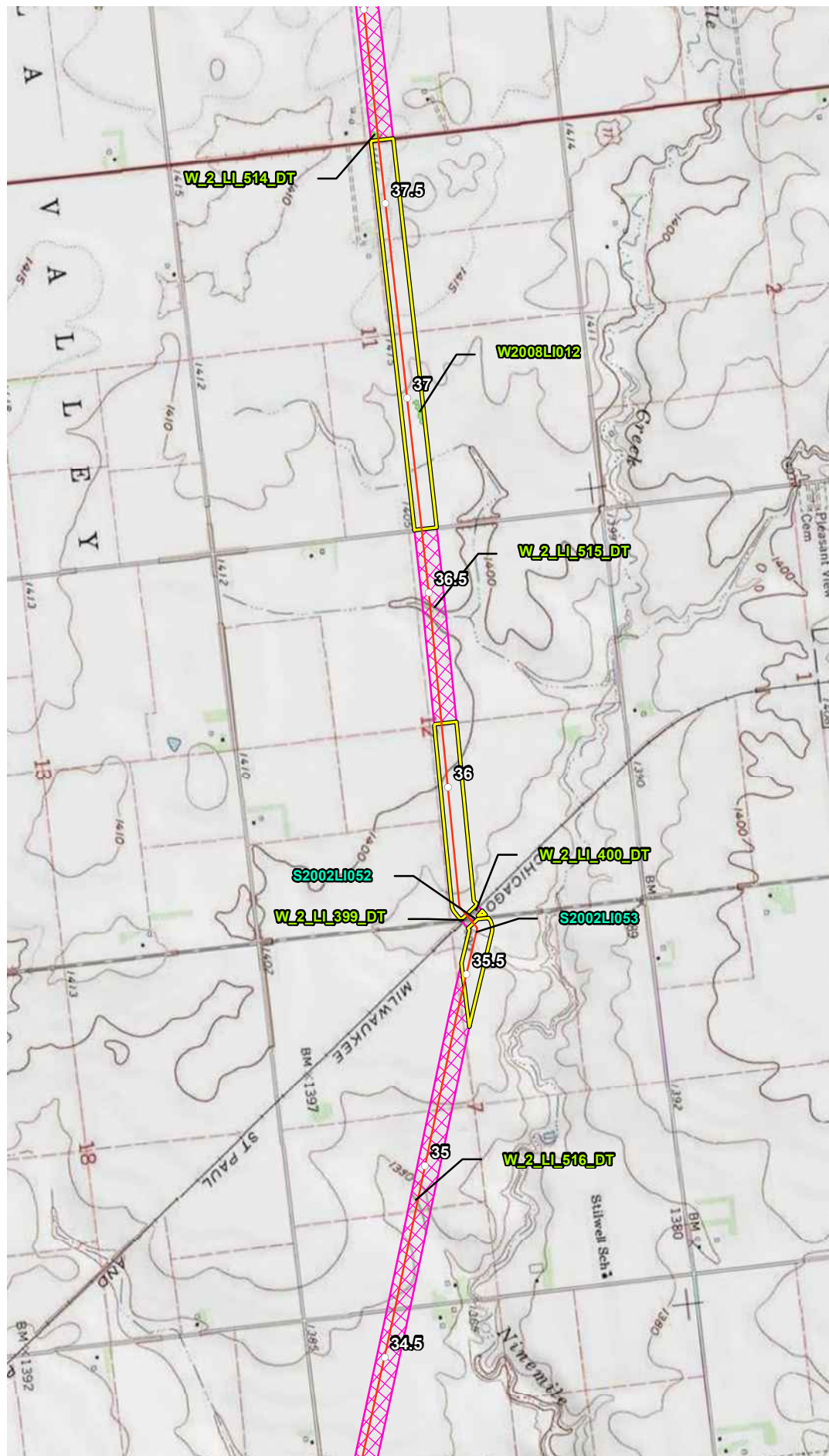
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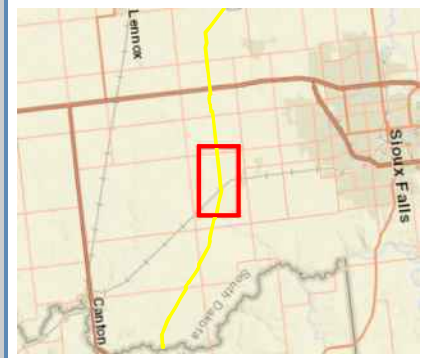
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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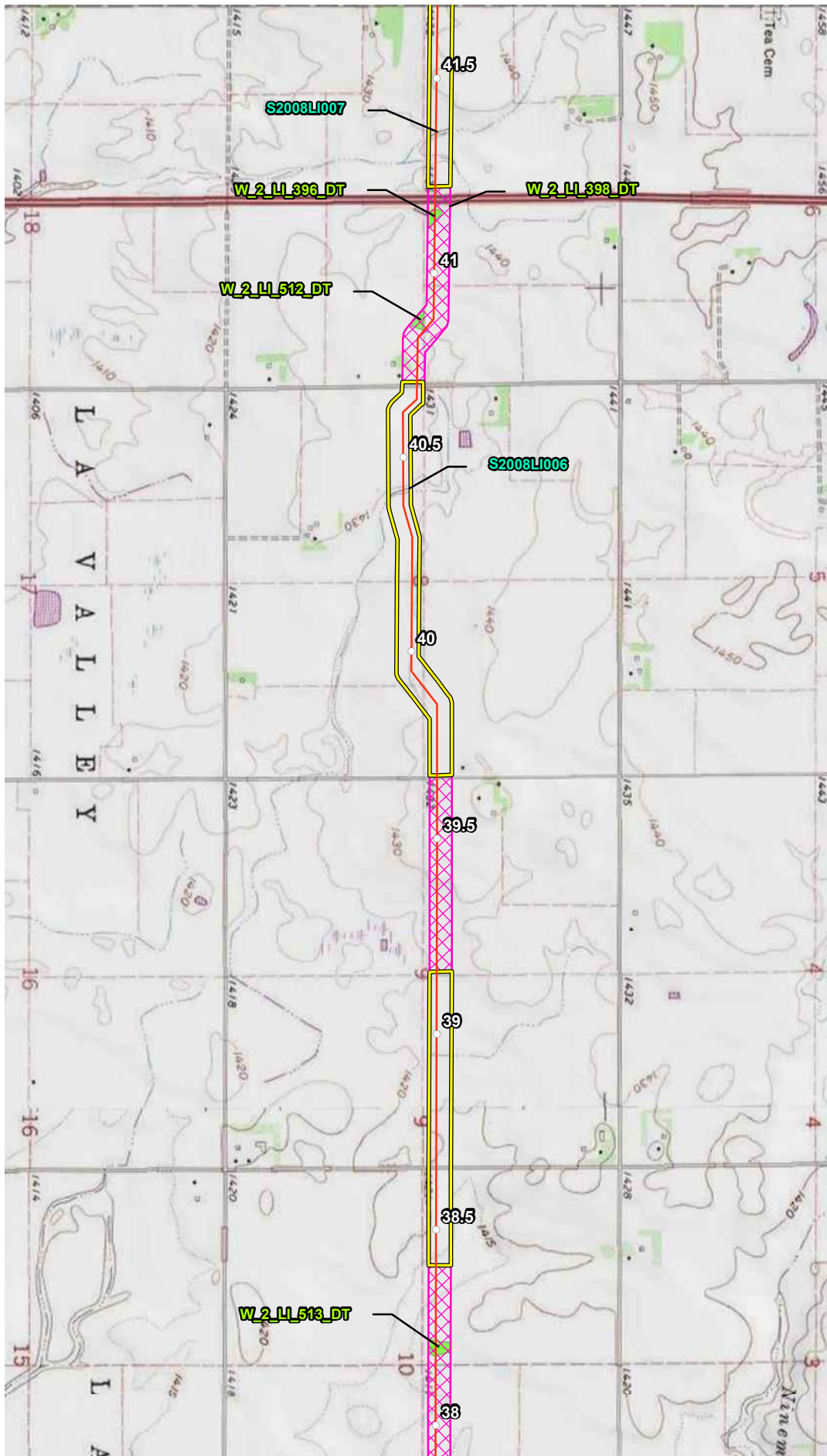
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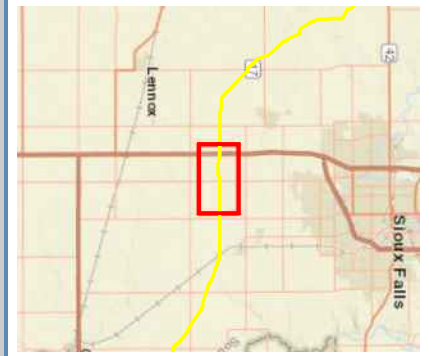
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Sheet 3 of 128

Drawing Number:
2001-22-003
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VICINITY MAP



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0 1,000 2,000 Feet



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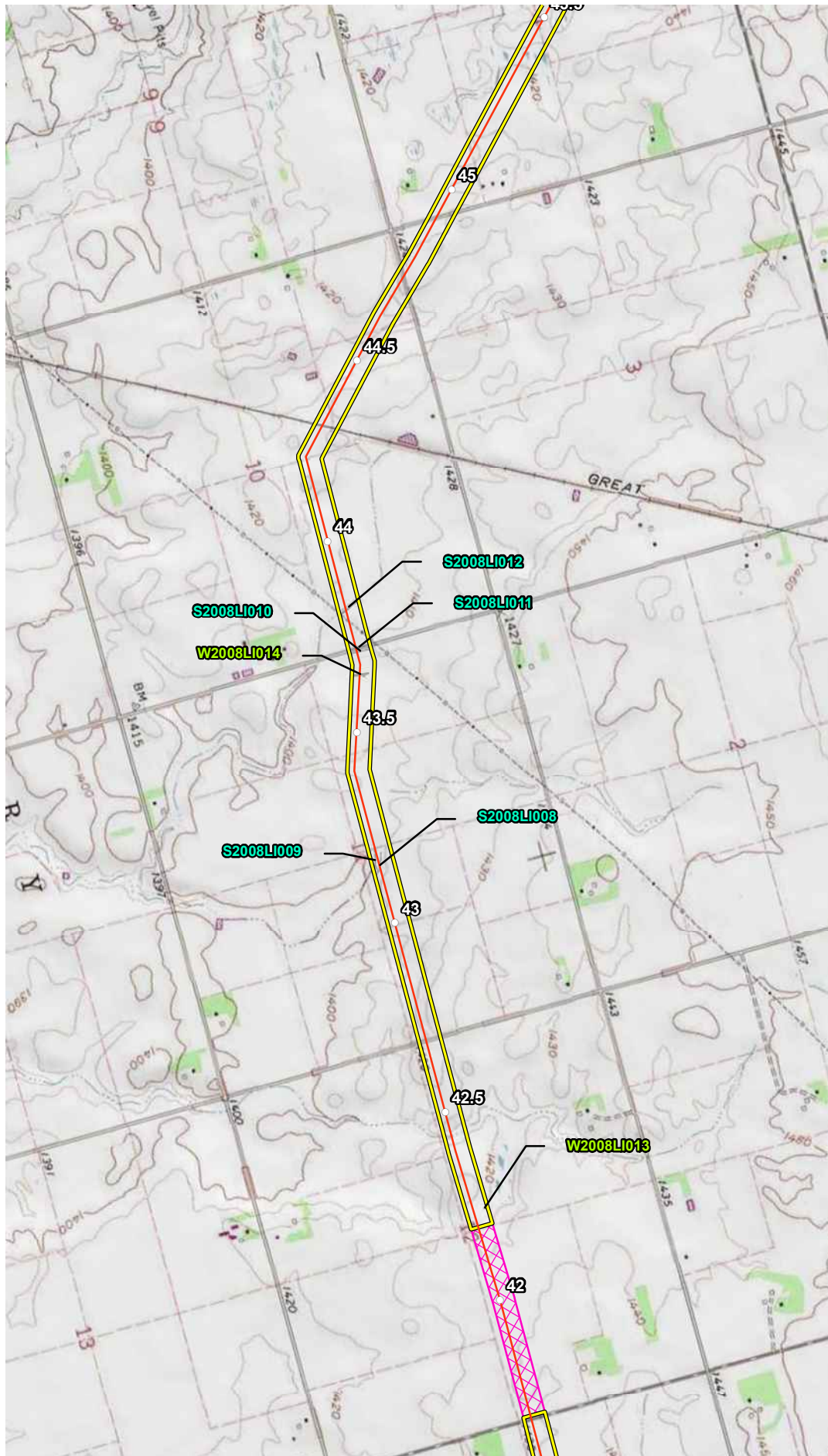
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Projection:
UTM 14N m
NAD83

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Sheet 4 of 128

Drawing Number:
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TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000
Feet



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Scale:

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1 inch = 2,000 feet

Projection:

UTM 14N m
NAD83

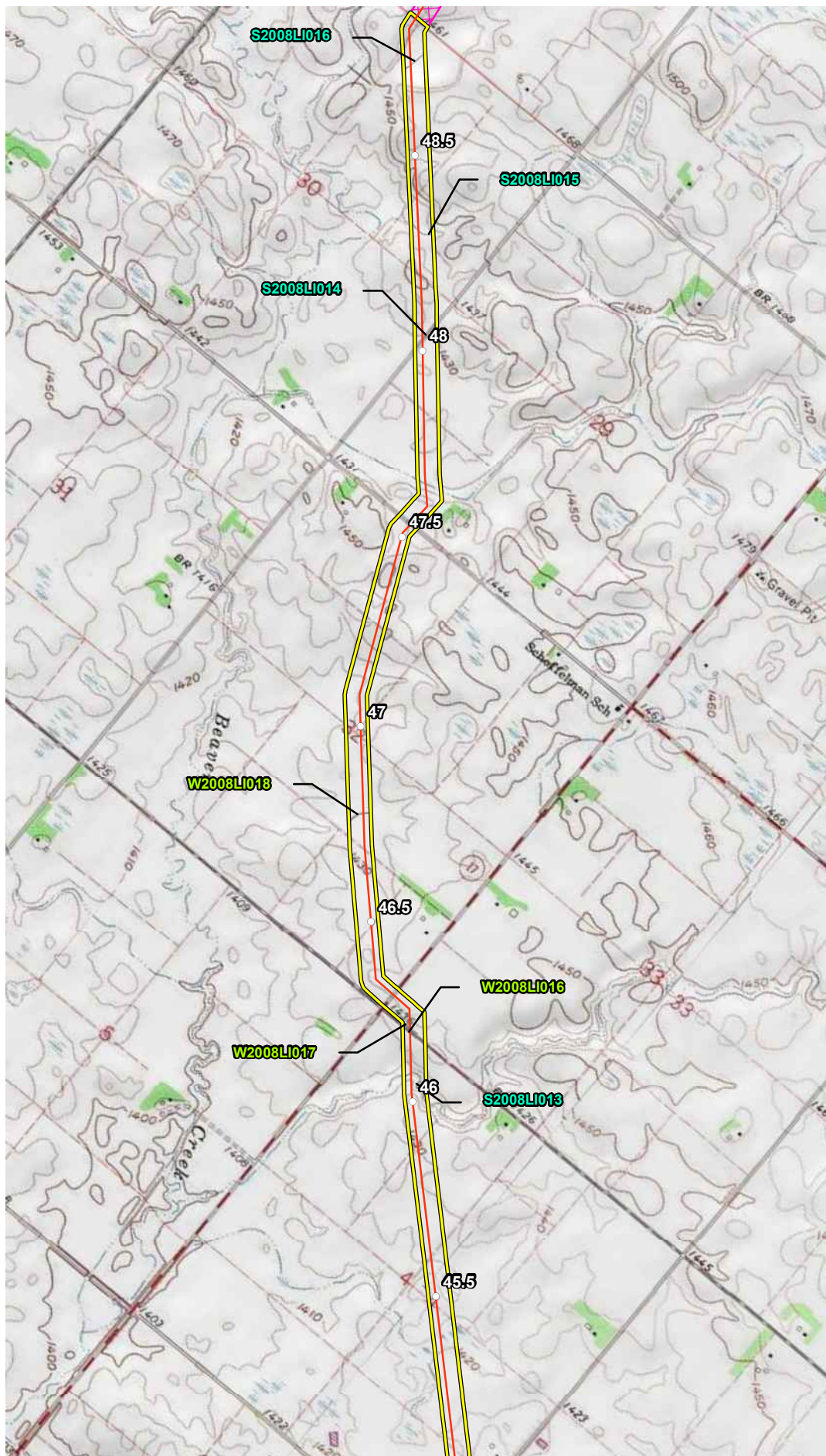
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TOPOGRAPHIC MAP



VICINITY MAP



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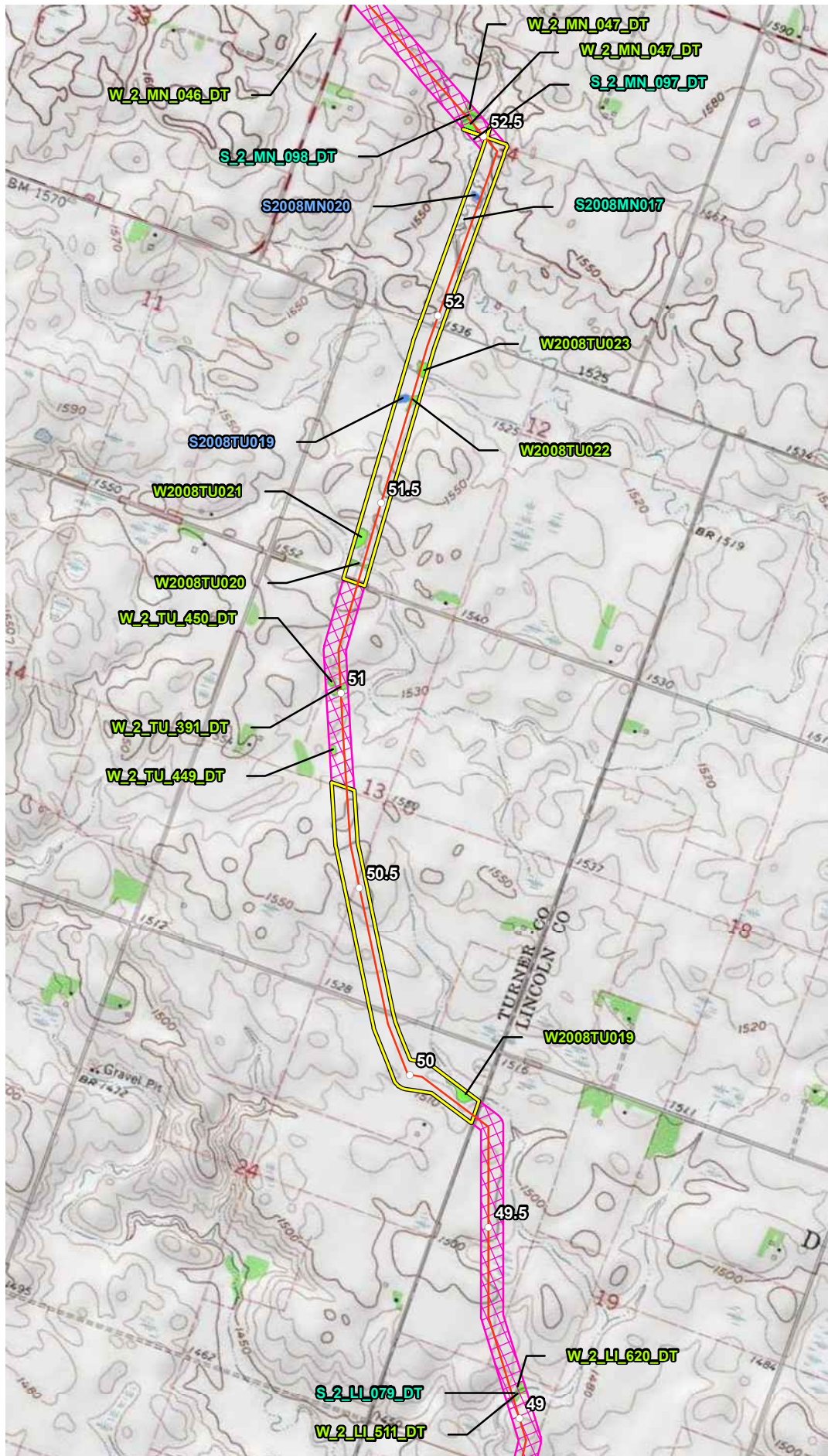
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NAD83

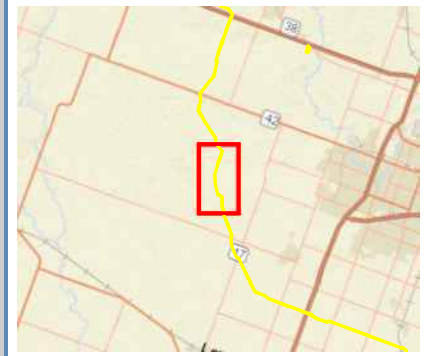
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Sheet 6 of 128

Drawing Number:
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TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000 Feet



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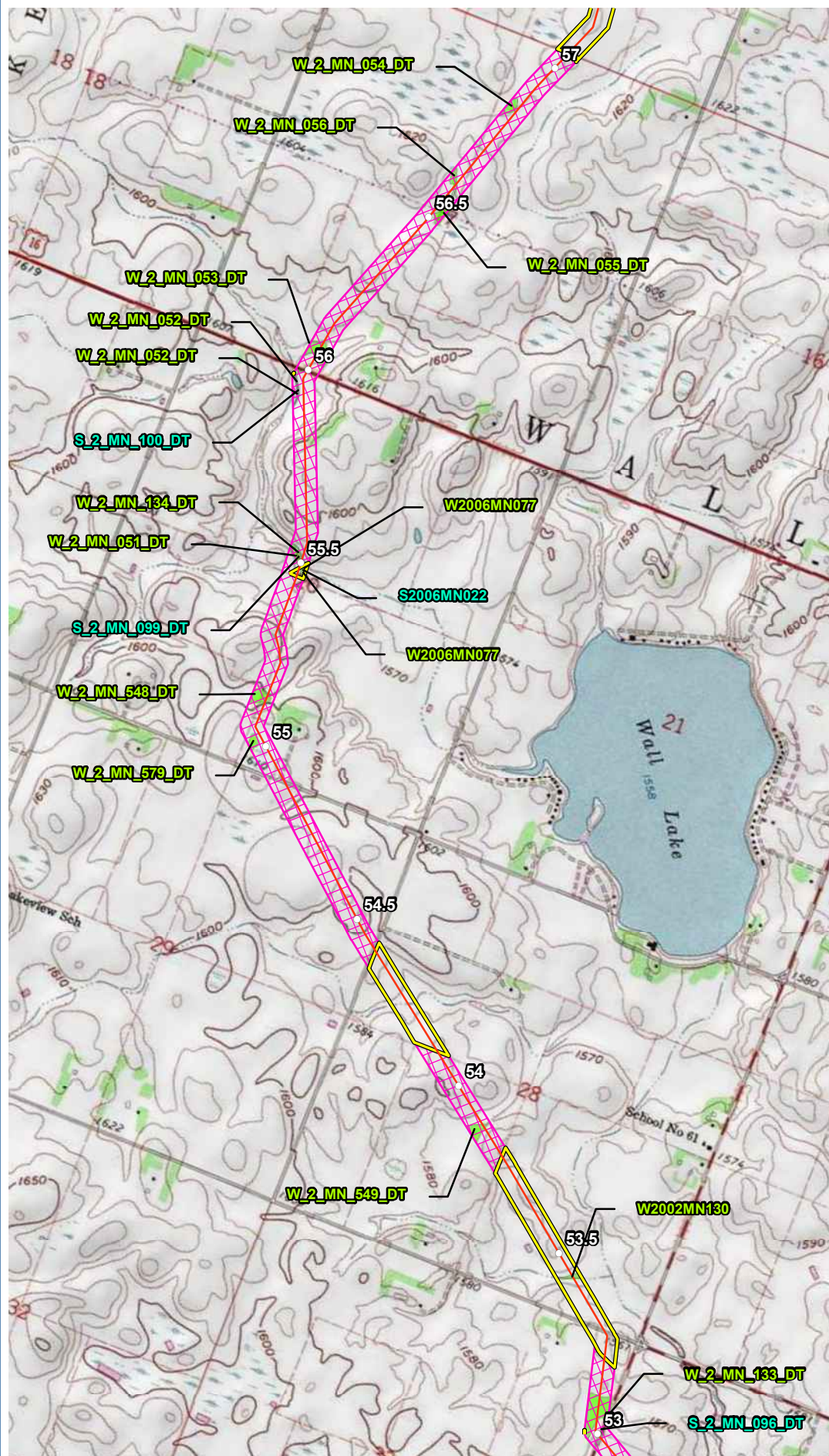
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Projection:
UTM 14N m
NAD83

Sheet:
7
Sheet 7 of 128

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TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

Revision Letter/Number - Revision

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Figure Number:

3

Scale:
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1 inch = 2,000 feet

Projection:
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NAD83

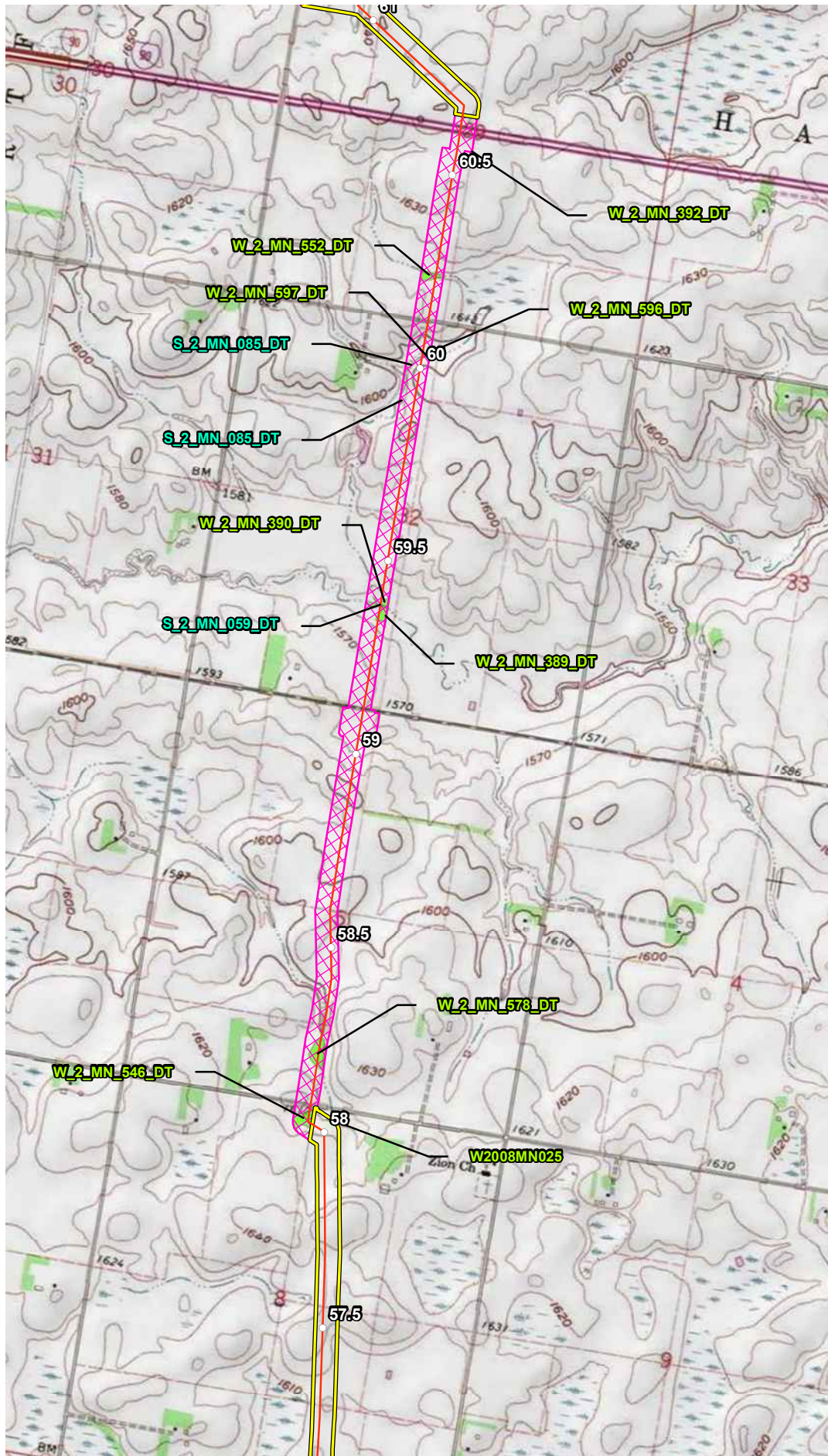
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Sheet 8 of 128

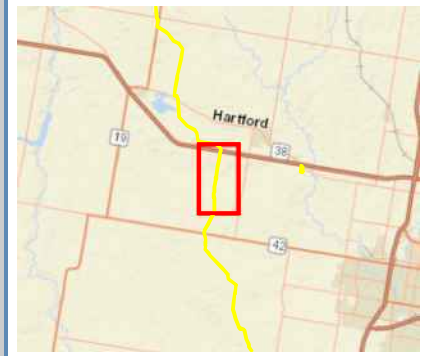
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
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- County Boundary
- State Boundary

0 1,000 2,000 Feet



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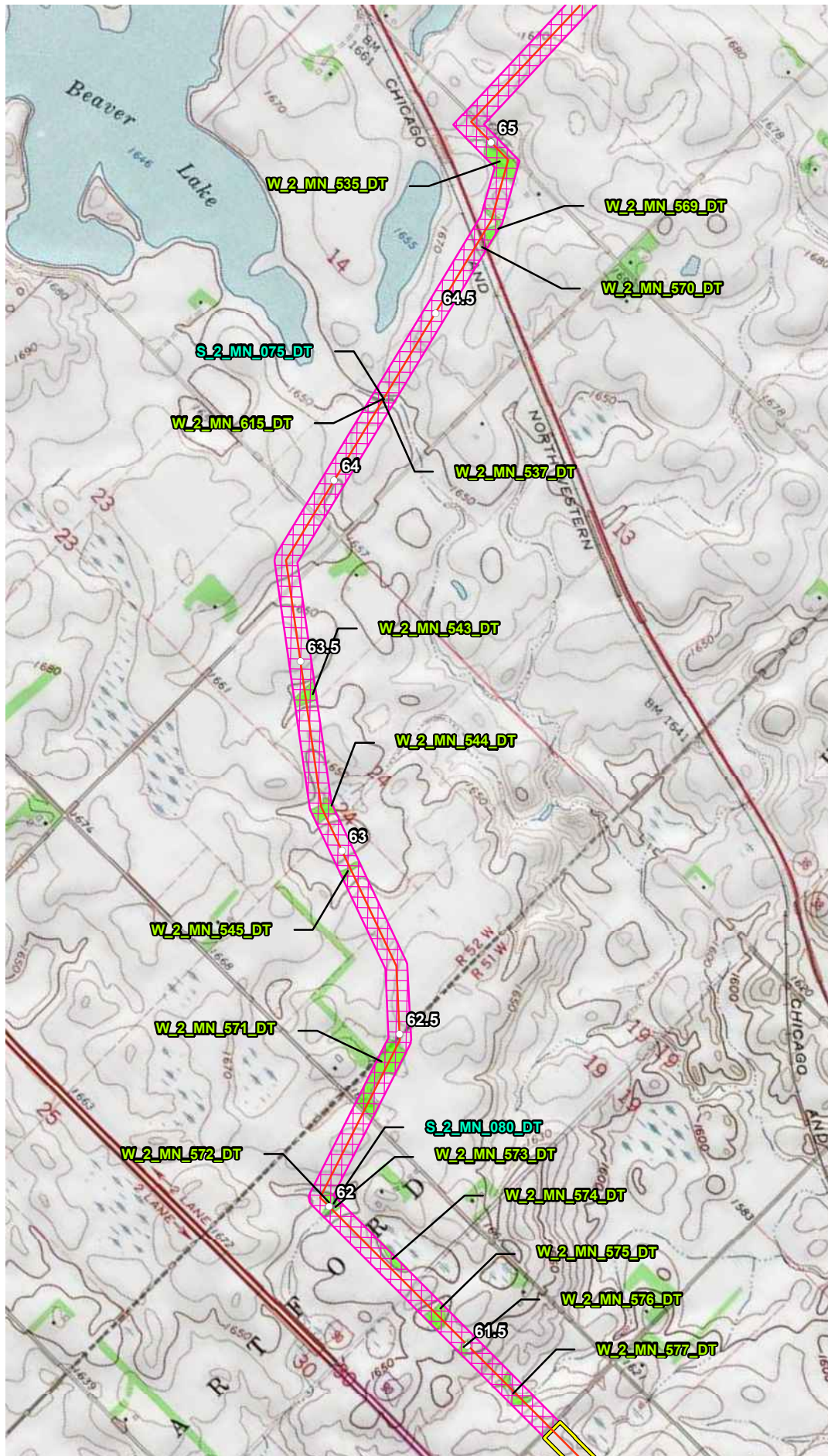
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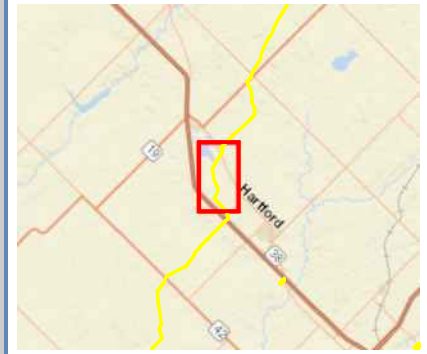
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Sheet 9 of 128

Drawing Number:
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Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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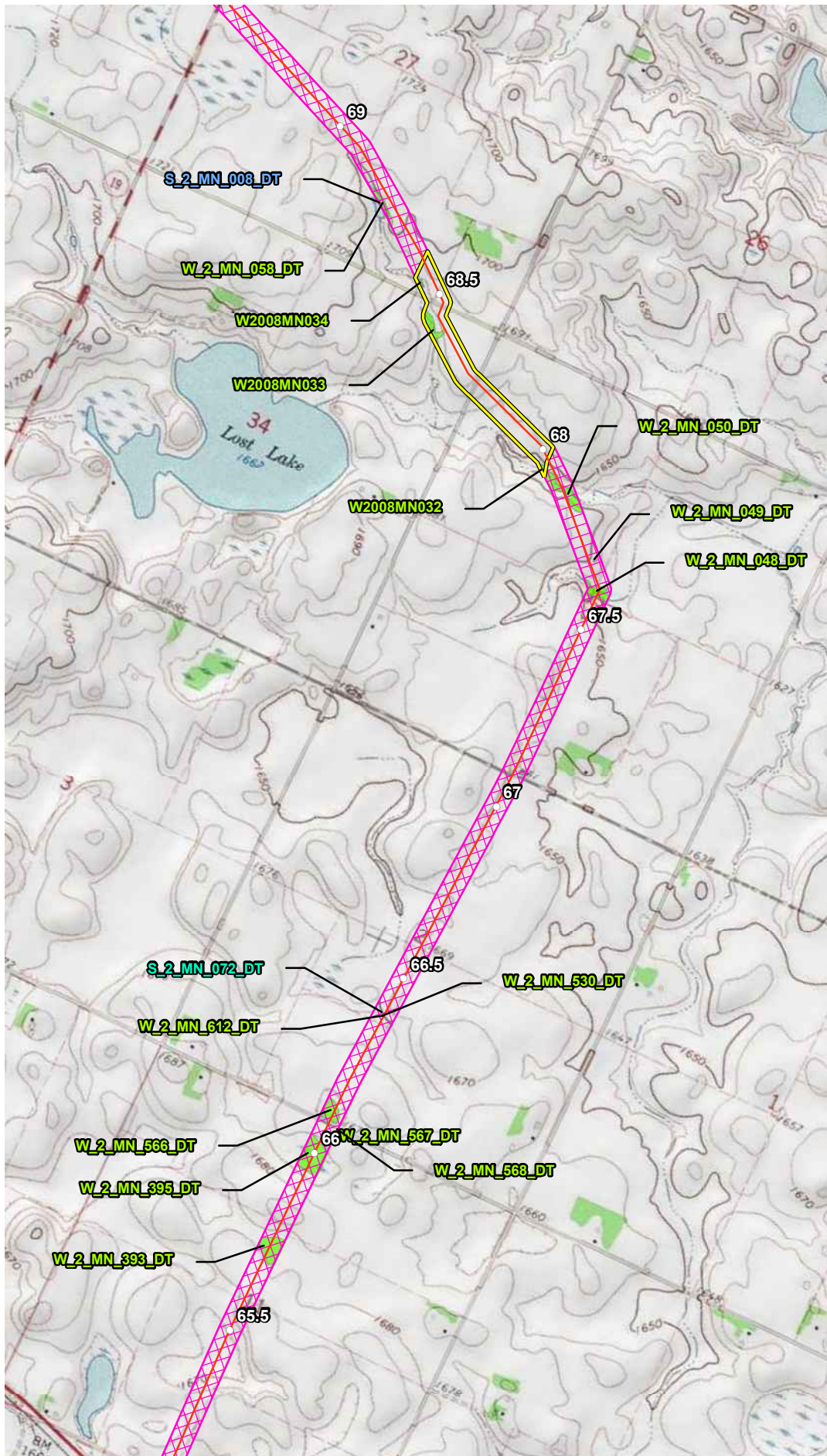
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Sheet 10 of 128

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TOPOGRAPHIC MAP



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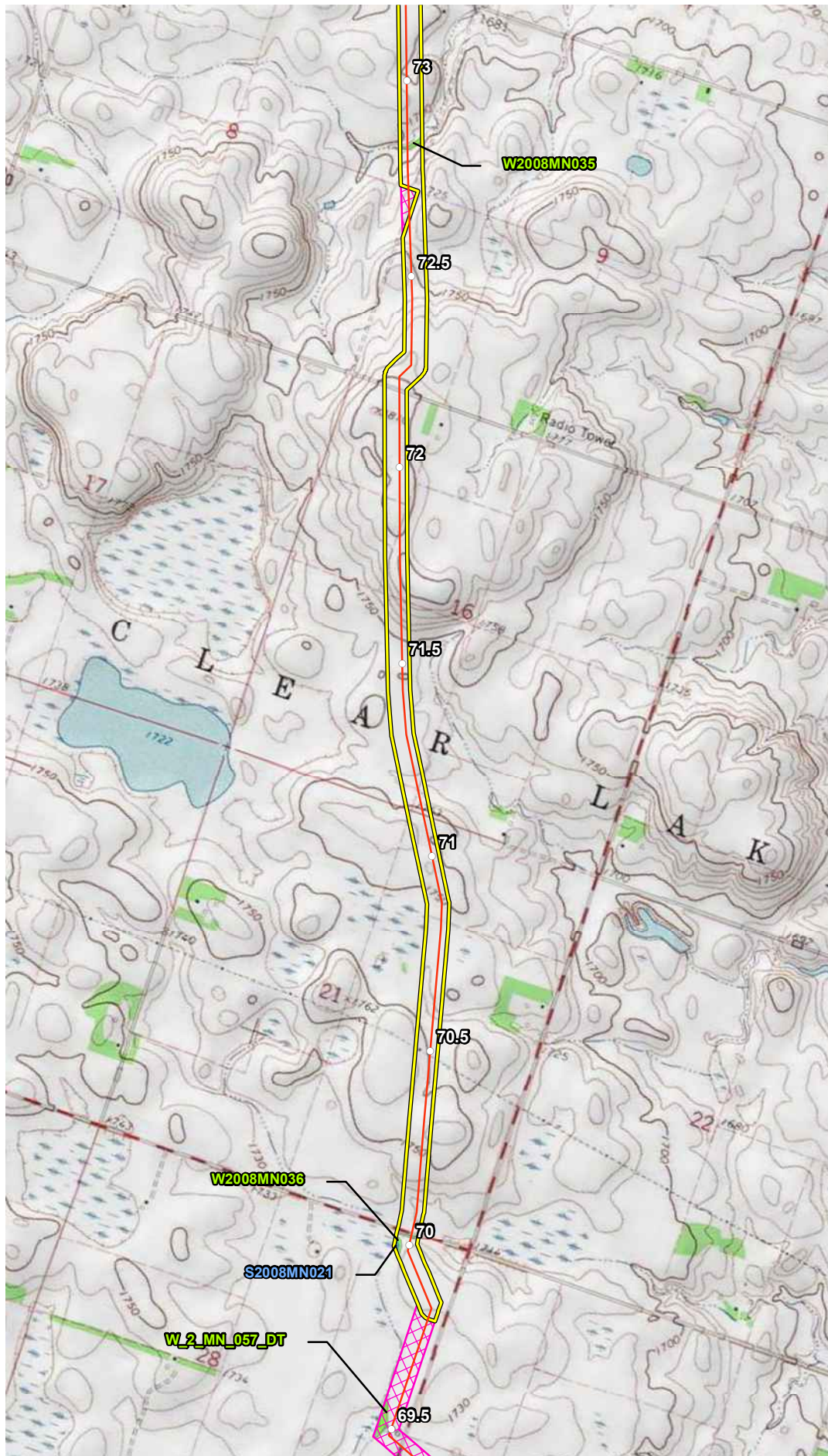
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Sheet:
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Sheet 11 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



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Projection:

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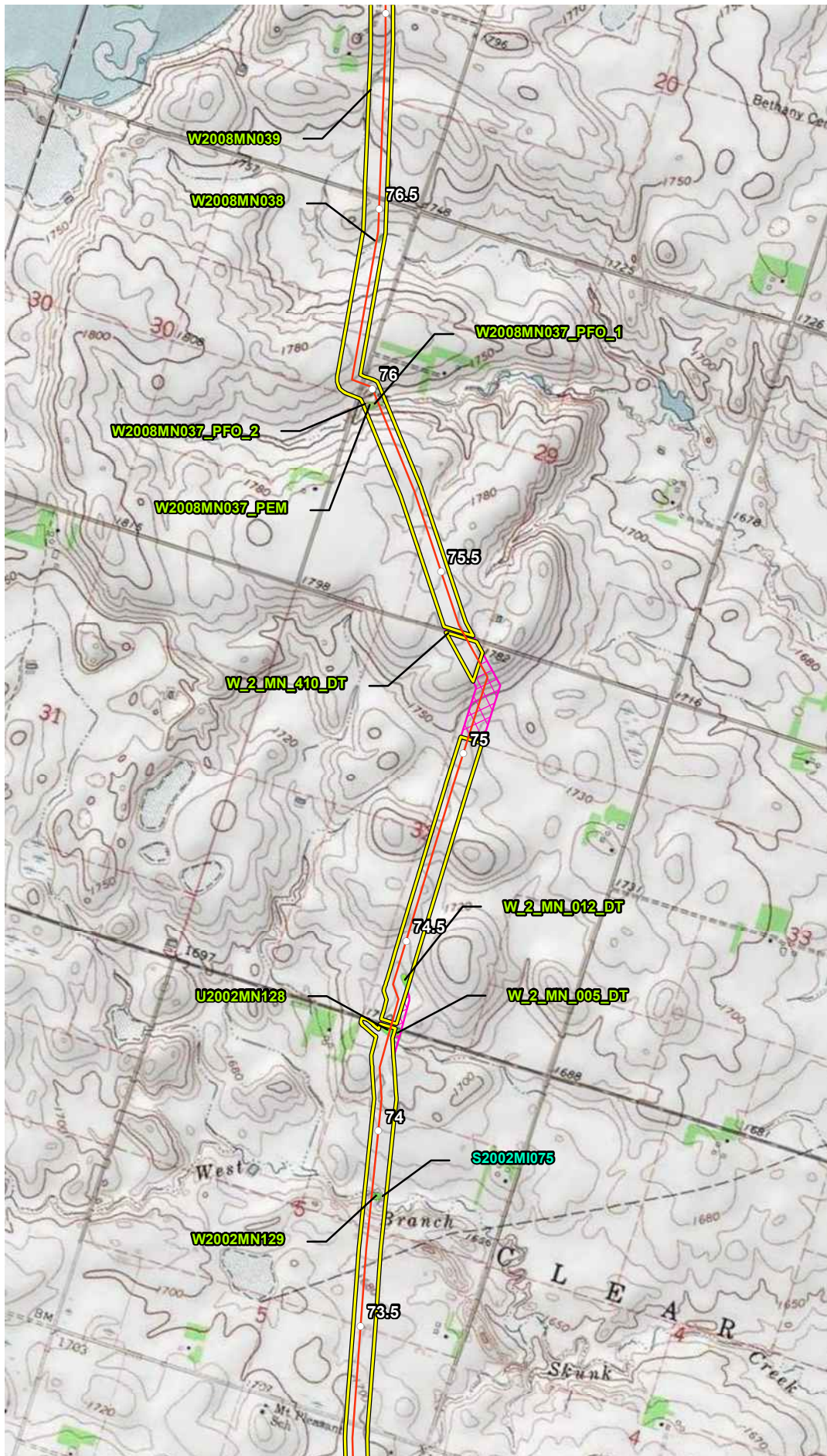
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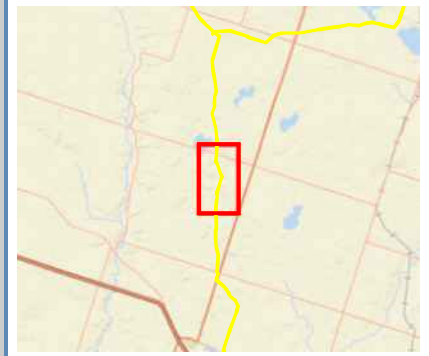
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VICINITY MAP



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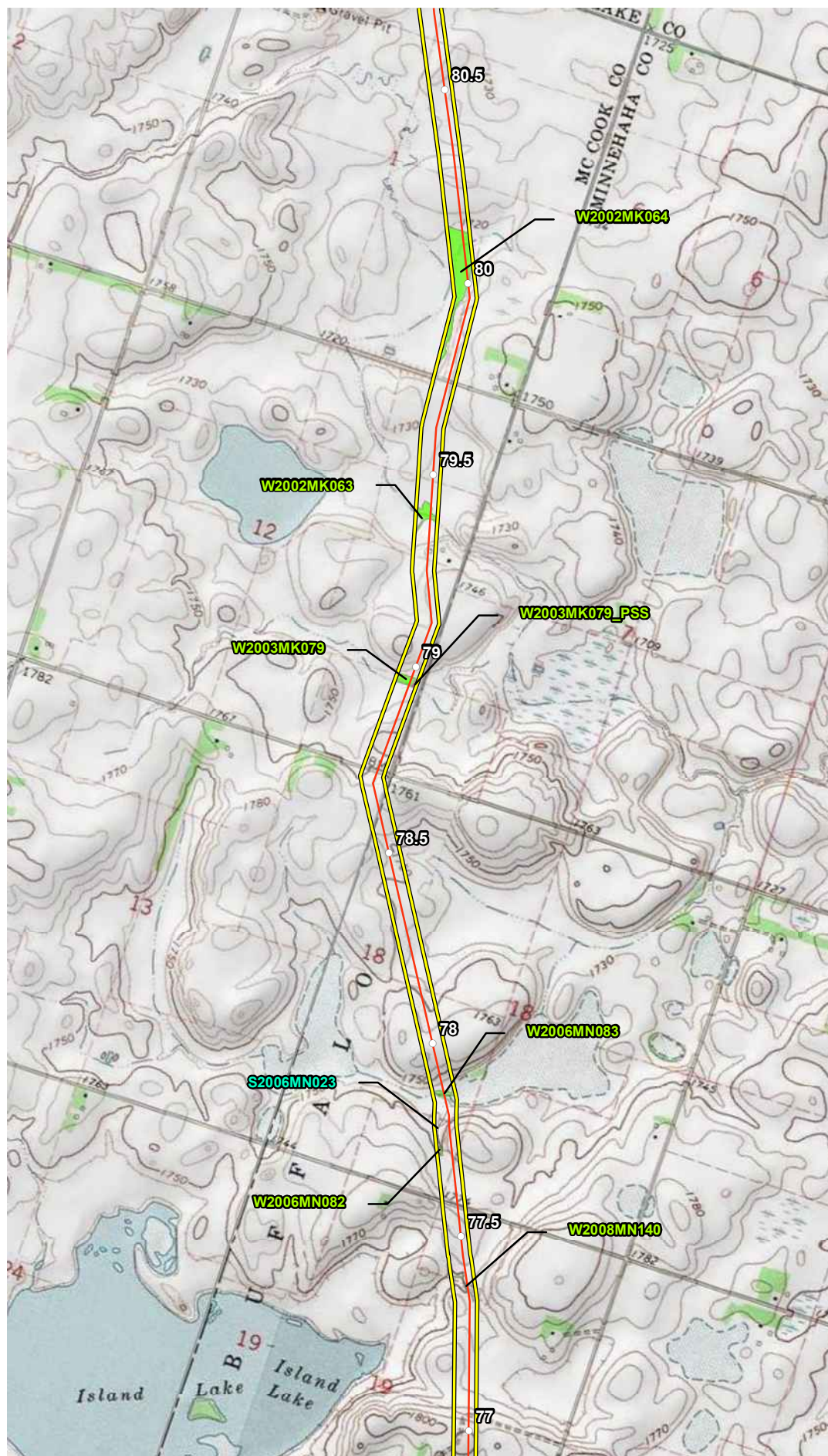
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 NAD83

Sheet:
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 Sheet 13 of 128

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Projection:
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NAD83

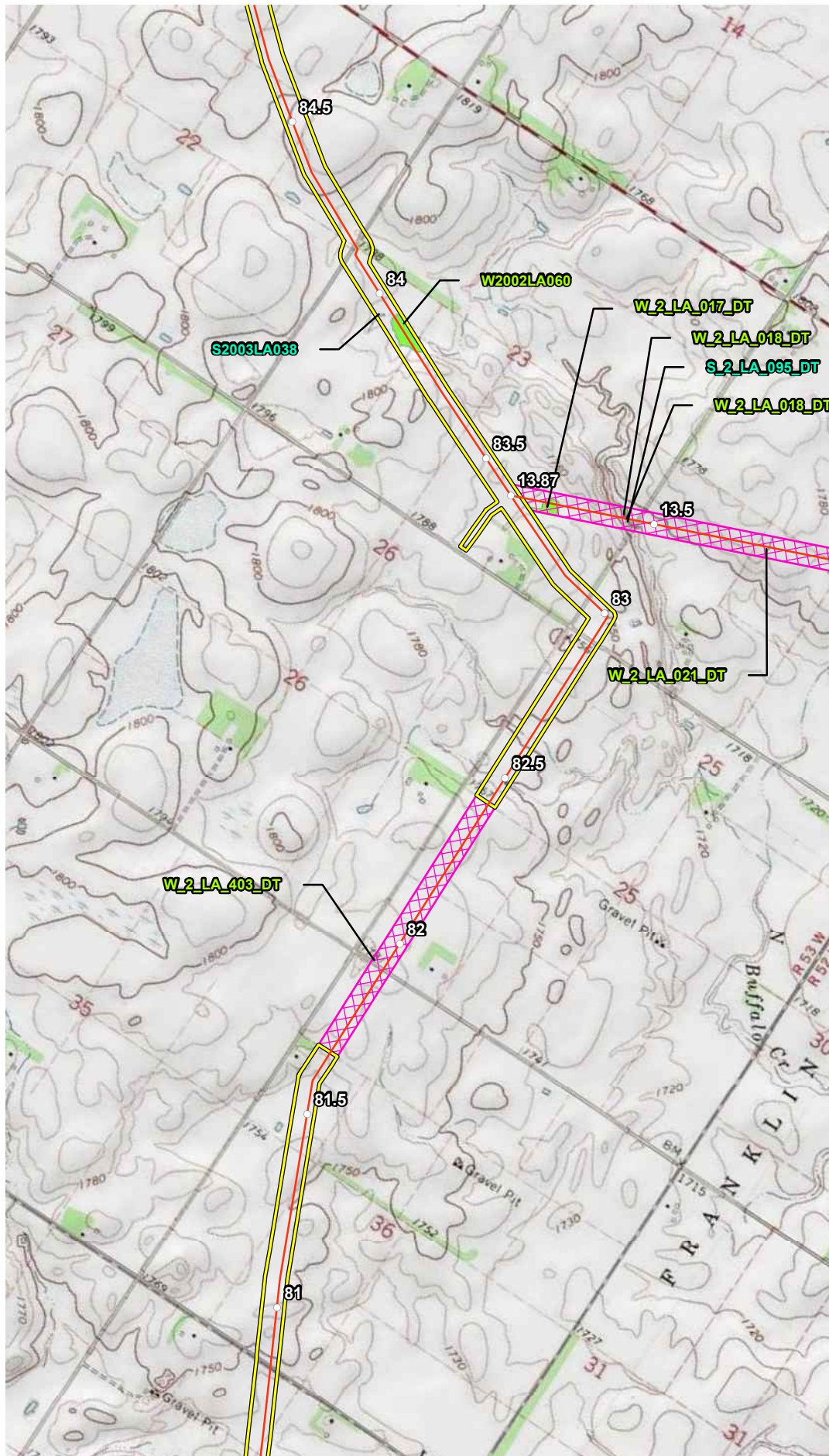
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Sheet 14 of 128

Drawing Number:
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Projection:

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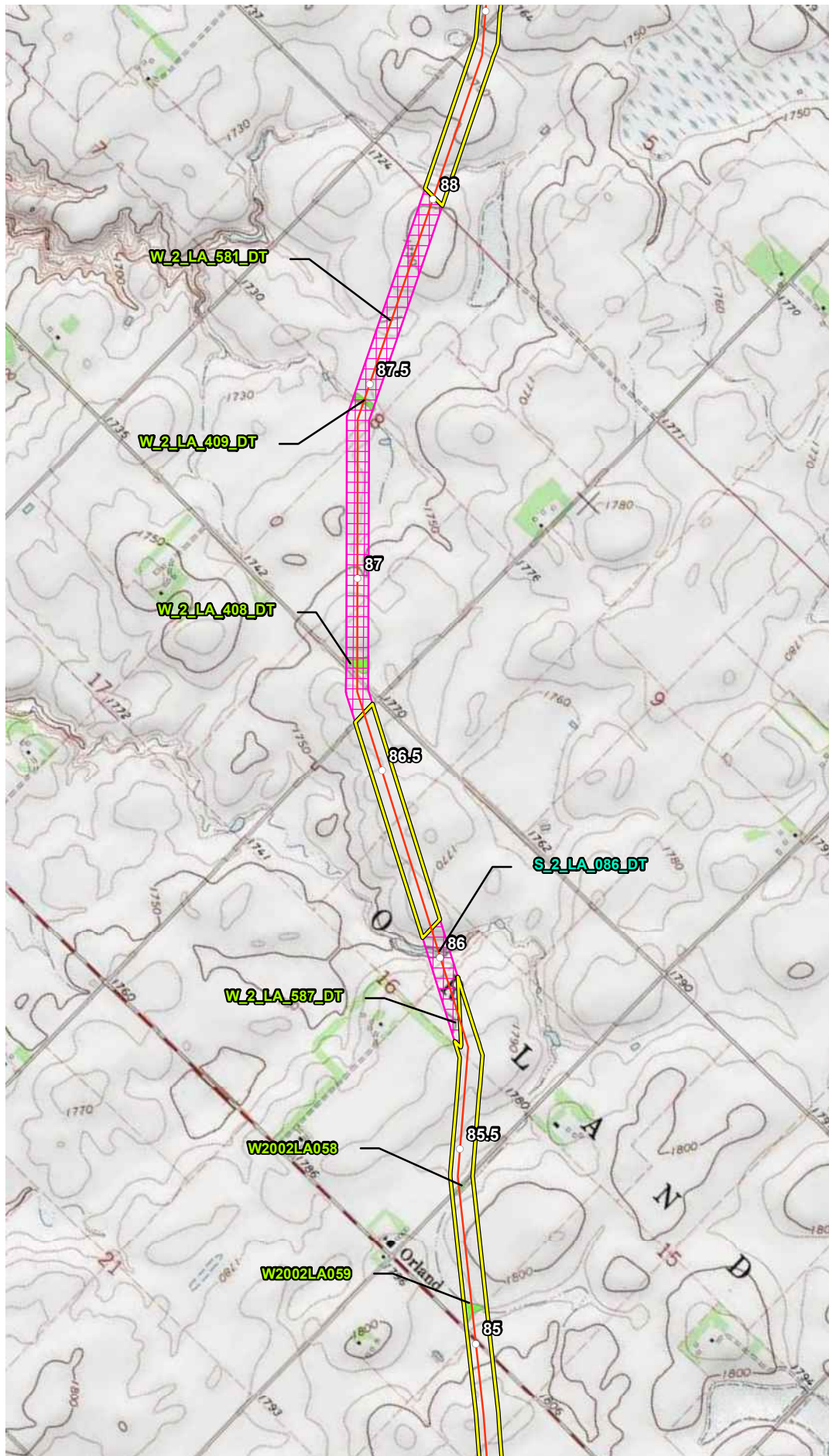
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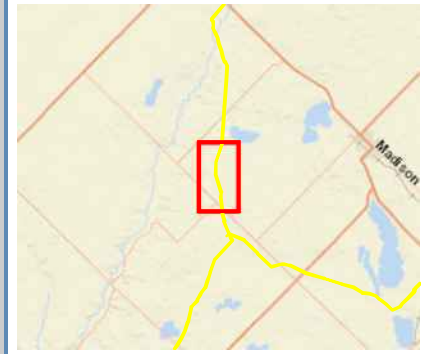
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Projection:

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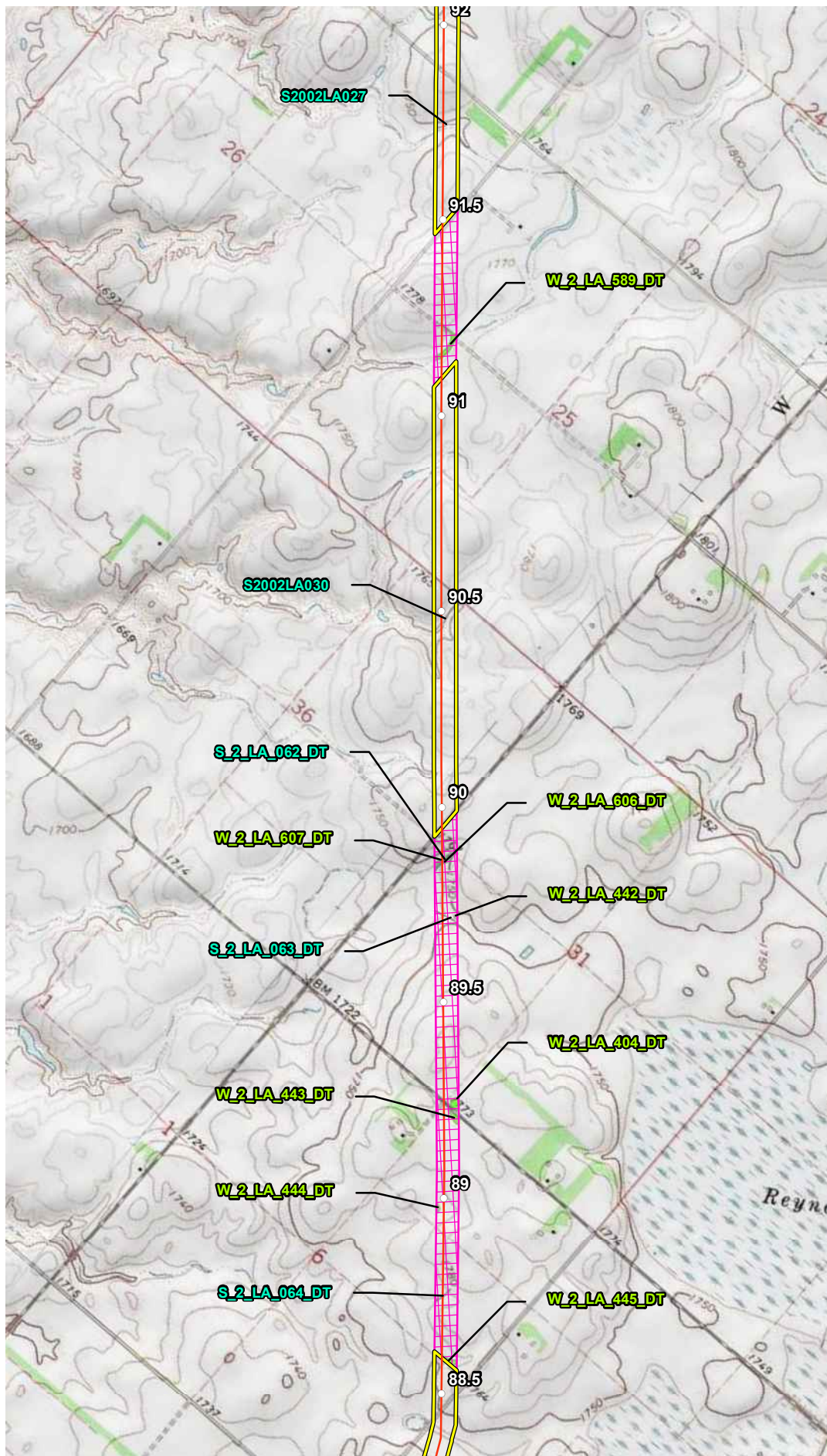
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Sheet 16 of 128

Current Revision

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Figure Number:
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1 inch = 2,000 feet

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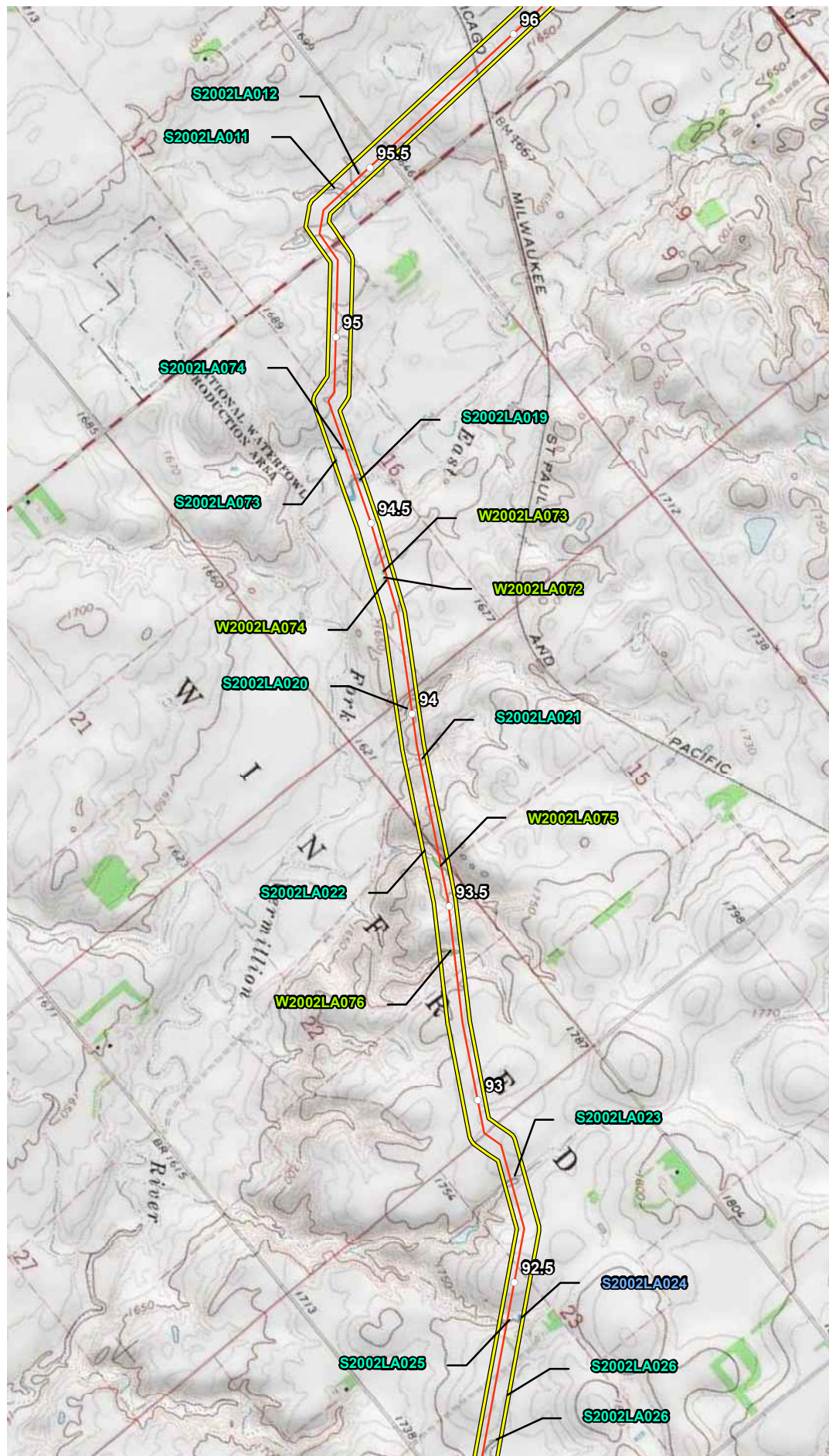
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Sheet 17 of 128

Drawing Number:
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TOPOGRAPHIC MAP



VICINITY MAP



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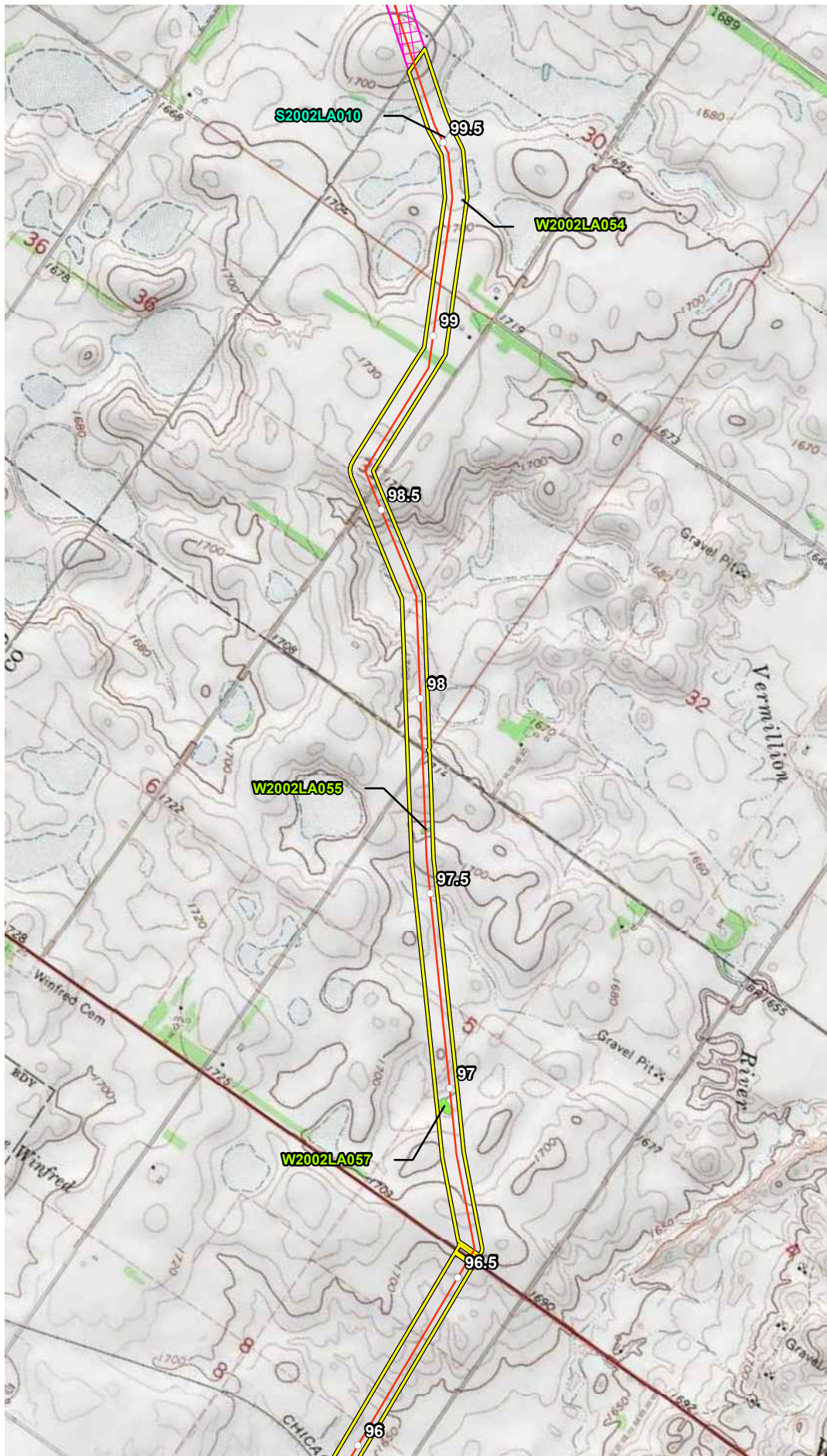
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Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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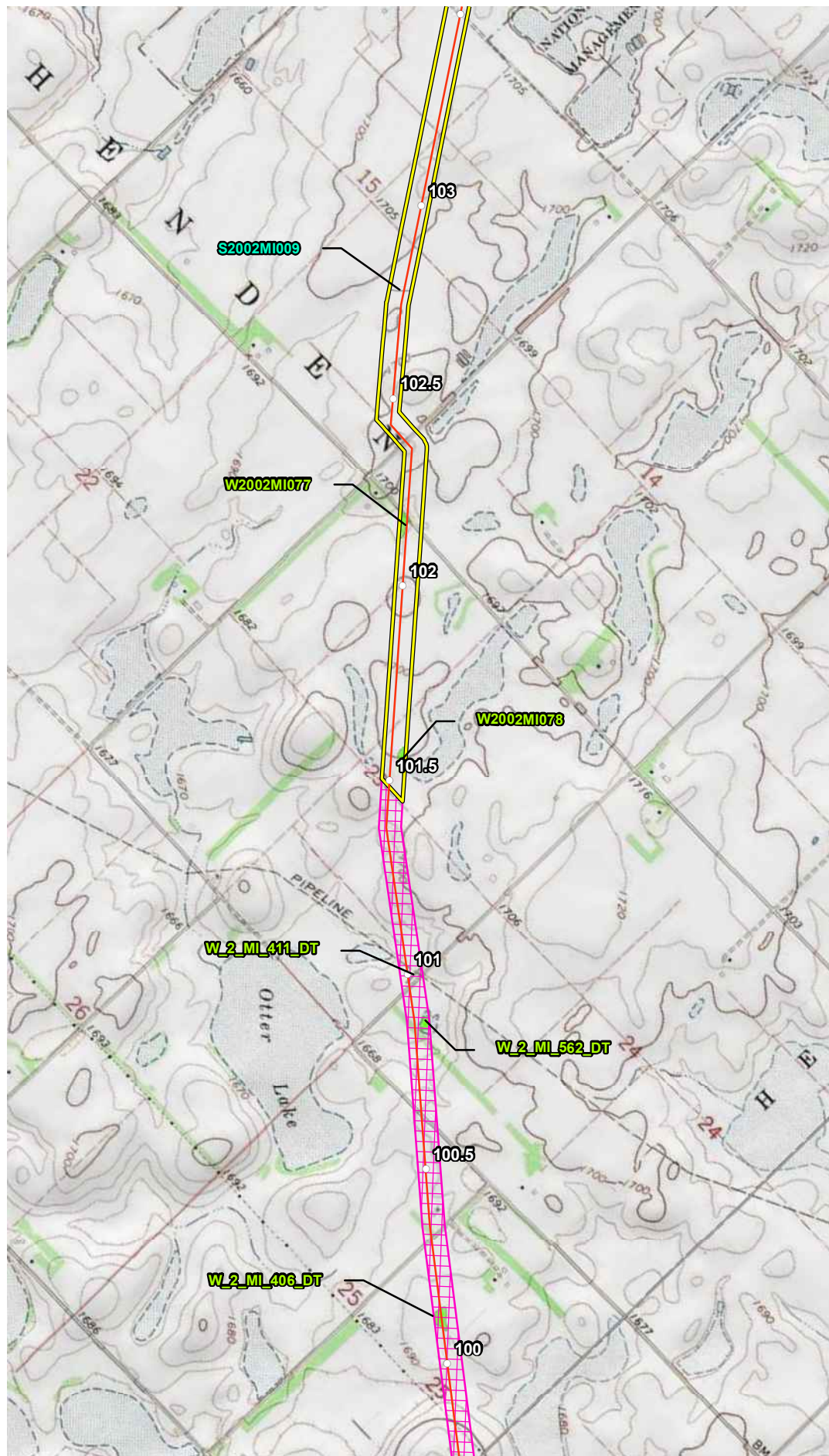
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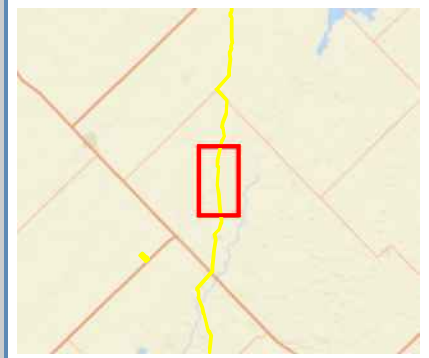
Sheet:
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 Sheet 19 of 128

Drawing Number:
 2001-22-003
 Current Revision

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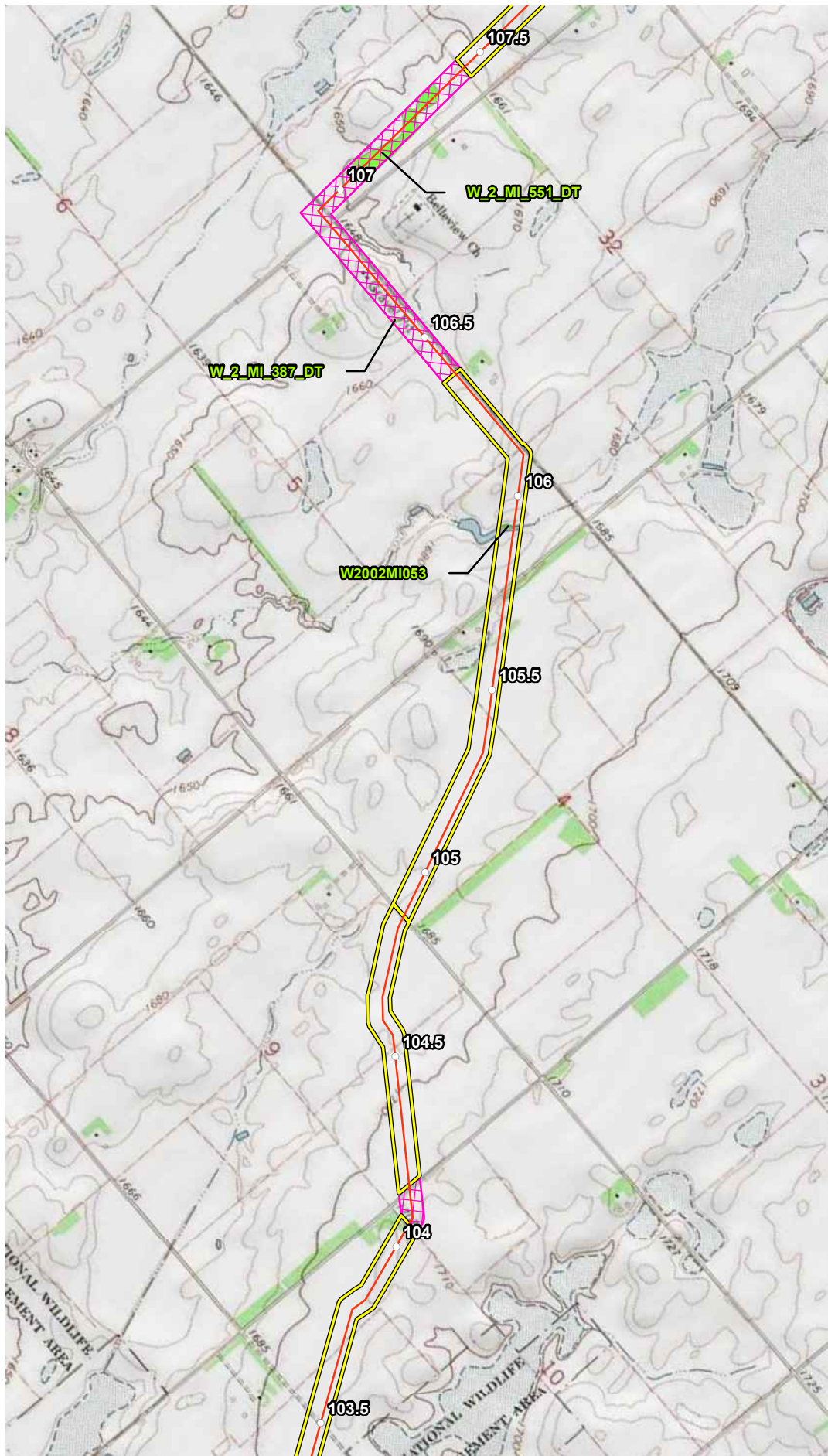
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Sheet 20 of 128

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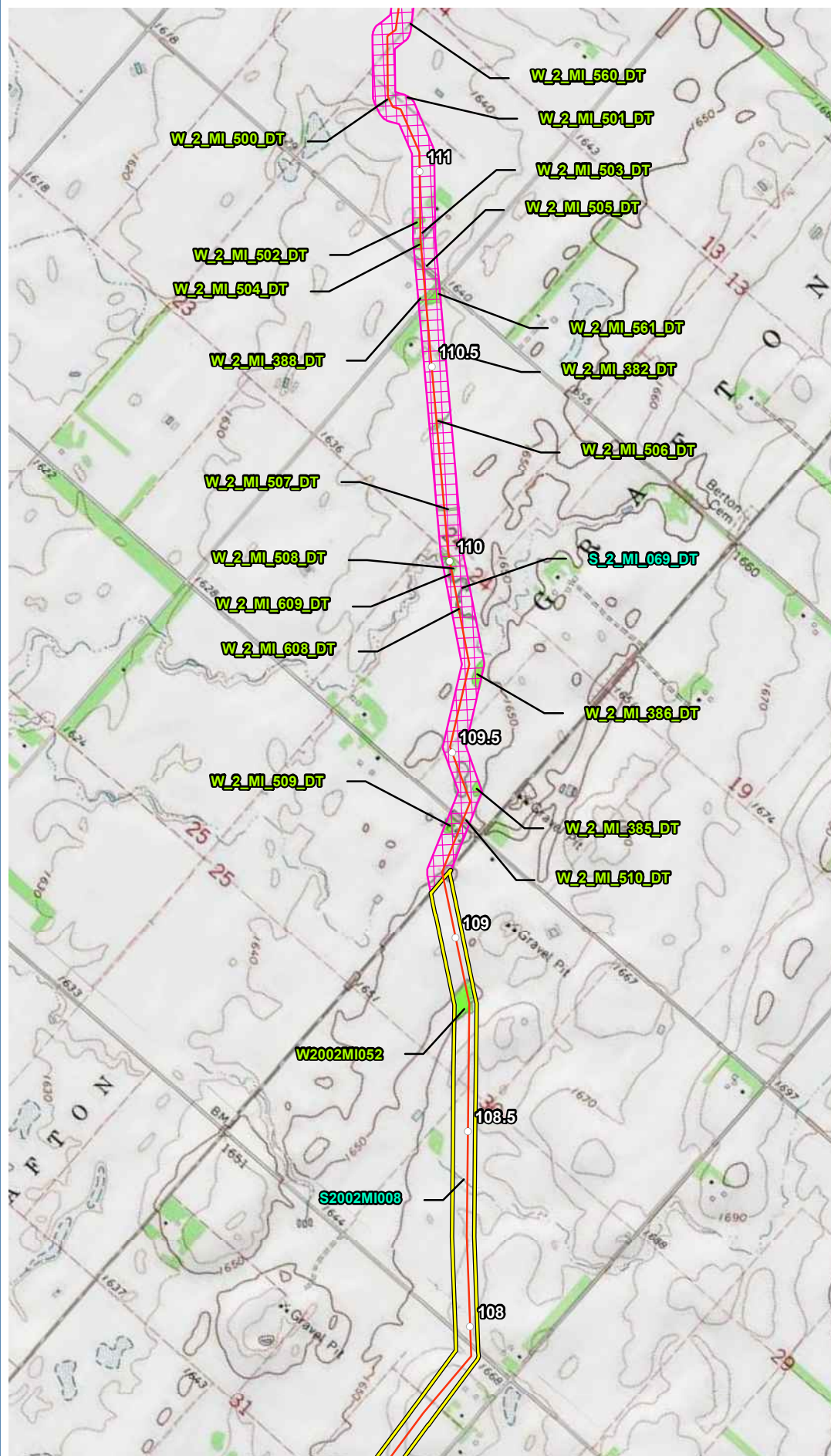
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Sheet 21 of 128

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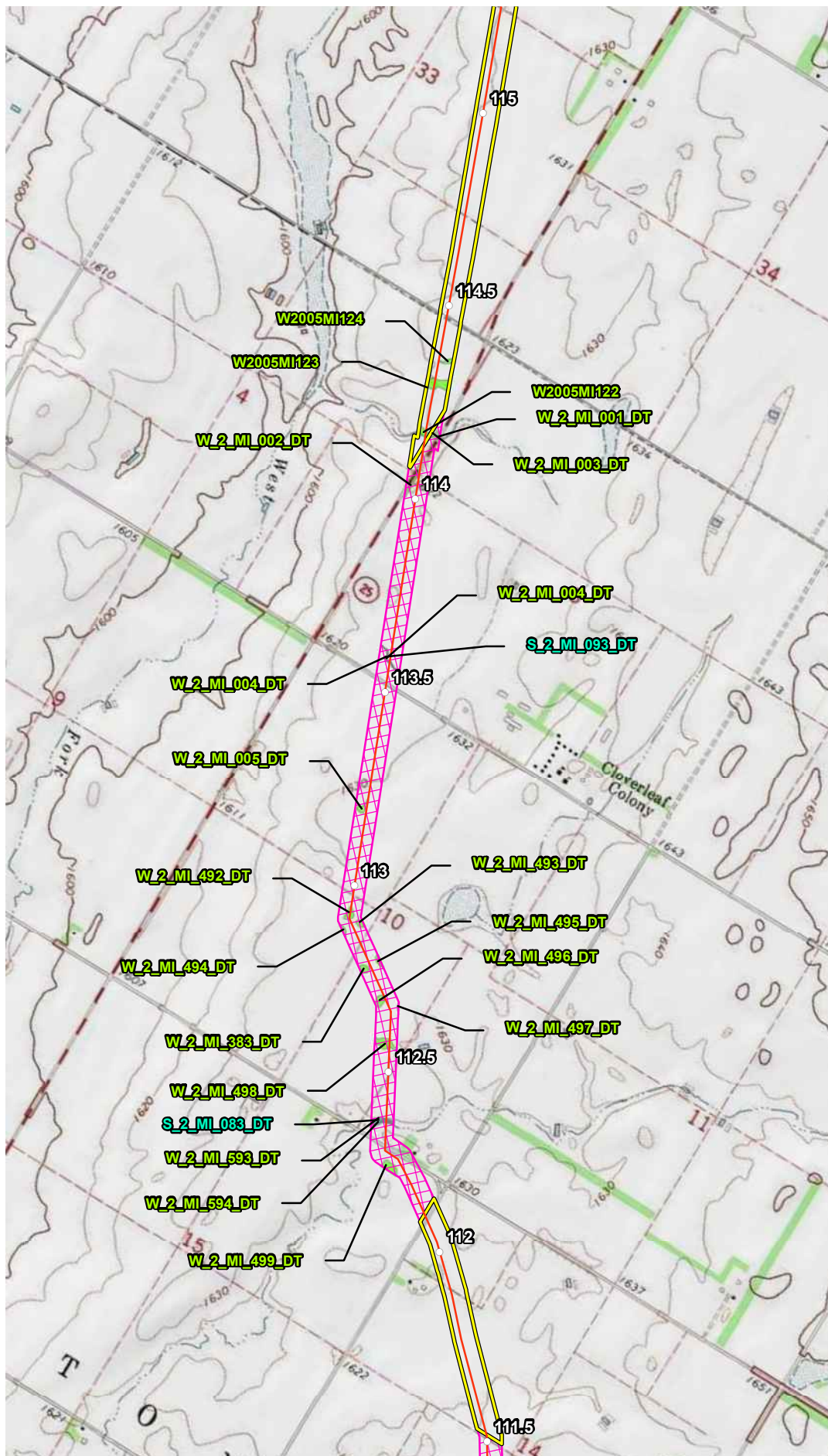
2001-22-003

Sheet 22 of 128

Current Revision

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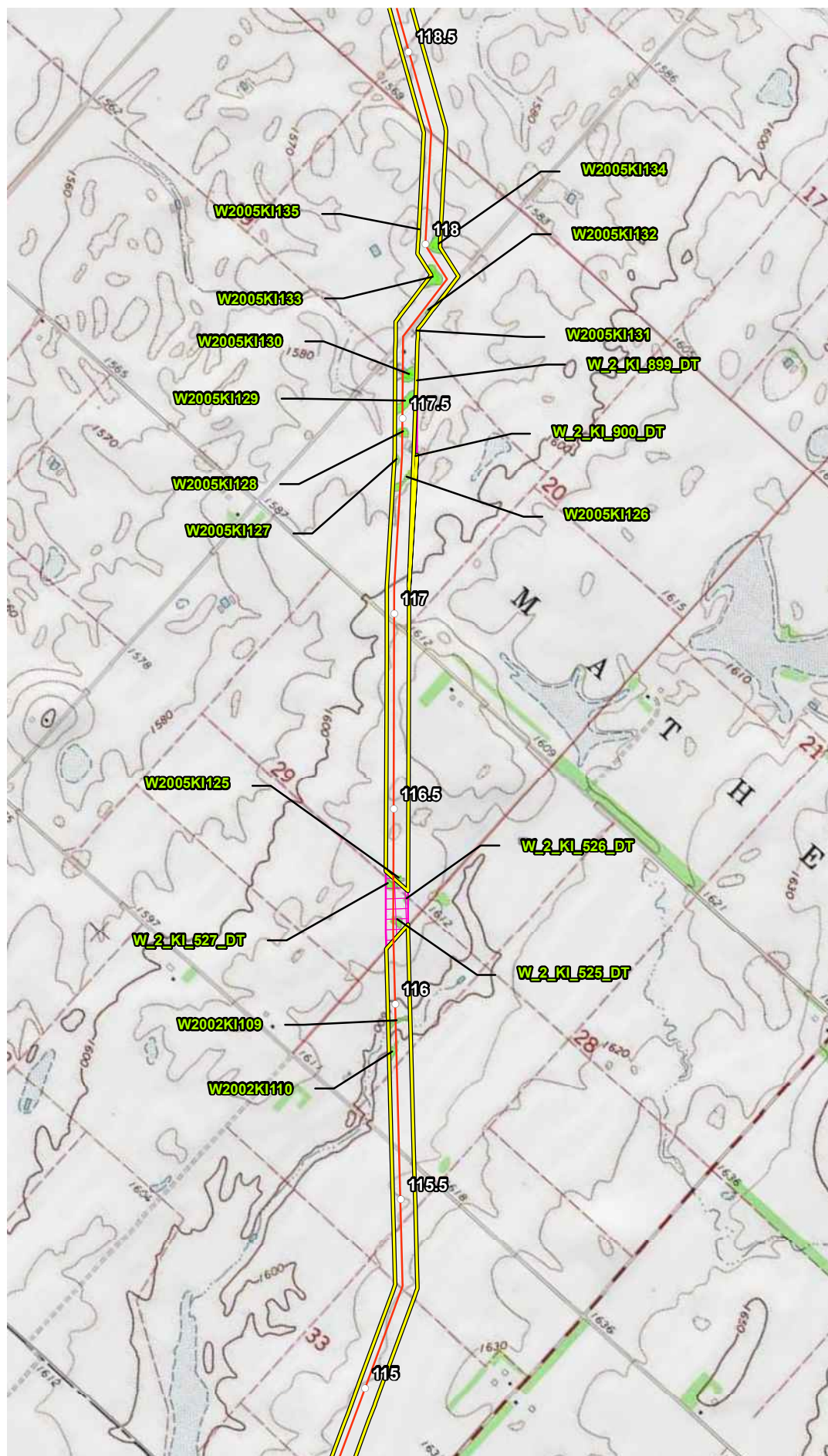
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Sheet:
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Sheet 23 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 1,000 2,000
Feet



REVISIONS

Date: 2021-12-15 Revised by: AB Checked by: AB

1A - Revision

Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

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3

Scale:
Scale: 1:24,000
1 inch = 2,000 feet

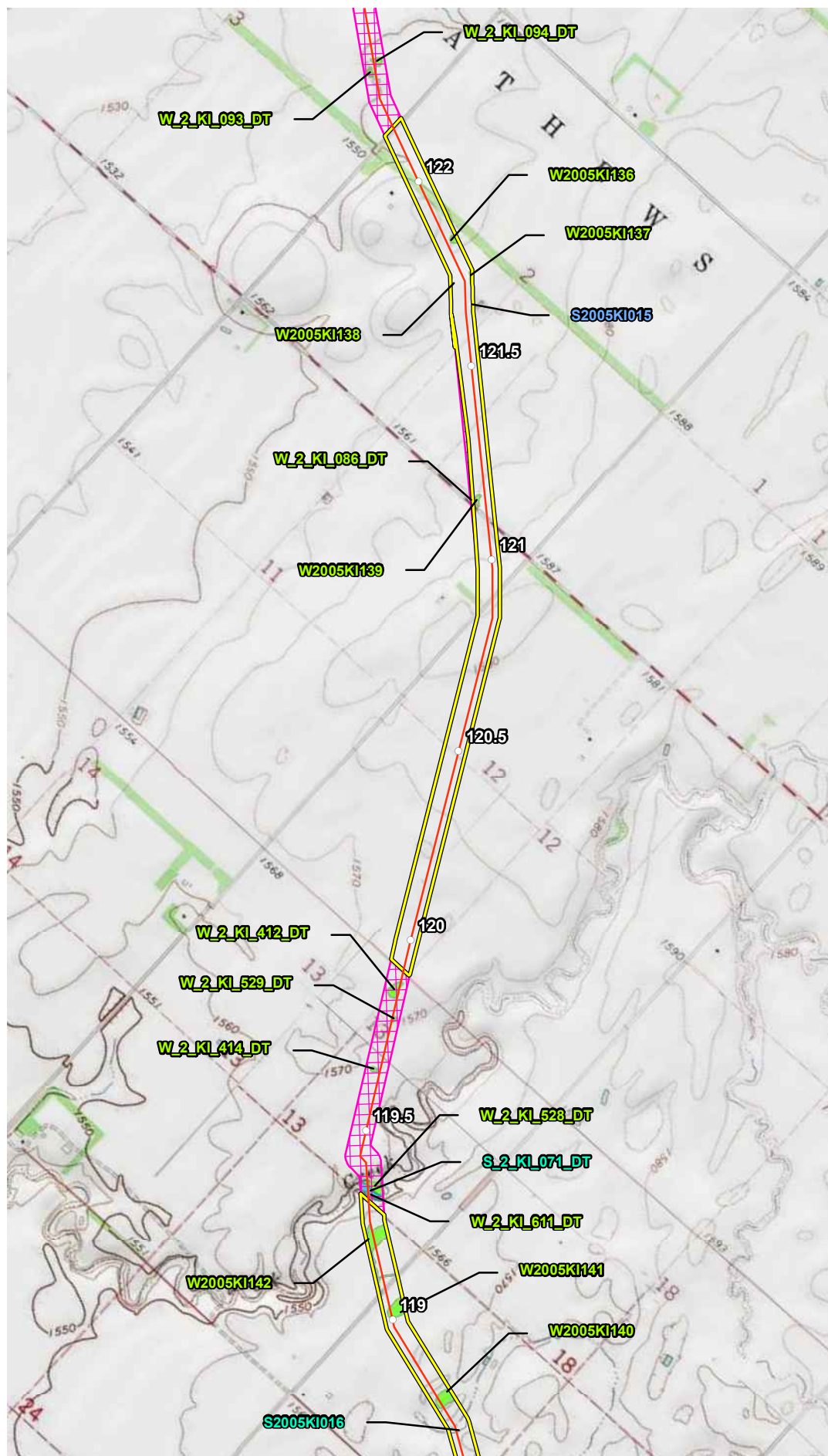
Projection:
UTM 14N m
NAD83

Sheet:
24

Sheet 24 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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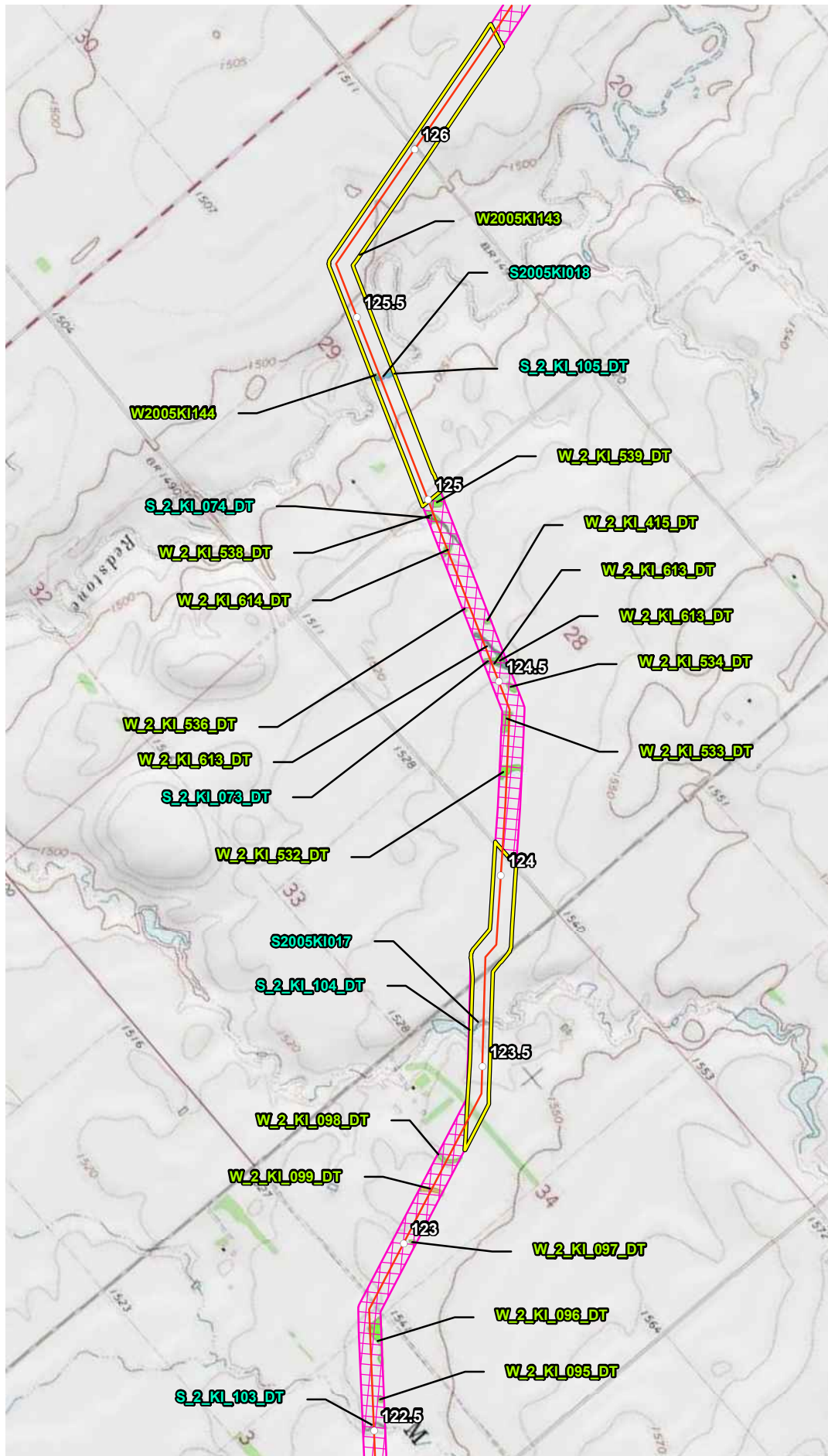
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1 inch = 2,000 feet

Projection:
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NAD83

Sheet:
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Sheet 25 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
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3

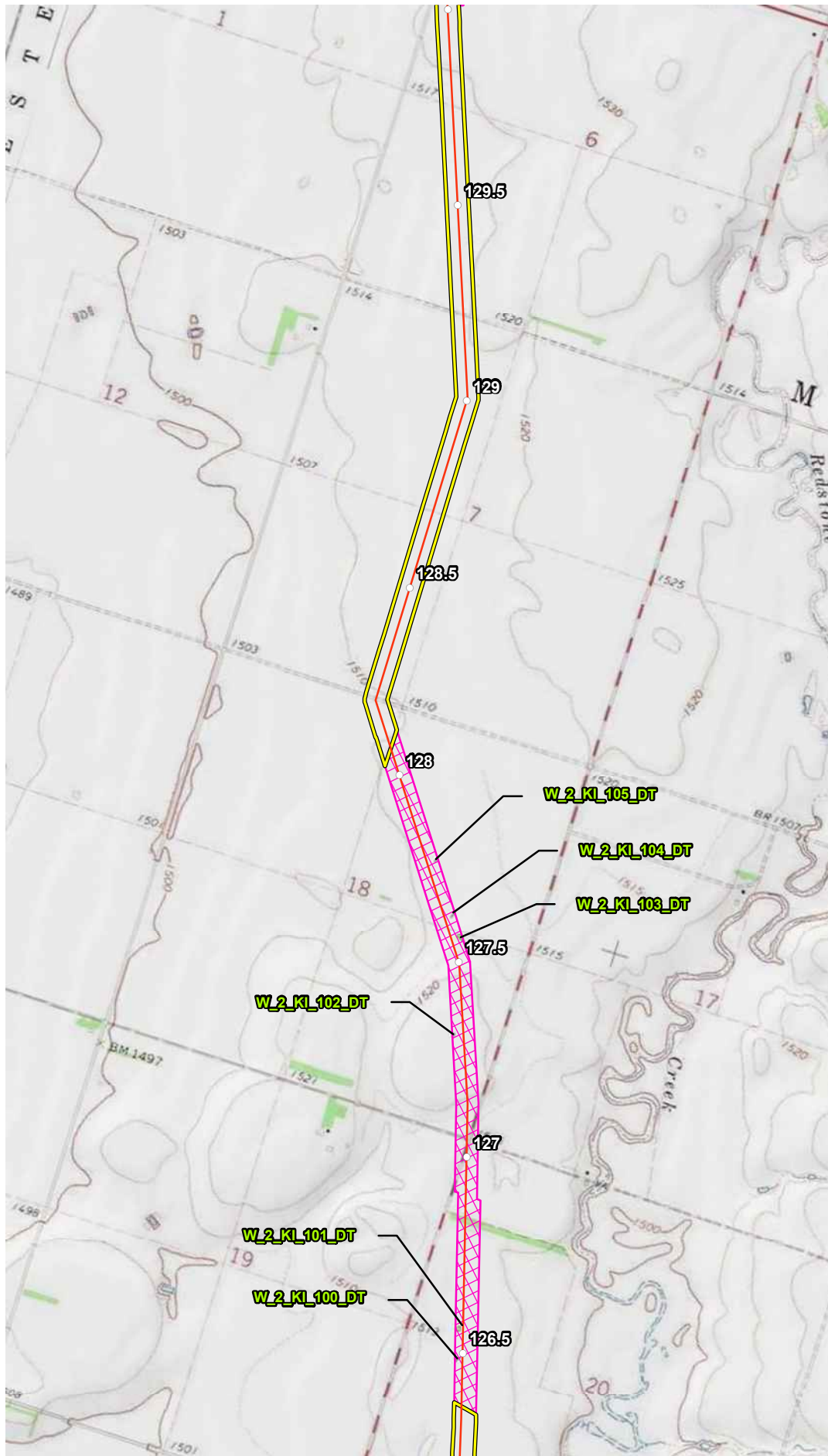
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1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Sheet:
26
Sheet 26 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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Scale:
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Projection:
UTM 14N m
NAD83

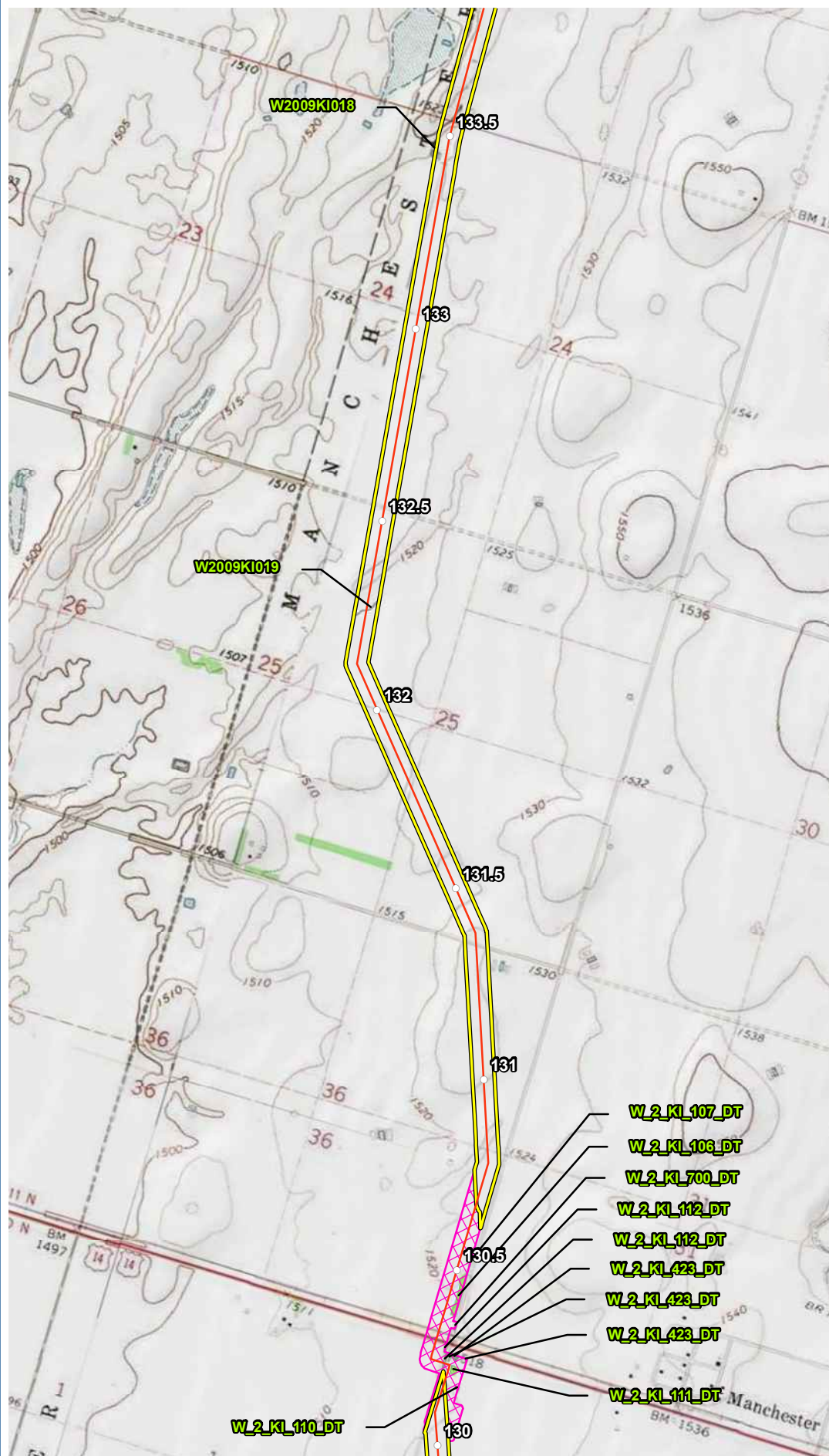
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Sheet 27 of 128

Drawing Number:
2001-22-003
Current Revision

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TOPOGRAPHIC MAP



VICINITY MAP



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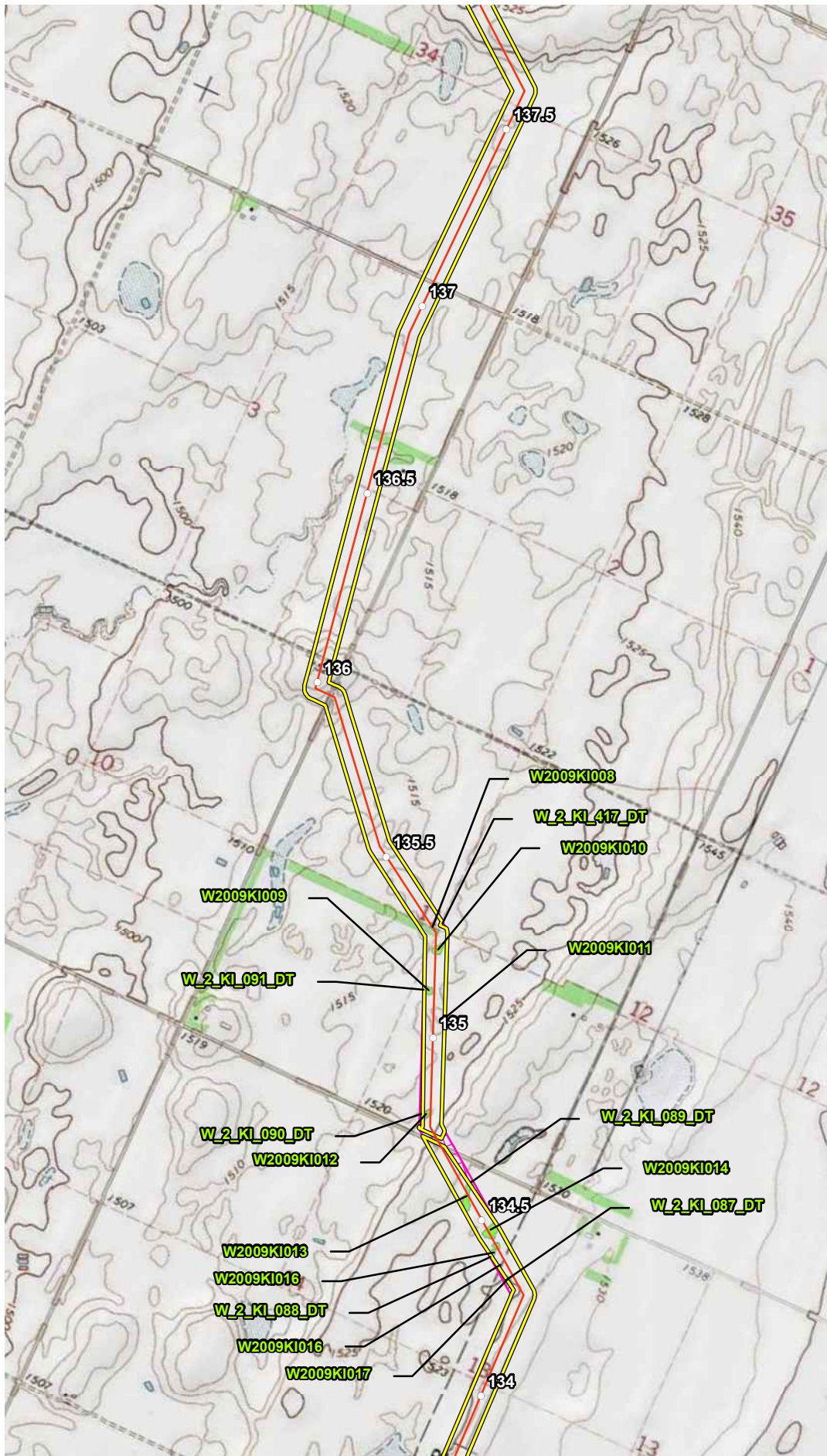
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Sheet 28 of 128

Drawing Number:
2001-22-003
Current Revision

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TOPOGRAPHIC MAP



VICINITY MAP



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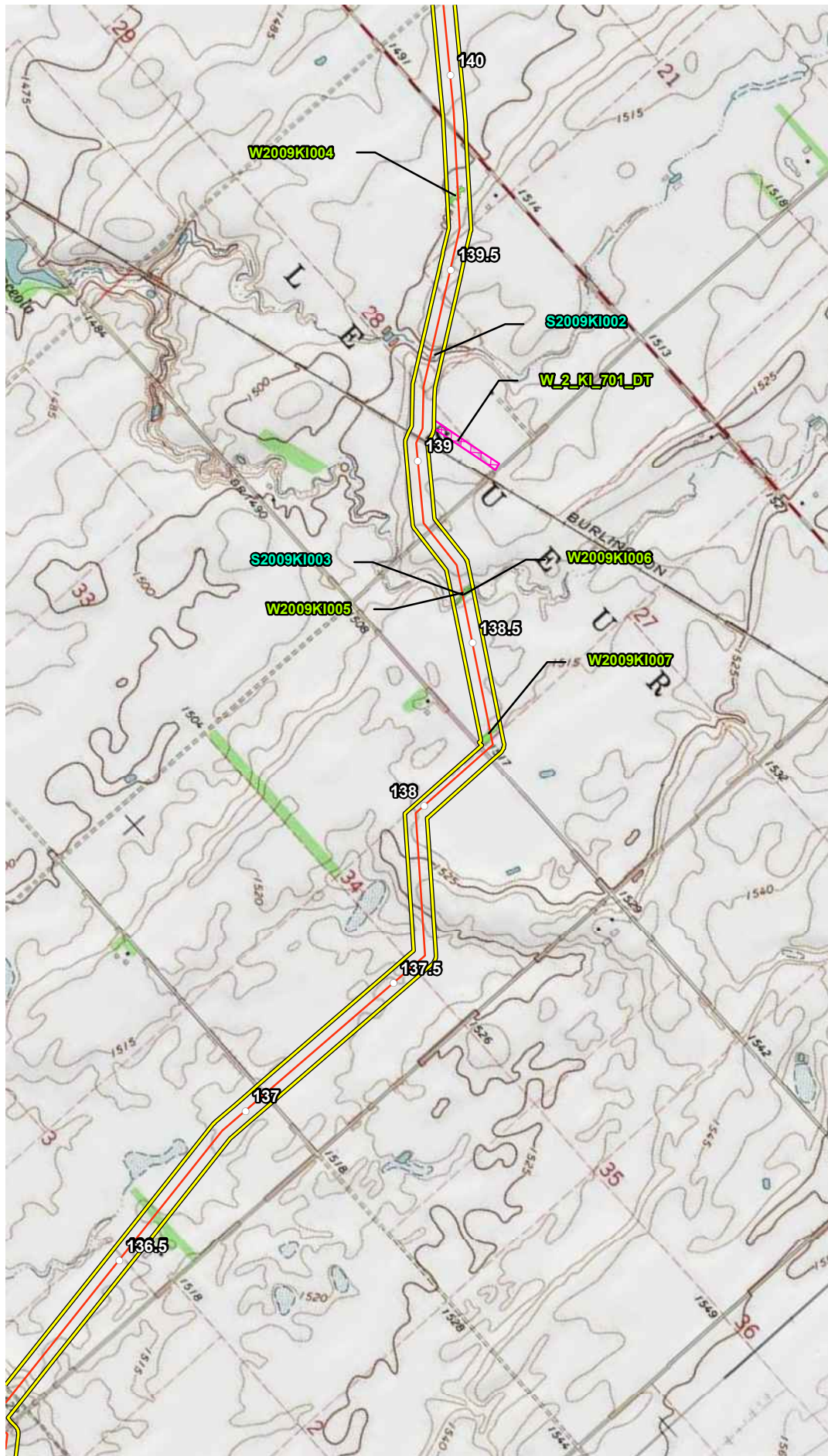
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1 inch = 2,000 feet

Projection:
UTM 14N m
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Sheet:
29

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000 Feet



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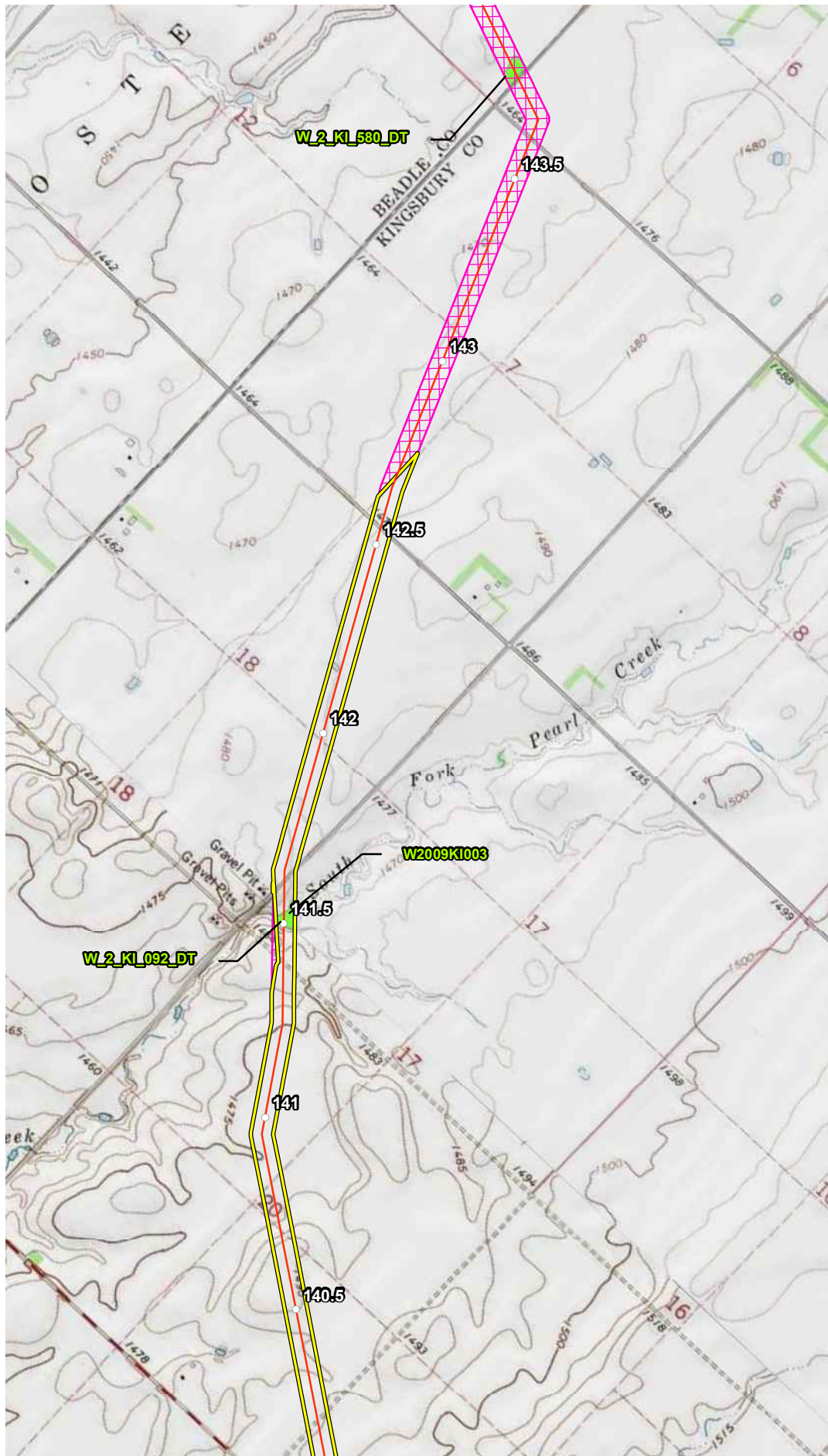
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 1 inch = 2,000 feet

Projection:
 UTM 14N m
 NAD83

Sheet:
 30
 Sheet 30 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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3

Scale:

Scale: 1:24,000

1 inch = 2,000 feet

Projection:

UTM 14N m

NAD83

Sheet:

31

Sheet 31 of 128

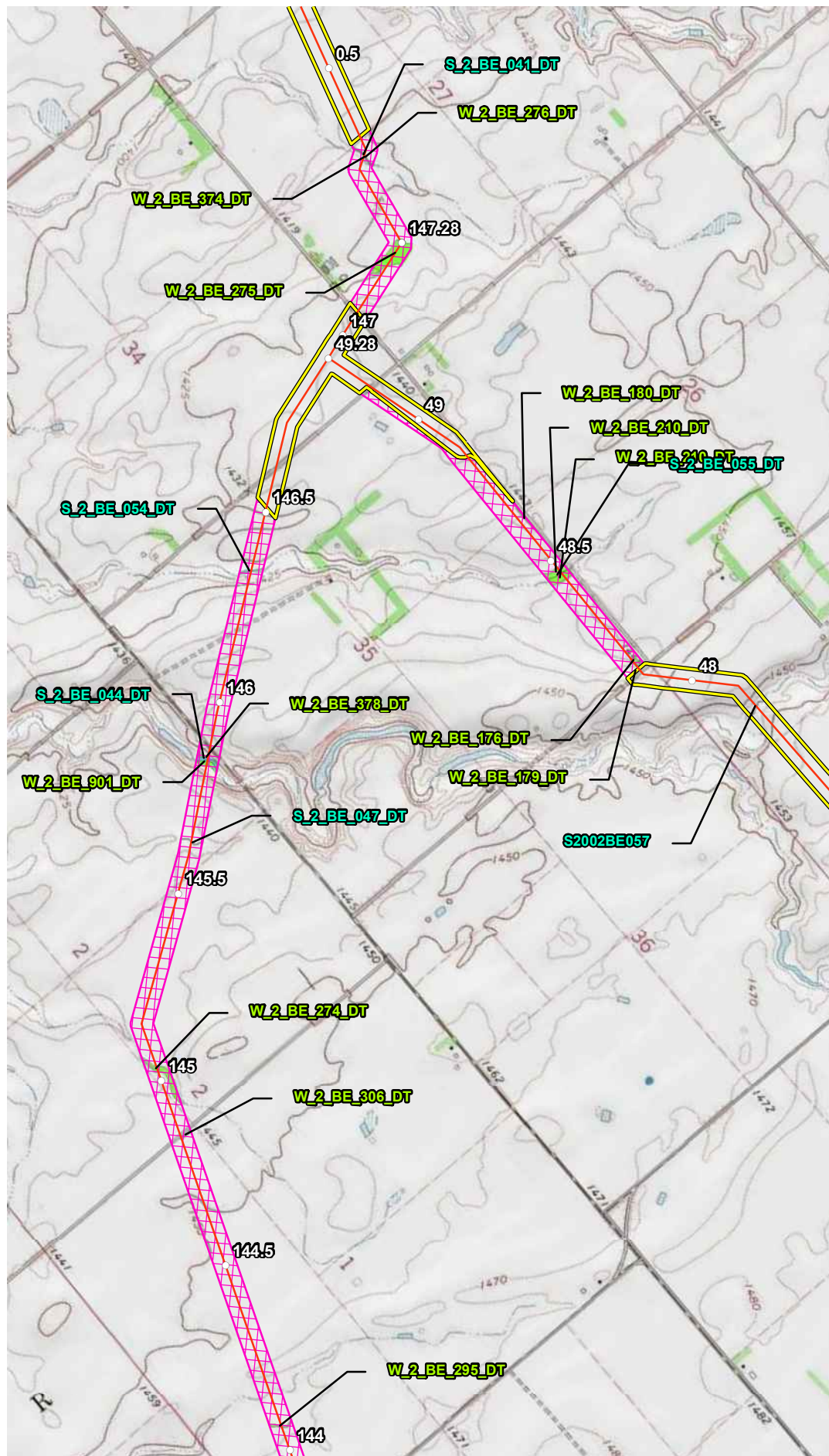
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VICINITY MAP



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Scale:

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Projection:

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NAD83

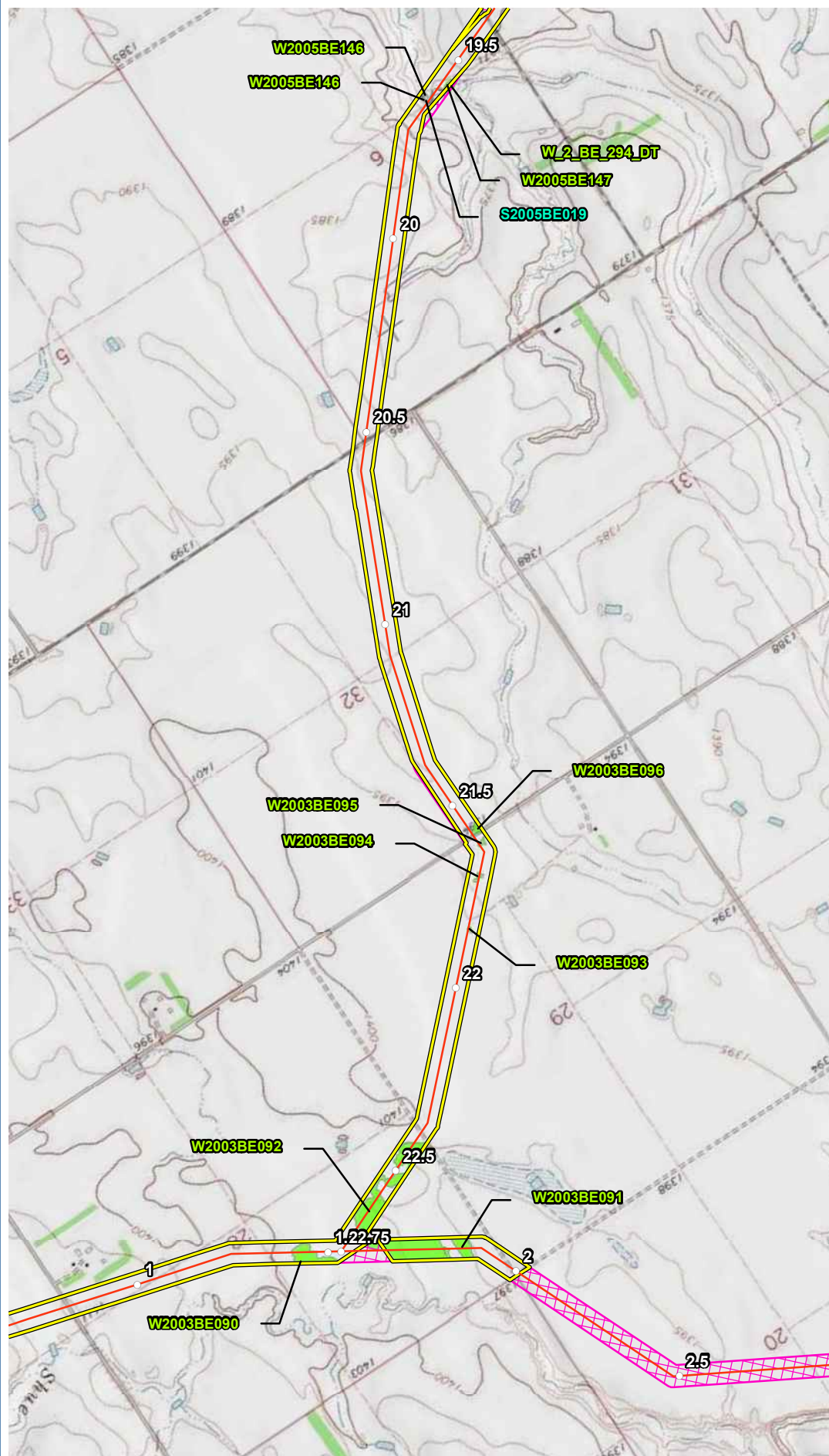
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Drawing Number:

2001-22-003
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TOPOGRAPHIC MAP

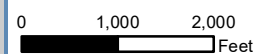


VICINITY MAP



LEGEND

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Figure Number:

3

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Projection:
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NAD83

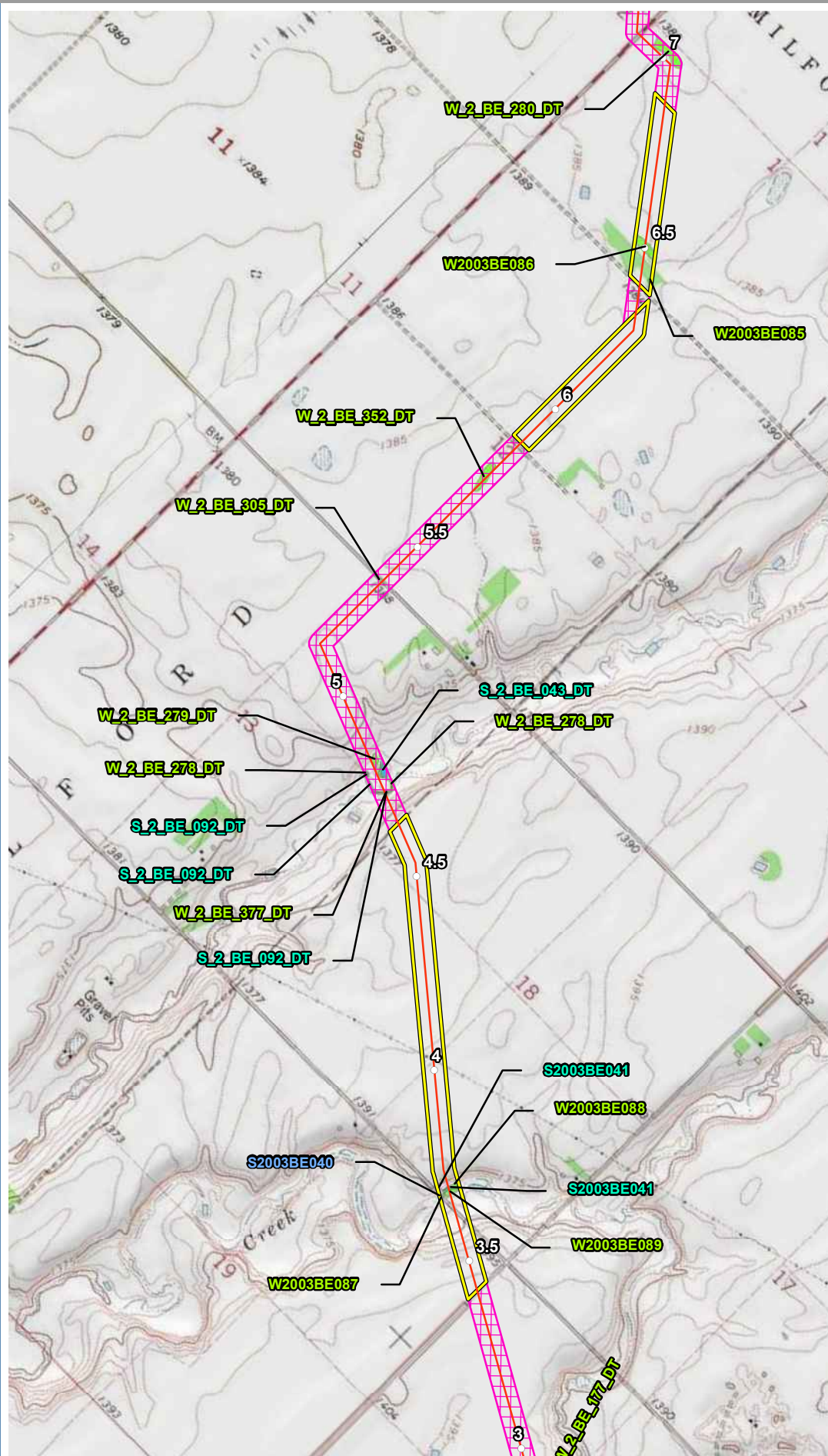
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Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP

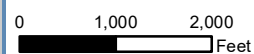


VICINITY MAP



LEGEND

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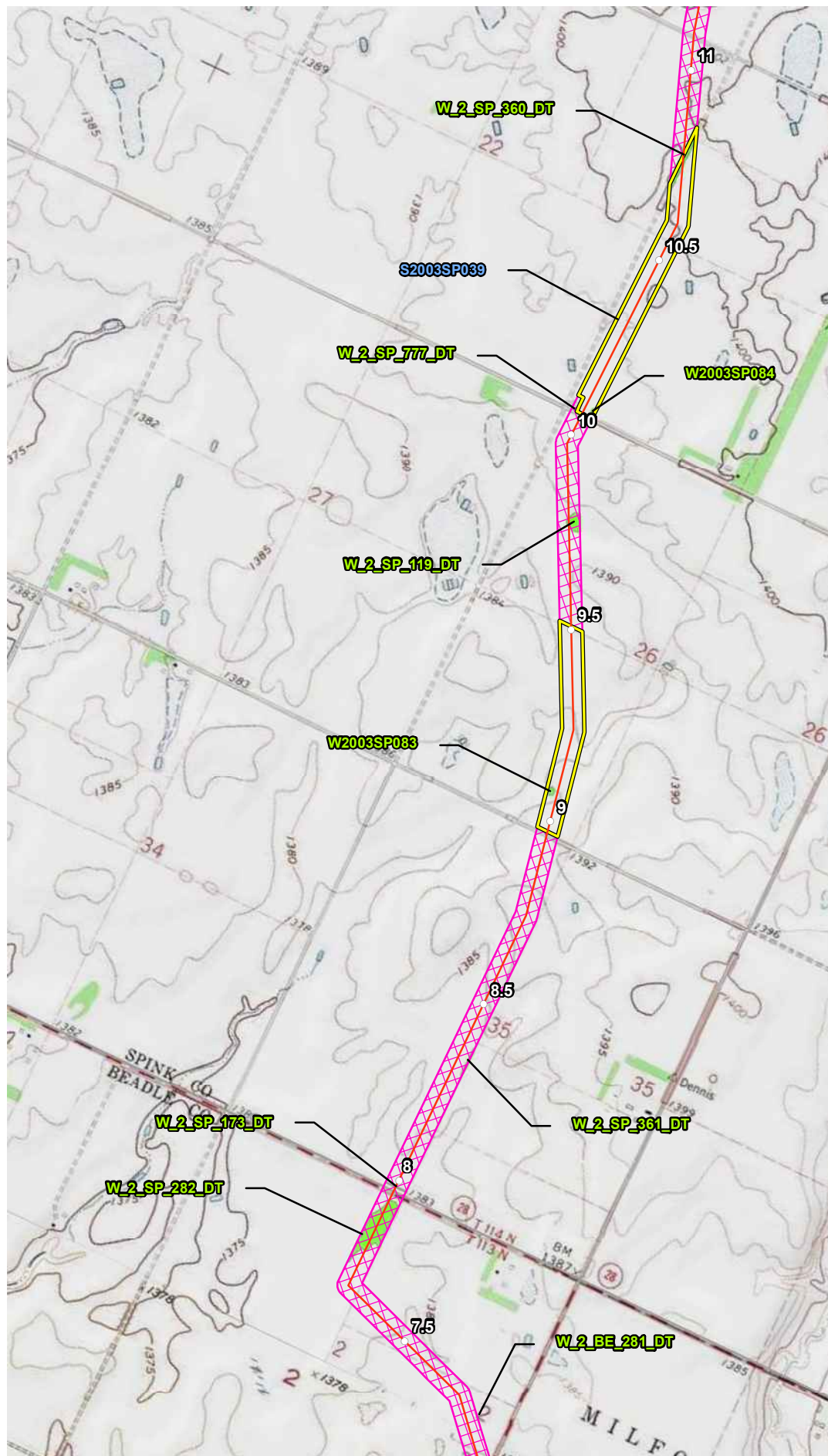
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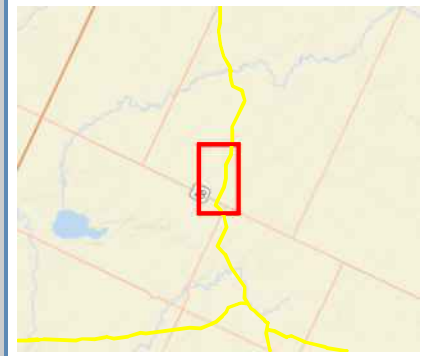
Sheet:
34
Sheet 34 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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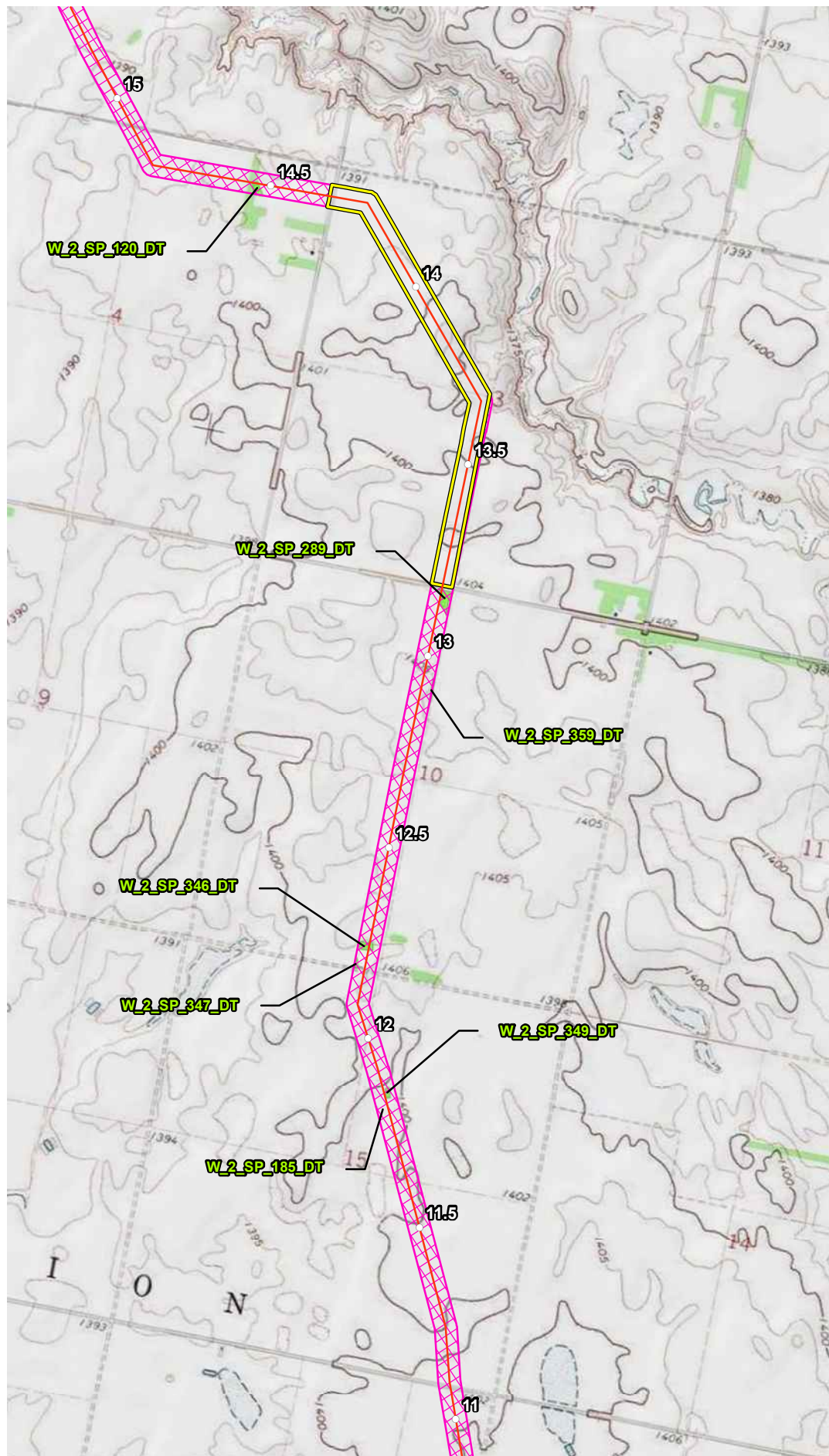
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Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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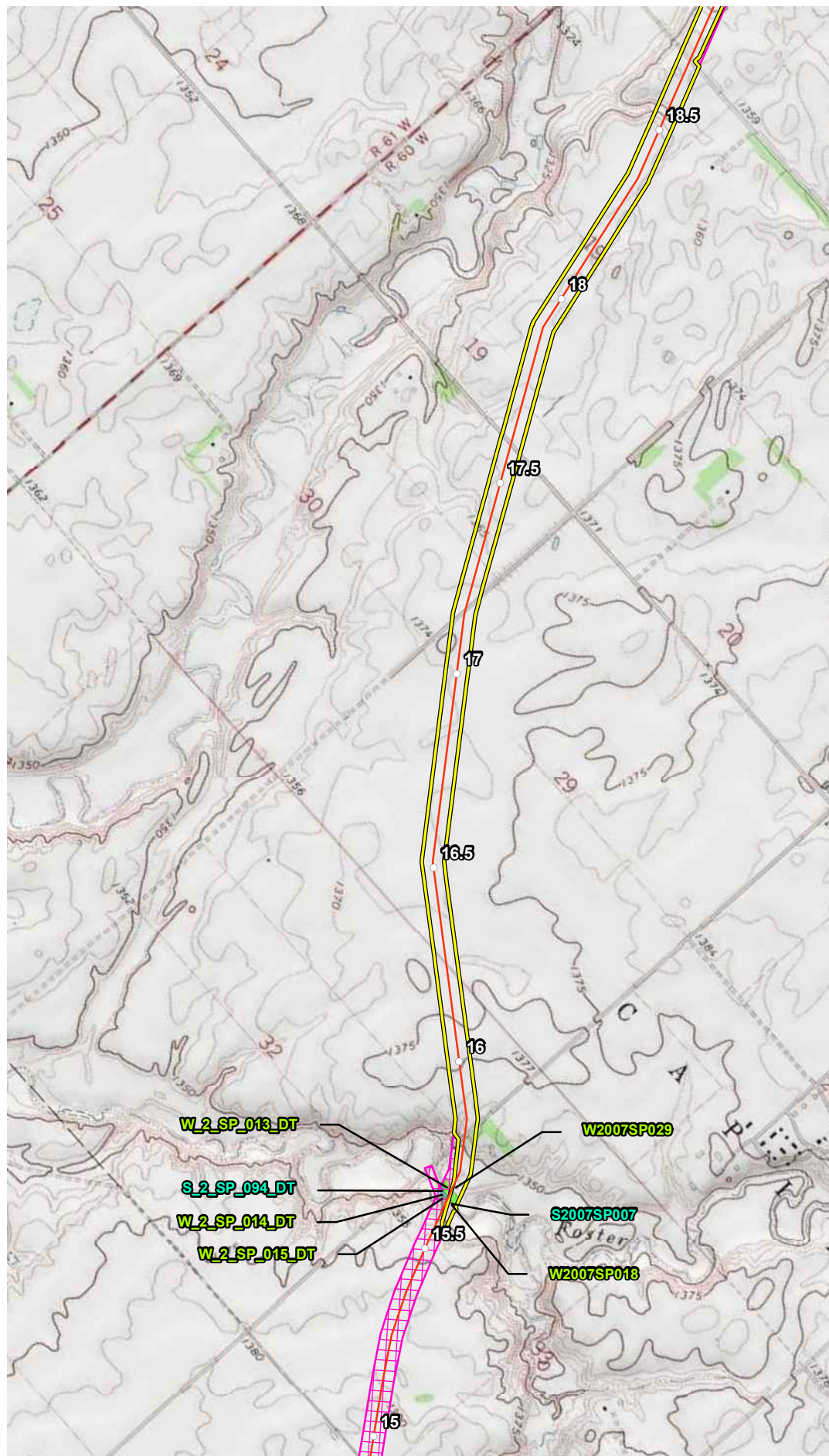
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Drawing Number:

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TOPOGRAPHIC MAP



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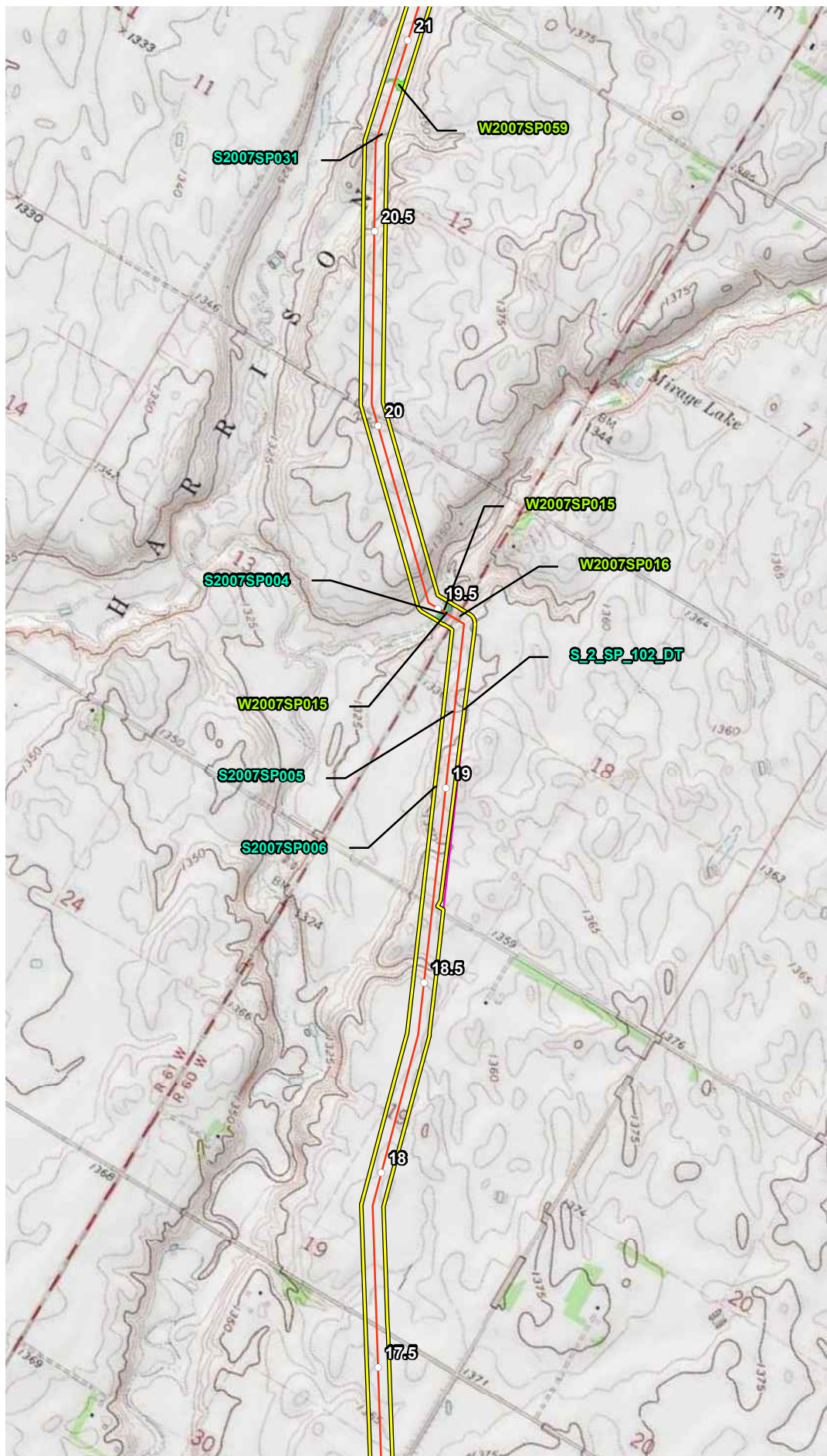
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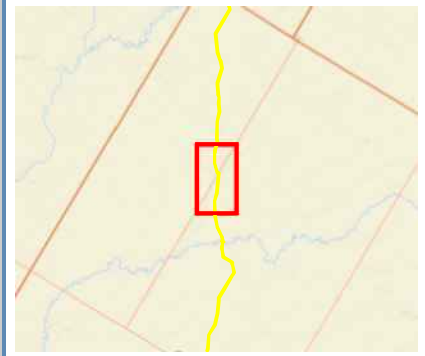
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Scale:

Scale: 1:24,000
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Projection:

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NAD83

Sheet:

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Drawing Number:

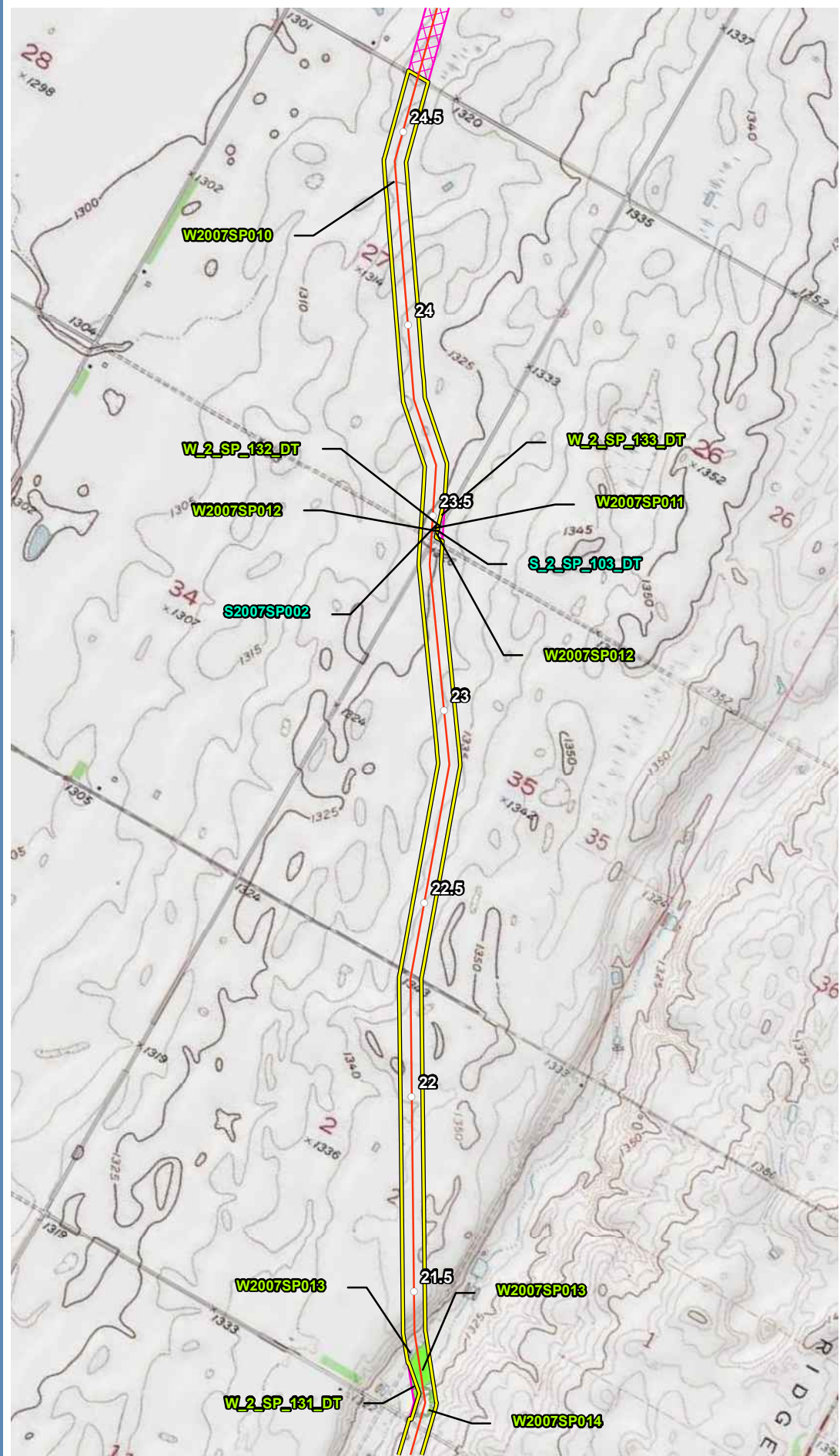
2001-22-003

Sheet 38 of 128

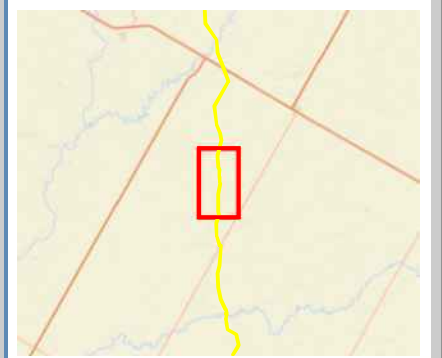
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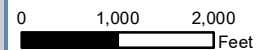


VICINITY MAP



LEGEND

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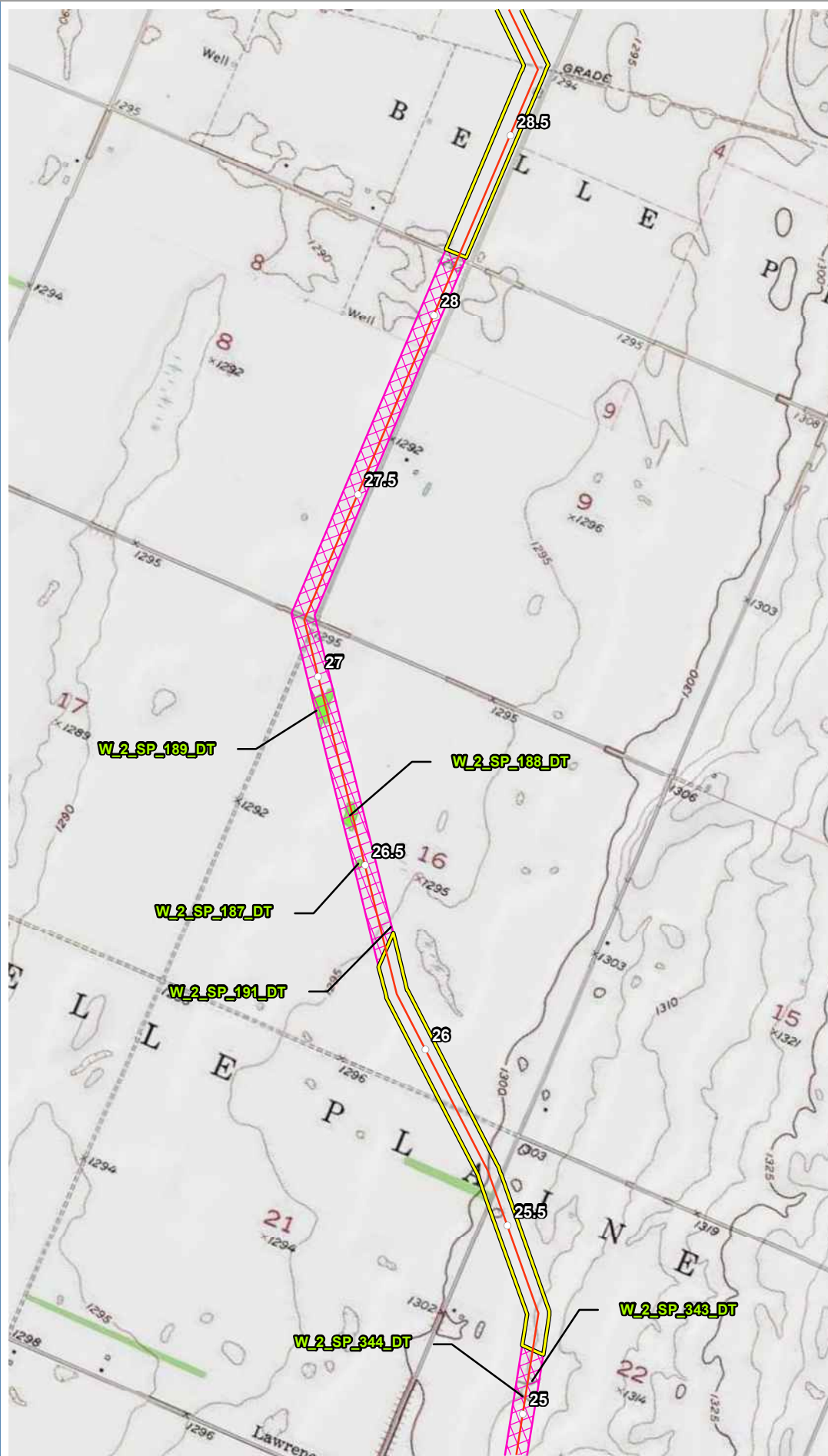
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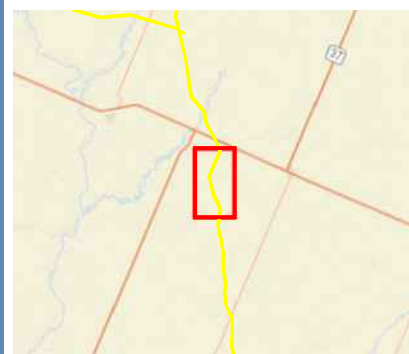
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 1,000 2,000
Feet



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Date: 2021-12-15 Revised by: AB Checked by: AB

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Revision description

Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

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Revision description

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Figure Number:

3

Scale:
Scale: 1:24,000
1 inch = 2,000 feet

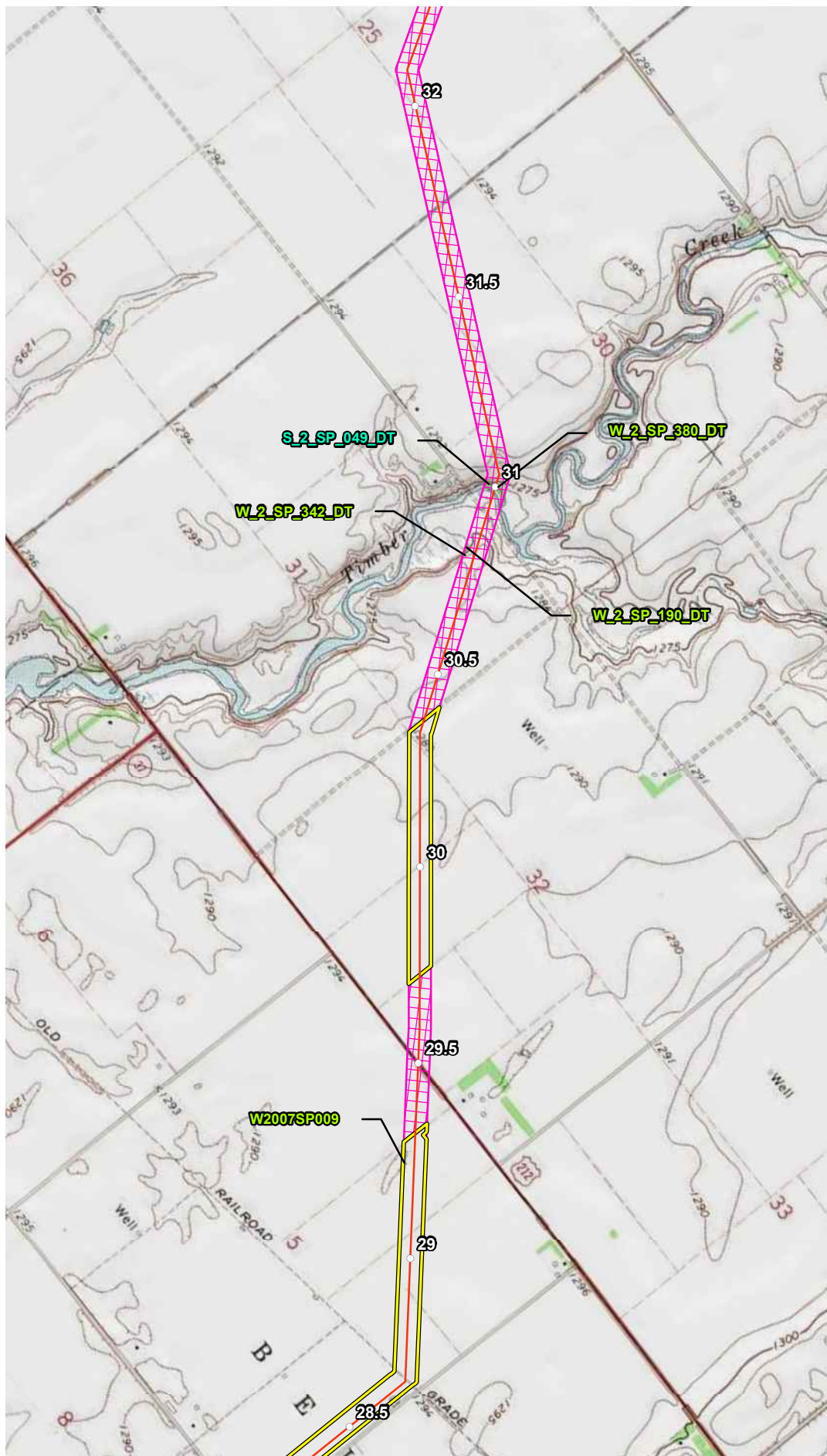
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NAD83

Sheet:
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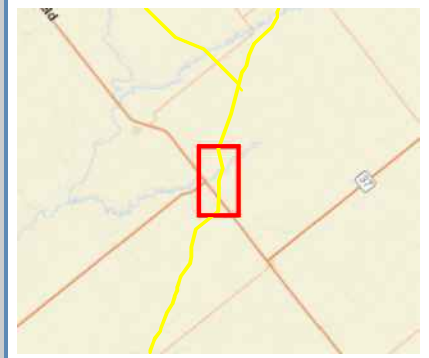
Sheet 40 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
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0 1,000 2,000 Feet



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Scale:
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1 inch = 2,000 feet

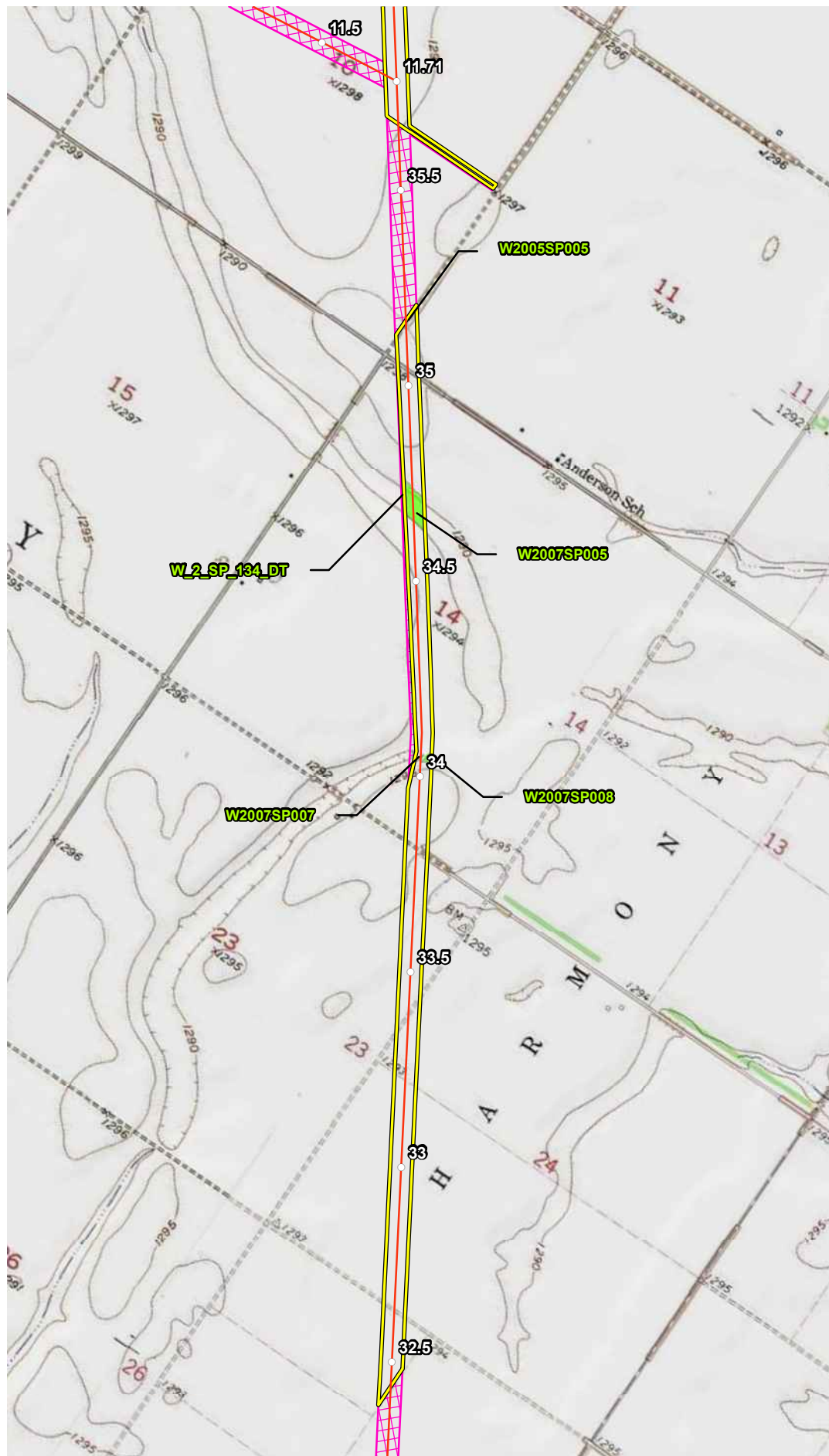
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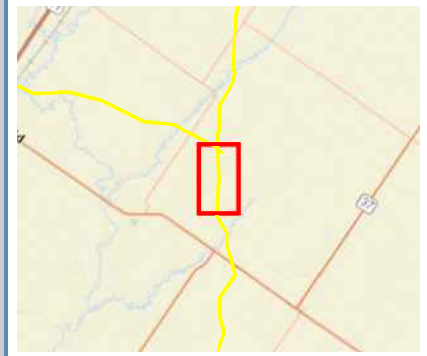
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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3

Scale:
Scale: 1:24,000
1 inch = 2,000 feet

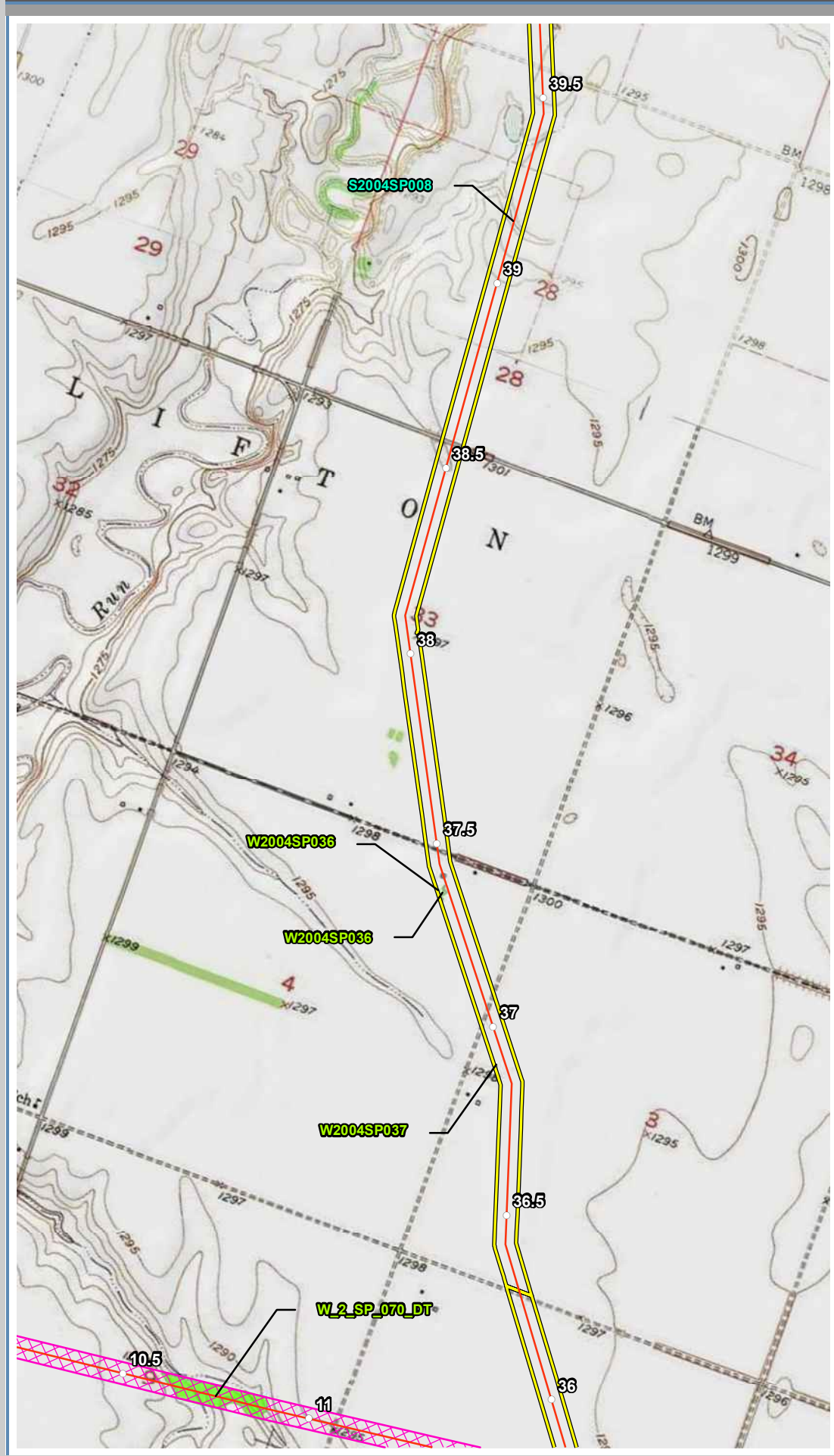
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Sheet 42 of 128

Drawing Number:
2001-22-003
Current Revision












TOPOGRAPHIC MAP




VICINITY MAP



LEGEND

-  Milepost
 -  Active Route
 -  Desktop Review Area
 -  Environmental Survey Area
 -  Stream
 -  Open Water
 -  PEM Wetland
 -  PFO Wetland
 -  PSS Wetland
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 -  State Boundary
- 0 1,000 2,000 Feet



0 1,000 2,000 Feet



REVISIONS

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1A - Revision	Revision description
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Date: YYYY-MM-DD Revised by: TBD Checked by: TBD

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Scale:
Scale: 1:24,000
1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Projection:
UTM 14N m
NAD83

Sheet:	Drawing Number:
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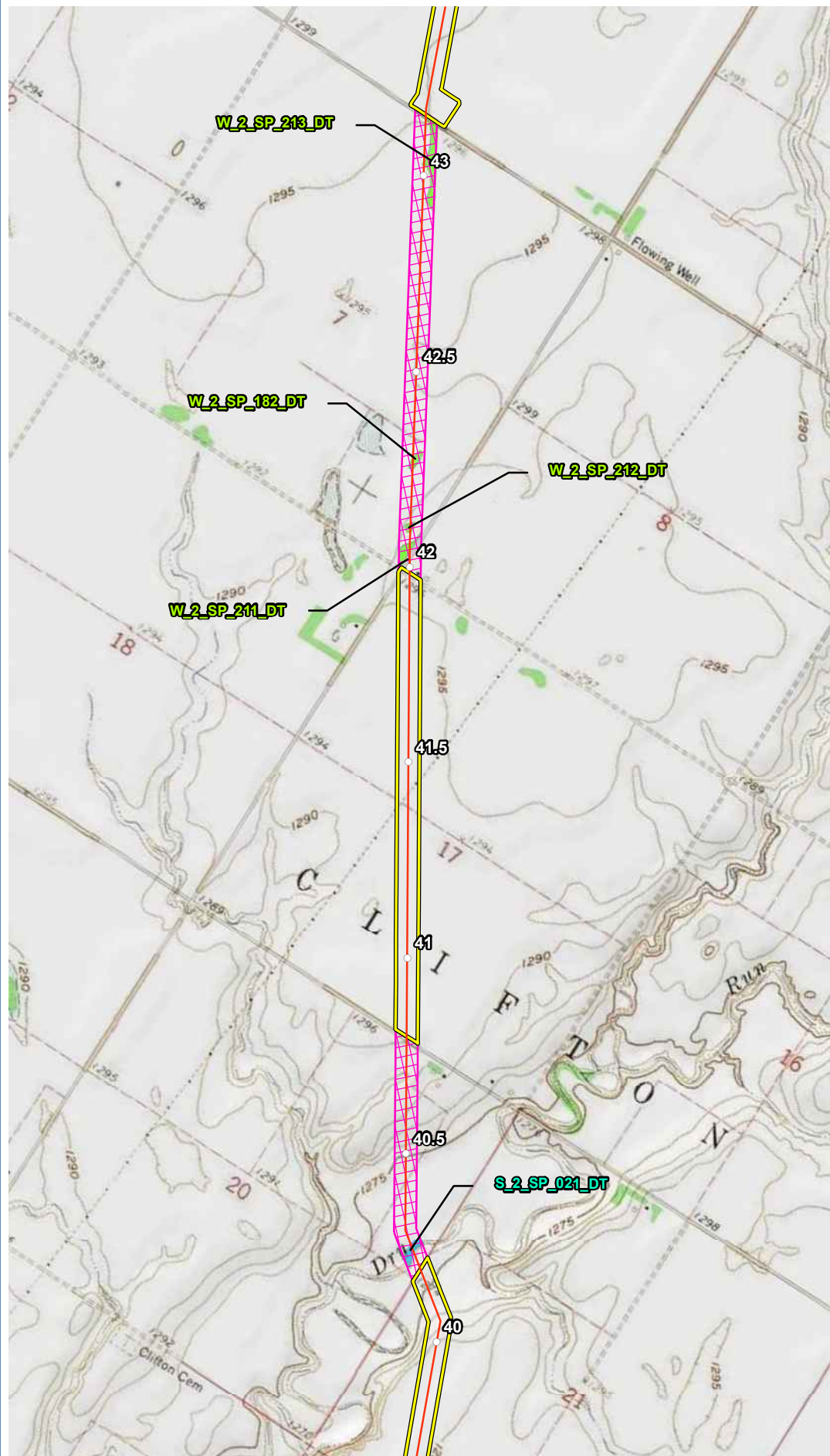
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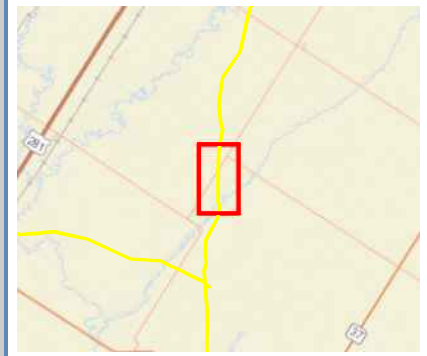
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TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000
Feet



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Scale:

Scale: 1:24,000
1 inch = 2,000 feet

Projection:

UTM 14N m
NAD83

Sheet:

44

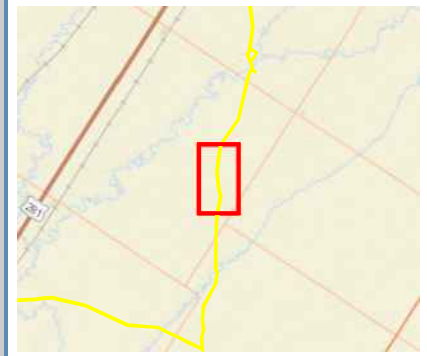
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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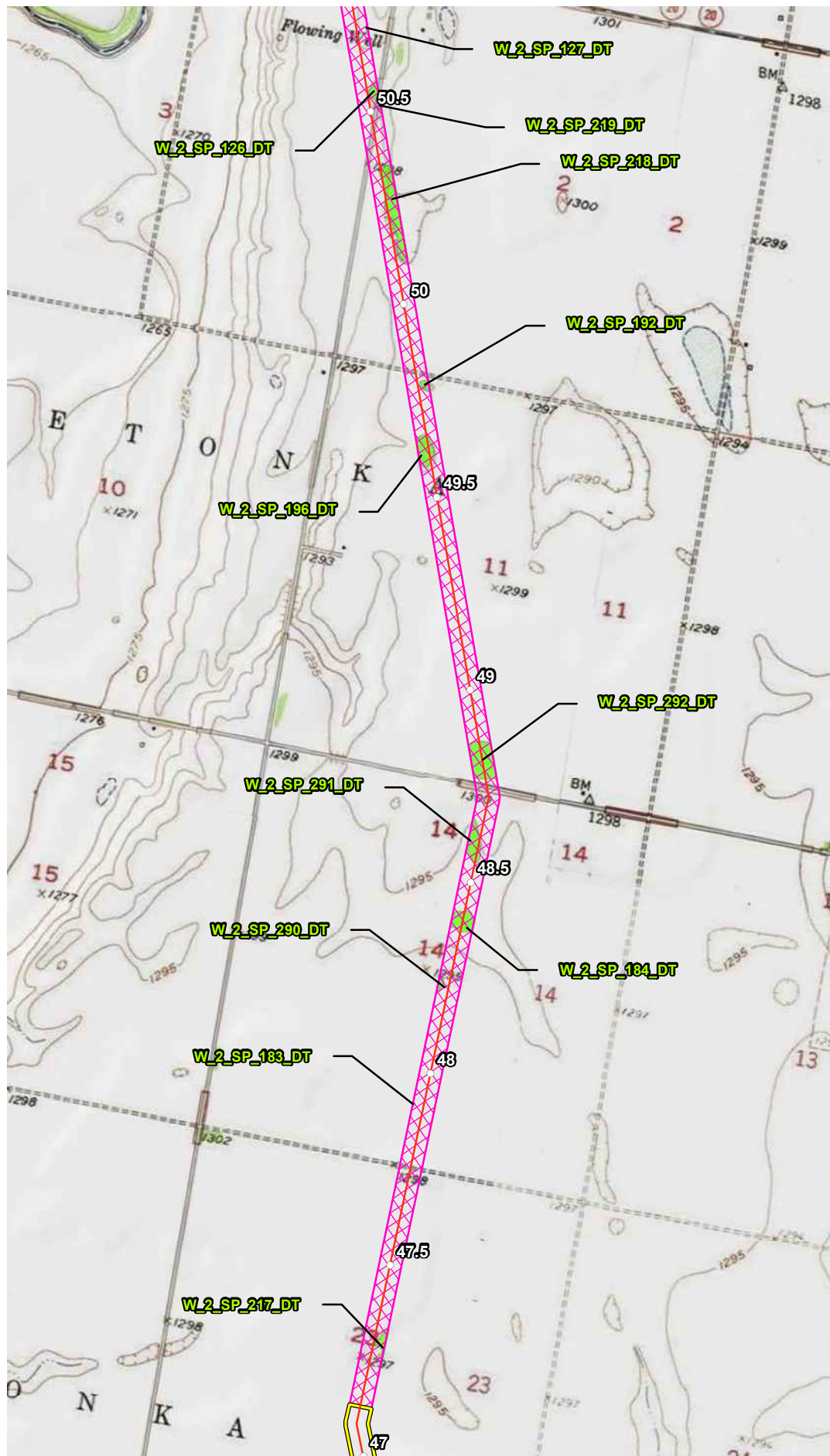
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1 inch = 2,000 feet

Projection:
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NAD83

Sheet:
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Sheet 45 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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Scale:

Scale: 1:24,000
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Projection:

UTM 14N m
NAD83

Sheet:

46

Drawing Number:

2001-22-003

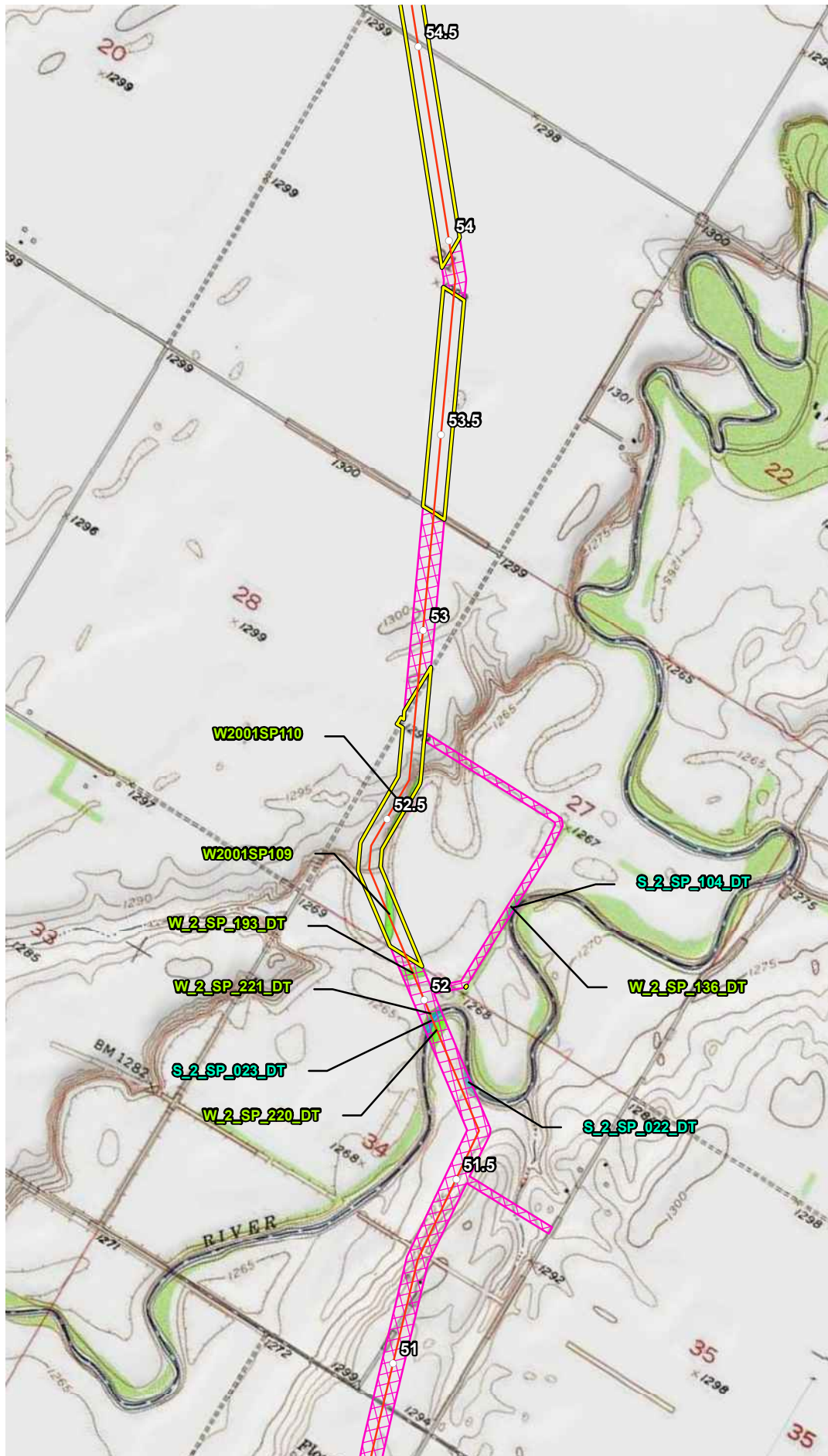
Sheet 46 of 128

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File Path

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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3

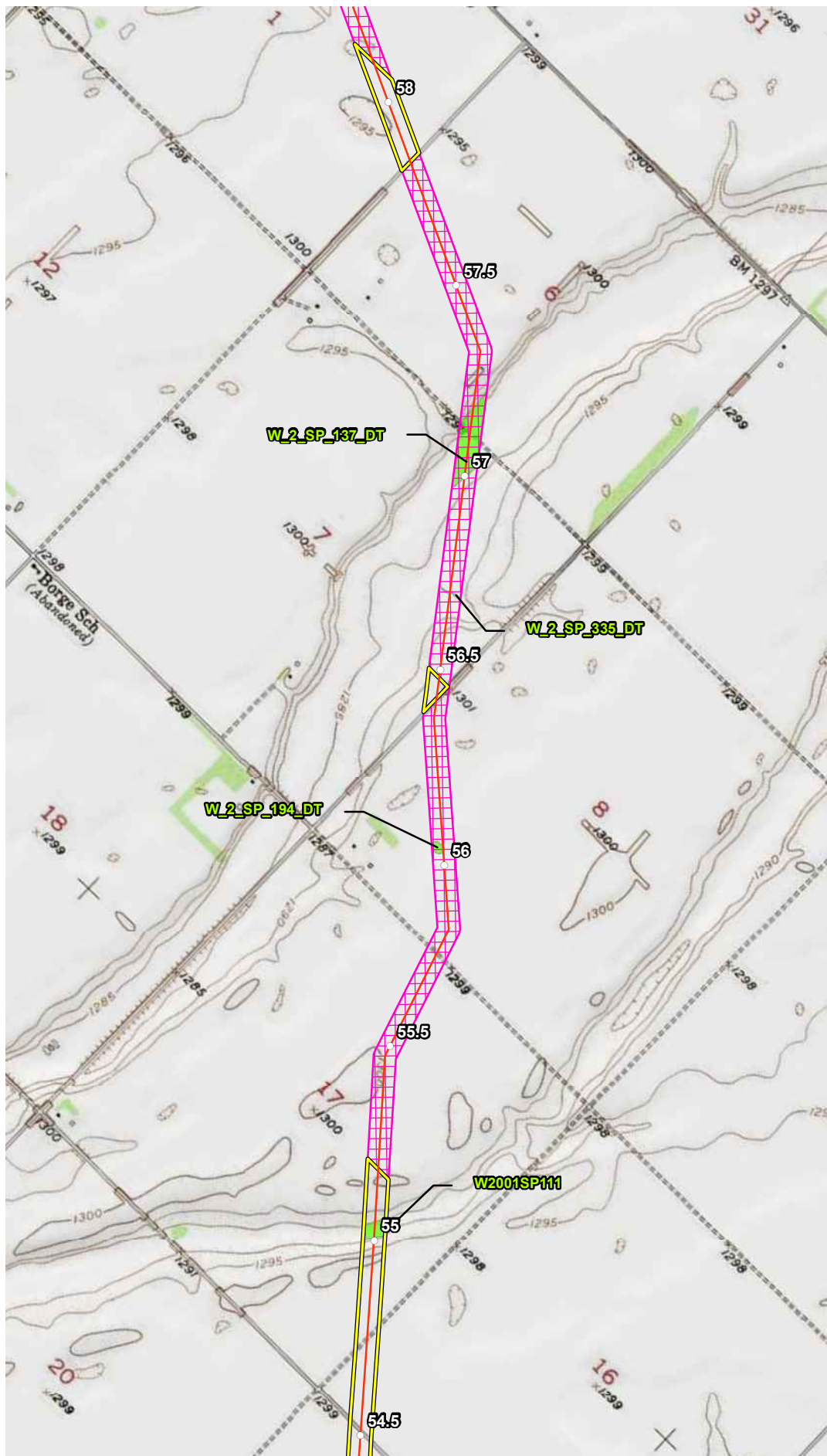
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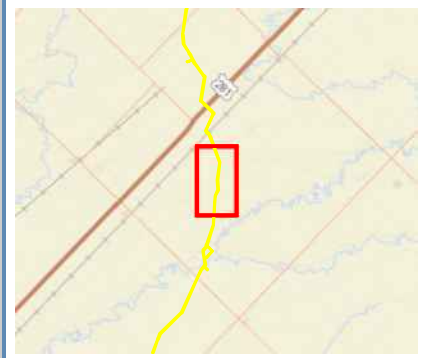
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Sheet 47 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
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0 1,000 2,000 Feet



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Projection:
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 NAD83

Sheet:
 48

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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- State Boundary

0 1,000 2,000 Feet



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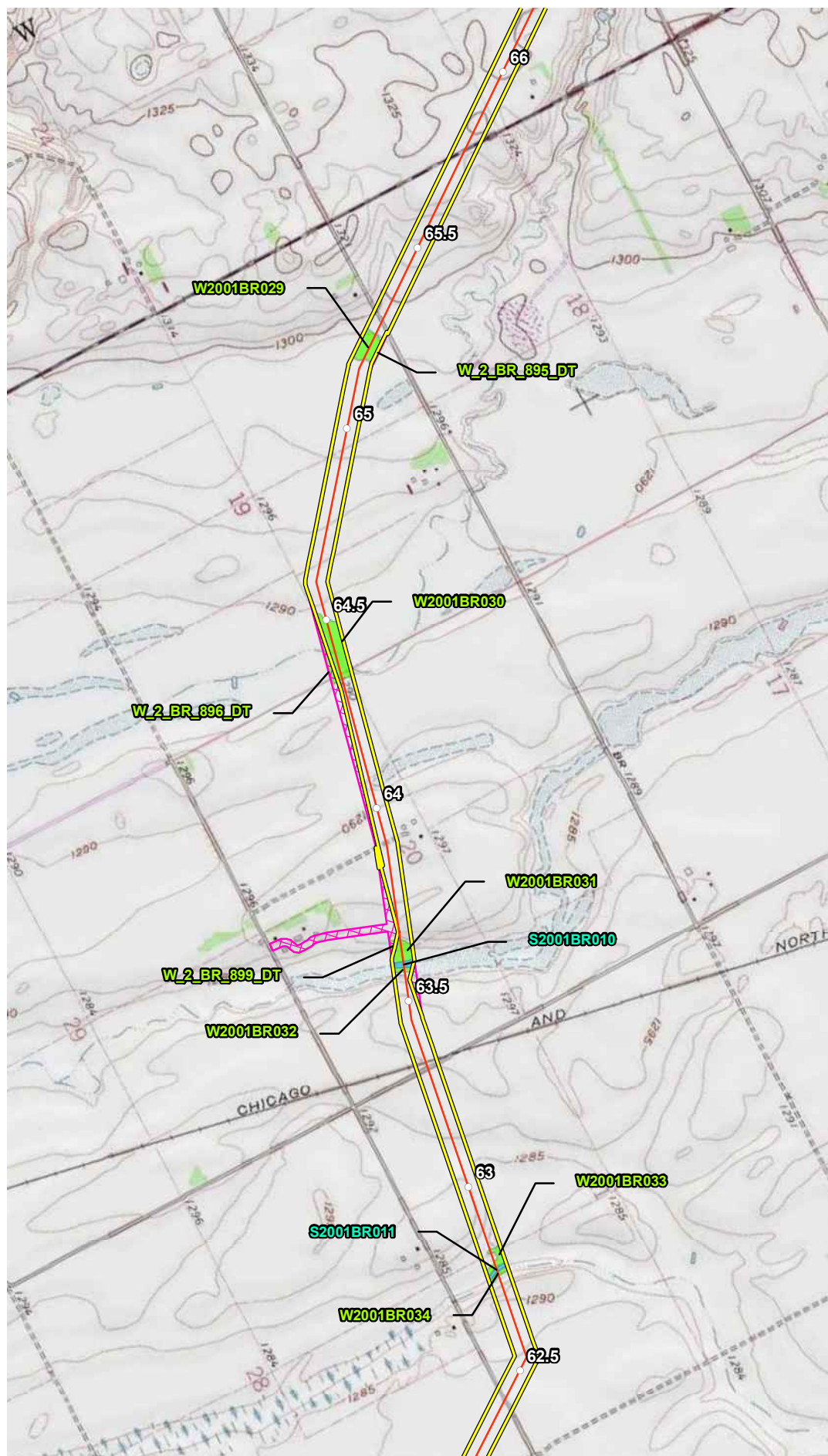
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NAD83

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Drawing Number:
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Current Revision

TOPOGRAPHIC MAP

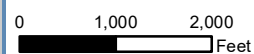


VICINITY MAP



LEGEND

- Milepost
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3

Scale:
Scale: 1:24,000
1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

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50
Sheet 50 of 128

Drawing Number:

2001-22-003
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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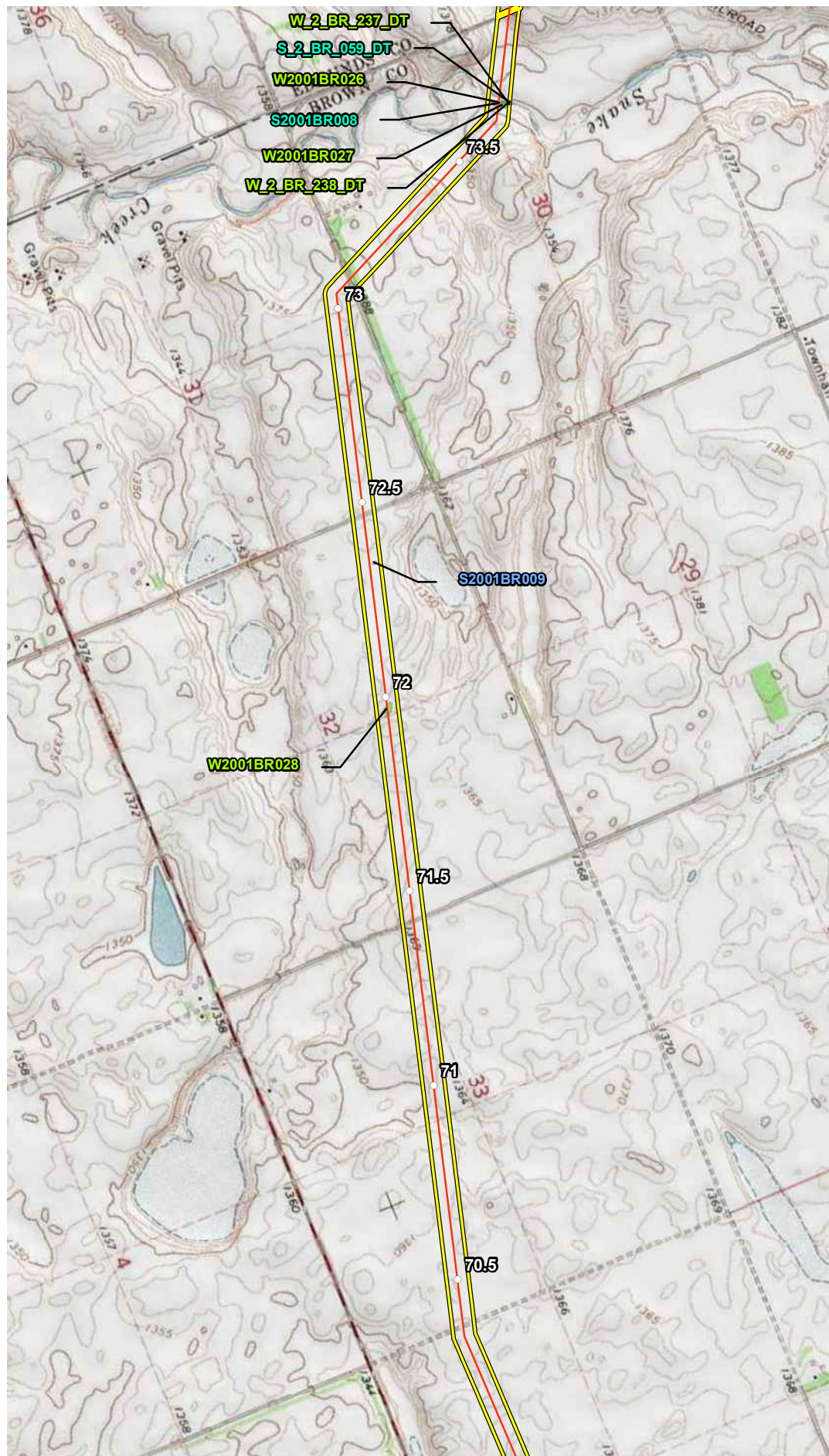
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 1 inch = 2,000 feet

Projection:
 UTM 14N m
 NAD83

Sheet:
 51
 Sheet 51 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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Scale:
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1 inch = 2,000 feet

Projection:
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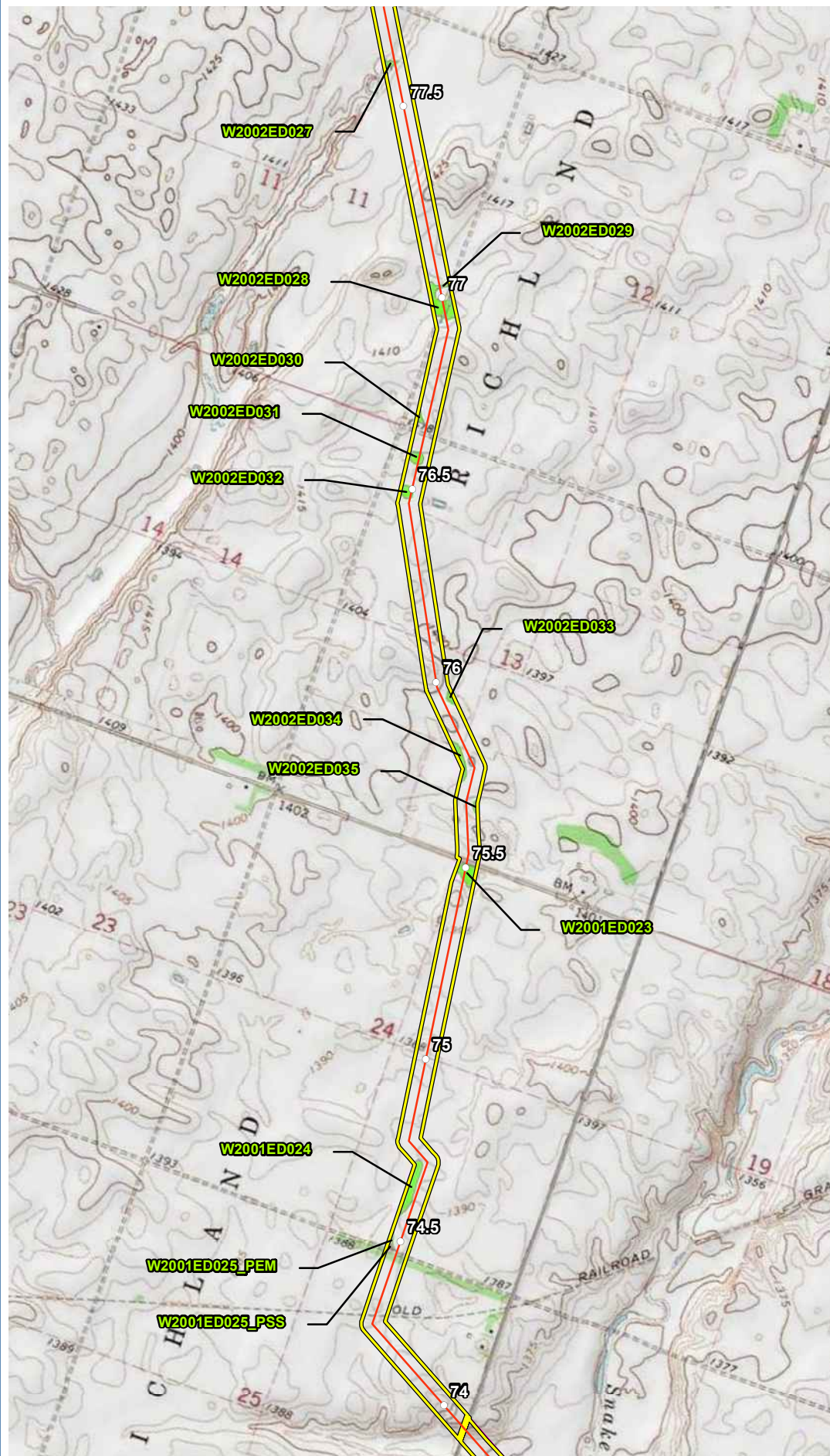
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Sheet 52 of 128

Drawing Number:
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TOPOGRAPHIC MAP



VICINITY MAP



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Feet



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Figure Number:

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Scale:

Scale: 1:24,000
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Projection:

UTM 14N m
NAD83

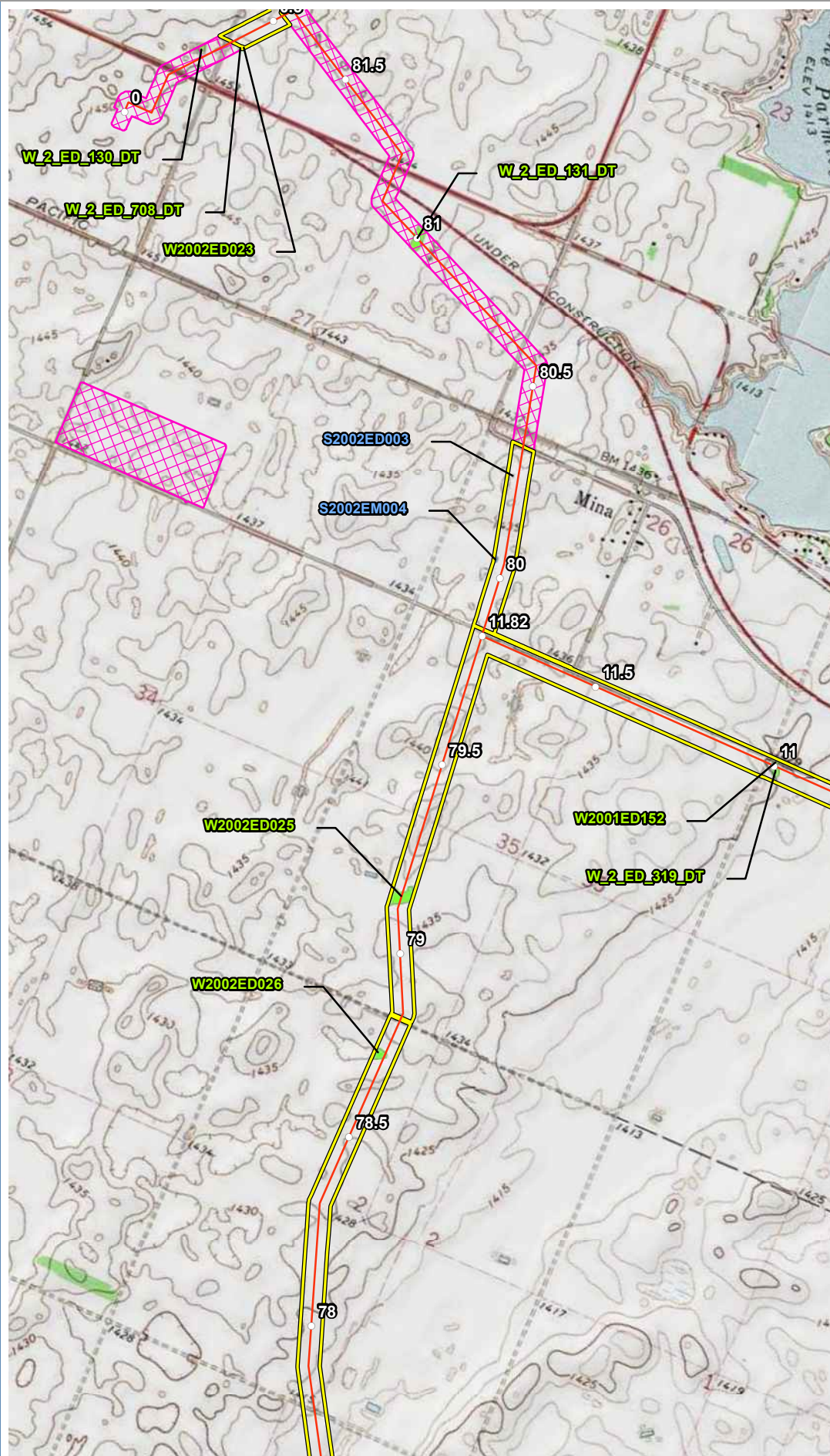
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Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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Figure Number:

3

Scale:
Scale: 1:24,000
1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Sheet:

54

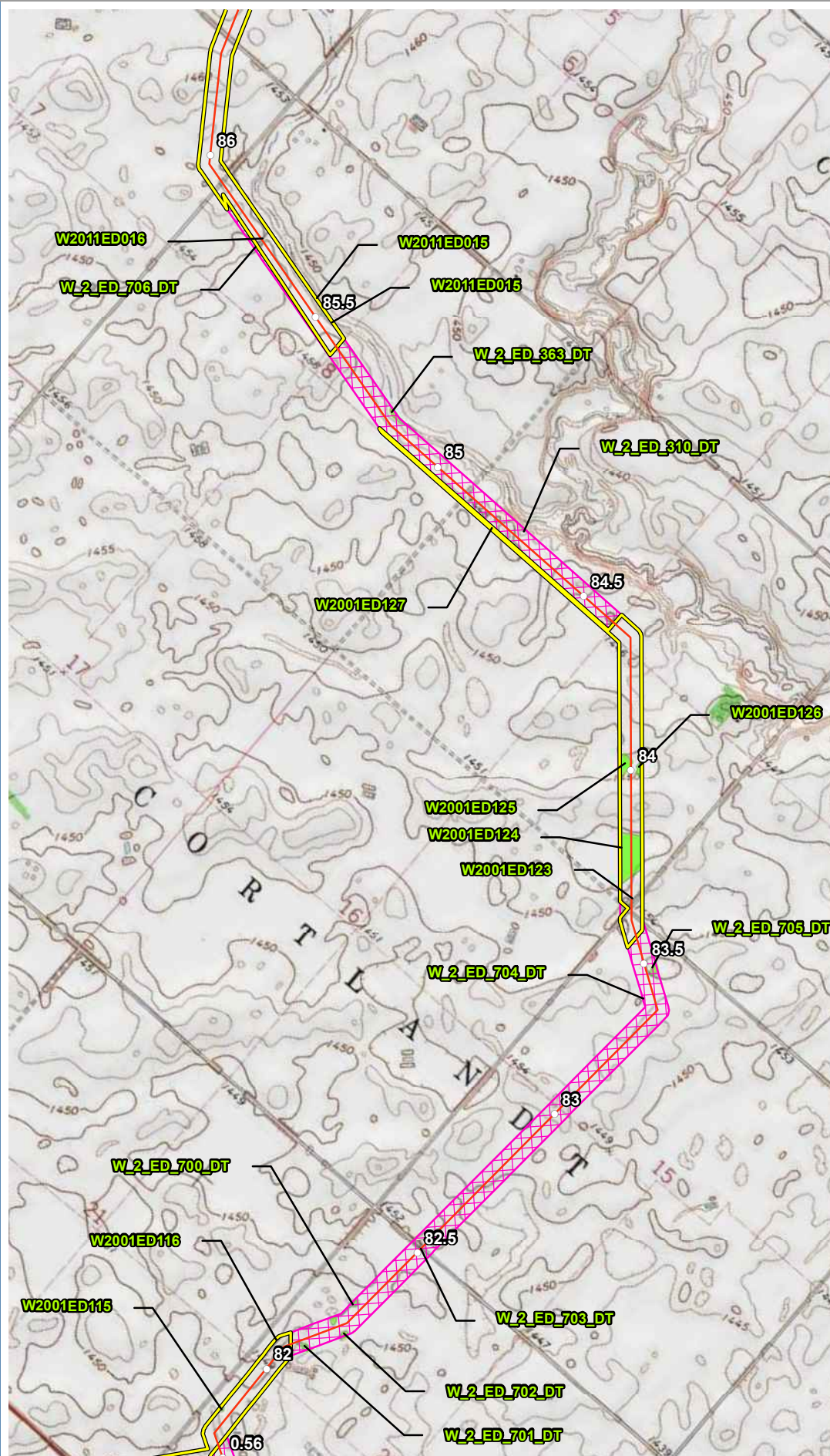
Sheet 54 of 128

Drawing Number:

2001-22-003

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TOPOGRAPHIC MAP

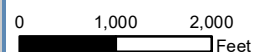


VICINITY MAP



LEGEND

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Figure Number:

3

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1 inch = 2,000 feet

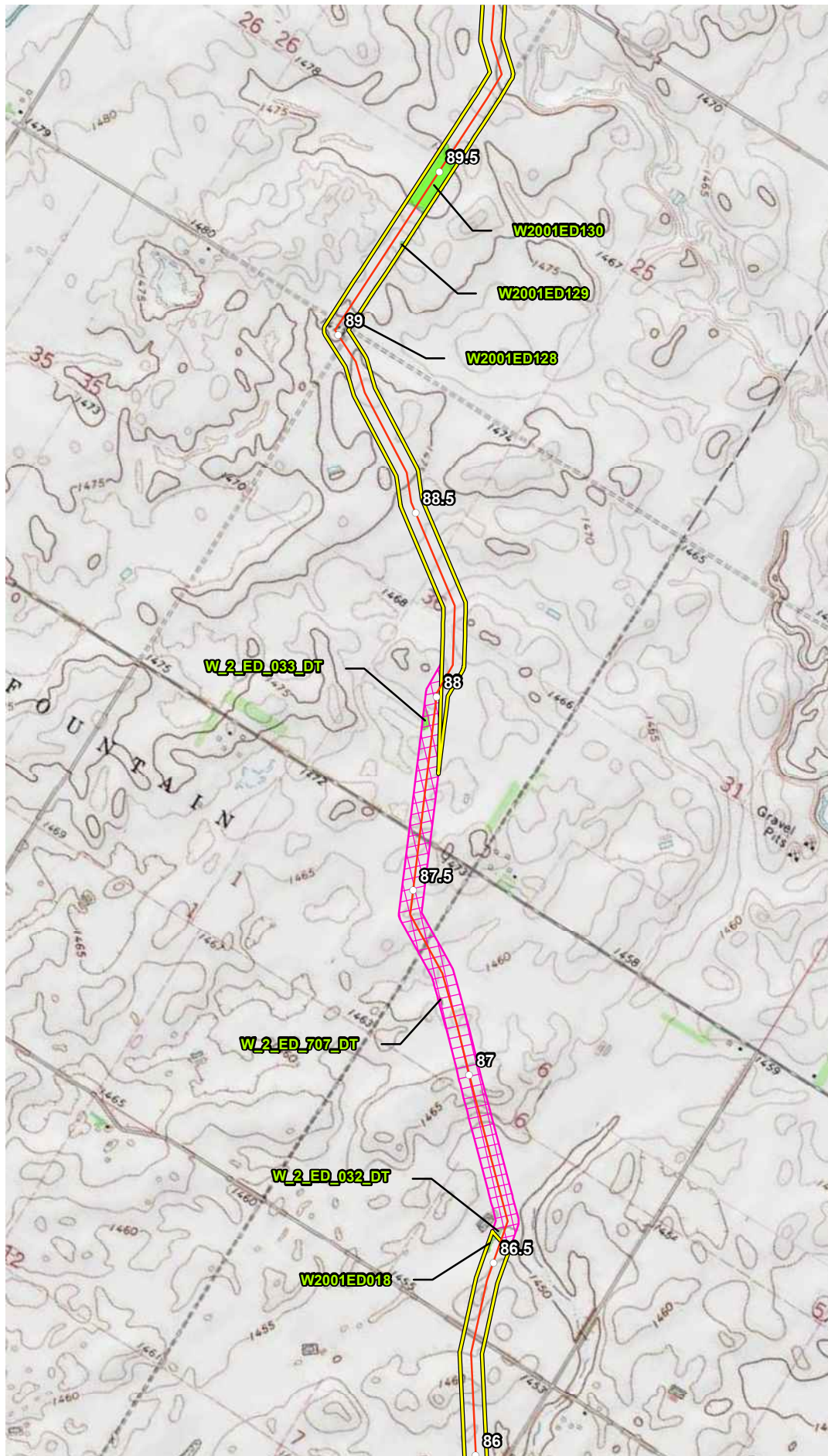
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NAD83

Sheet:
55
Sheet 55 of 128

Drawing Number:
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
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- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 1,000 2,000
Feet



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Date: 2021-12-15 Revised by: AB Checked by: AB

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Revision description

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3

Scale:

Scale: 1:24,000

1 inch = 2,000 feet

Projection:

UTM 14N m

NAD83

Sheet:

56

Sheet 56 of 128

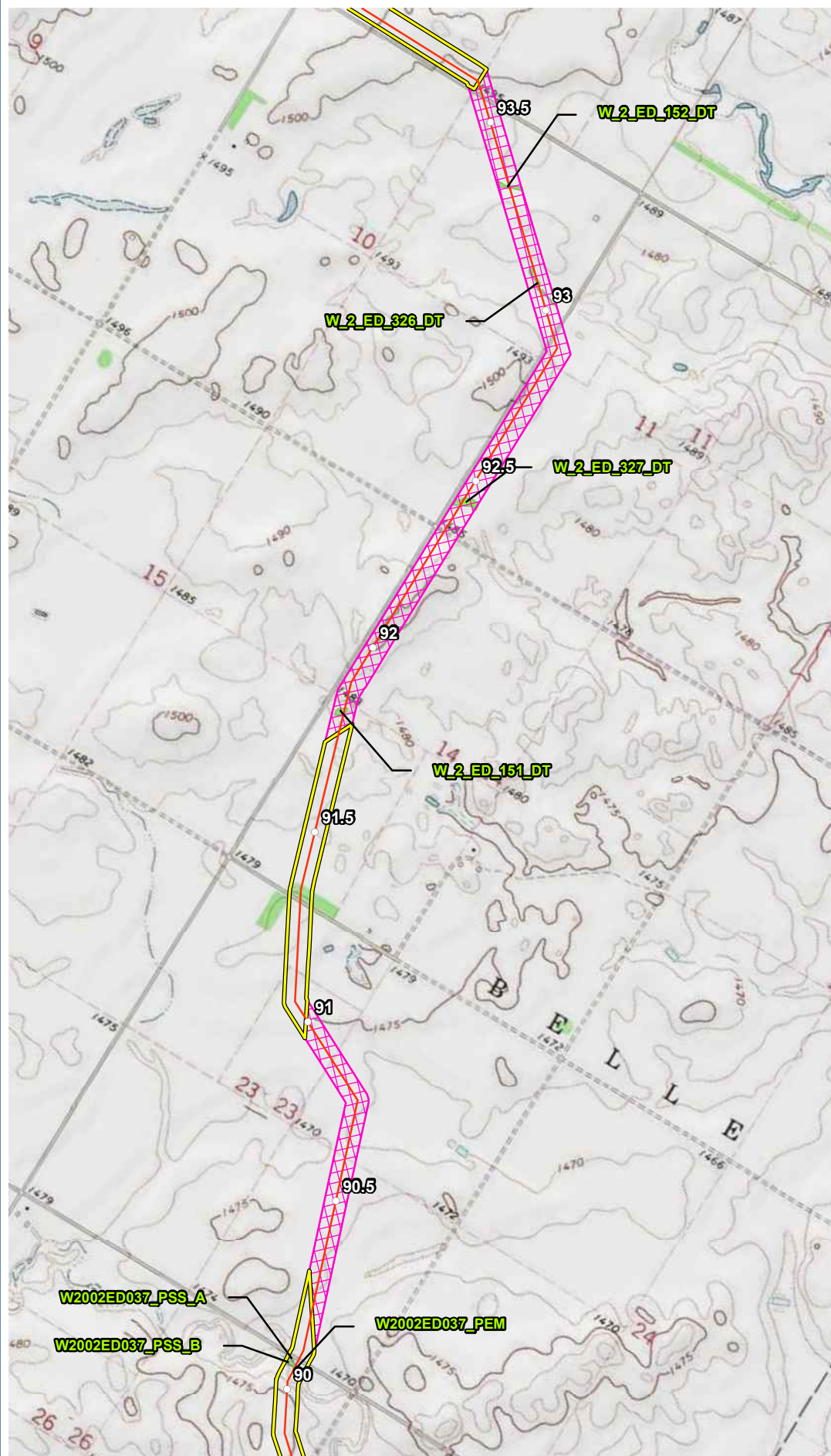
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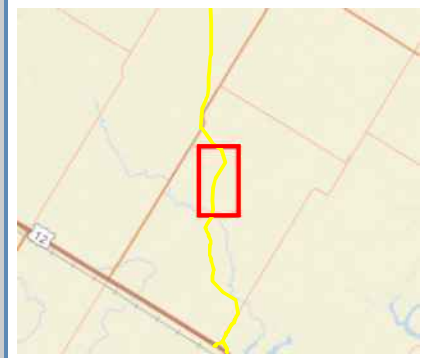
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TOPOGRAPHIC MAP



VICINITY MAP



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Projection:

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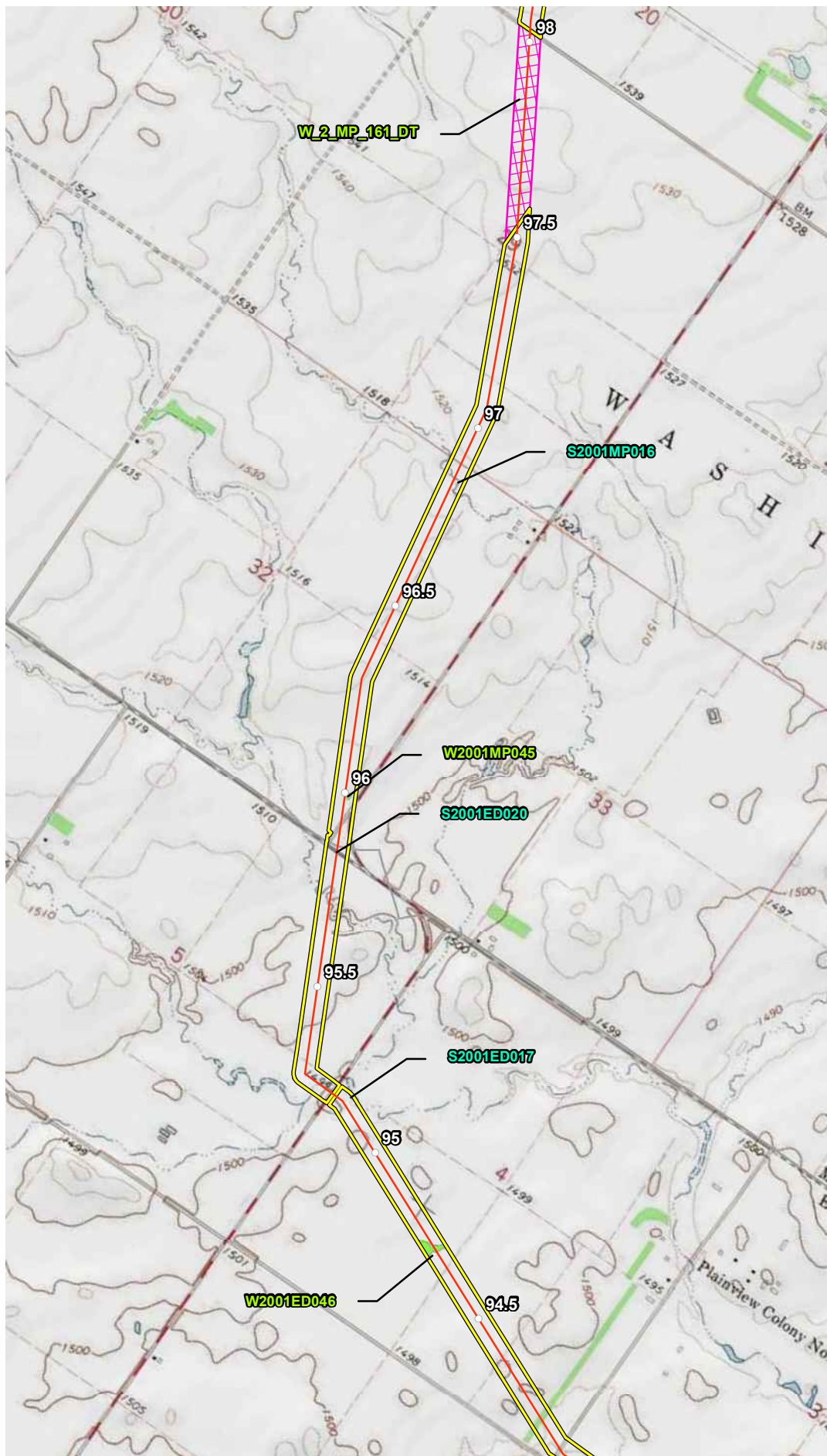
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Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
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3

Scale:
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Projection:
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NAD83

Sheet:

58

Sheet 58 of 128

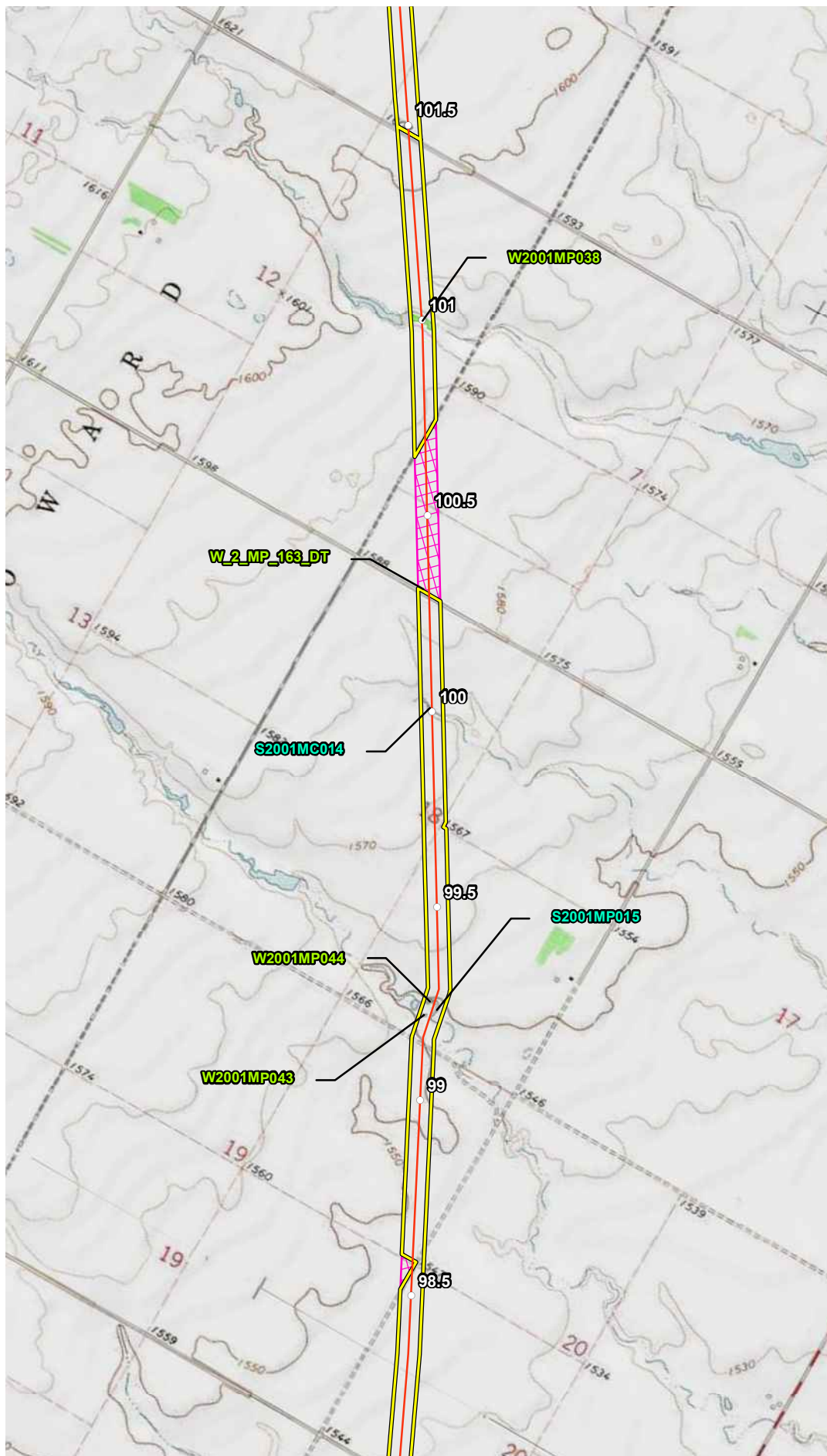
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TOPOGRAPHIC MAP



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0 1,000 2,000
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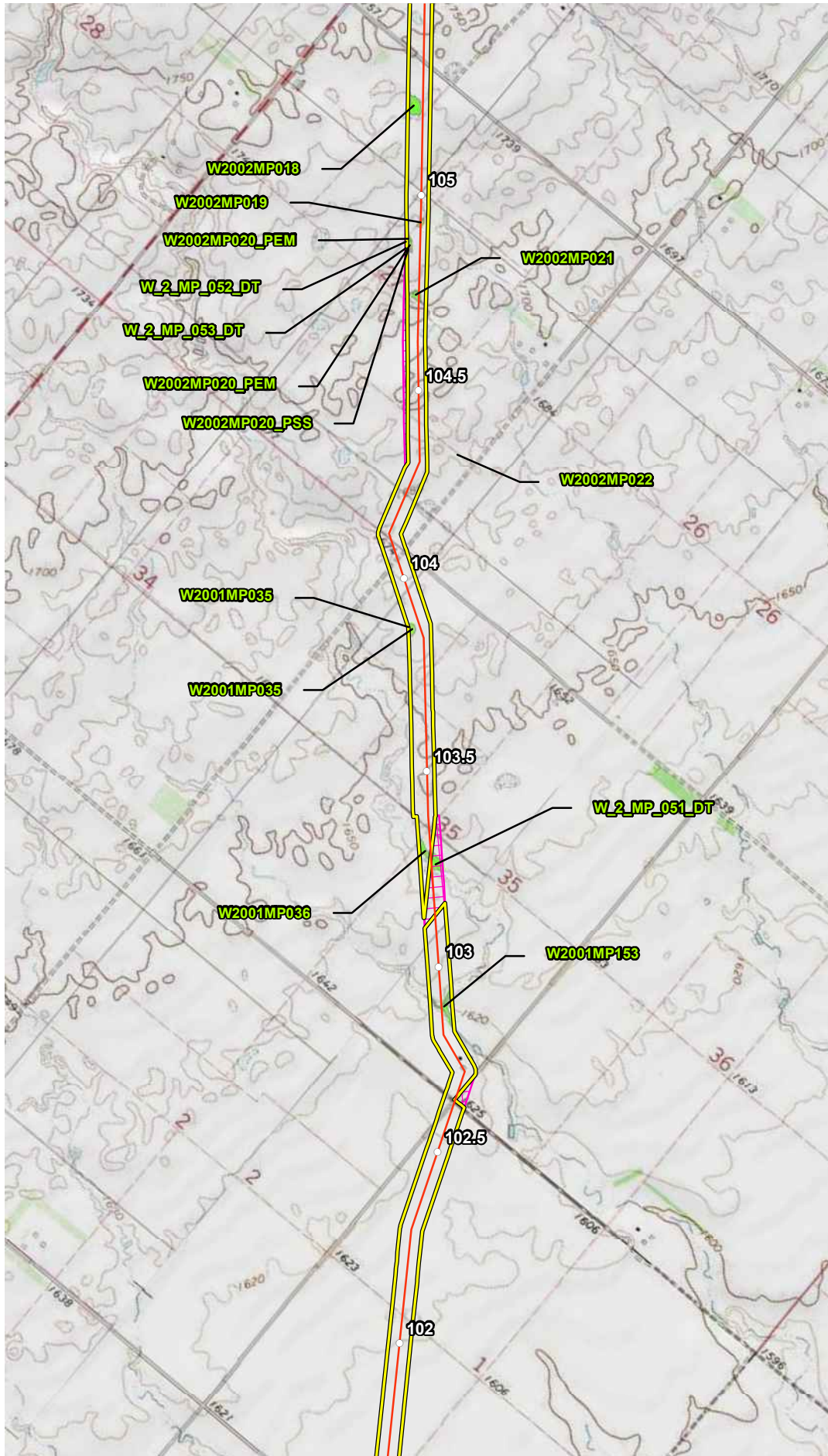
Projection:
UTM 14N m
NAD83

Sheet:
59

Sheet 59 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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- Active Route
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0 1,000 2,000 Feet



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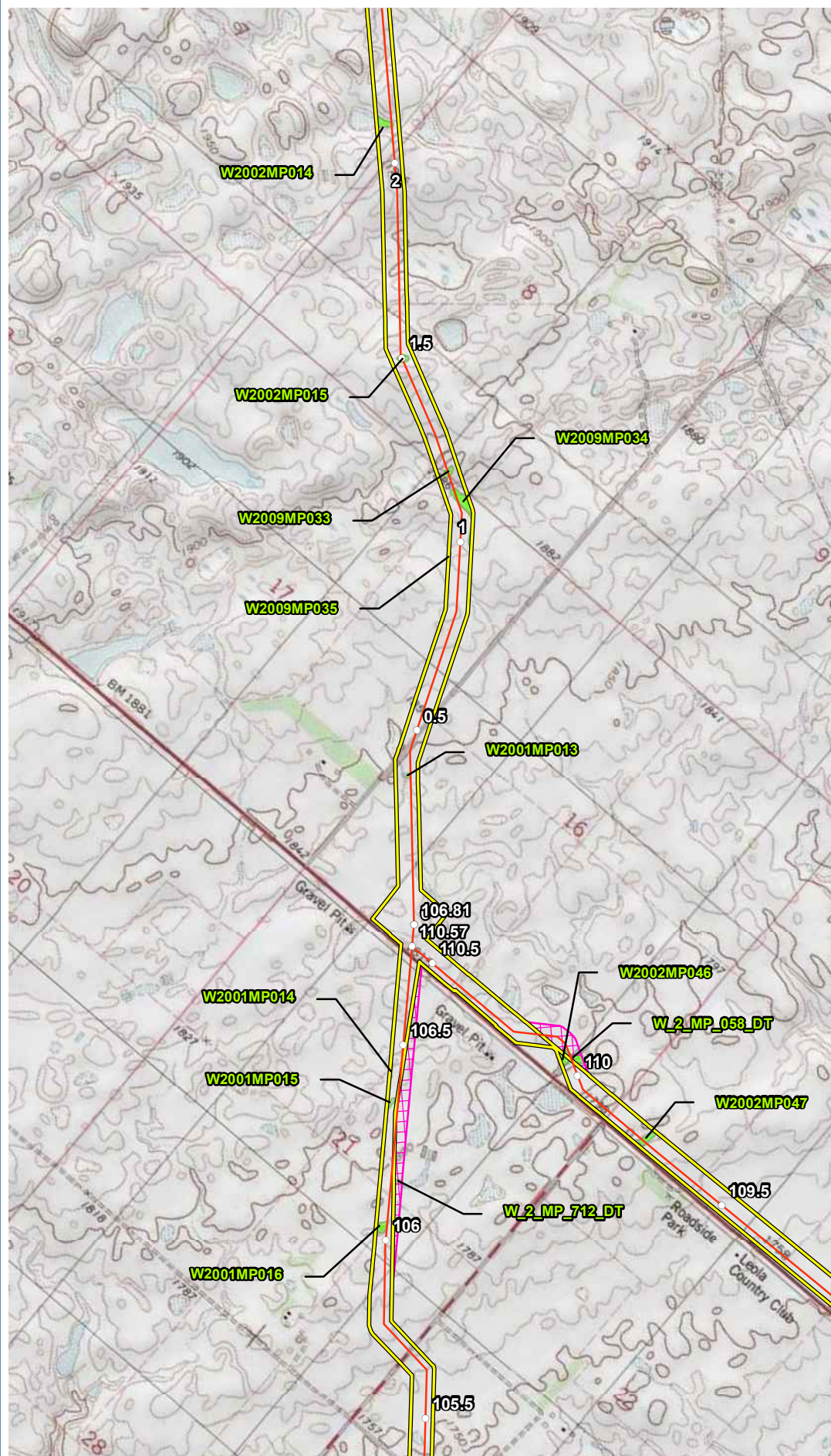
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 NAD83

Sheet:
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Sheet 60 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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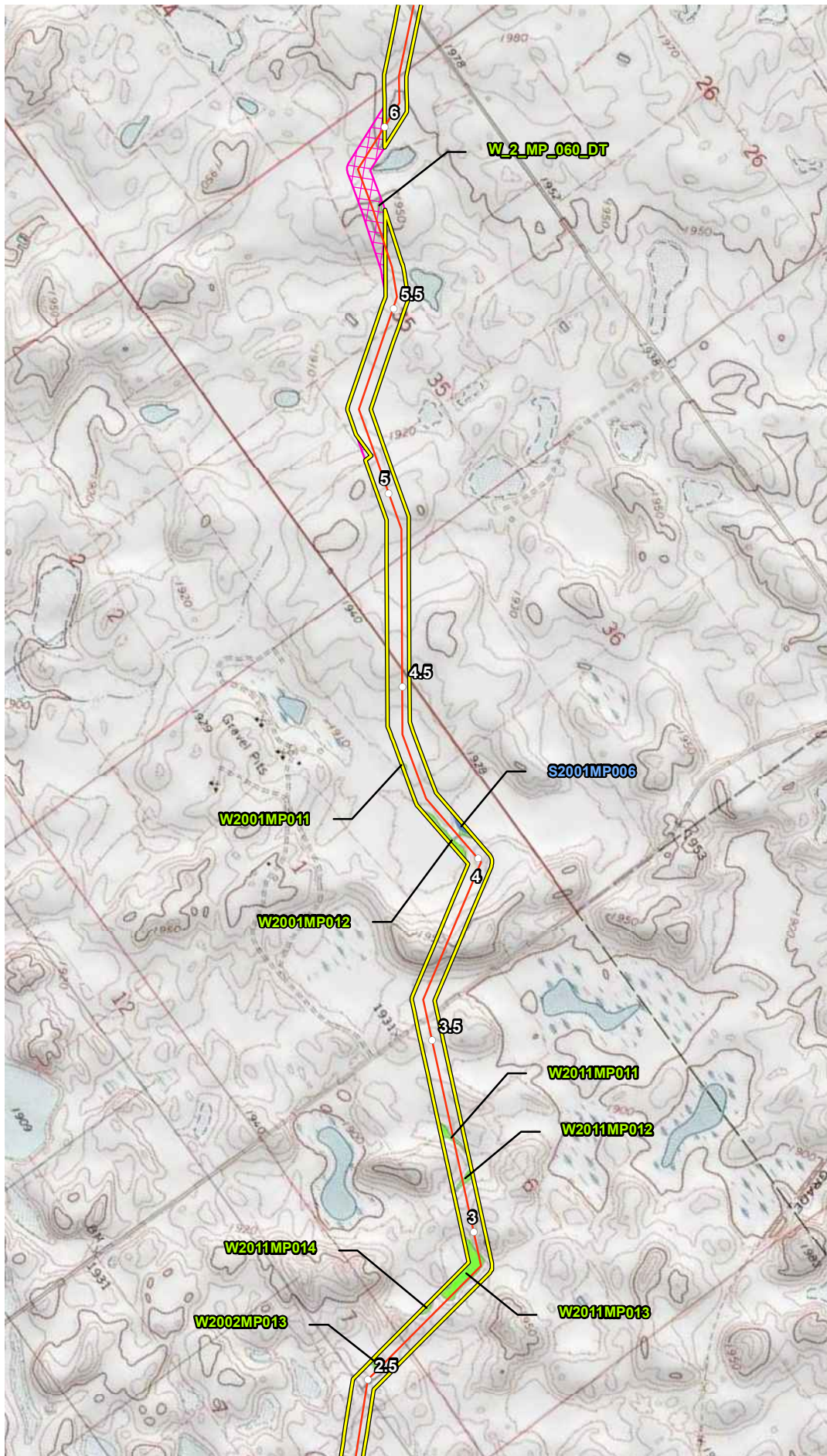
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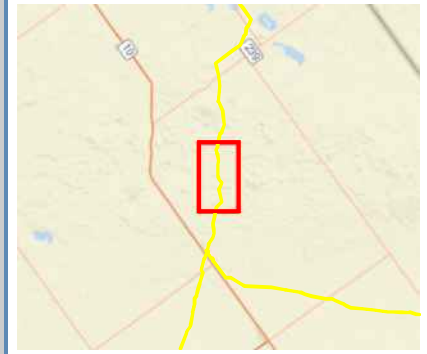
Sheet 61 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
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0 1,000 2,000
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UTM 14N m

NAD83

Sheet:

62

Sheet 62 of 128

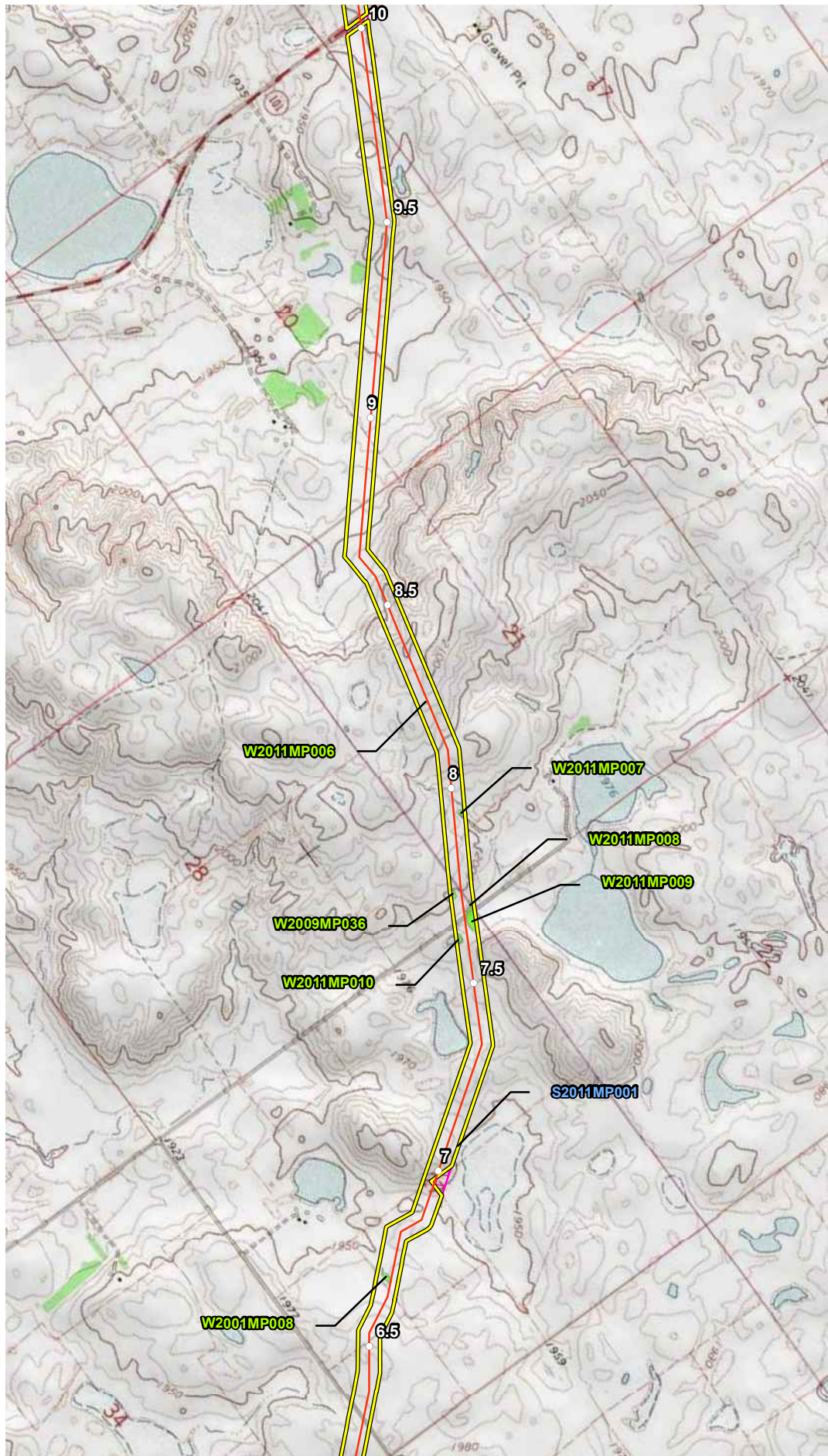
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VICINITY MAP



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0 1,000 2,000
Feet



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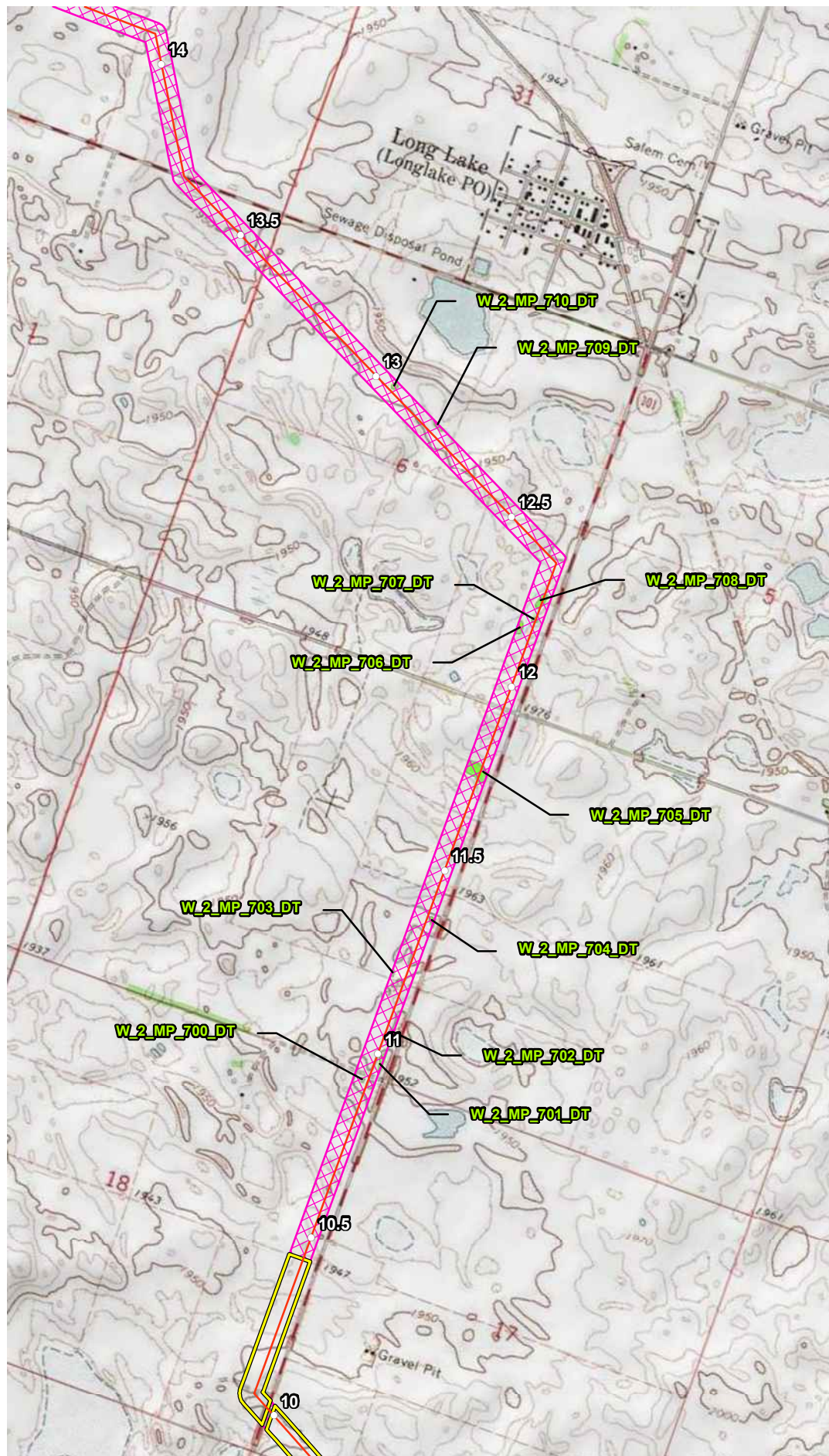
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Projection:
UTM 14N m
NAD83

Sheet:
63
Sheet 63 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



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0 1,000 2,000
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Sheet:

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Drawing Number:

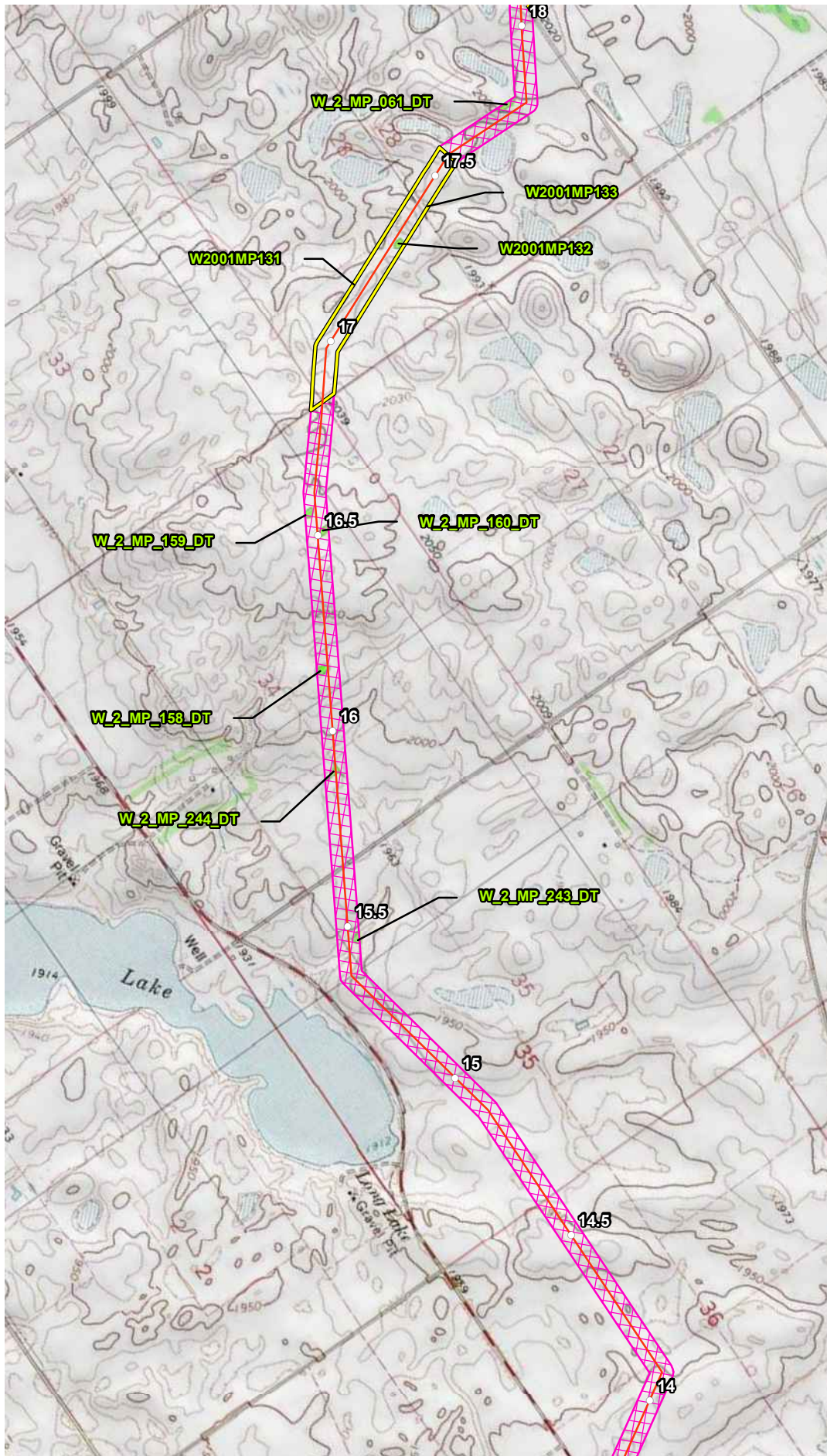
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Sheet 64 of 128

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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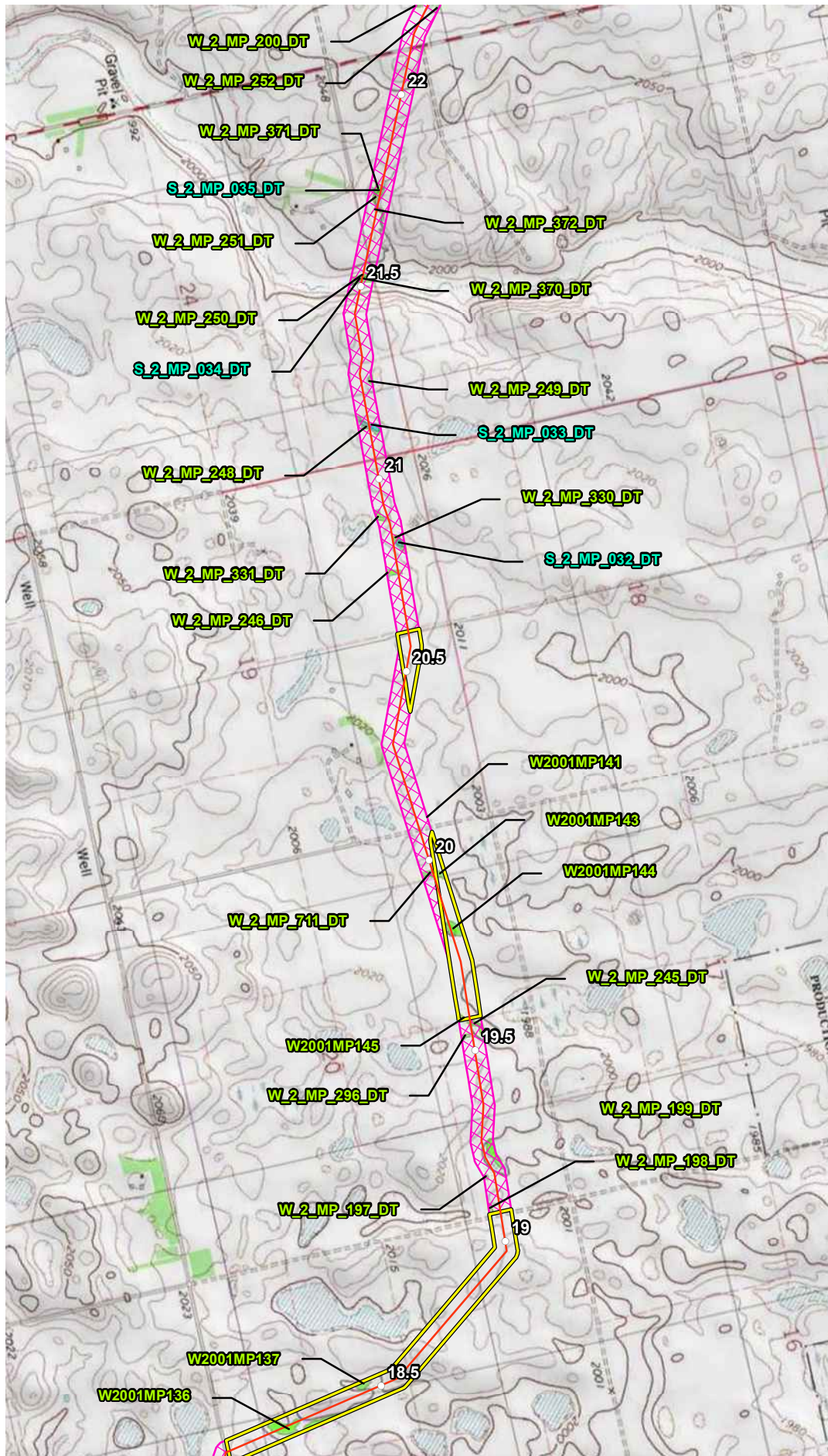
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Sheet 65 of 128

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TOPOGRAPHIC MAP



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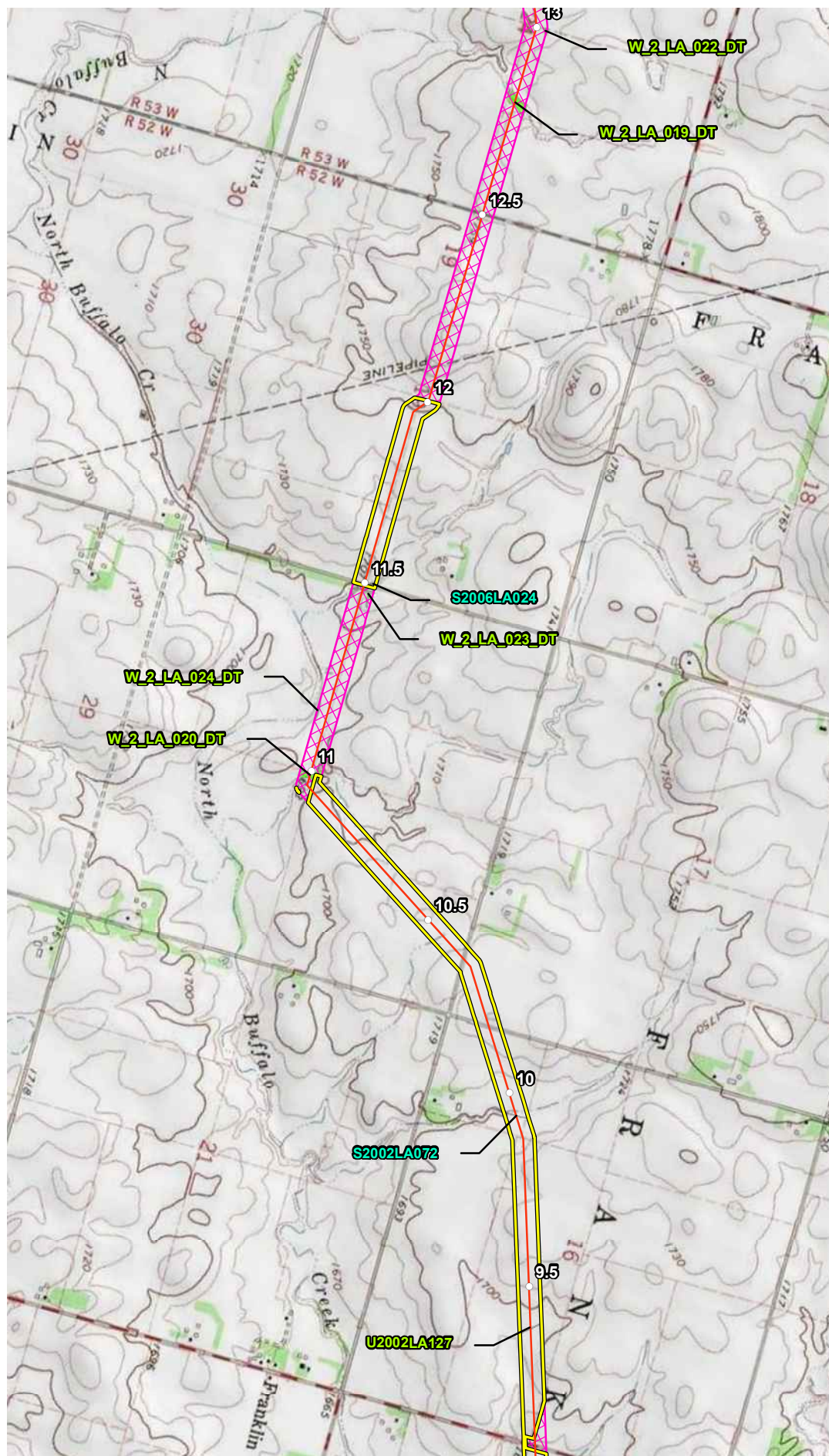
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NAD83

Sheet:
66
Sheet 66 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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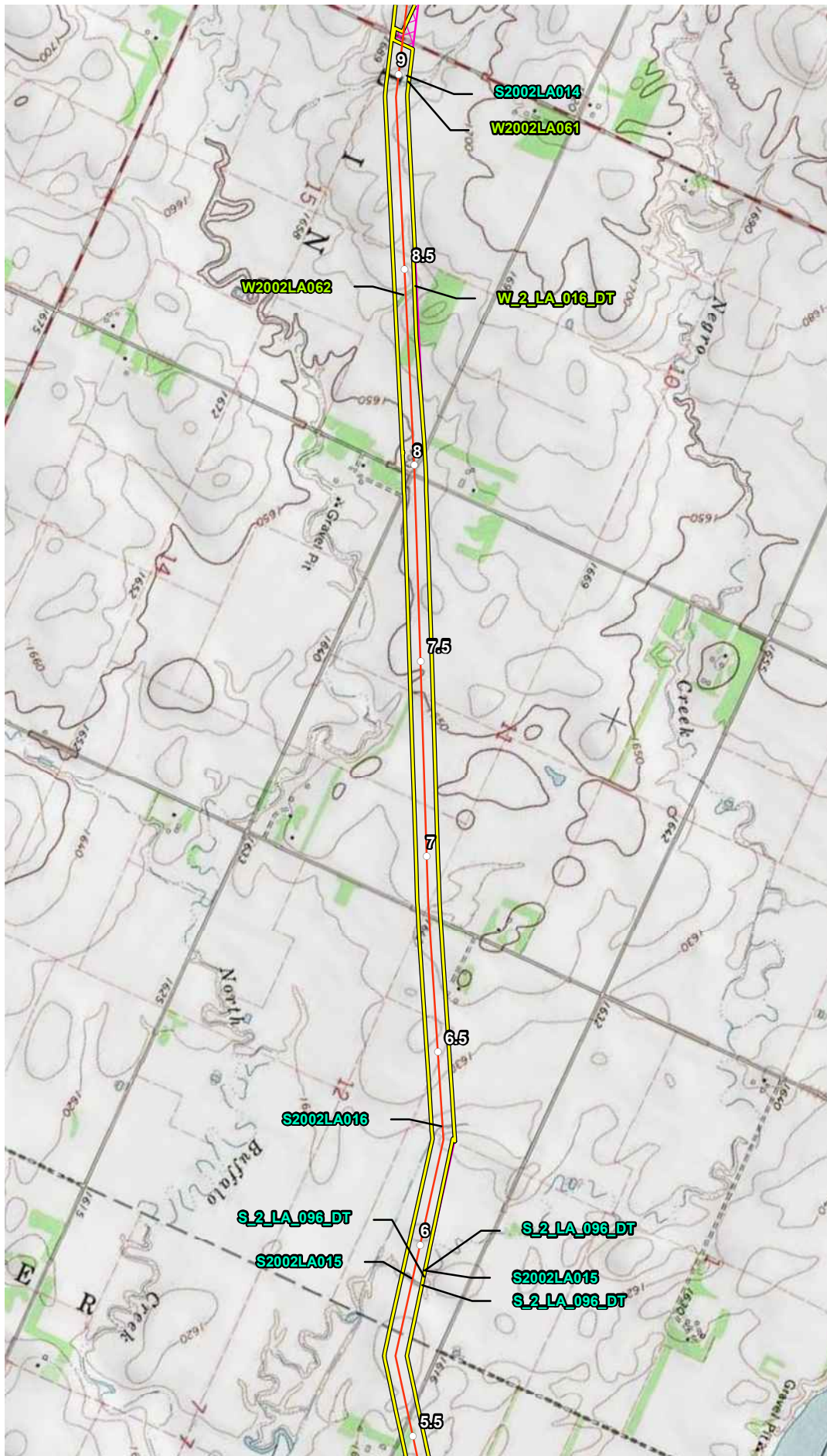
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Sheet 67 of 128

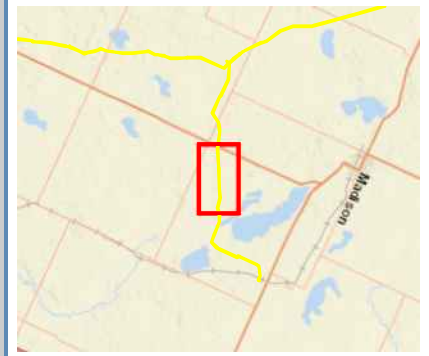
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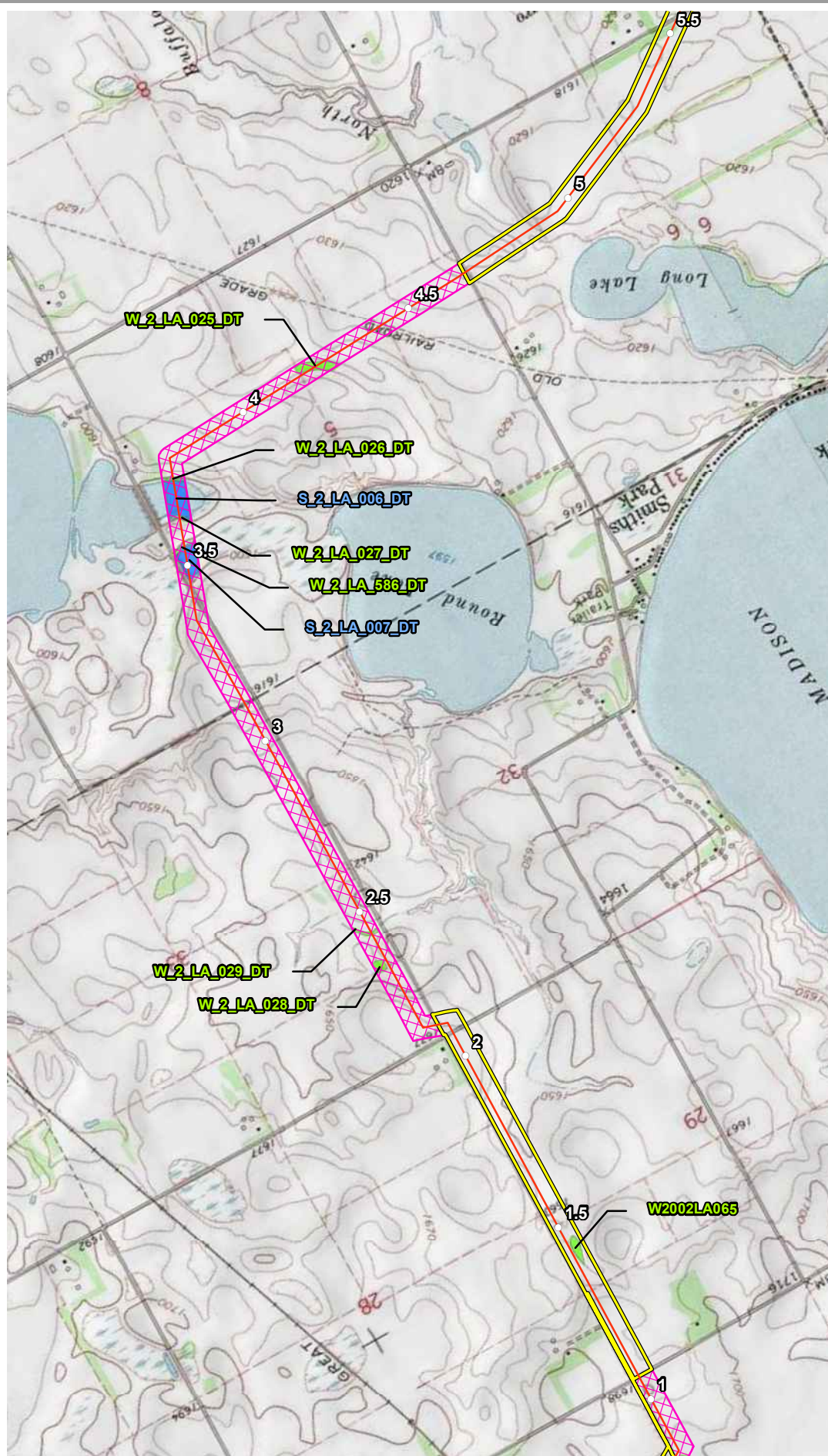
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Sheet 68 of 128

Drawing Number:
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Current Revision

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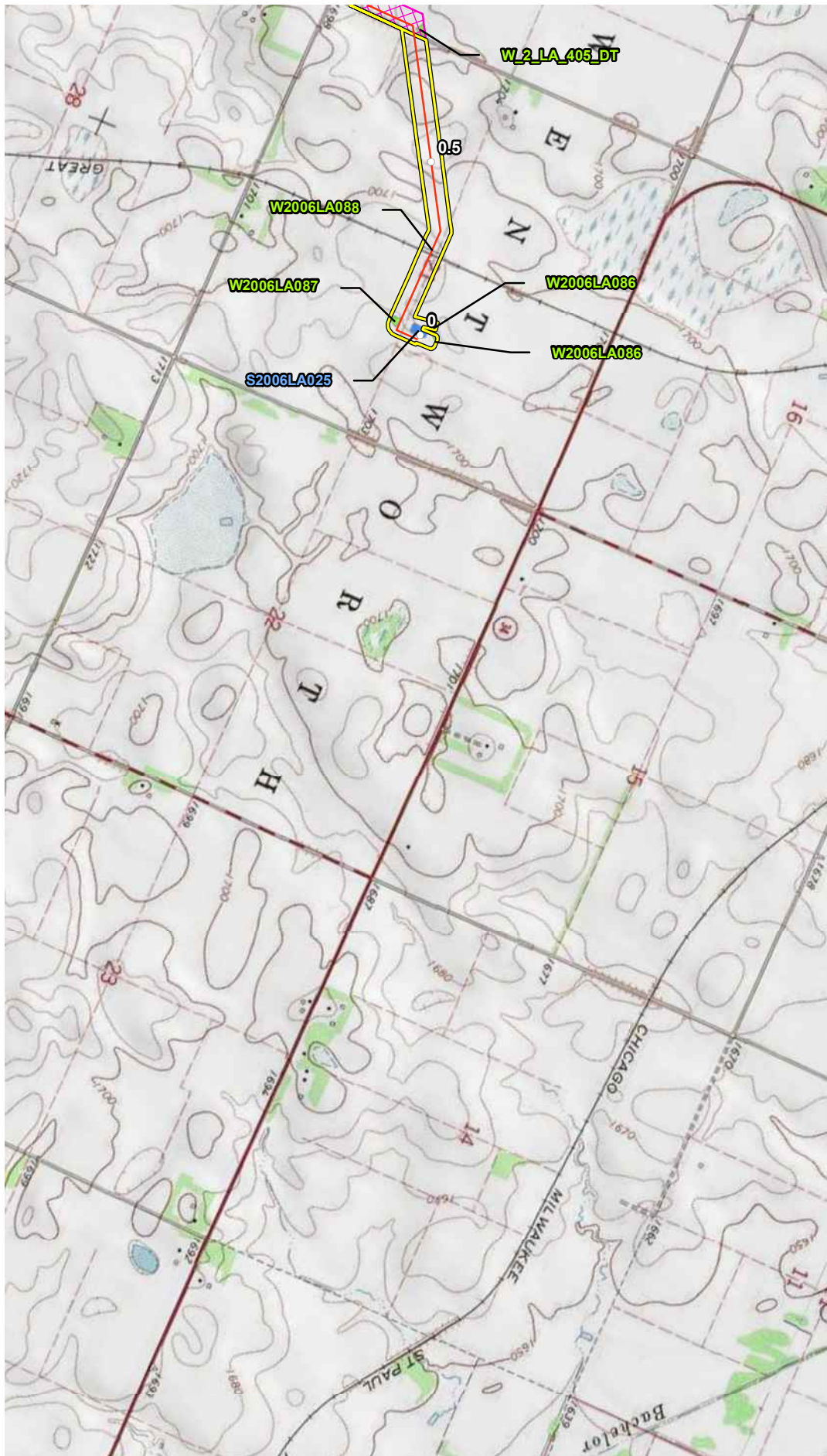
Sheet:
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Sheet 69 of 128

Drawing Number:
2001-22-003
Current Revision

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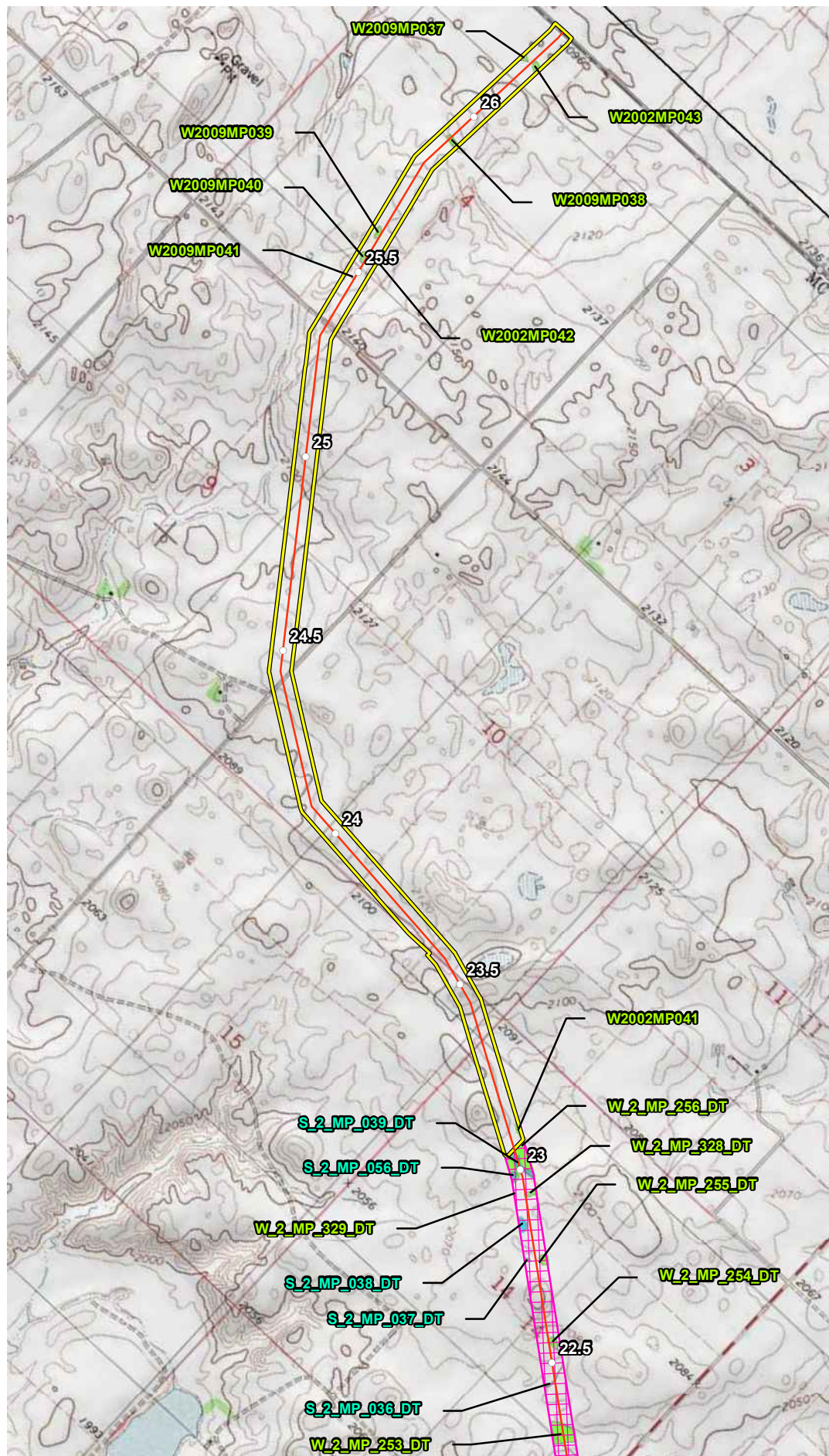
Sheet:
70

Sheet 70 of 128

Drawing Number:
2001-22-003
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UTM 14N m
NAD83

Sheet:
71
Sheet 71 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 1,000 2,000
Feet



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Revision description		
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Figure Number:

3

Scale:

Scale: 1:24,000
1 inch = 2,000 feet

Projection:

UTM 14N m
NAD83

Sheet:

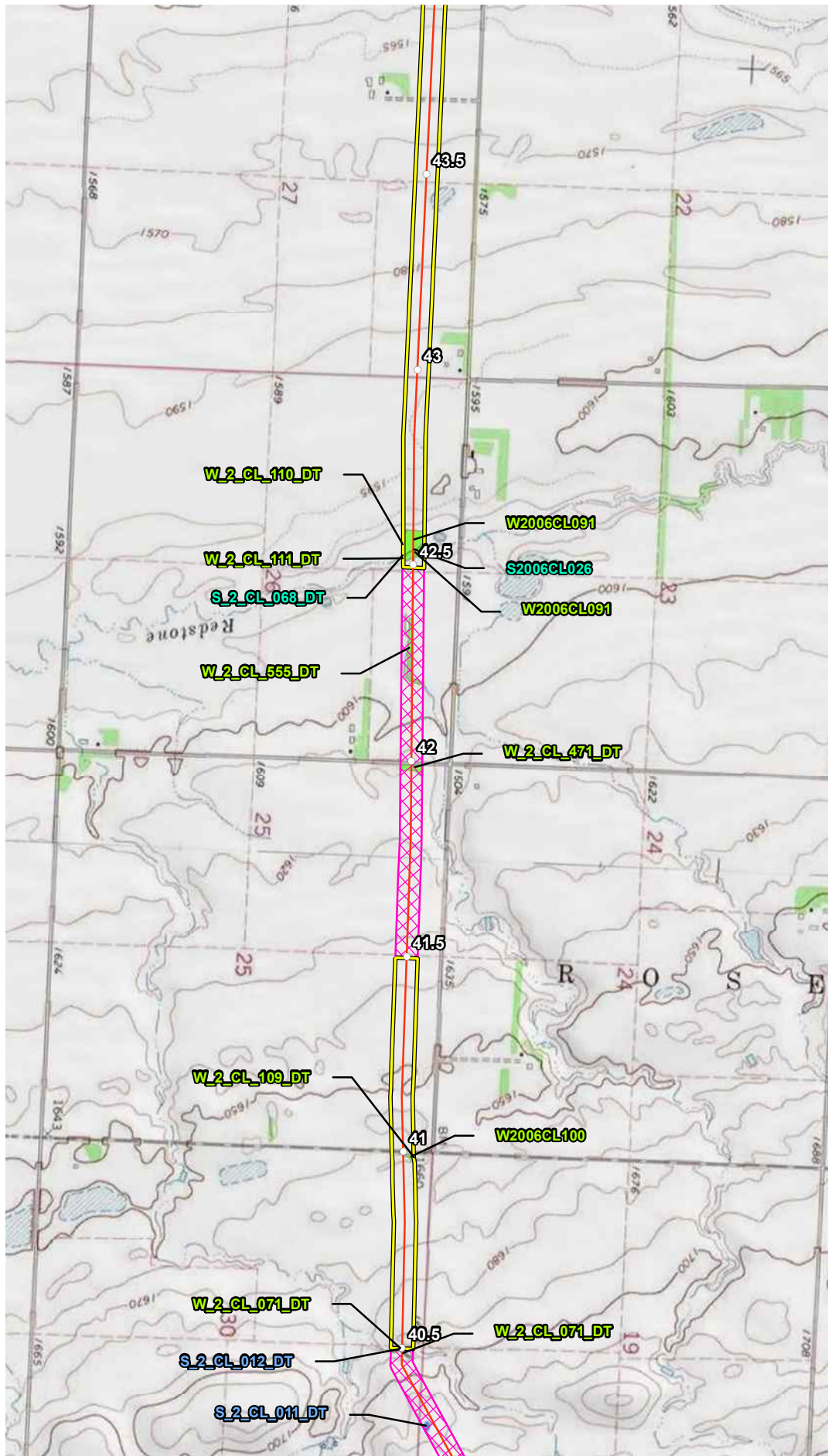
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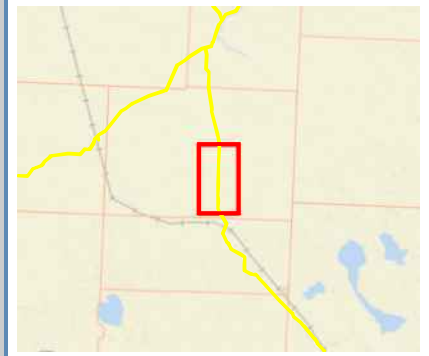
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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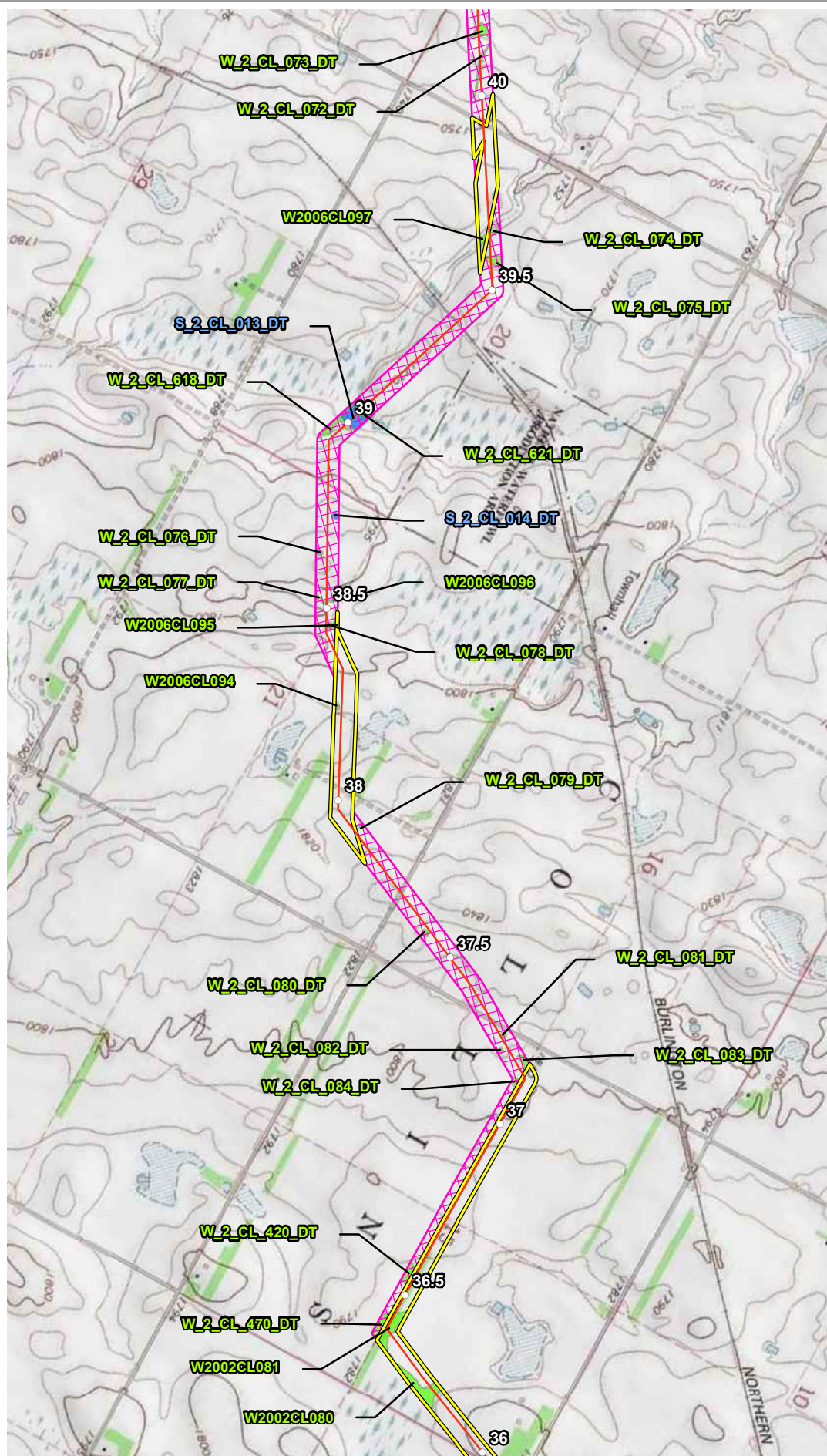
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1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Sheet:
73
Sheet 73 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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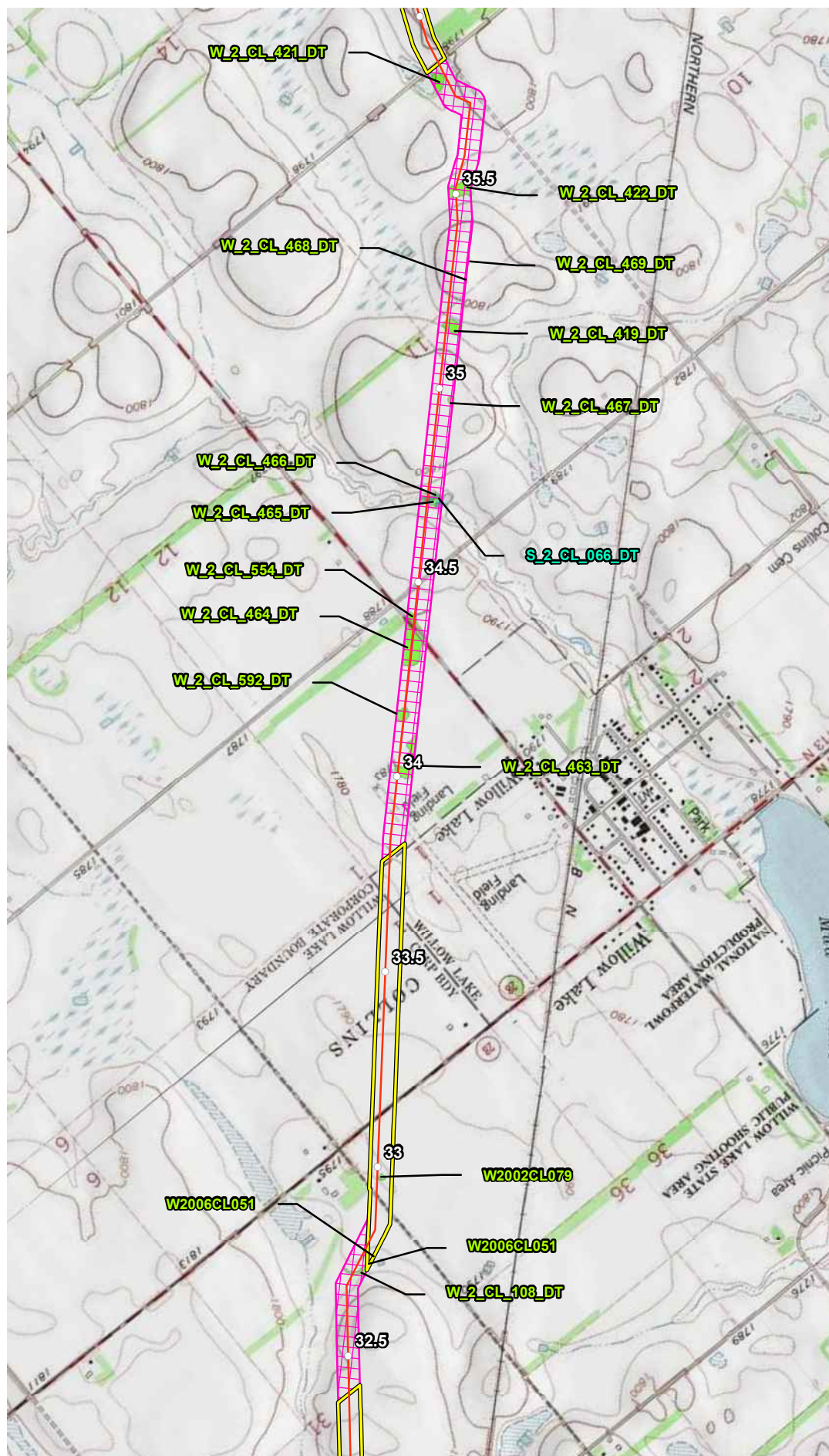
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1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Sheet:
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Sheet 74 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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3

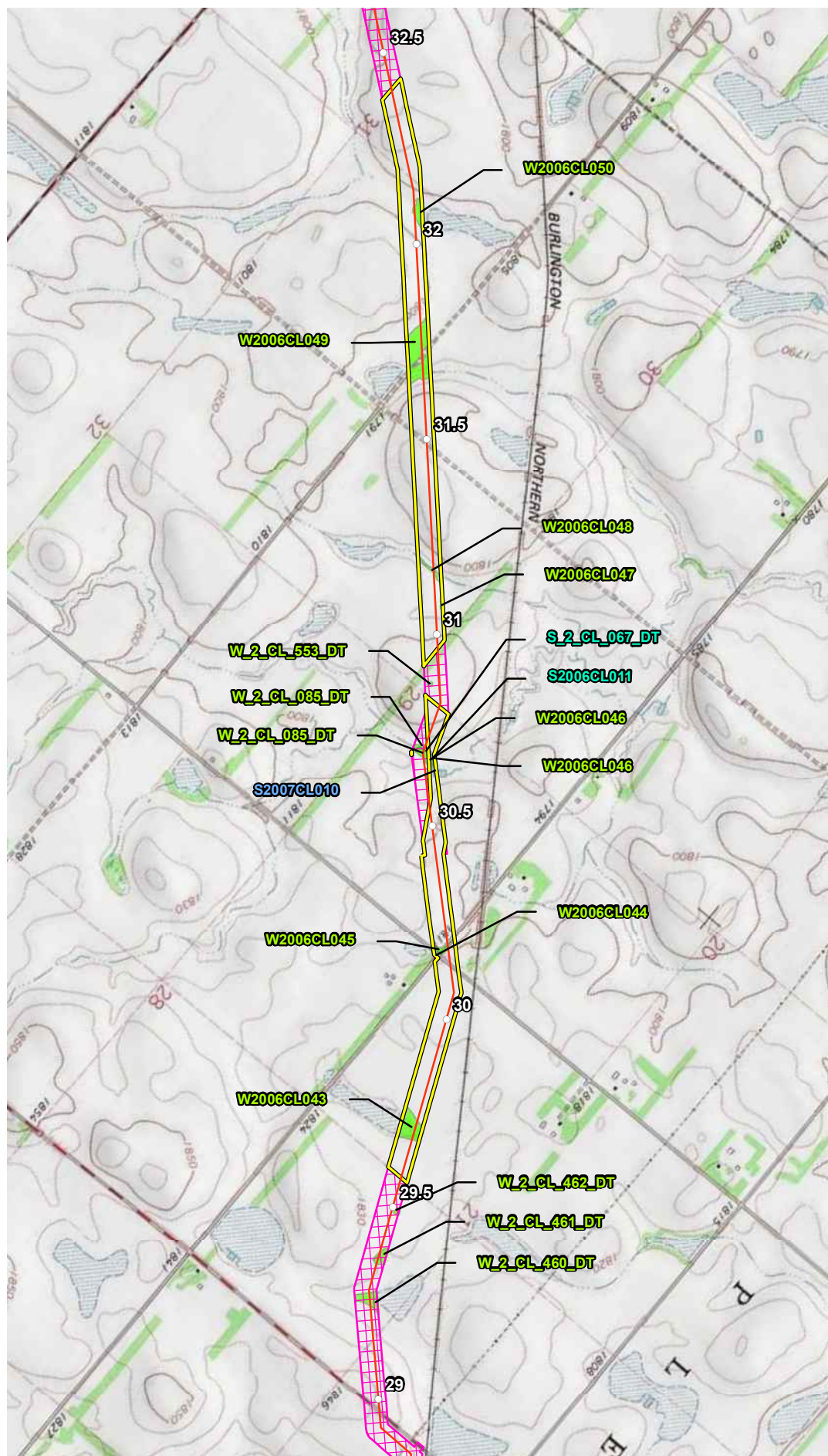
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1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Sheet:
75
Sheet 75 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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Scale:

Scale: 1:24,000
1 inch = 2,000 feet

Projection:

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NAD83

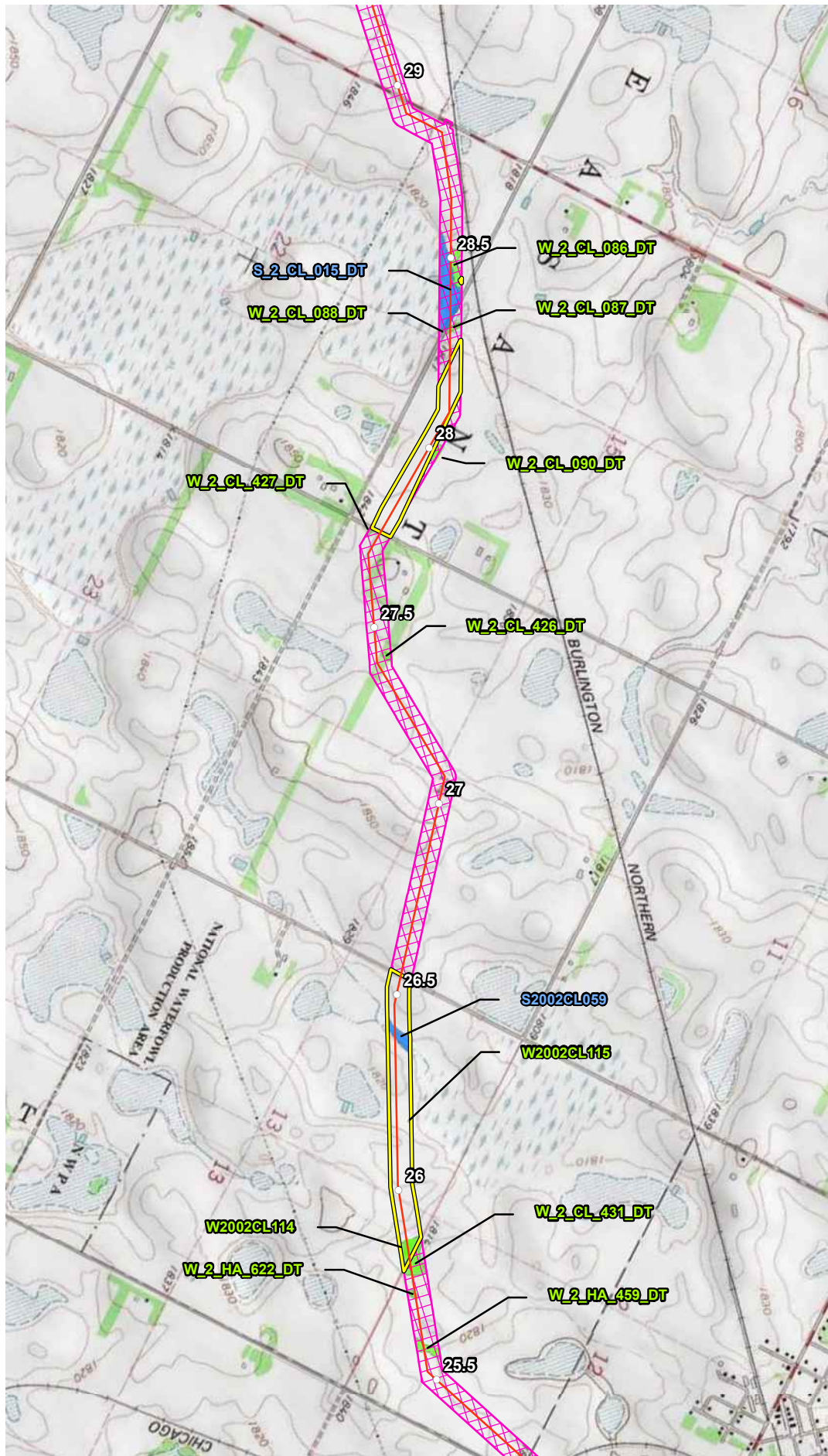
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Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
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0 1,000 2,000
Feet



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3

Scale:

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1 inch = 2,000 feet

Projection:

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NAD83

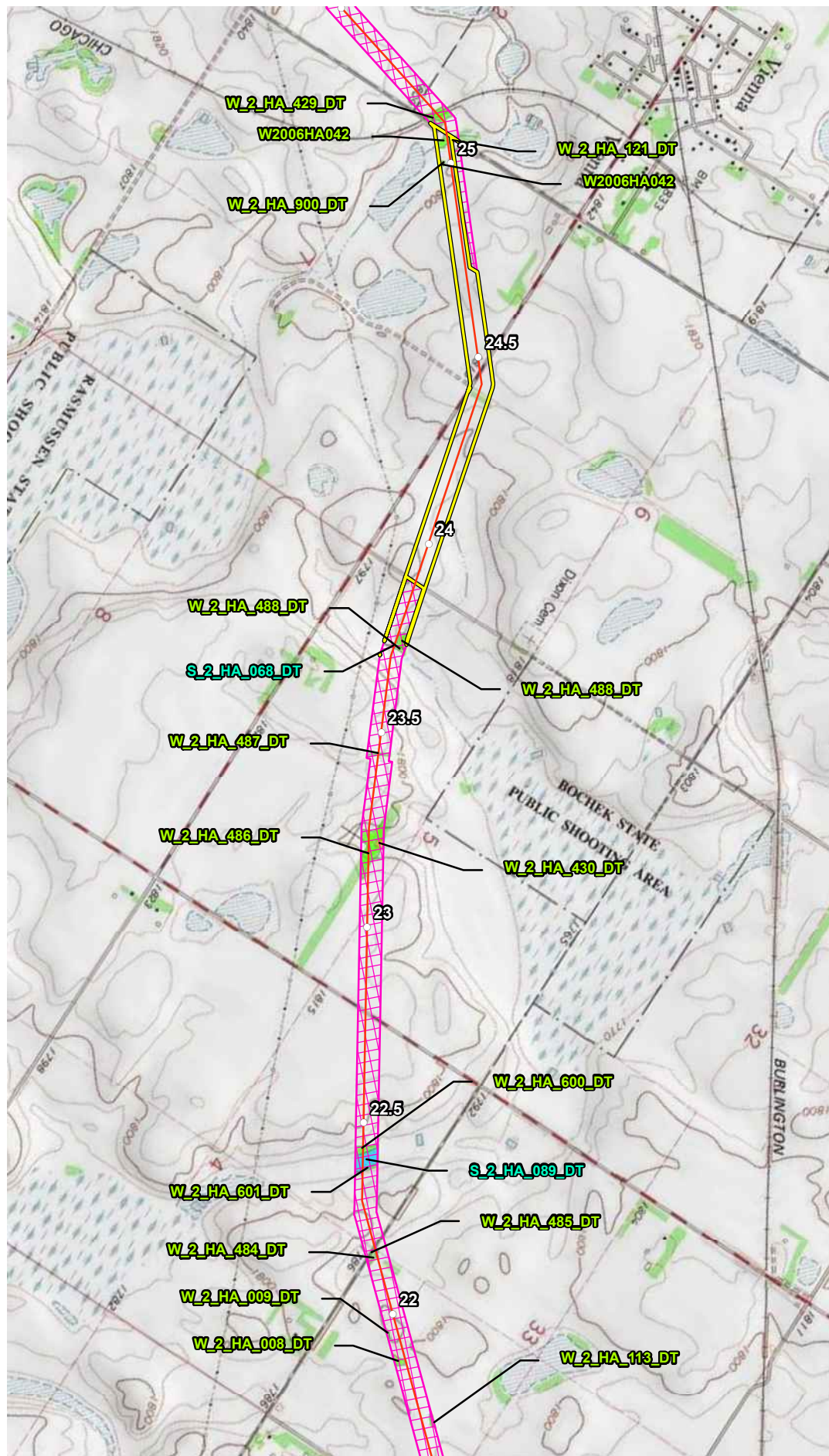
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Drawing Number:

2001-22-003
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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Projection:

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NAD83

Sheet:

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Drawing Number:

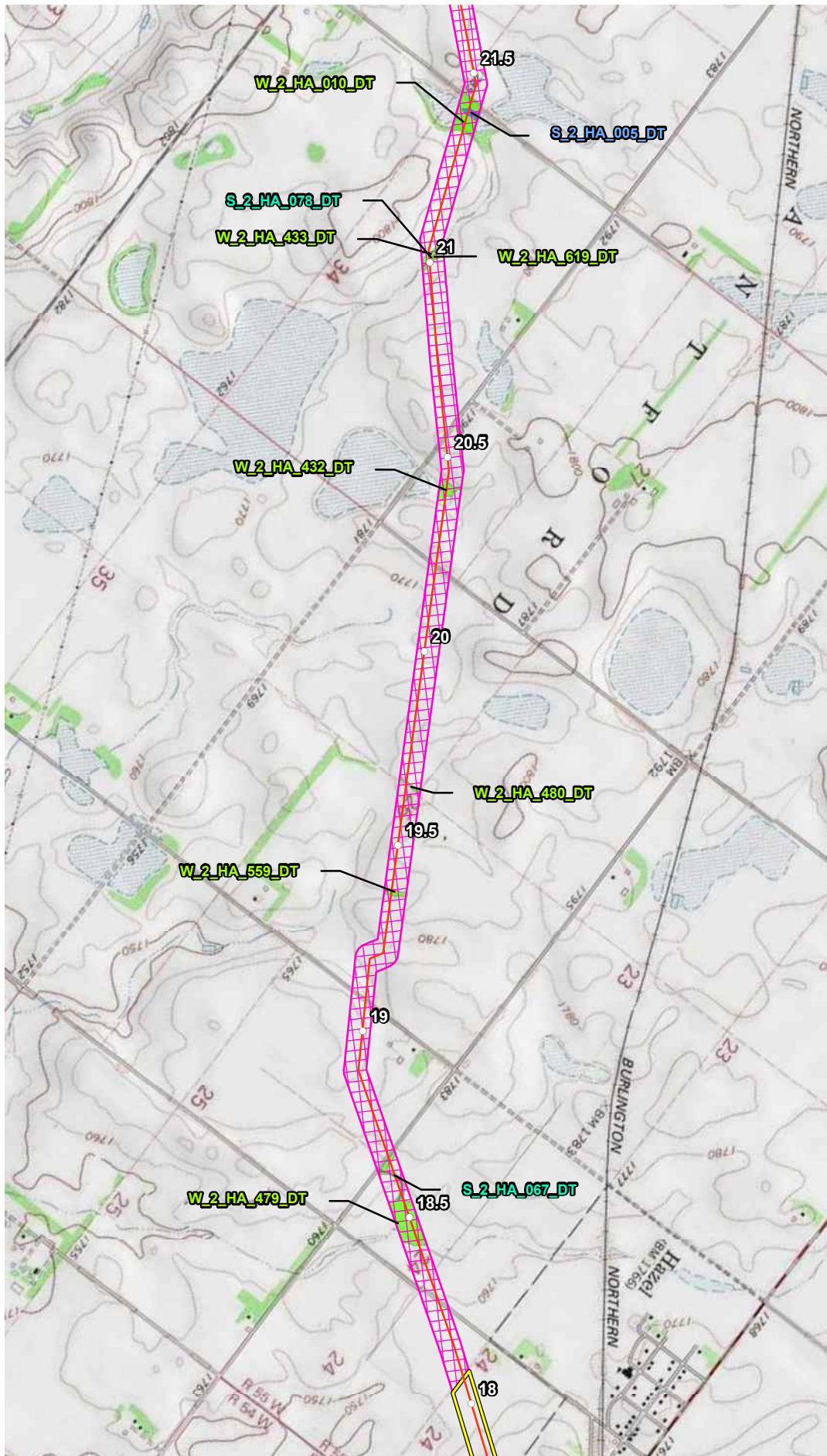
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Sheet 78 of 128

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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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3

Scale:

Scale: 1:24,000
1 inch = 2,000 feet

Projection:

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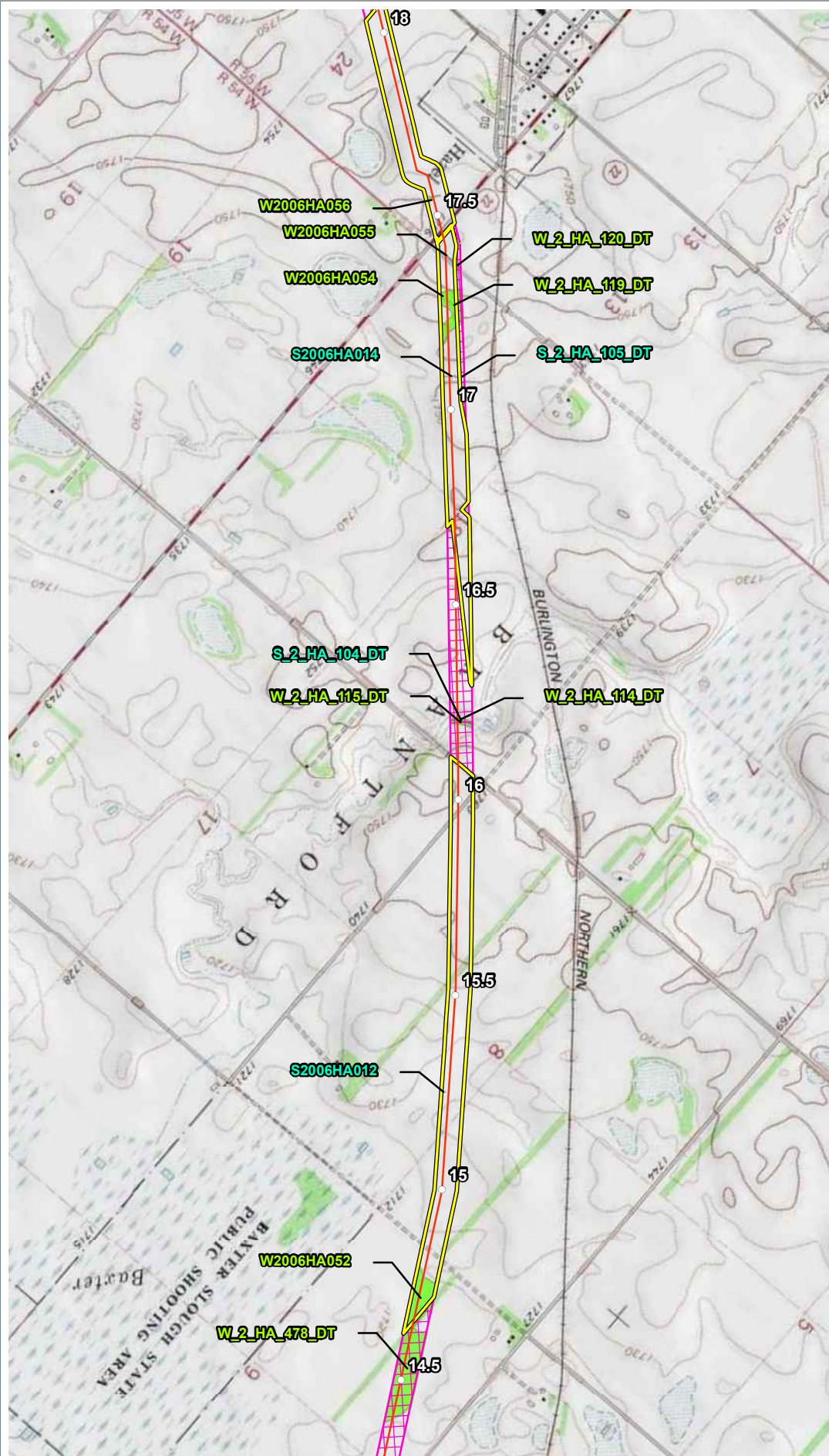
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TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000
Feet



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1 inch = 2,000 feet

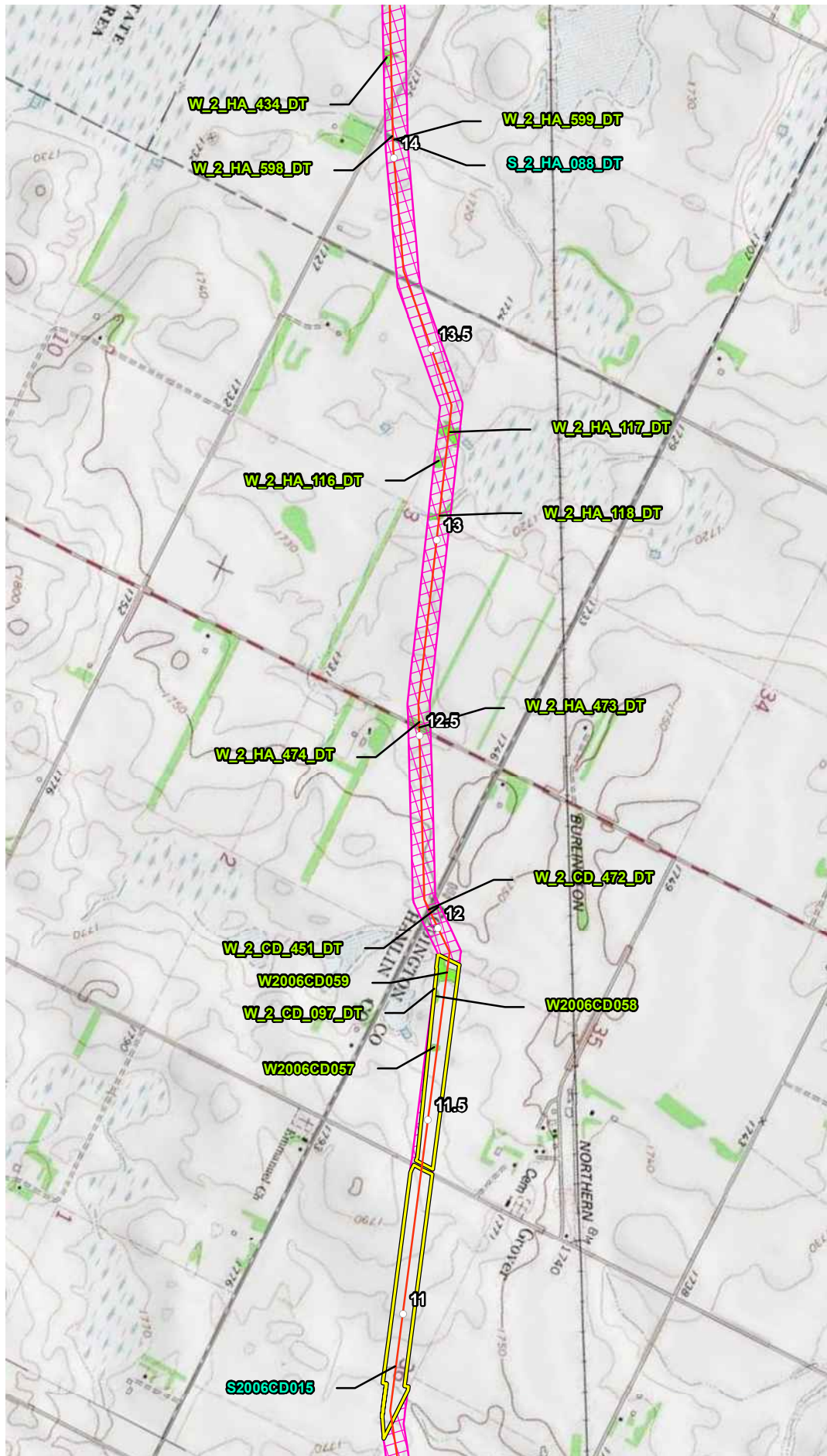
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NAD83

Sheet:
80

Sheet 80 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
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0 1,000 2,000
Feet



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3

Scale:

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1 inch = 2,000 feet

Projection:

UTM 14N m
NAD83

Sheet:

81

Sheet 81 of 128

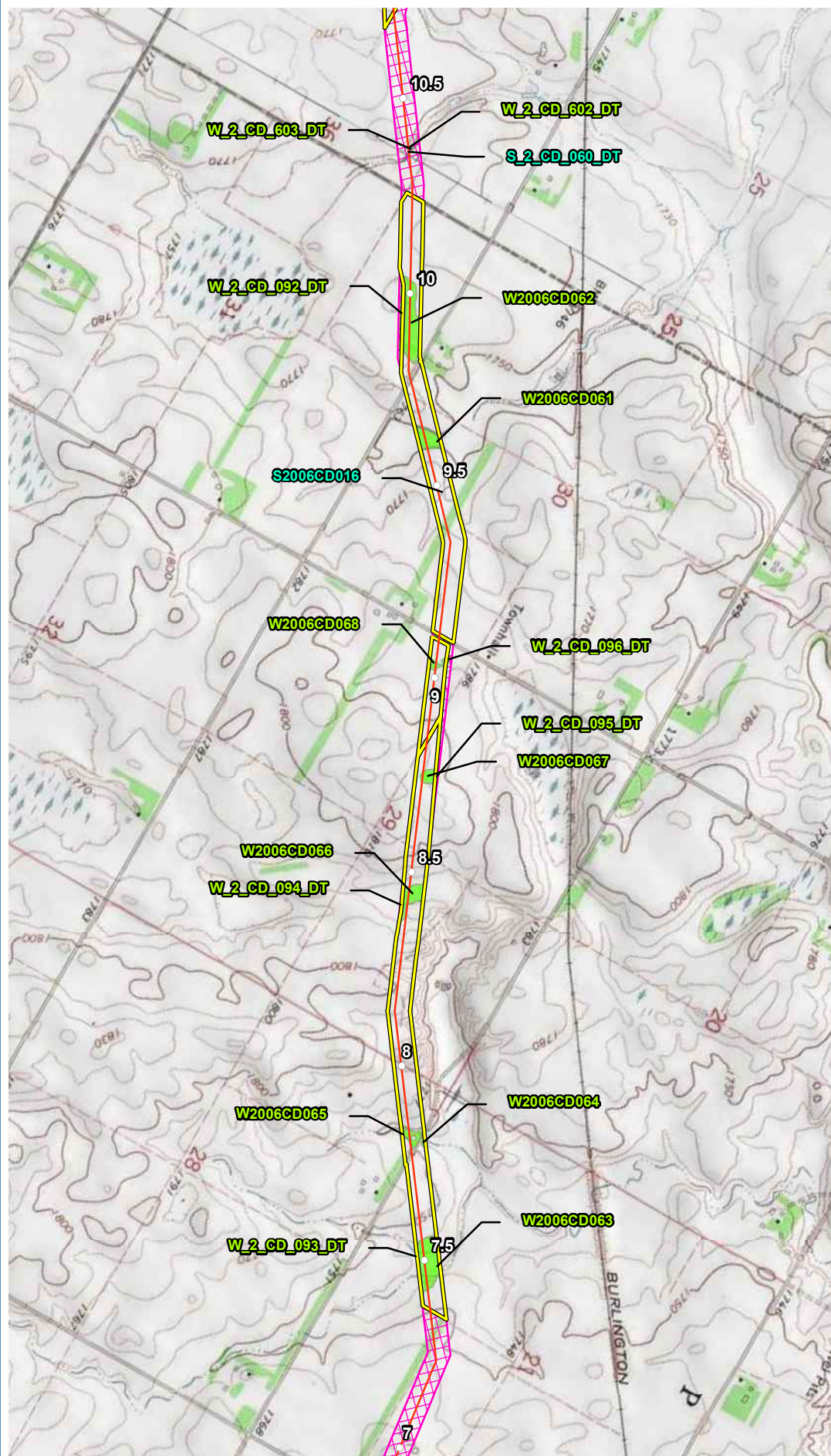
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
Feet



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1 inch = 2,000 feet

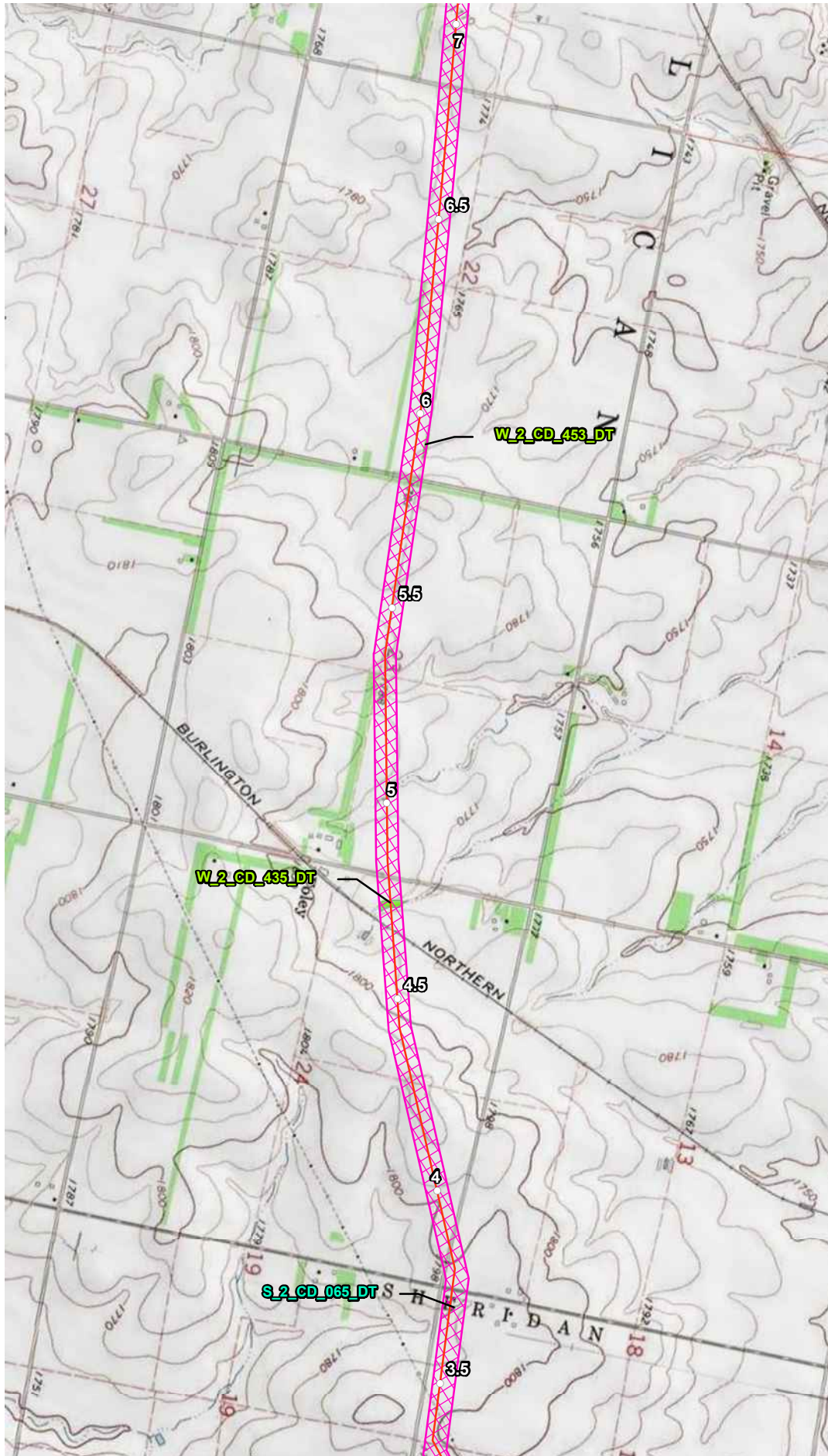
Projection:
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NAD83

Sheet:
82

Sheet 82 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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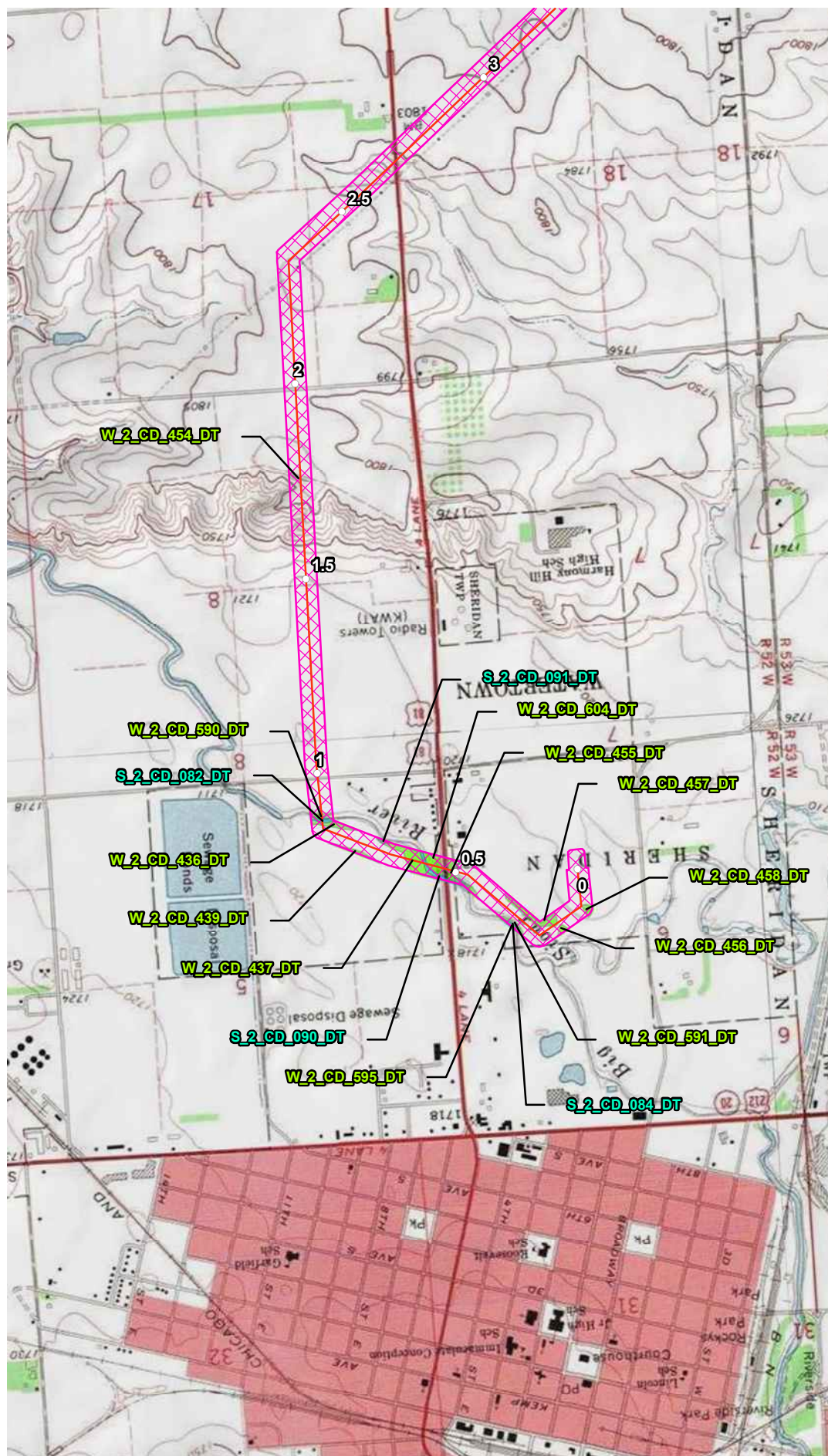
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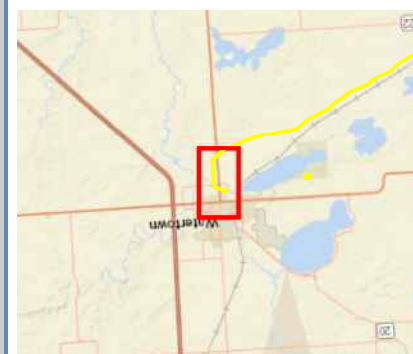
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Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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3

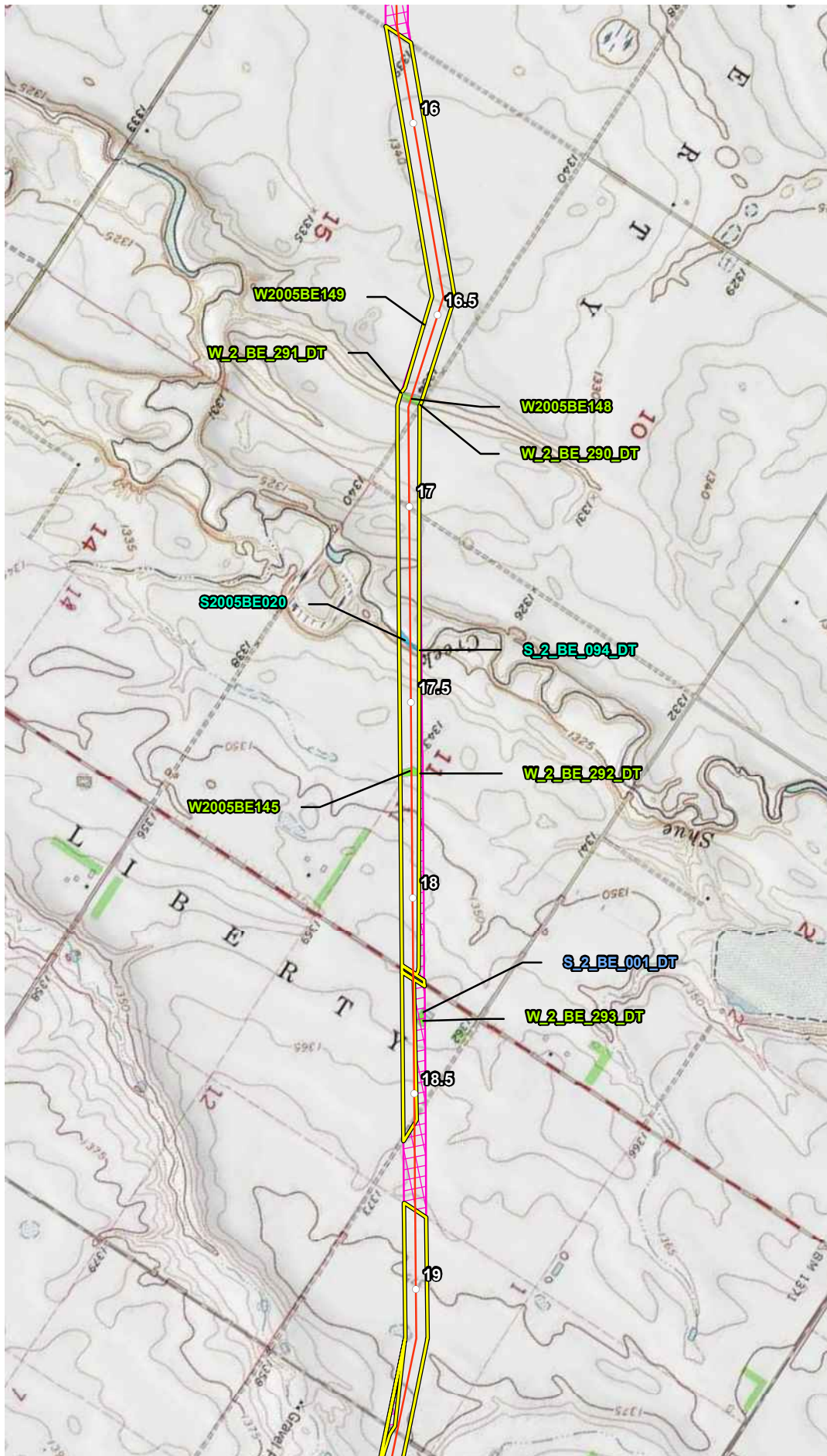
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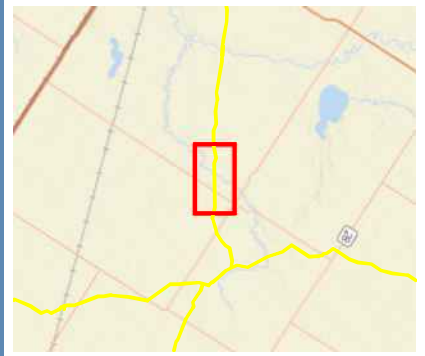
Sheet:
84
Sheet 84 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
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0 1,000 2,000 Feet



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Figure Number:
3

Scale:
Scale: 1:24,000
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Projection:
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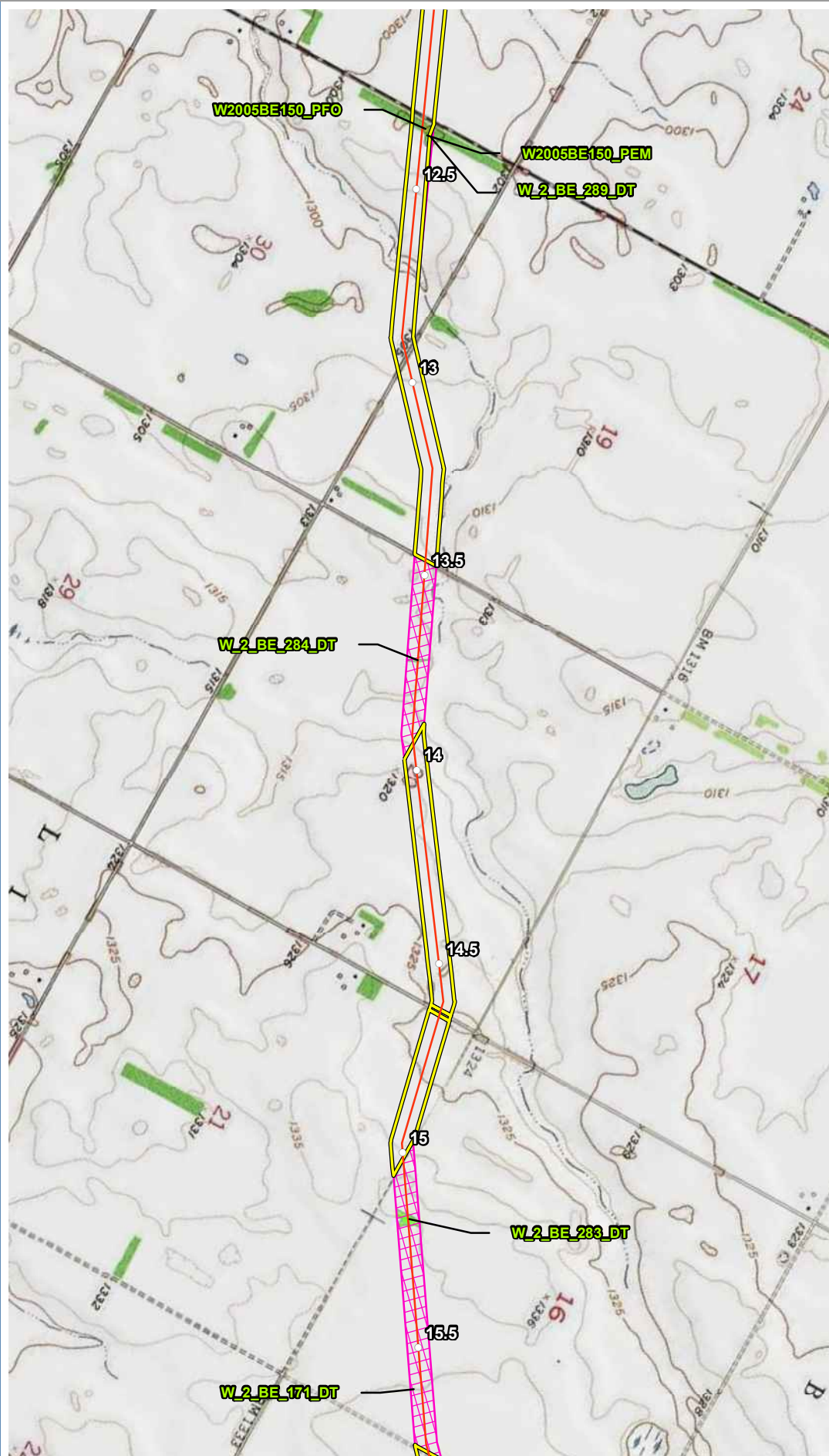
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Sheet 85 of 128

Drawing Number:
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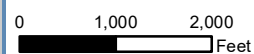


VICINITY MAP



LEGEND

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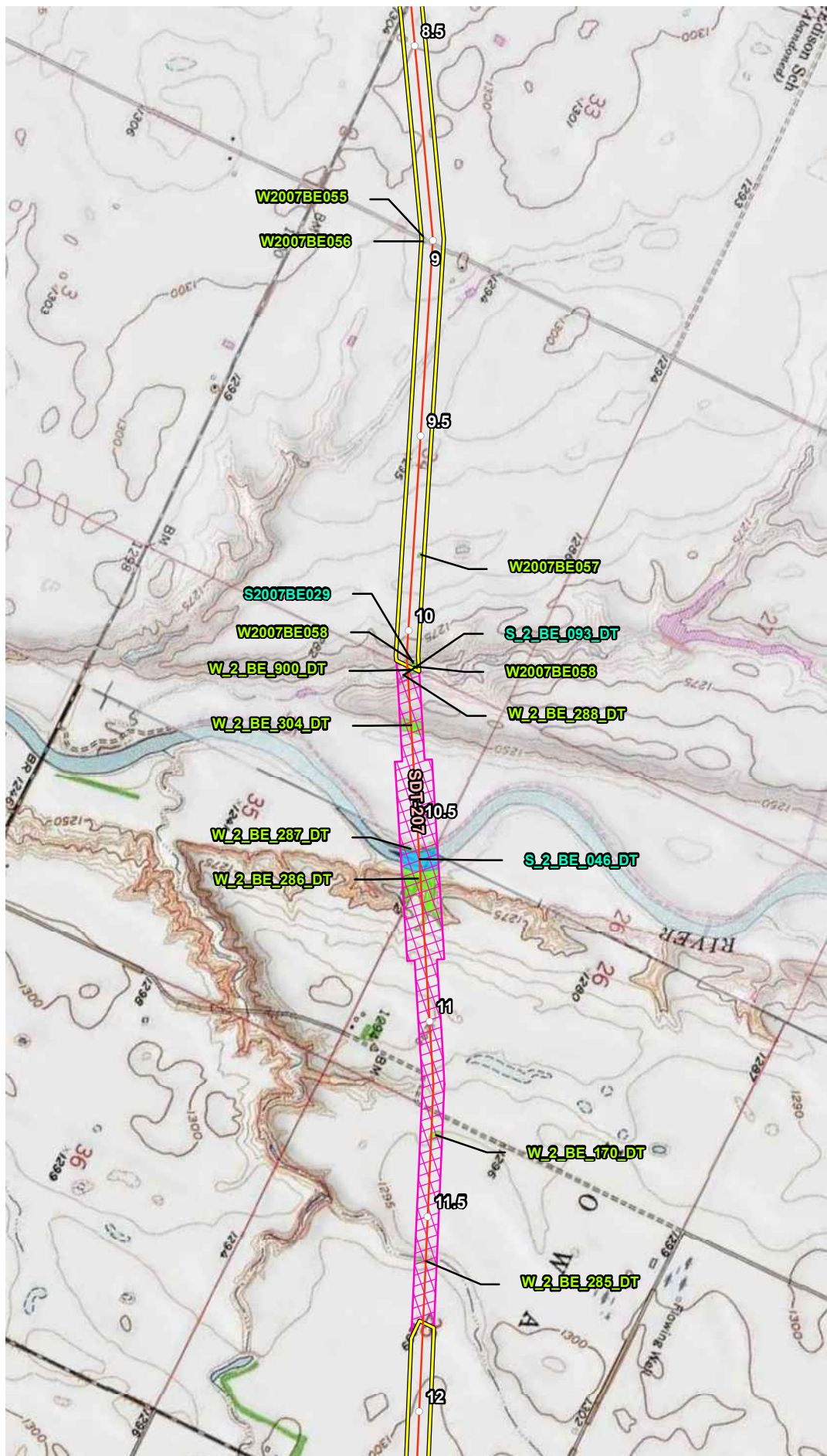
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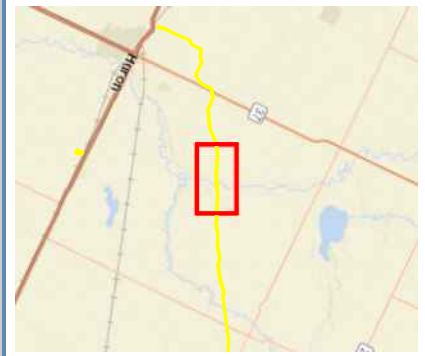
Sheet:
86
Sheet 86 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000
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Scale:
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Projection:
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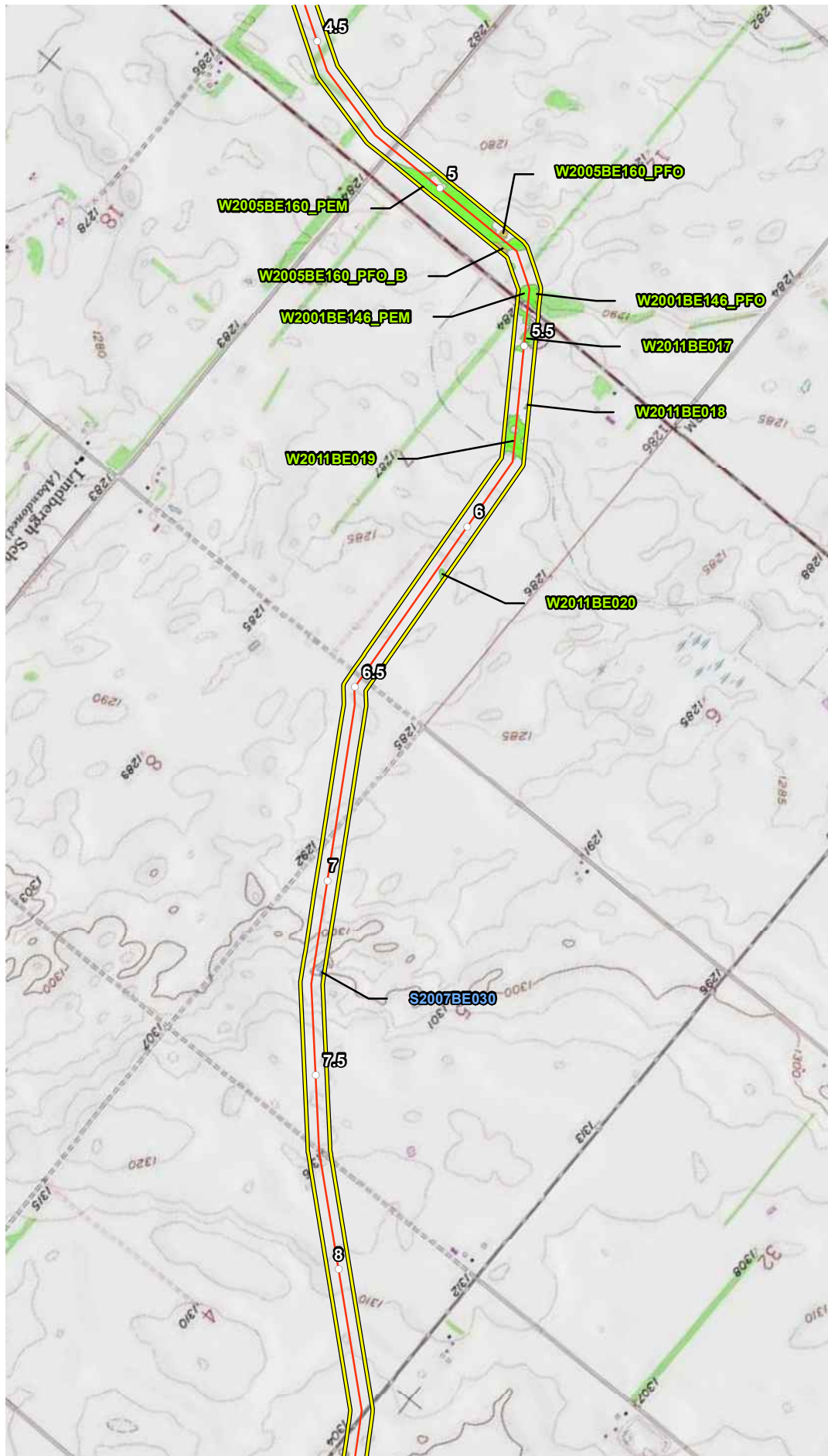
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87

Sheet 87 of 128

Drawing Number:
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TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000
Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
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3

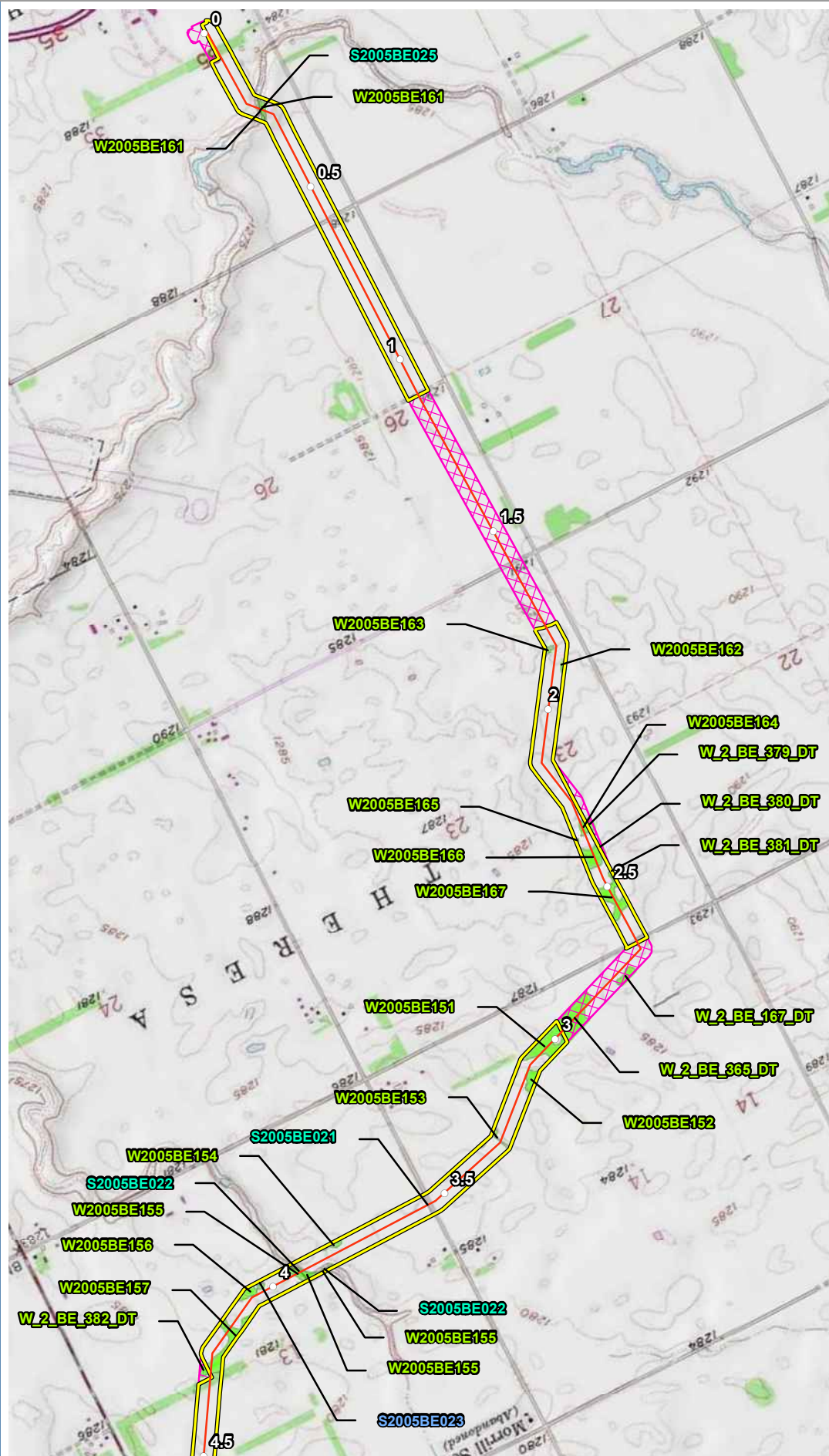
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1 inch = 2,000 feet

Projection:
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NAD83

Sheet:
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Sheet 88 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP

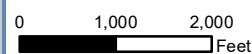


VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▨ Environmental Survey Area
- ▨ Stream
- ▨ Open Water
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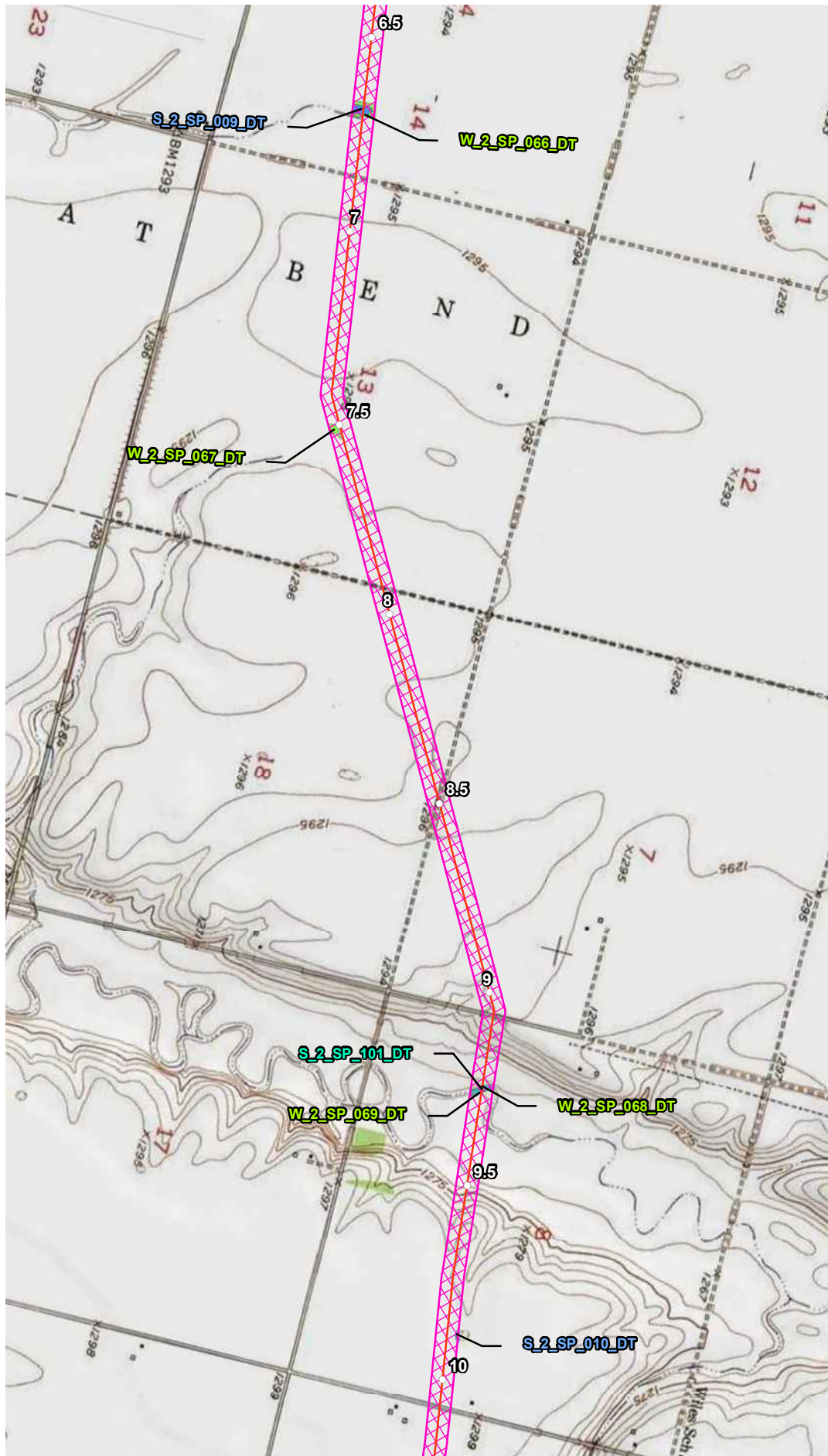
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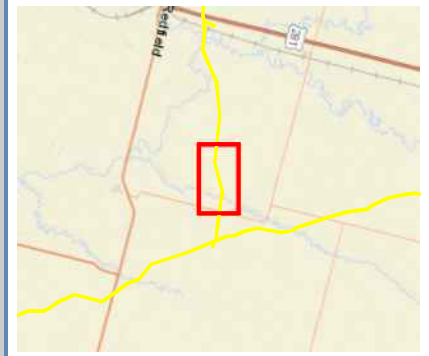
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Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
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0 1,000 2,000 Feet



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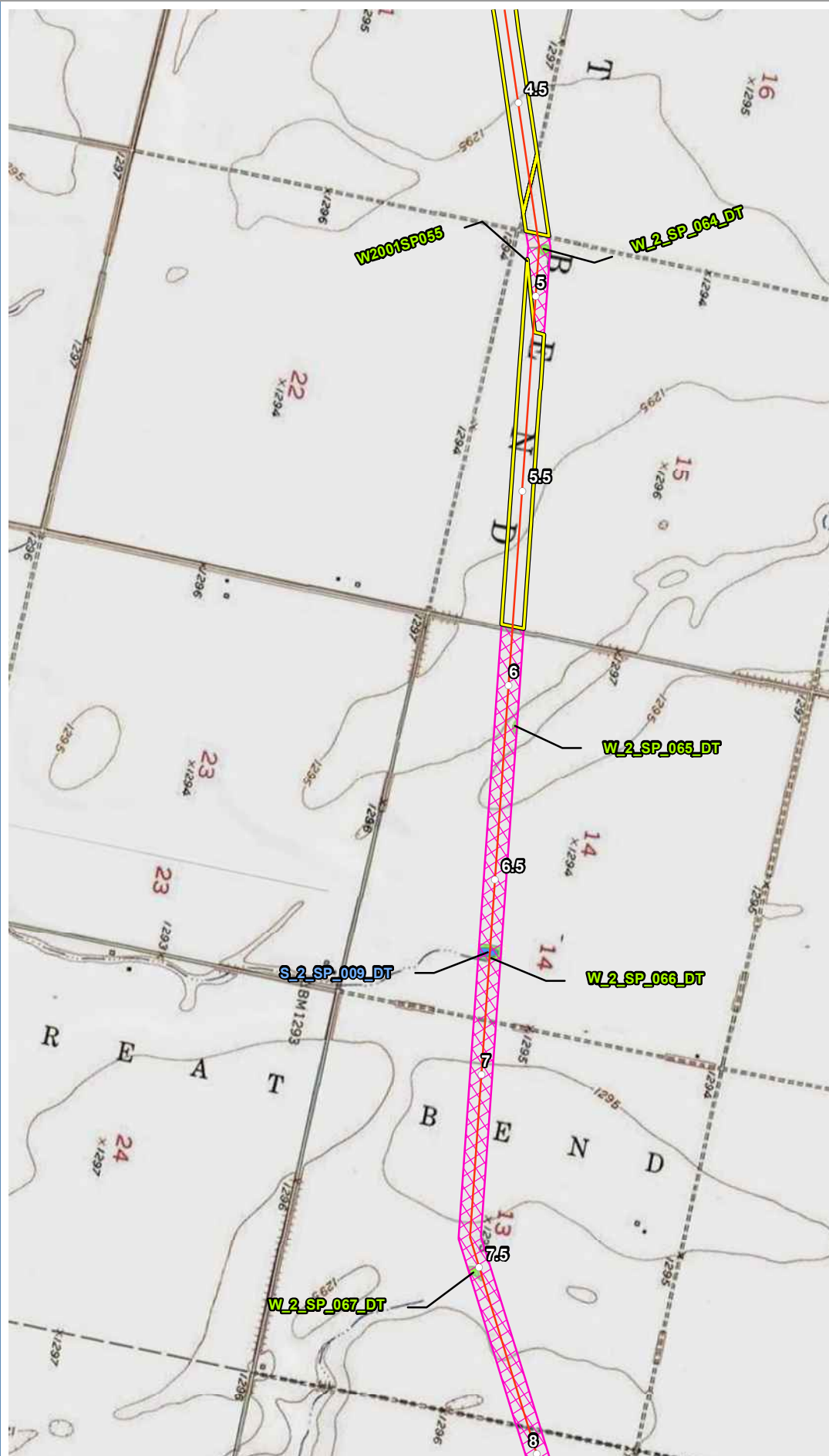
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NAD83

Sheet:
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Sheet 90 of 128

Drawing Number:
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Current Revision

TOPOGRAPHIC MAP

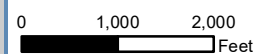


VICINITY MAP



LEGEND

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Scale:
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1 inch = 2,000 feet

Projection:
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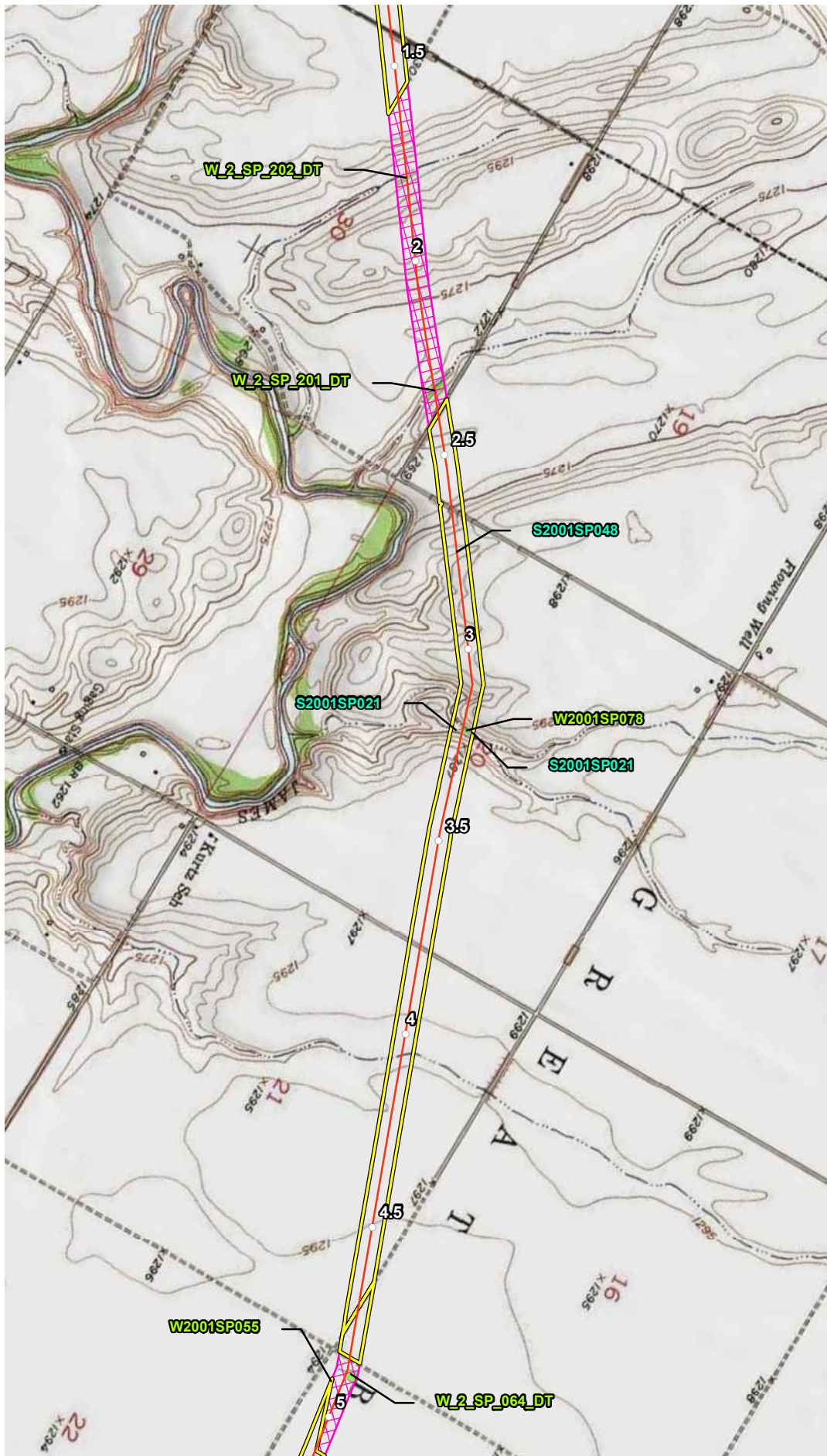
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TOPOGRAPHIC MAP



VICINITY MAP



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Feet



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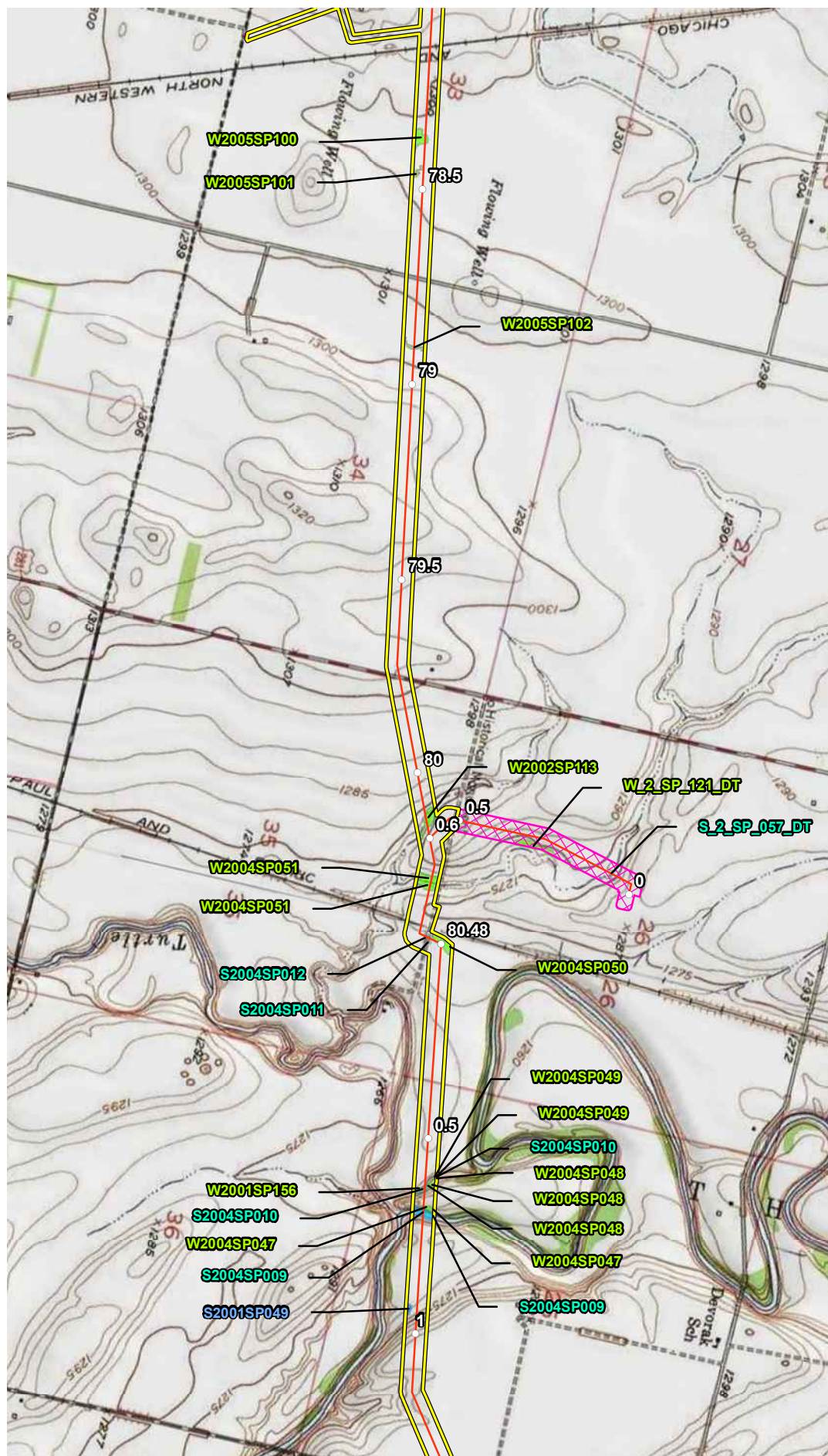
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1 inch = 2,000 feet

Projection:
UTM 14N m
NAD83

Sheet:
92
Sheet 92 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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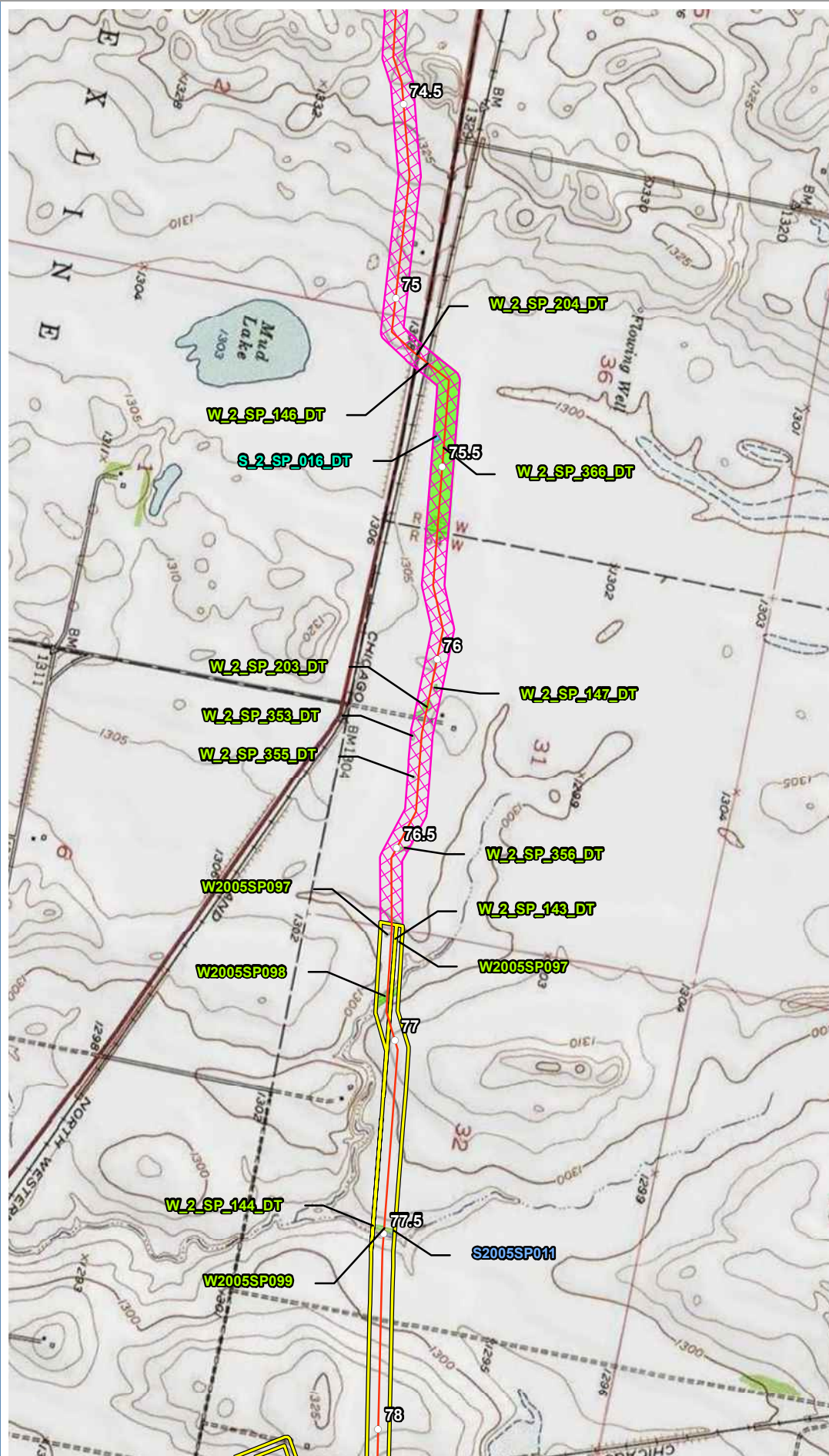
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UTM 14N m
NAD83

Sheet:
93
Sheet 93 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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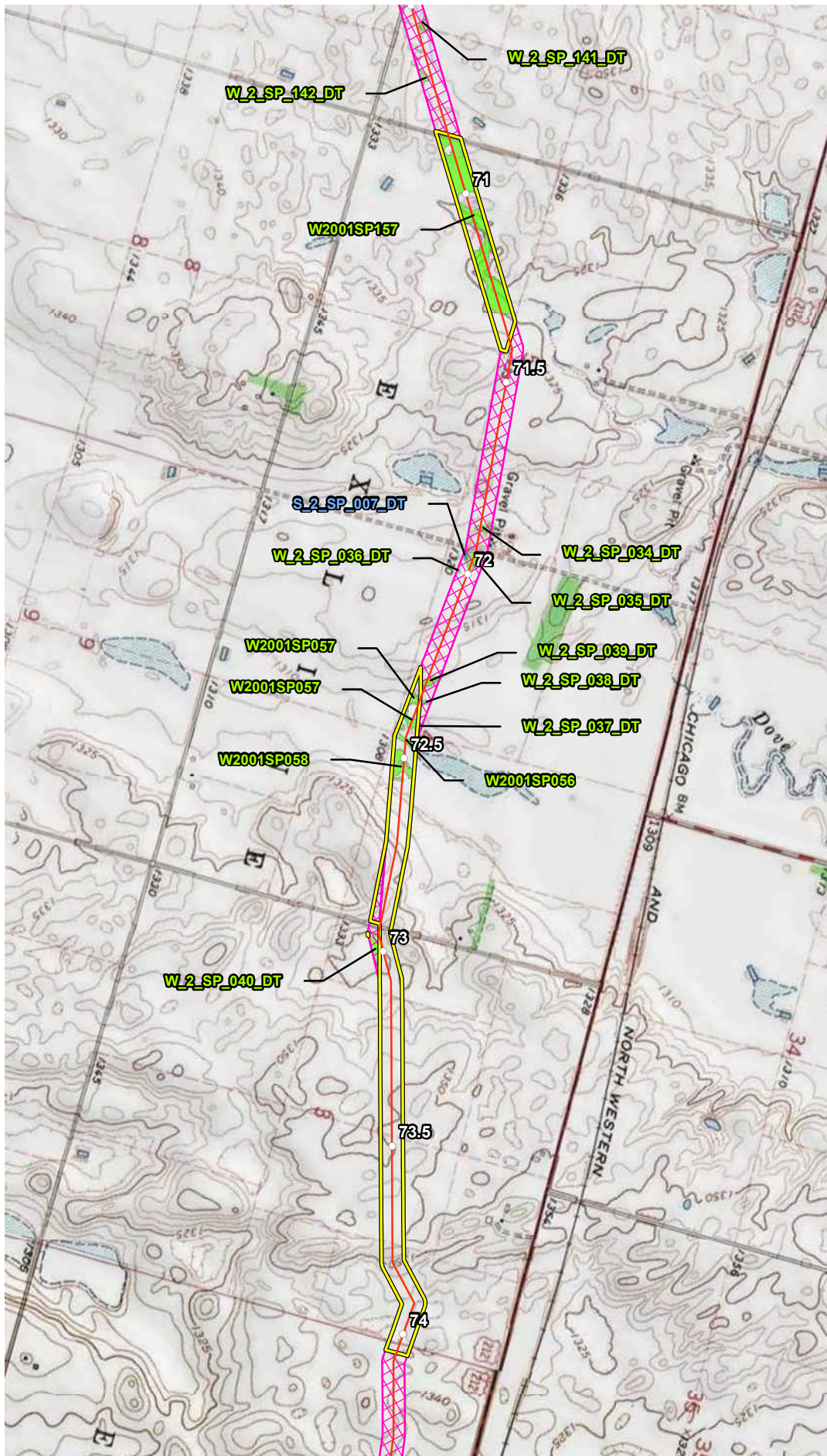
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Sheet 94 of 128

Drawing Number:
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Current Revision

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TOPOGRAPHIC MAP



VICINITY MAP



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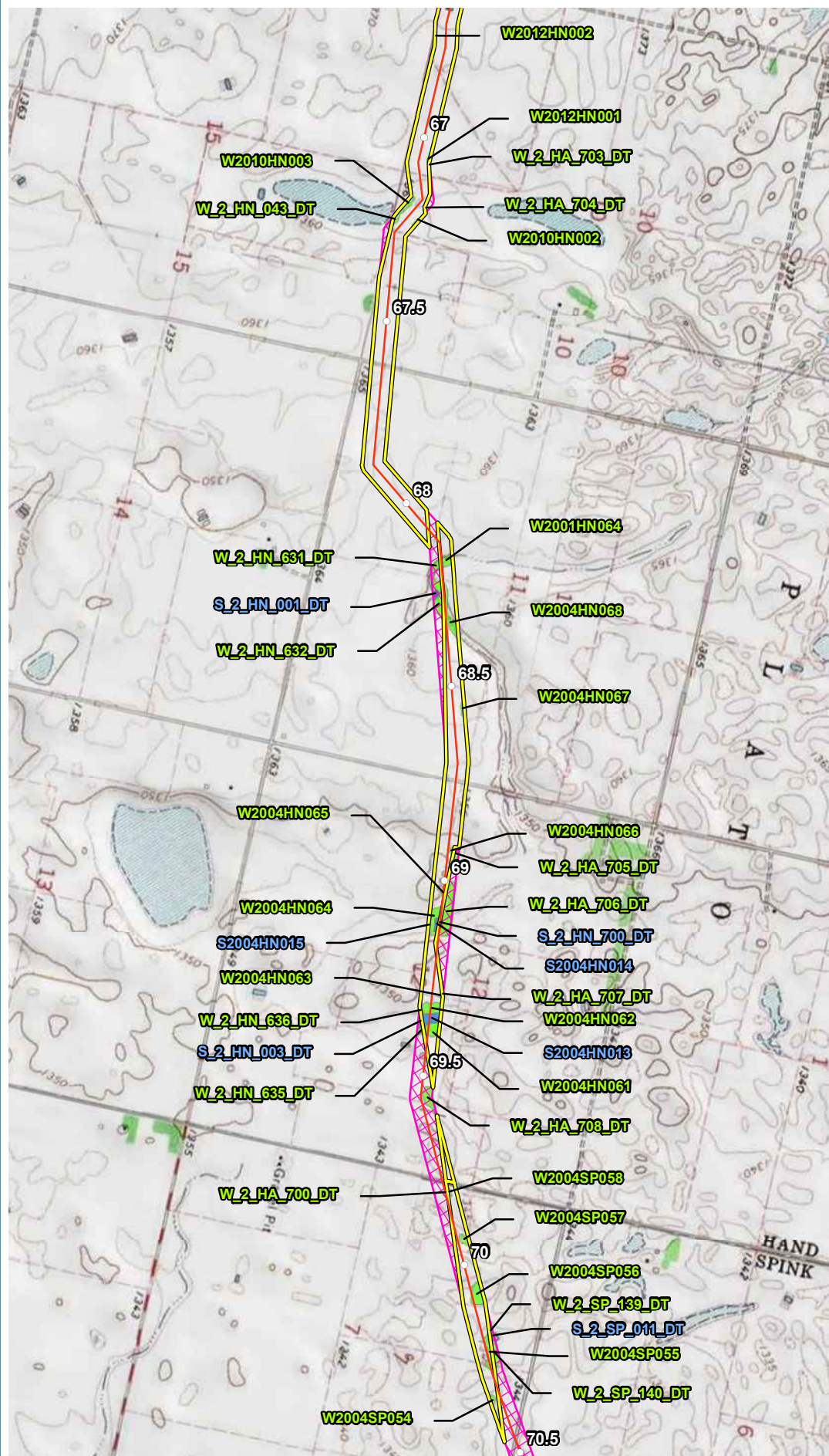
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95

Sheet 95 of 128

Drawing Number:
2001-22-003
Current Revision

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TOPOGRAPHIC MAP

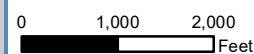


VICINITY MAP



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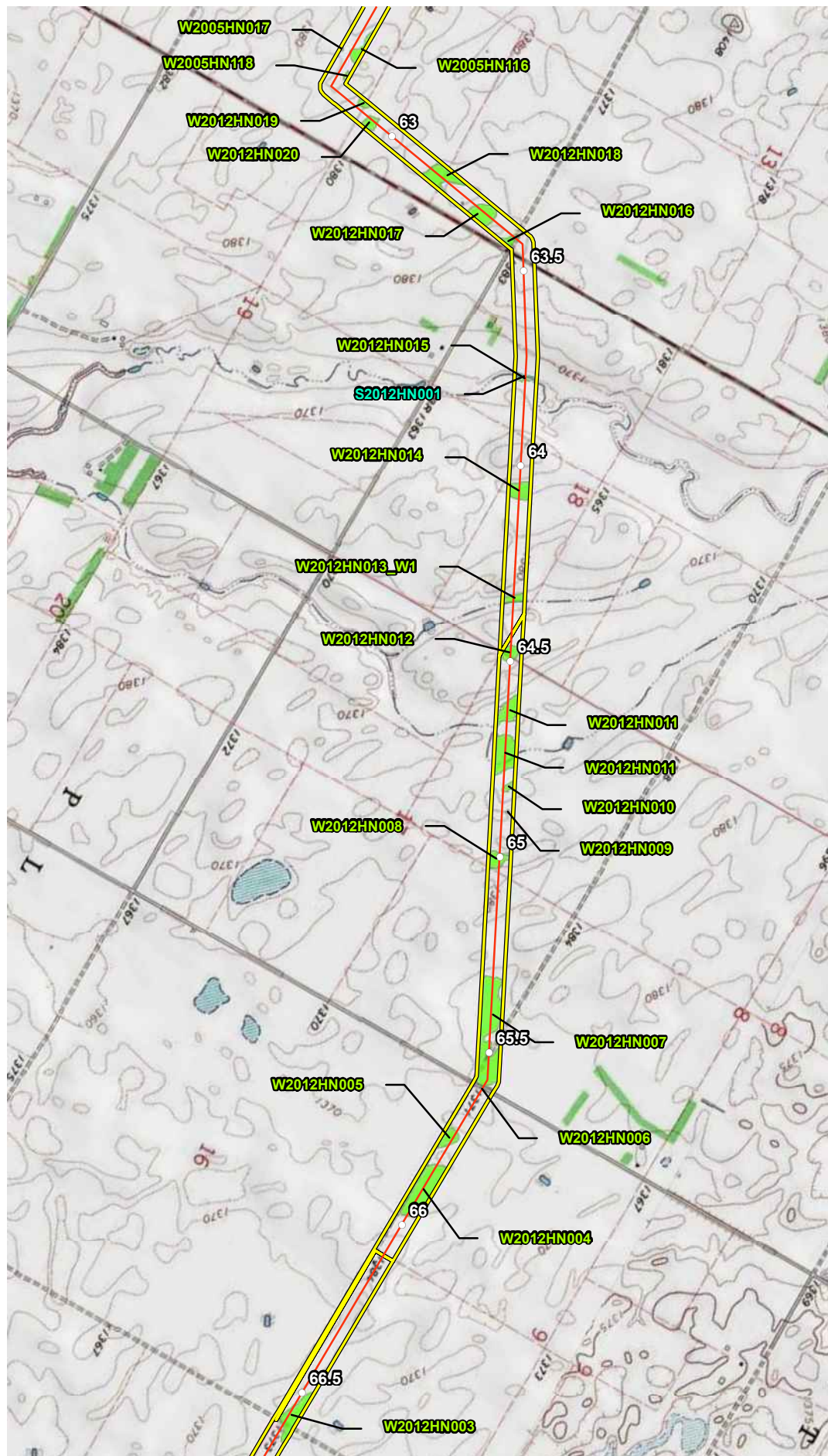
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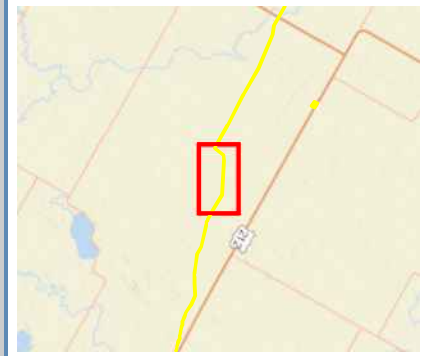
Sheet:
96
Sheet 96 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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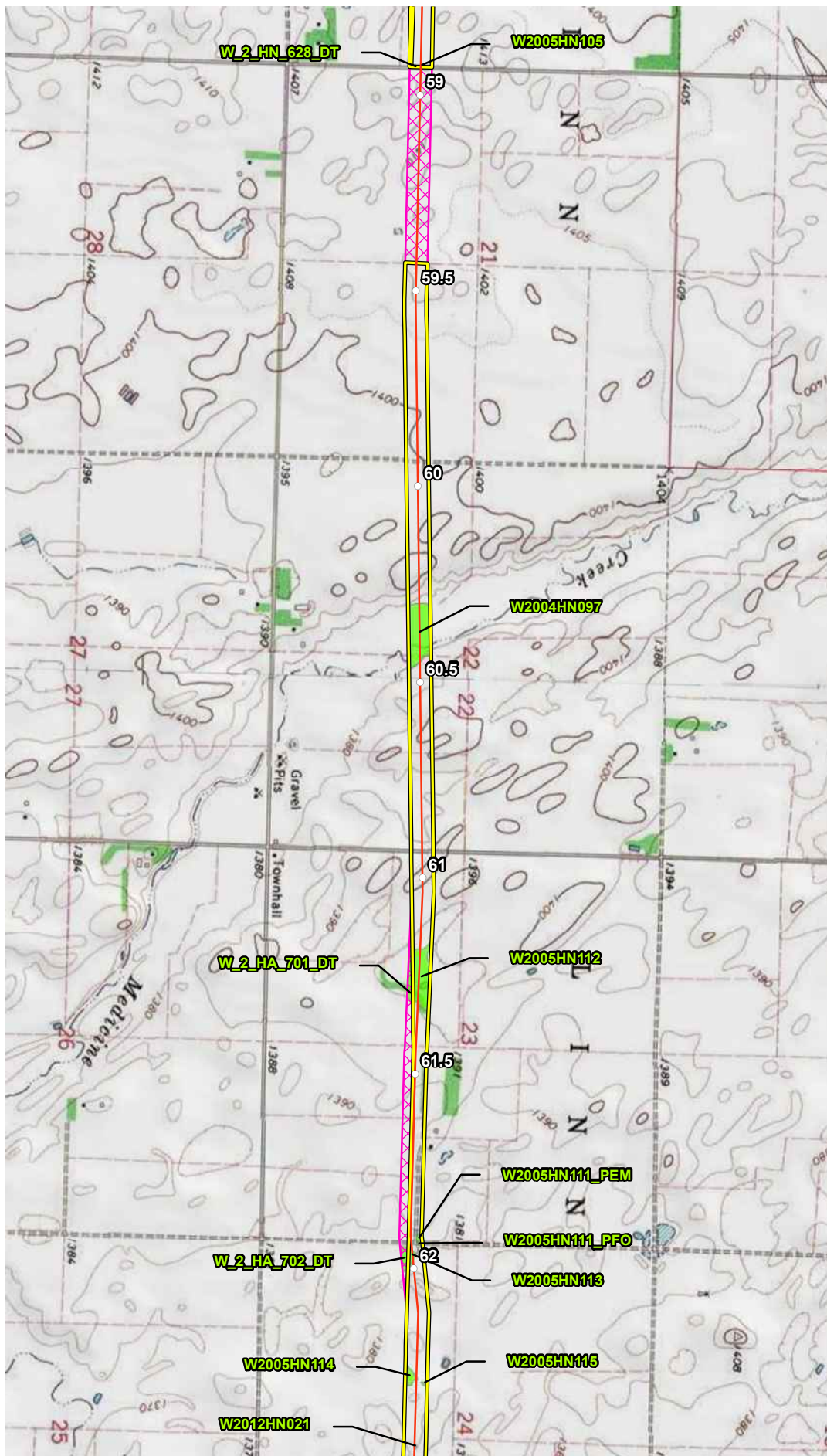
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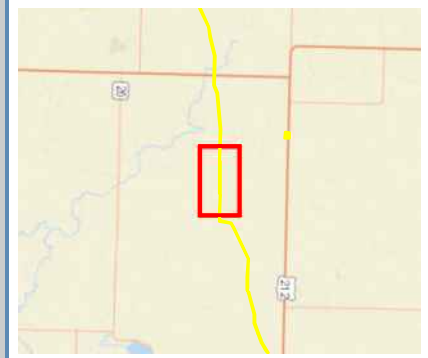
Sheet 97 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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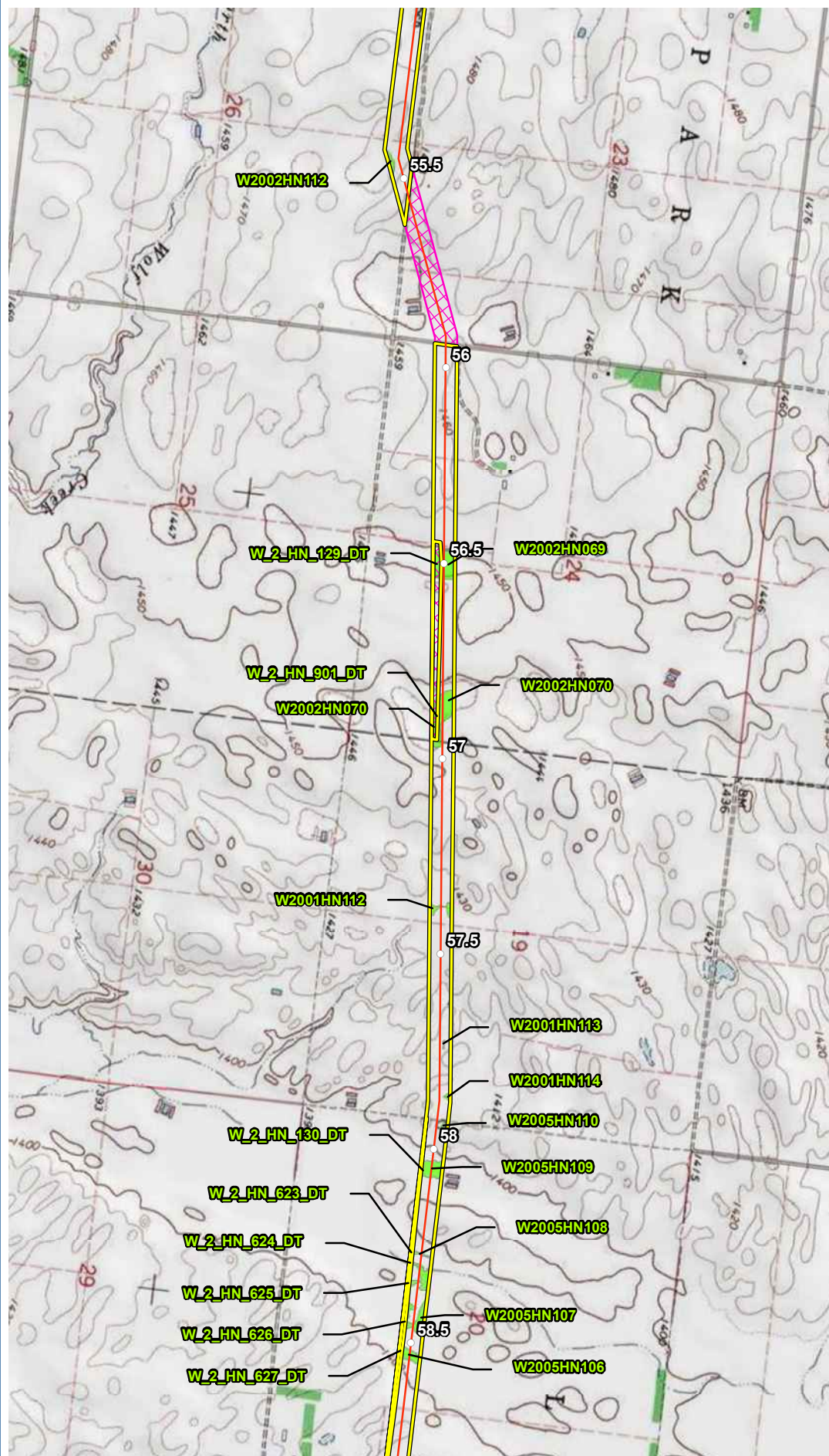
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Sheet 98 of 128

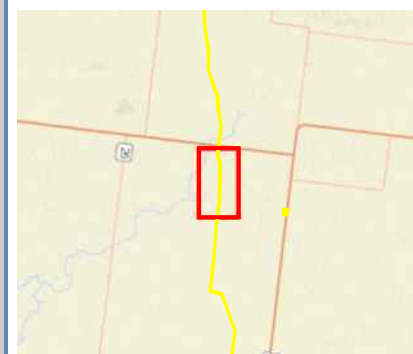
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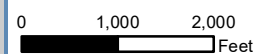


VICINITY MAP



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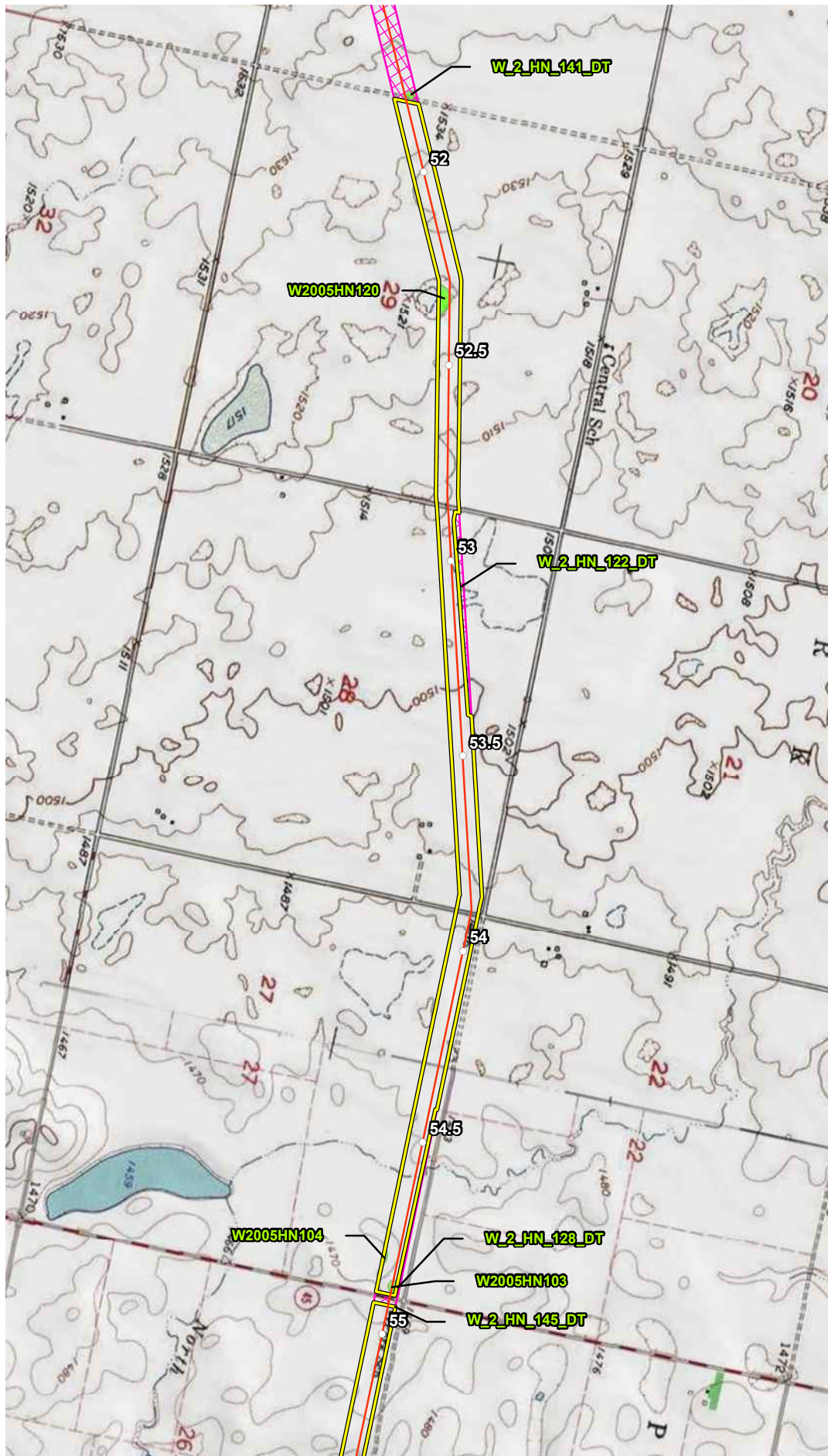
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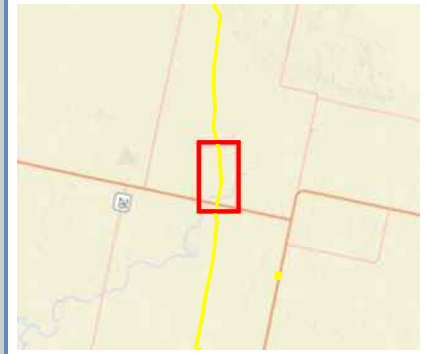
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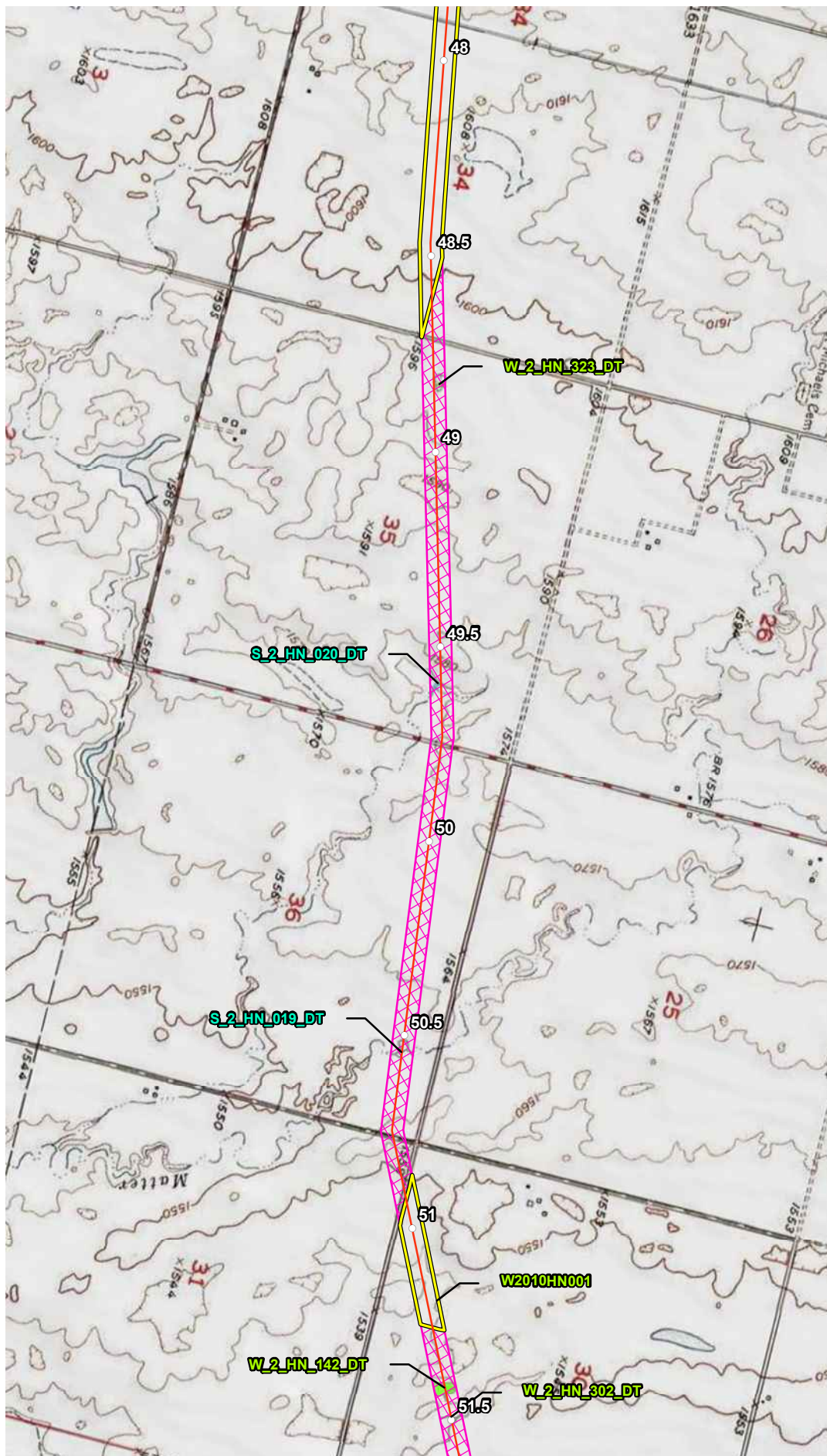
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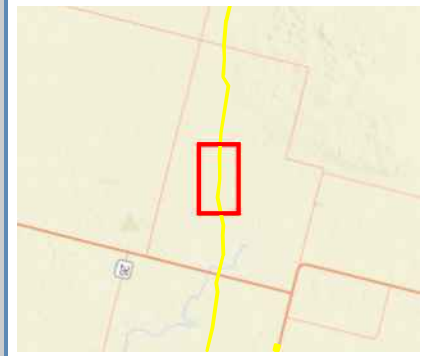
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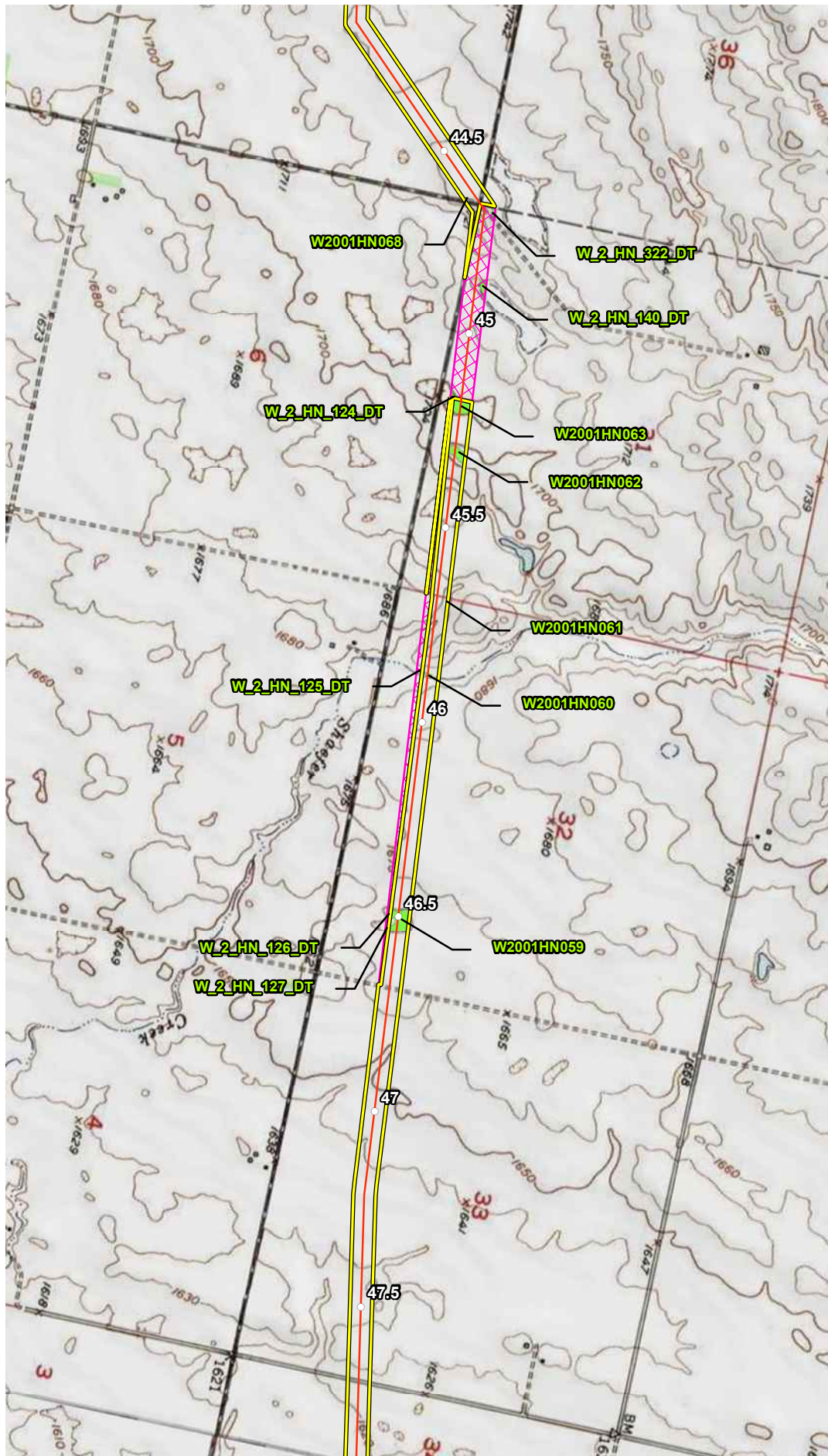
Sheet:

101
Sheet 101 of 128

Drawing Number:

2001-22-003
Current Revision

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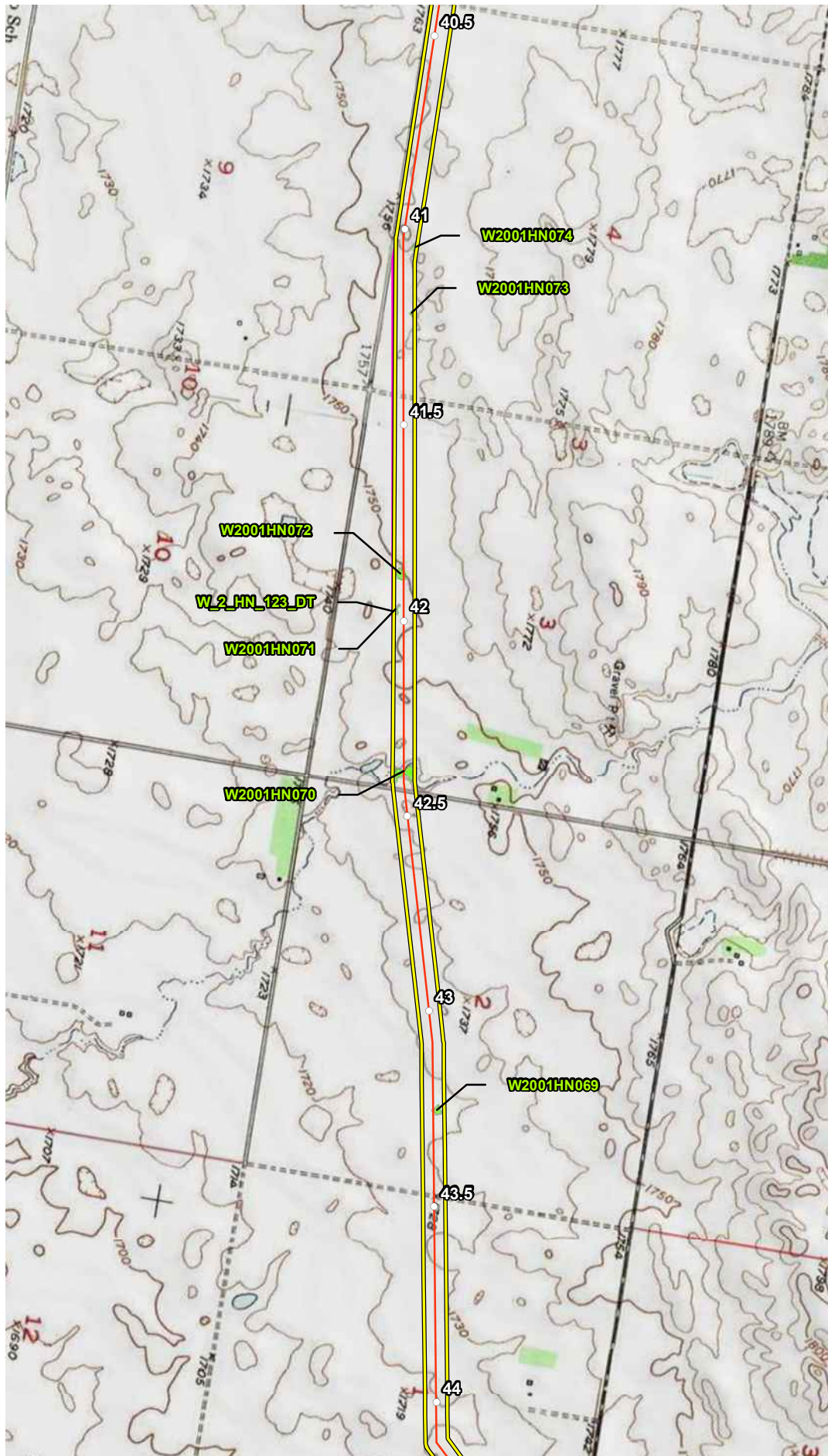
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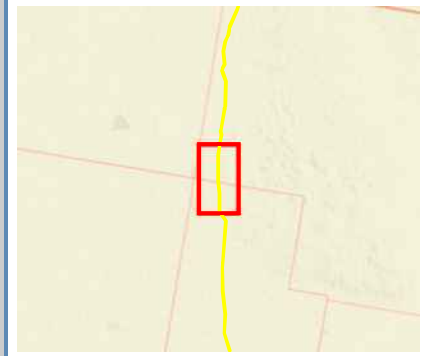
Sheet:
102
Sheet 102 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000 Feet



REVISIONS

Date: 2021-12-15	Revised by: AB	Checked by: AB
1A - Revision		
Revision description		
Date: YYYY-MM-DD	Revised by: TBD	Checked by: TBD
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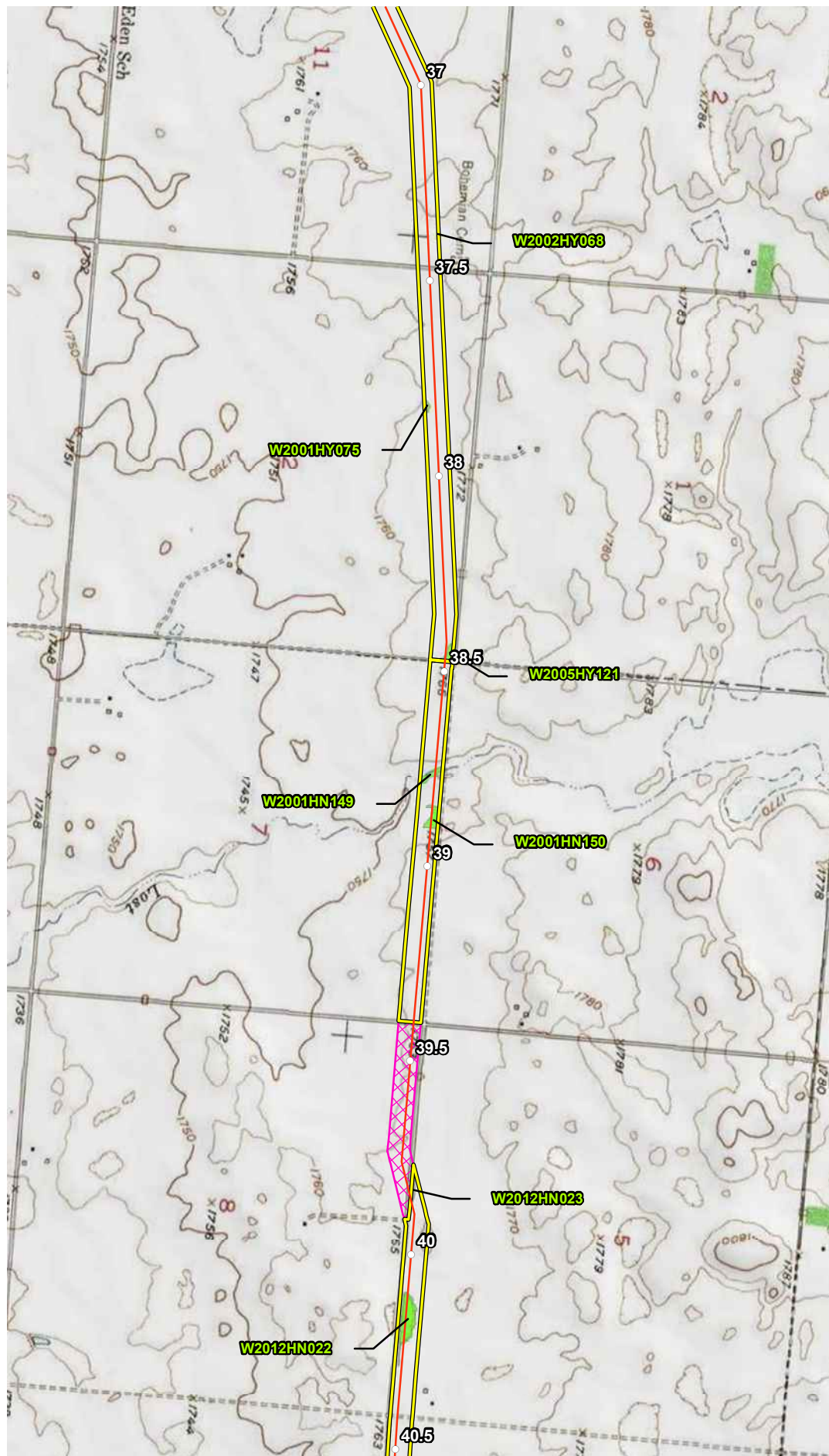
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 1 inch = 2,000 feet

Projection:
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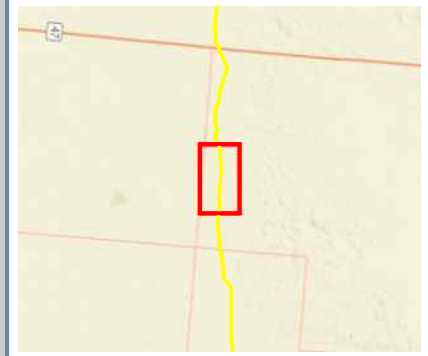
Sheet:
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 Sheet 103 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
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- PEM Wetland
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0 1,000 2,000
Feet



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Figure Number:

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Scale:

Scale: 1:24,000
1 inch = 2,000 feet

Projection:

UTM 14N m
NAD83

Sheet:

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Drawing Number:

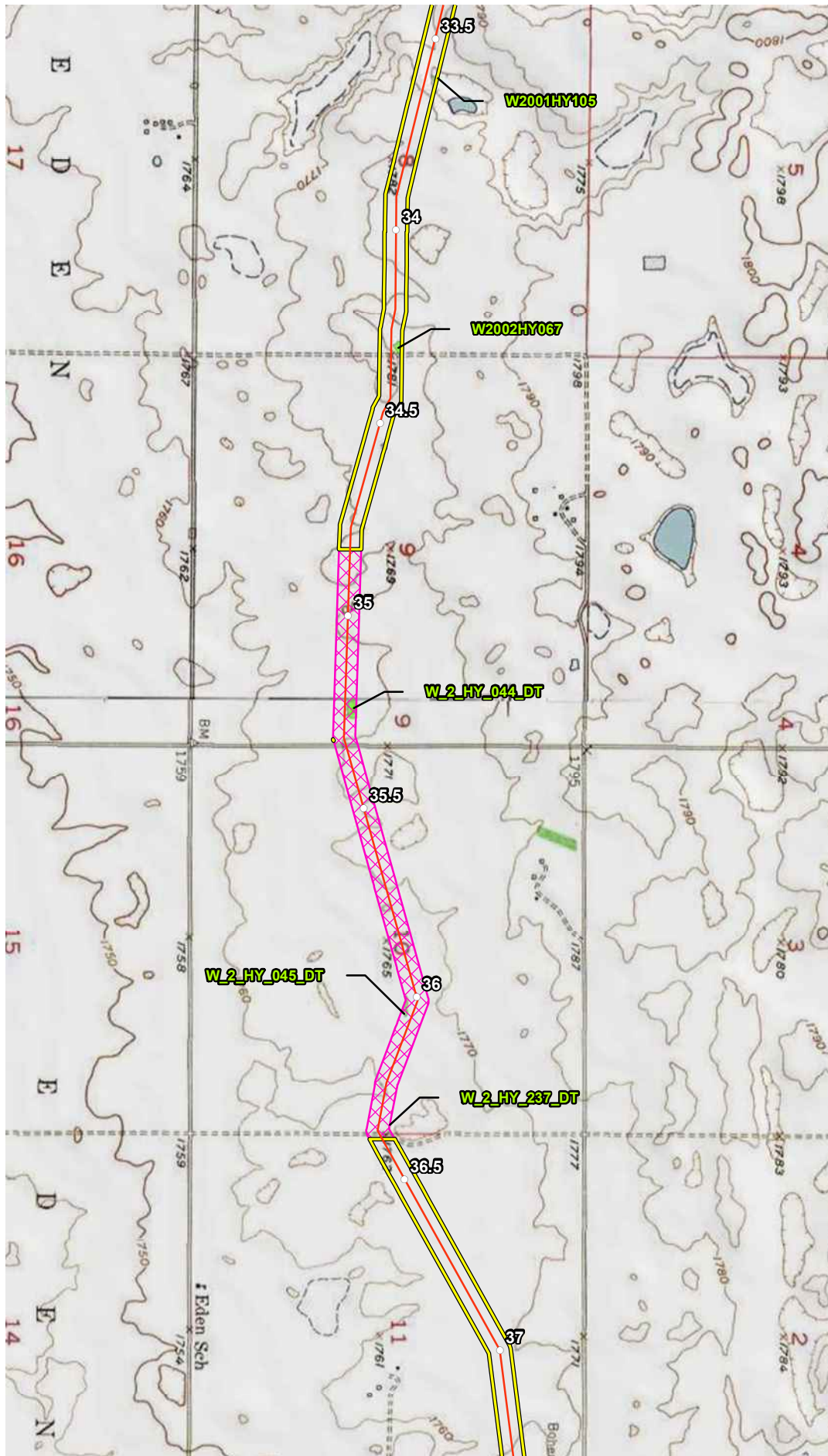
2001-22-003

Sheet 104 of 128

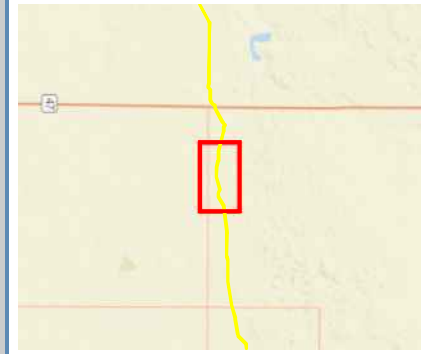
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TOPOGRAPHIC MAP



VICINITY MAP



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Scale:

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Projection:

UTM 14N m
NAD83

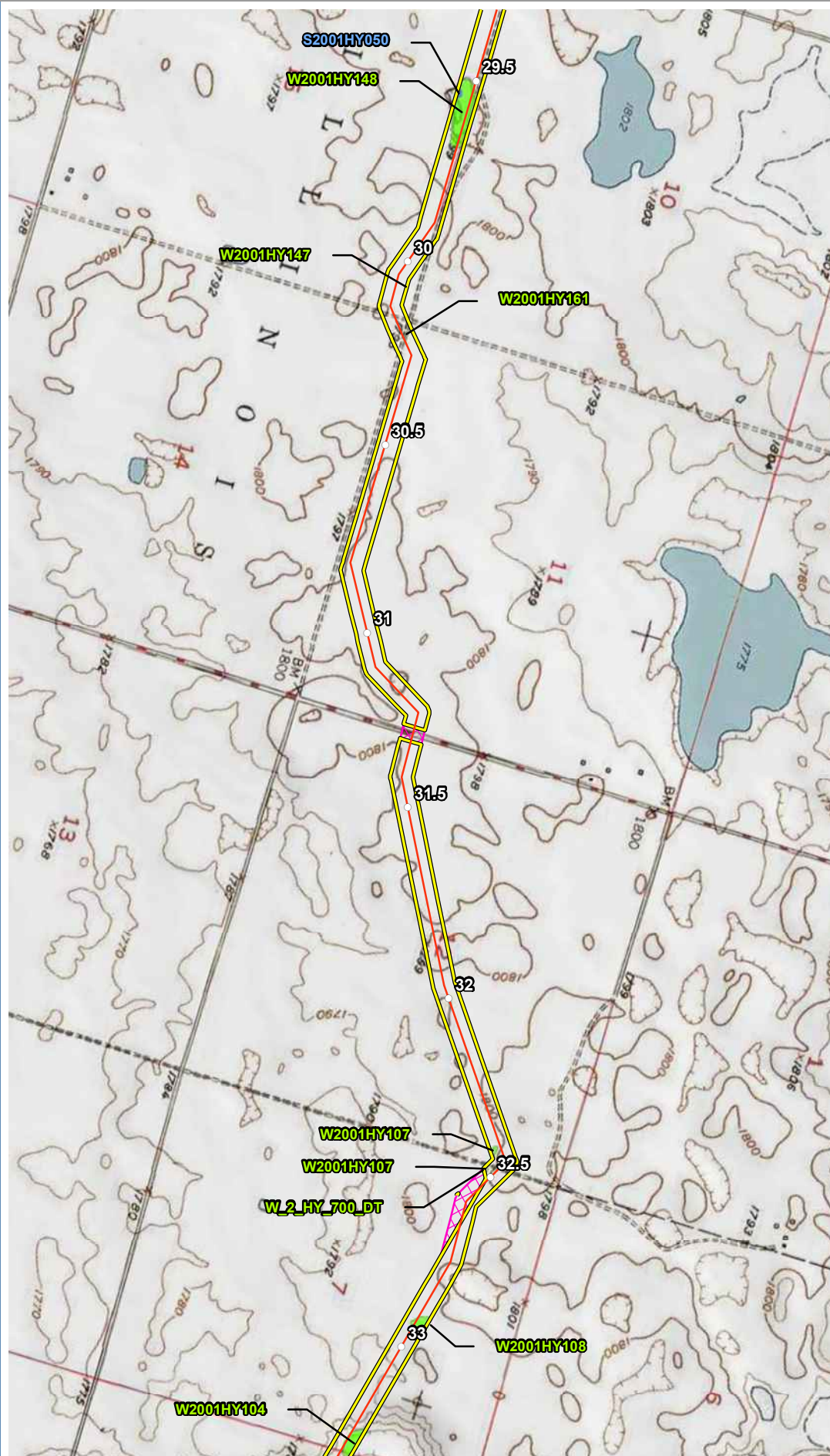
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Sheet 105 of 128

Drawing Number:

2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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Projection:

UTM 14N m
NAD83

Sheet:

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Sheet 106 of 128

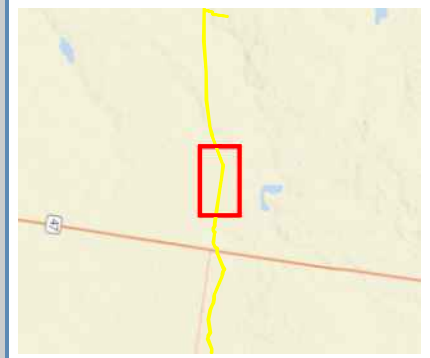
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TOPOGRAPHIC MAP



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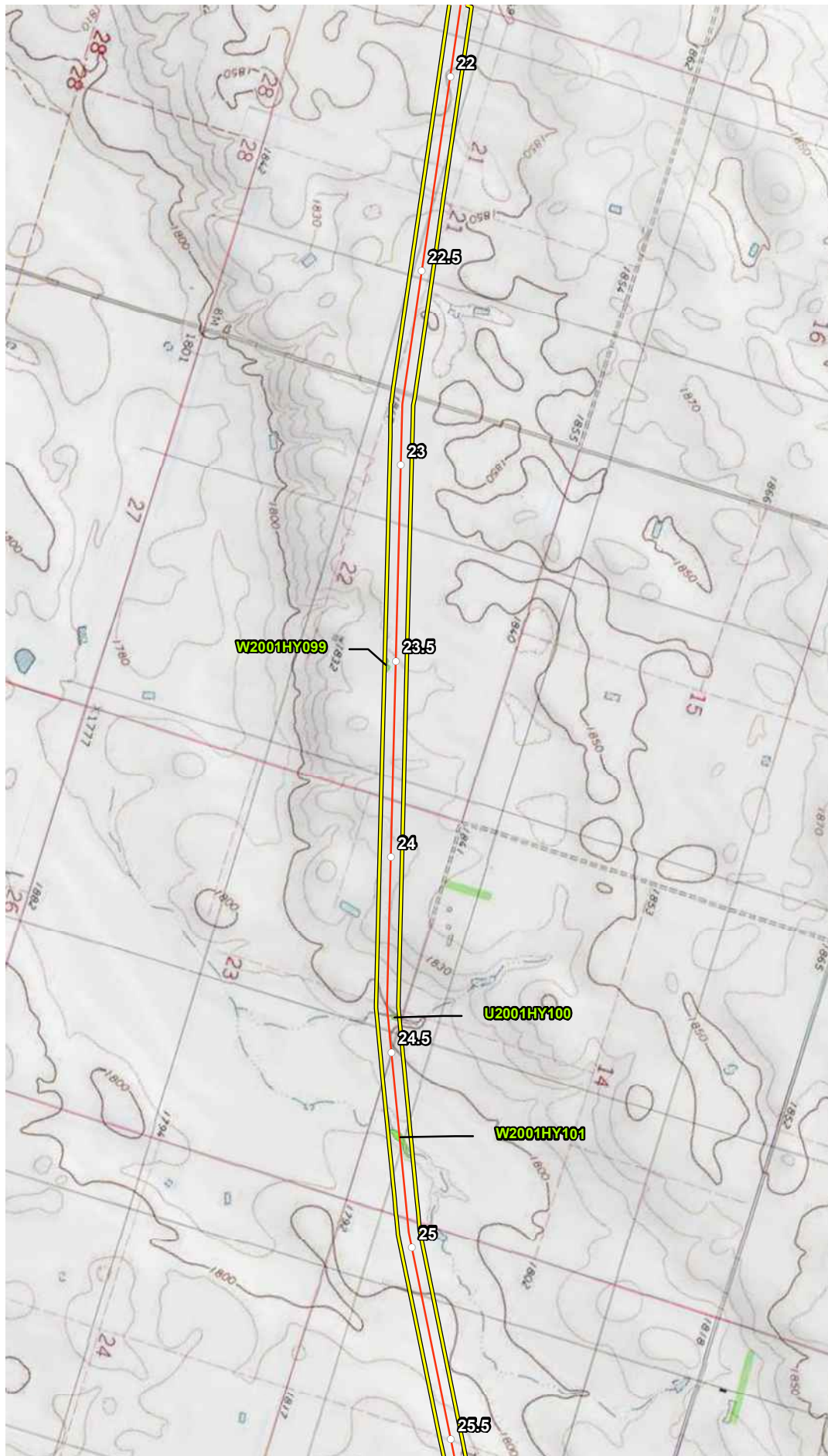
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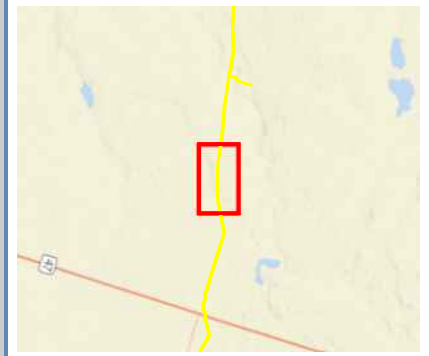
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107
Sheet 107 of 128

Drawing Number:
2001-22-003
Current Revision

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VICINITY MAP



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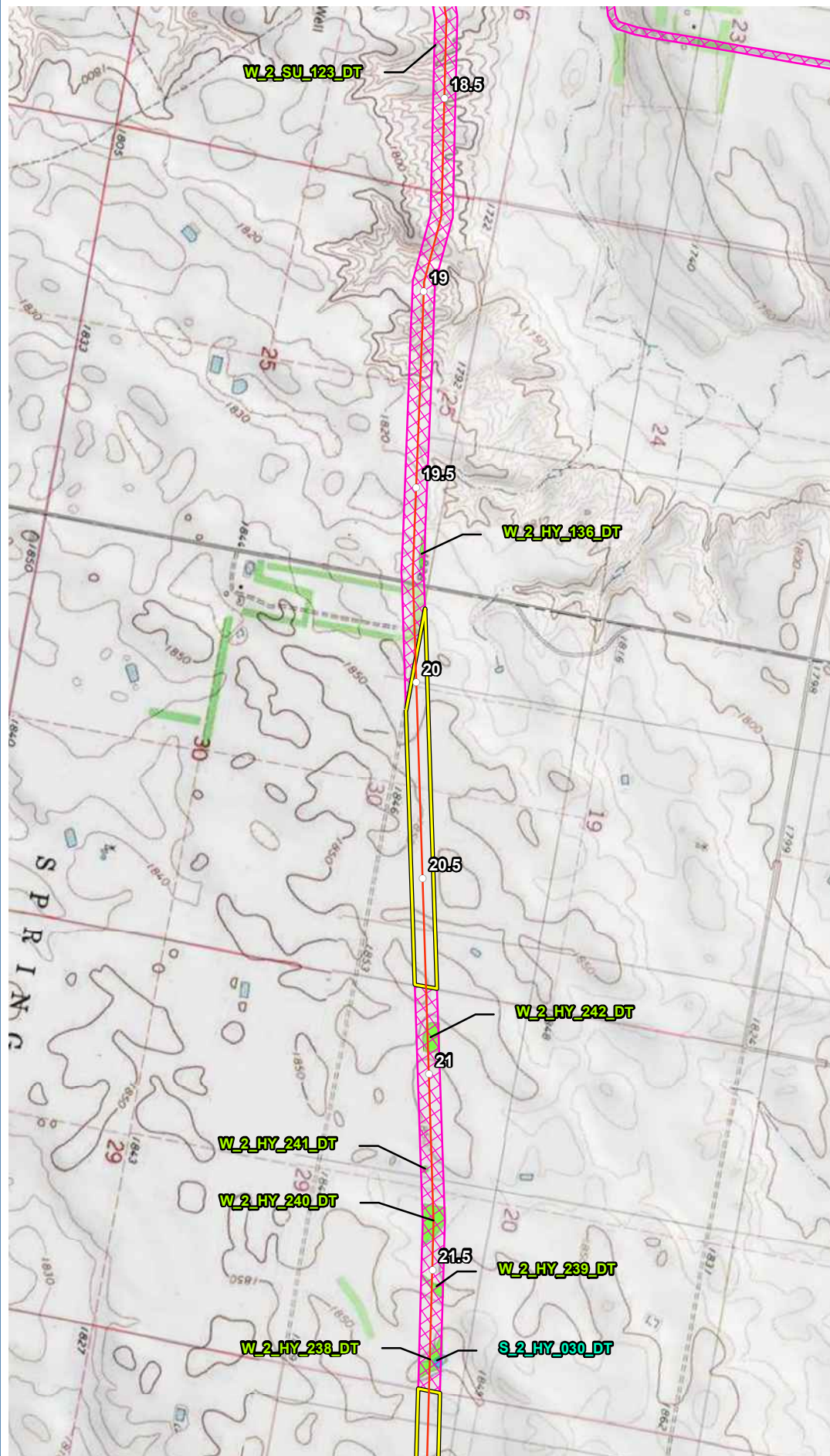
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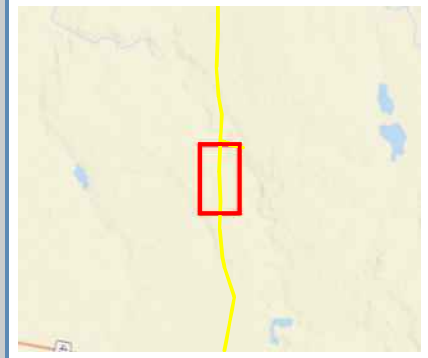
Sheet:
 108
 Sheet 108 of 128

Drawing Number:
 2001-22-003
 Current Revision

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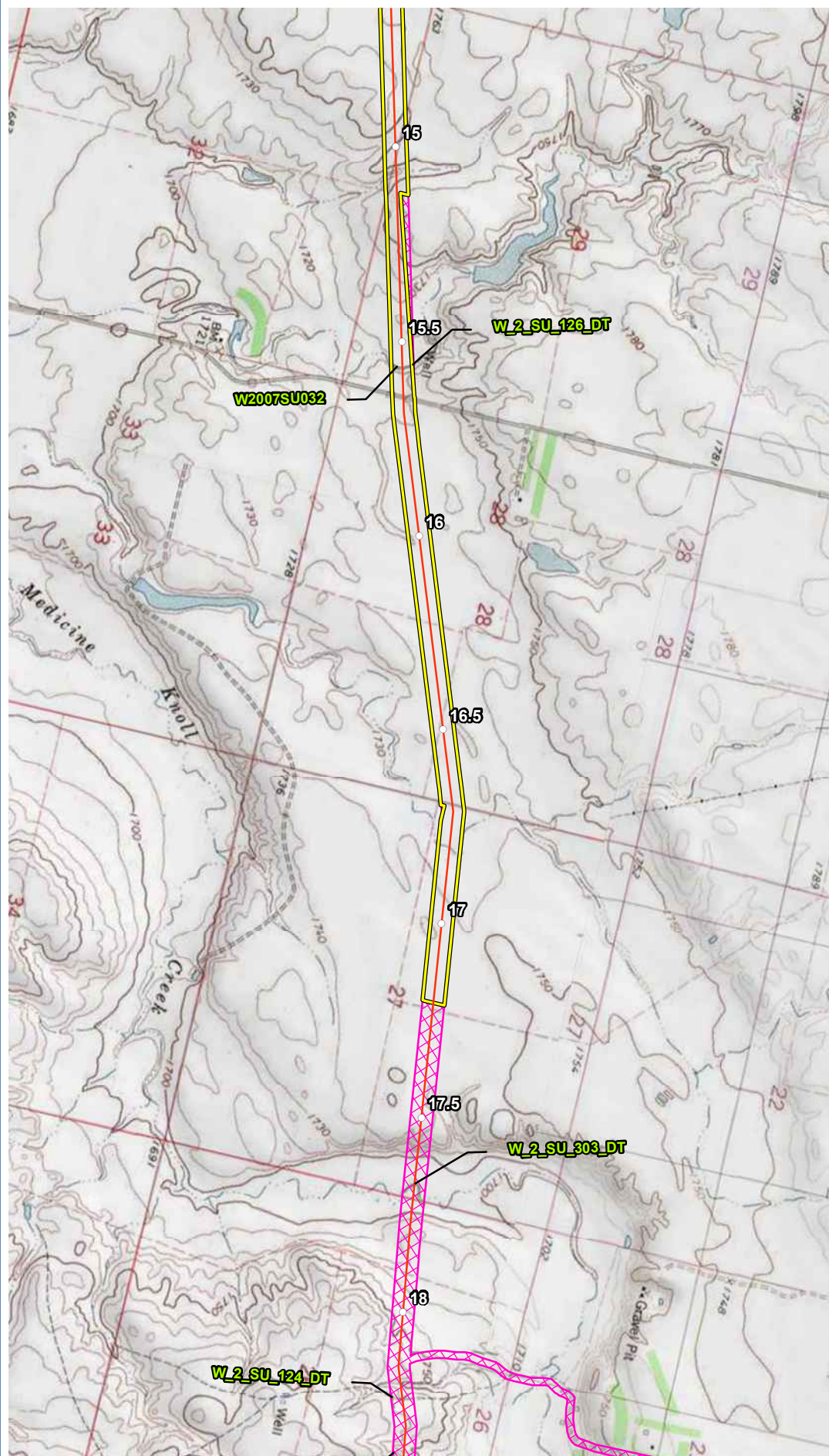
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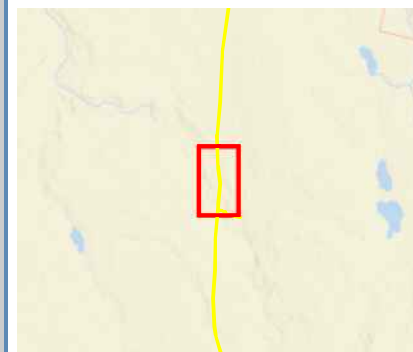
Sheet:
109
Sheet 109 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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3

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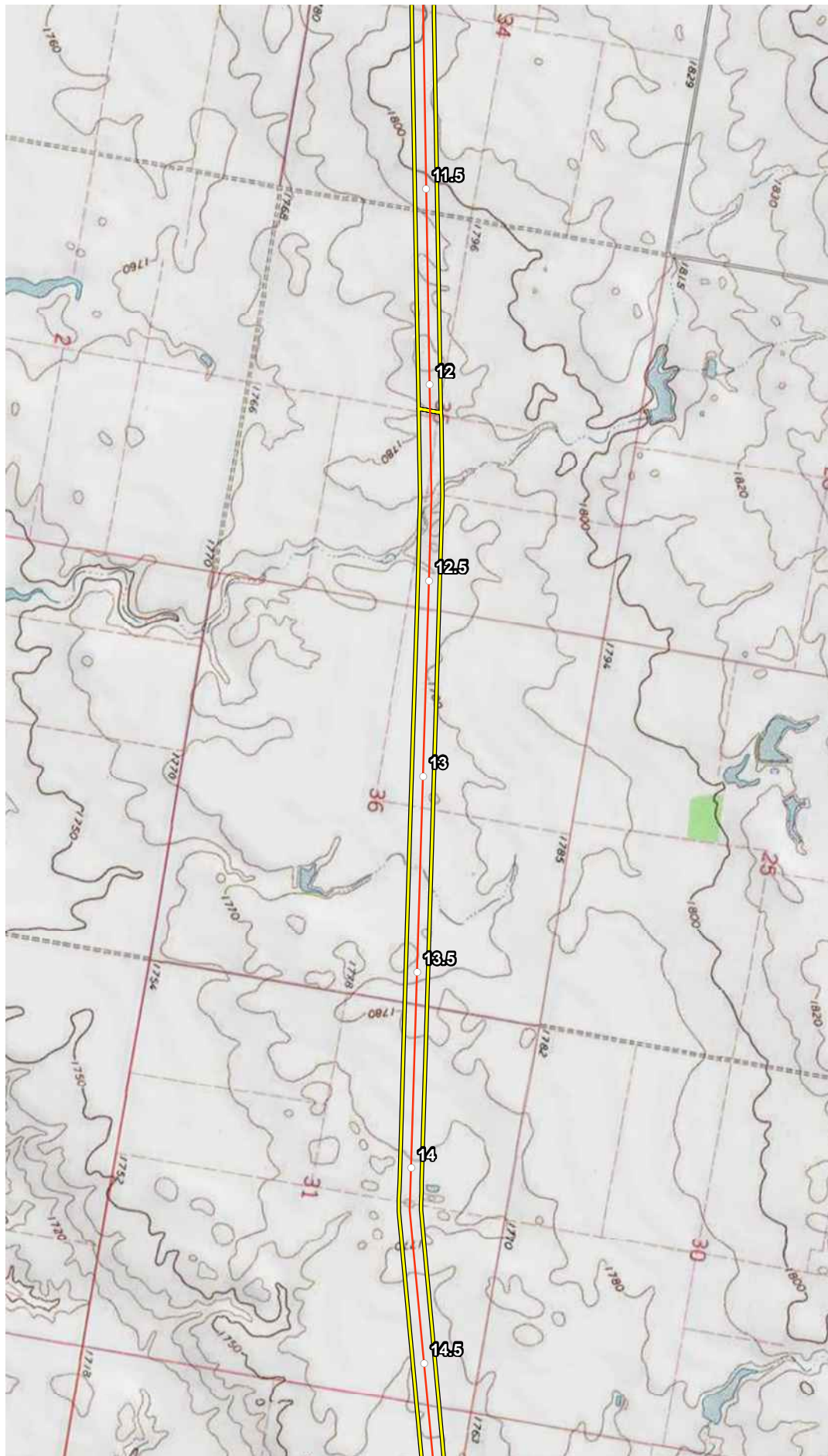
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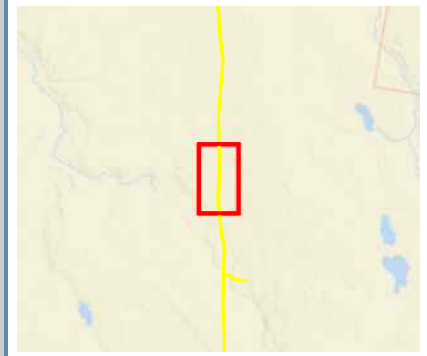
Sheet 110 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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NAD83

Sheet:

111

Drawing Number:

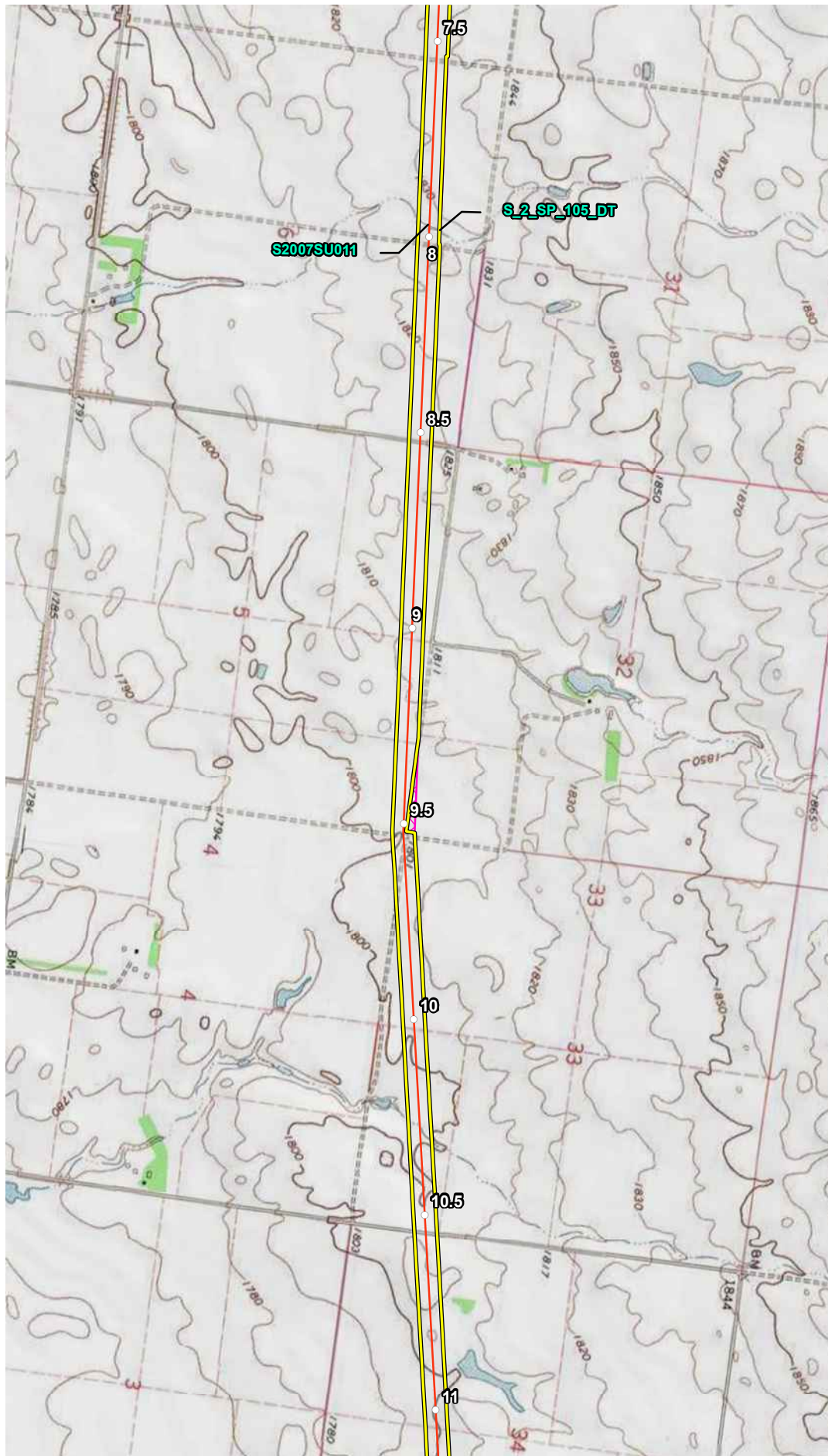
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Sheet 111 of 128

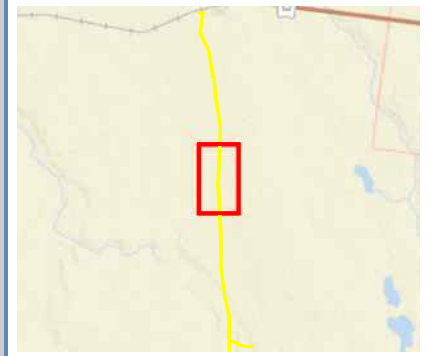
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VICINITY MAP



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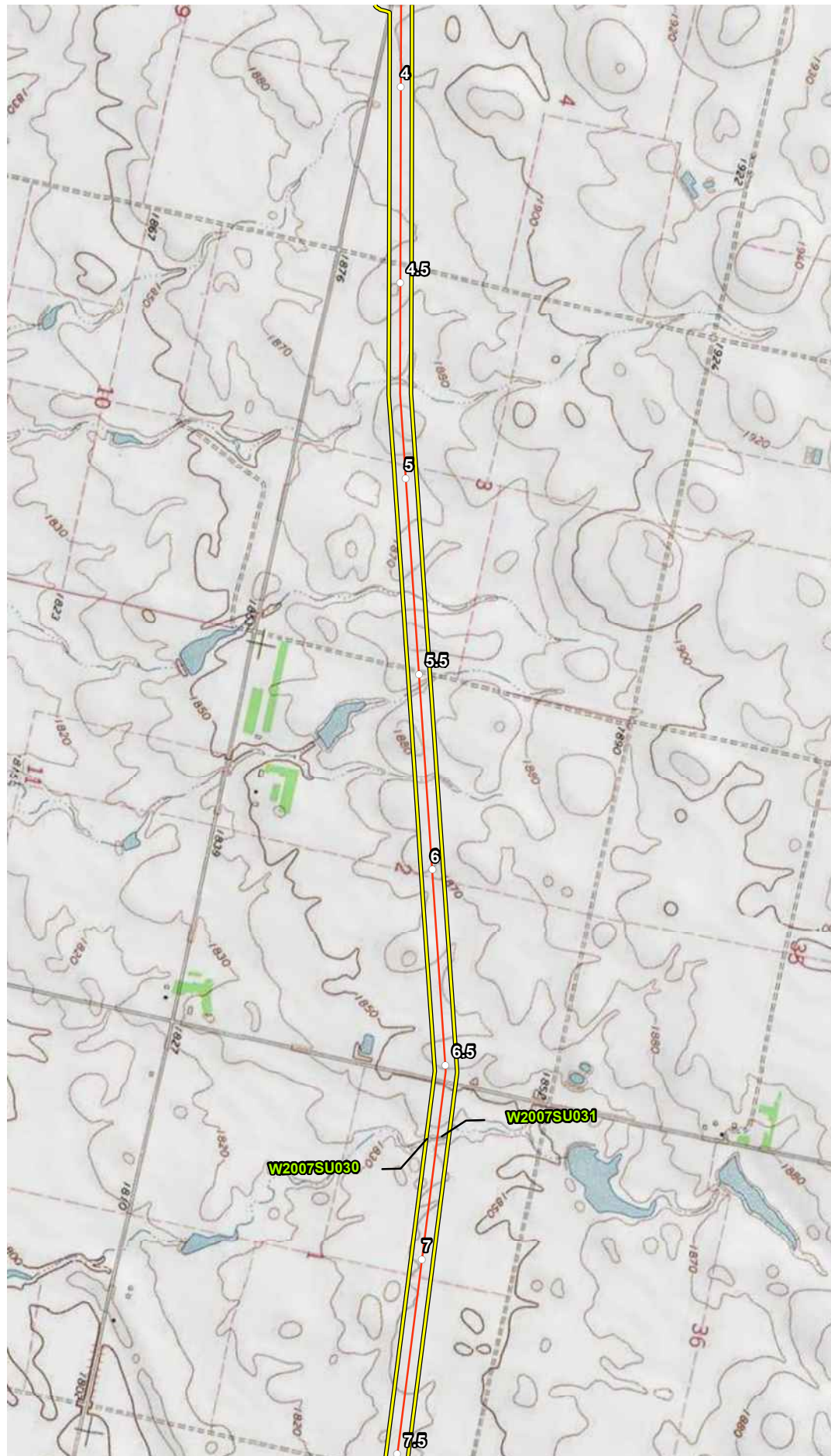
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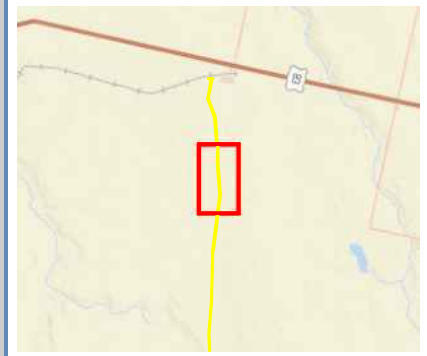
Sheet:
 112
 Sheet 112 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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0 1,000 2,000 Feet



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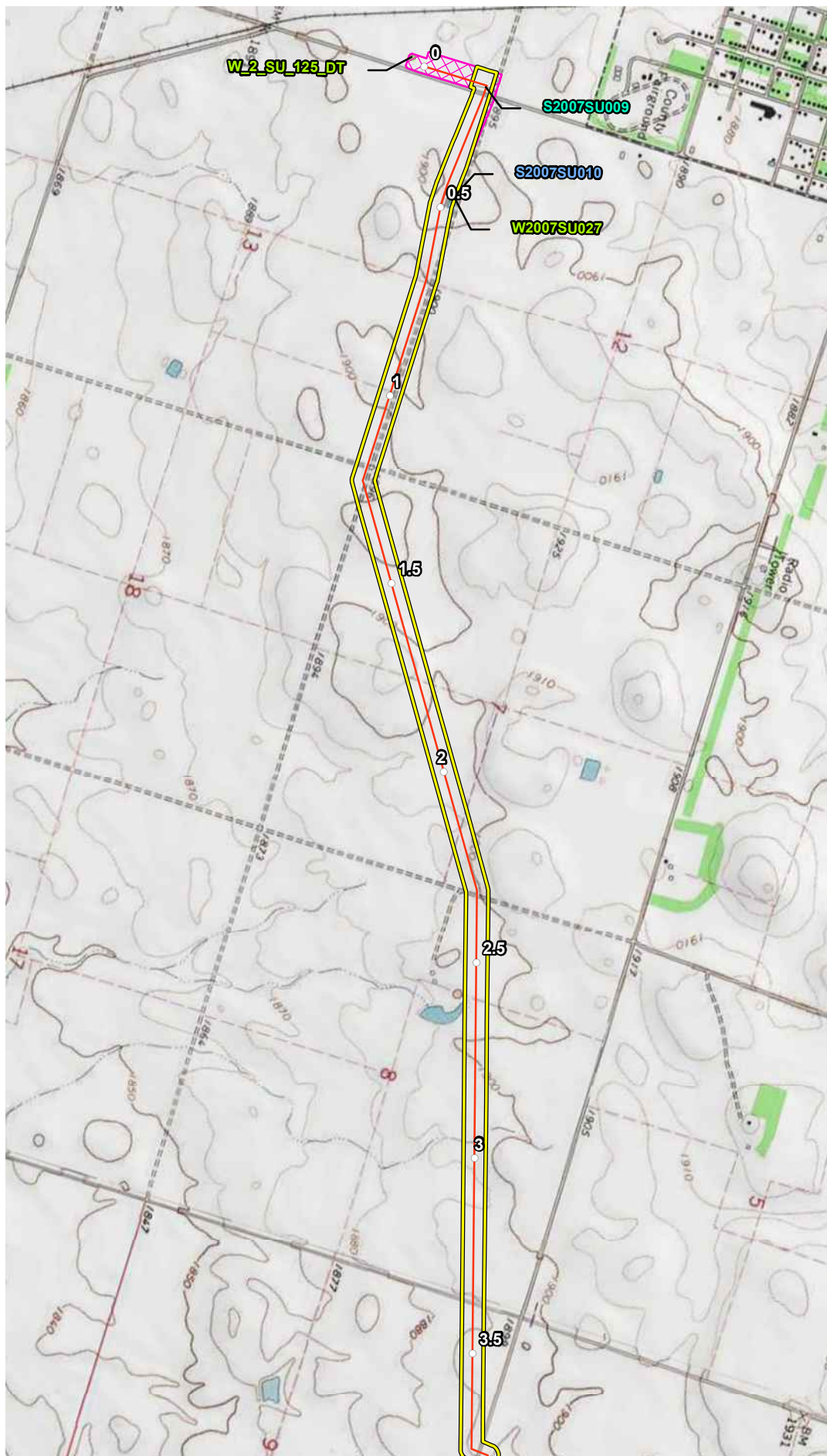
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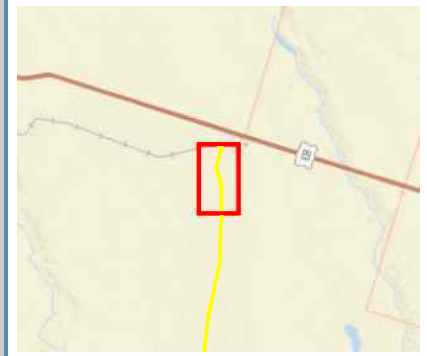
Sheet:
 113
 Sheet 113 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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Projection:

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NAD83

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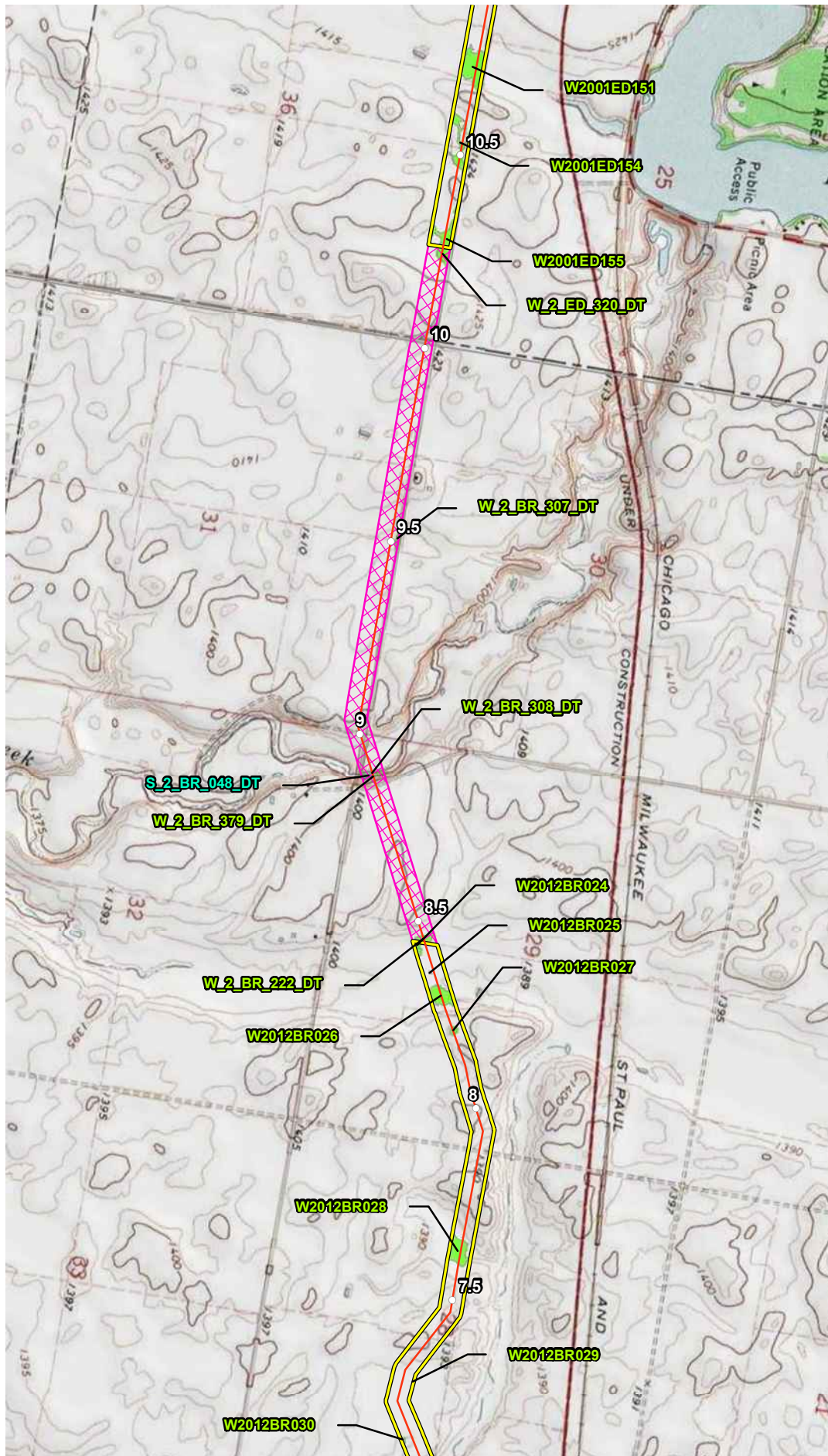
2001-22-003

Sheet 114 of 128

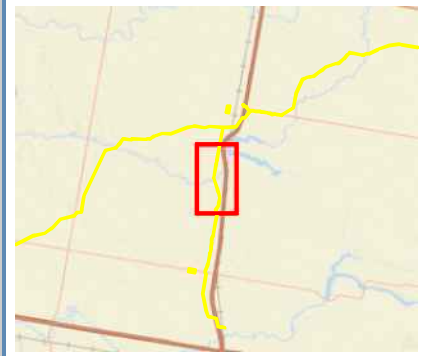
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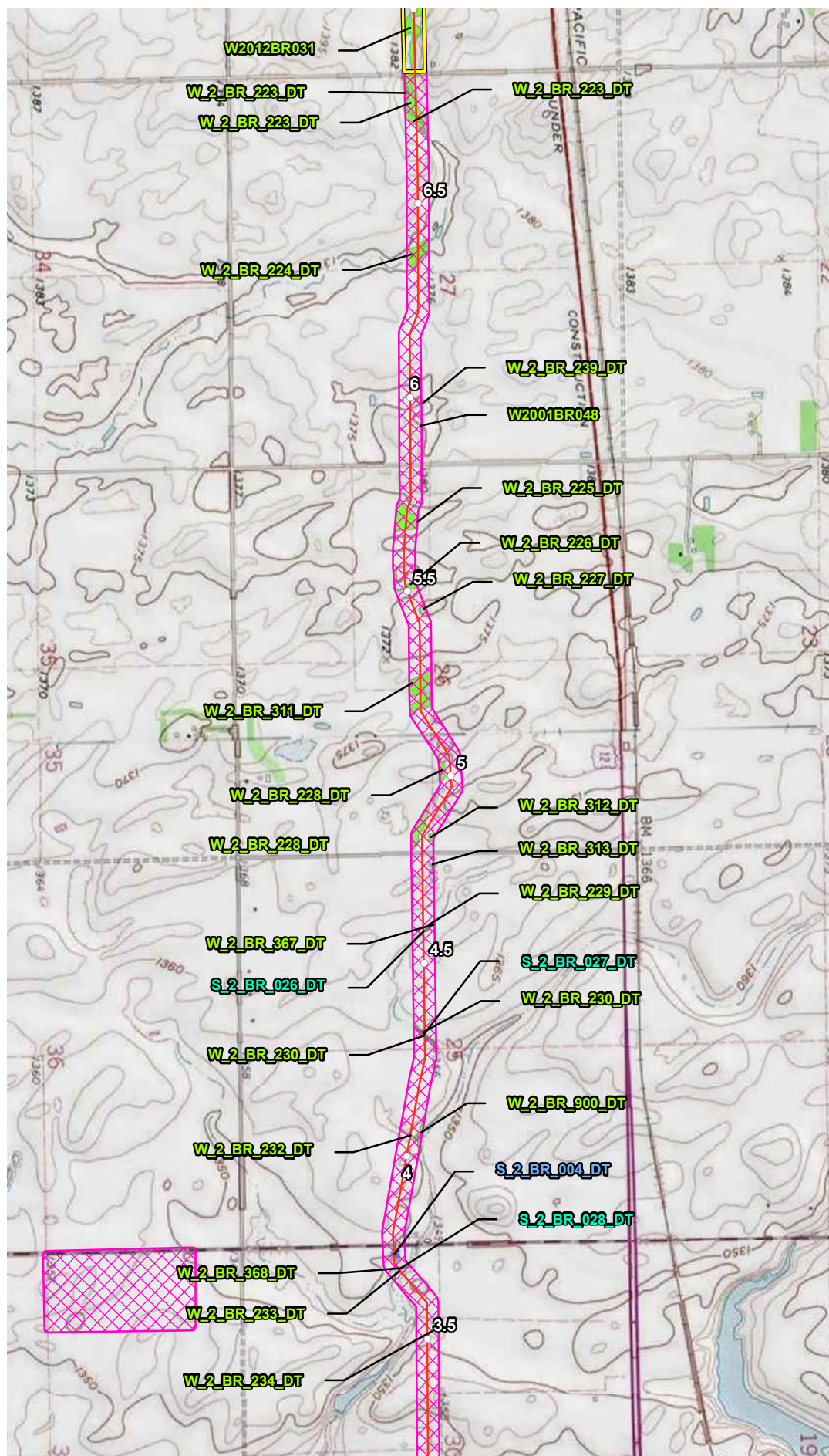
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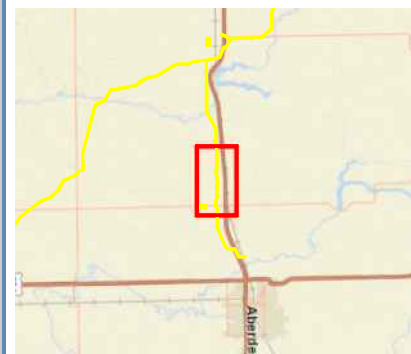
Sheet:
 115
 Sheet 115 of 128

Drawing Number:
 2001-22-003
 Current Revision

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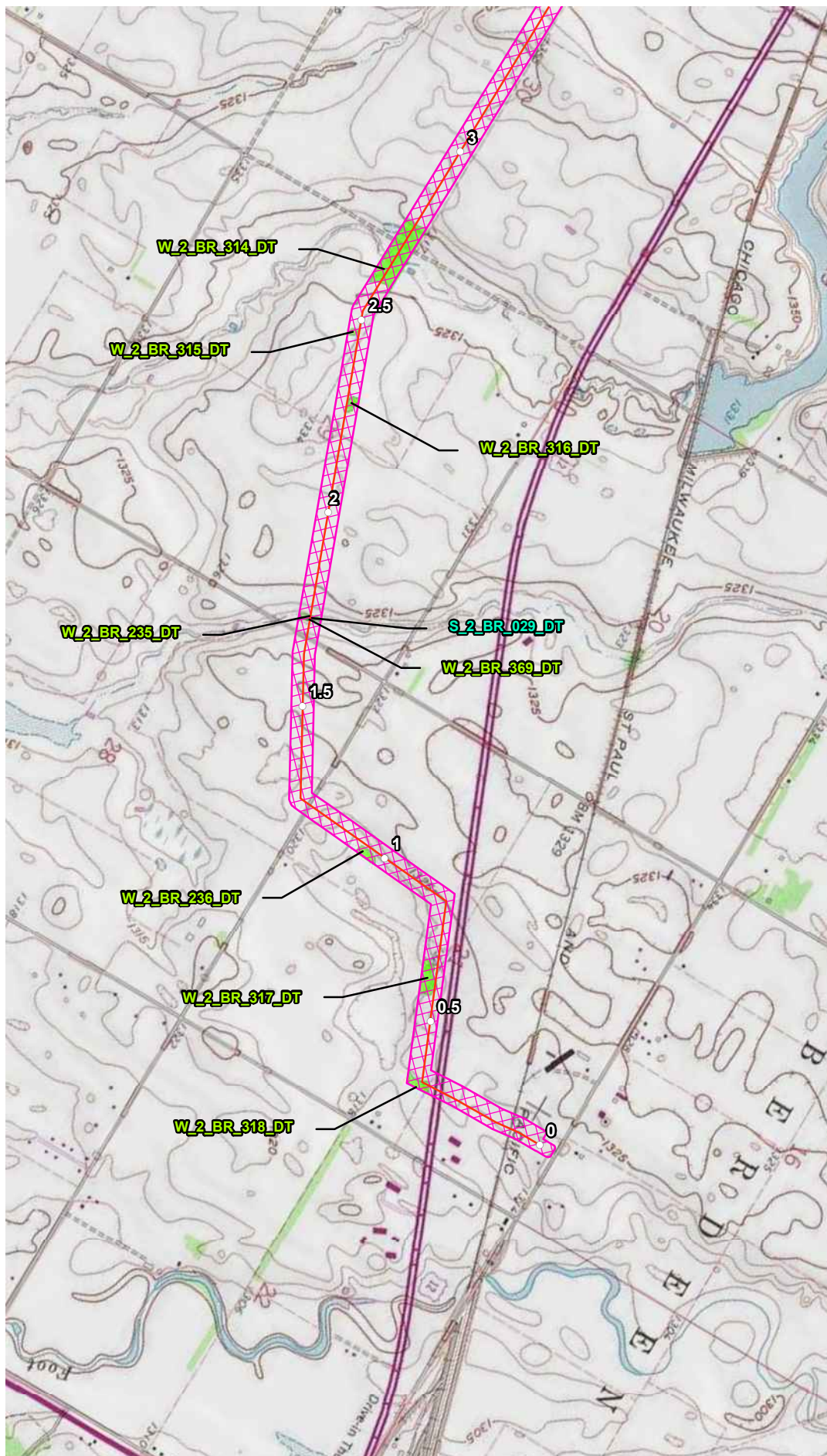
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Sheet:
116
Sheet 116 of 128

Drawing Number:
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Current Revision

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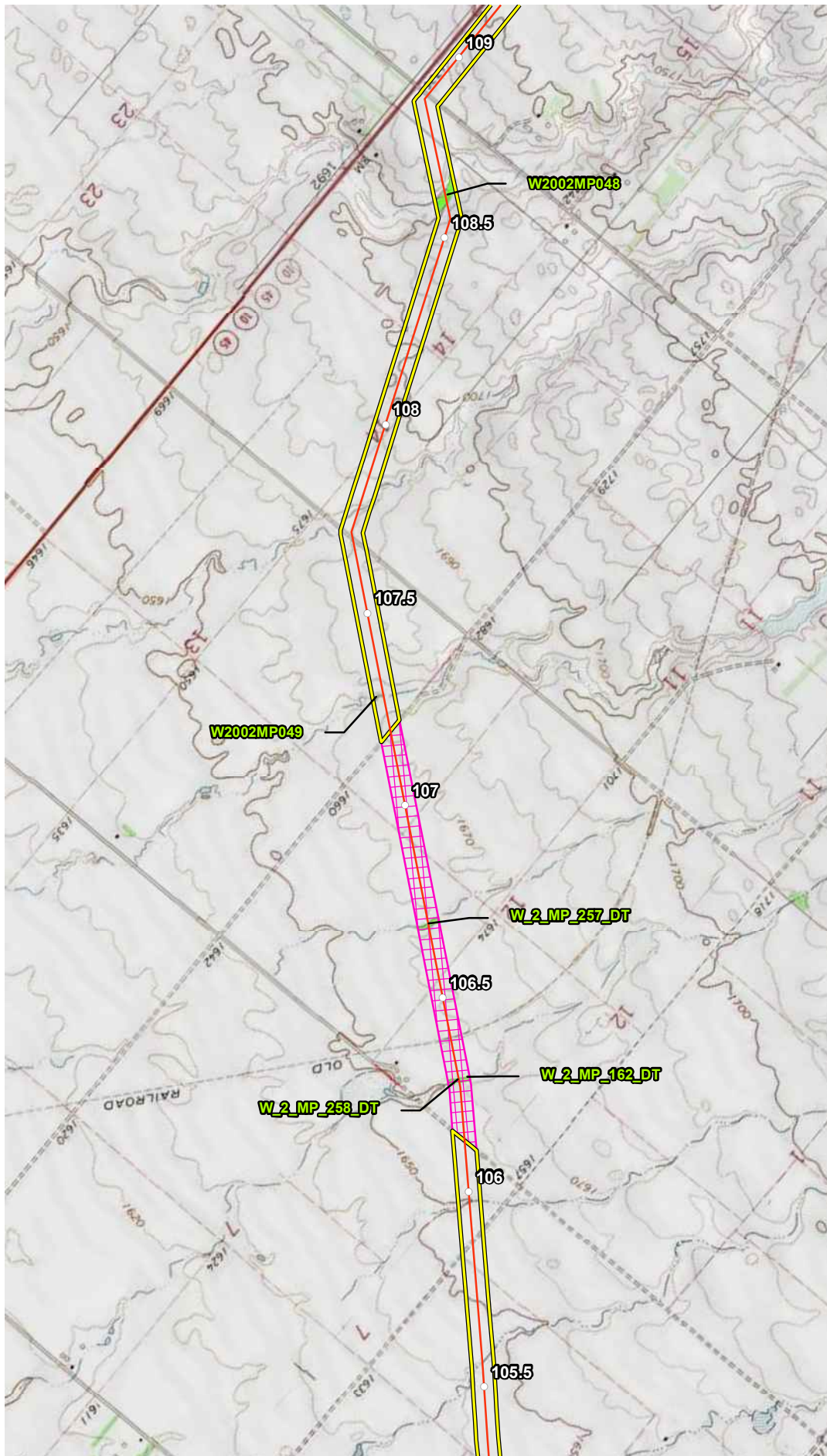
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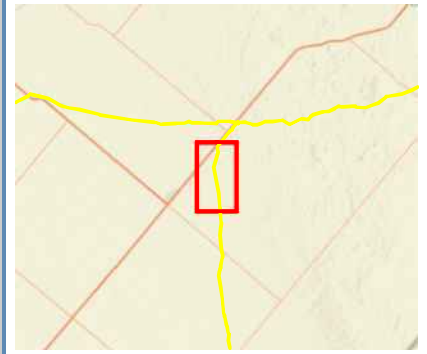
Sheet:
117
Sheet 117 of 128

Drawing Number:
2001-22-003
Current Revision

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Revision Letter/Number - Revision

Revision description

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Revision Letter/Number - Revision

Revision description

MIDWEST CARBON EXPRESS PROJECT

Summit Carbon Solutions

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Ames, Iowa 50010
United States of America

www.summitcarbonsolutions.com



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Perennial Environmental Services

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Houston, TX 77040
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Figure Number:

3

Scale:

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1 inch = 2,000 feet

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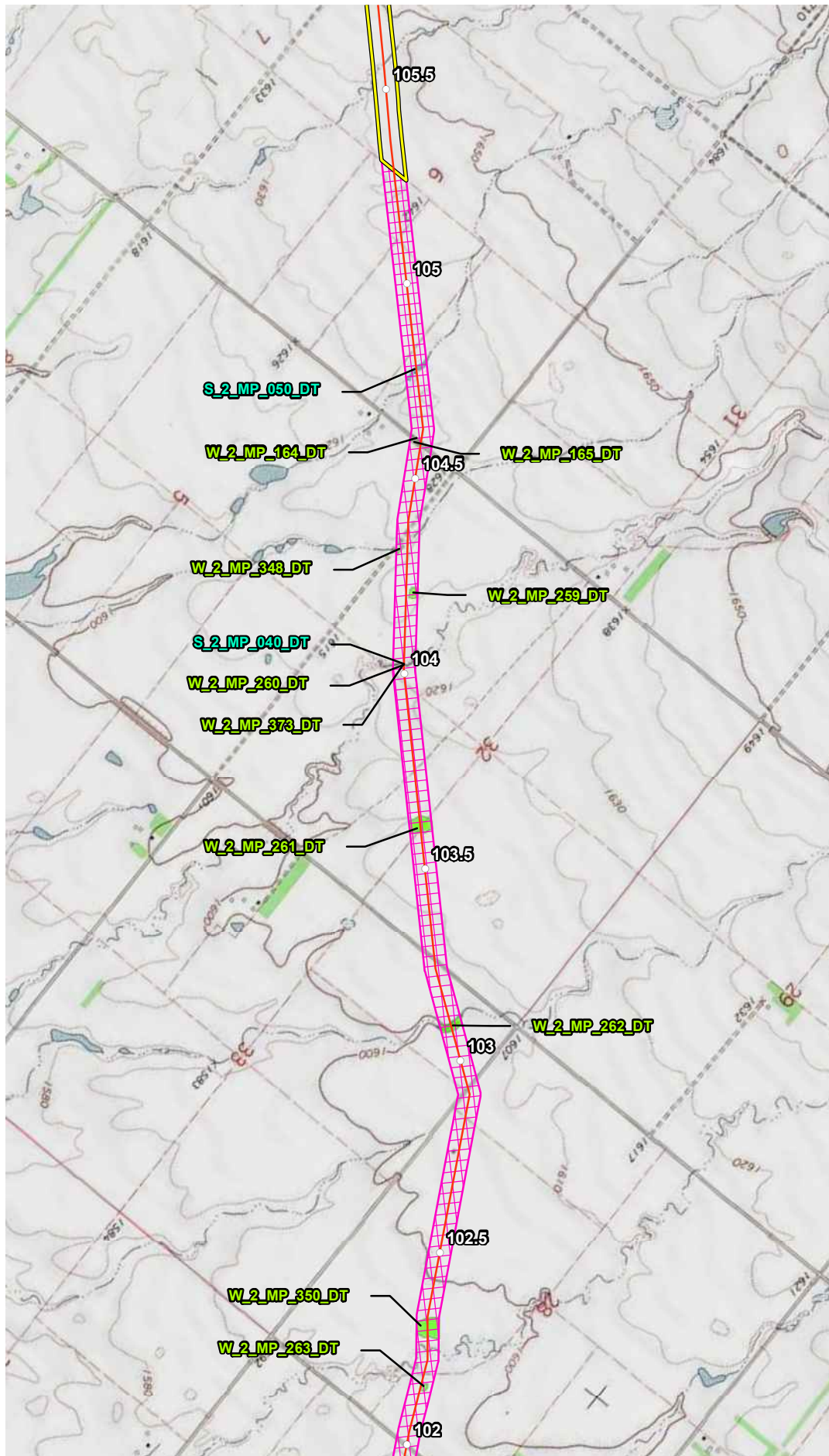
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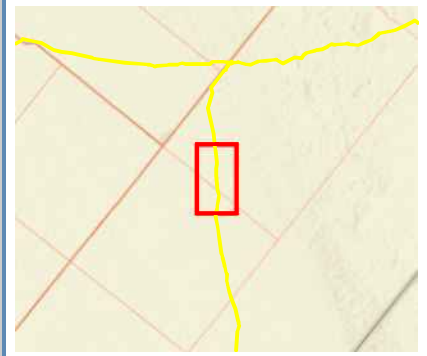
2001-22-003

Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
- Active Route
- ▨ Desktop Review Area
- ▭ Environmental Survey Area
- Stream
- Open Water
- PEM Wetland
- PFO Wetland
- PSS Wetland
- County Boundary
- State Boundary

0 1,000 2,000 Feet



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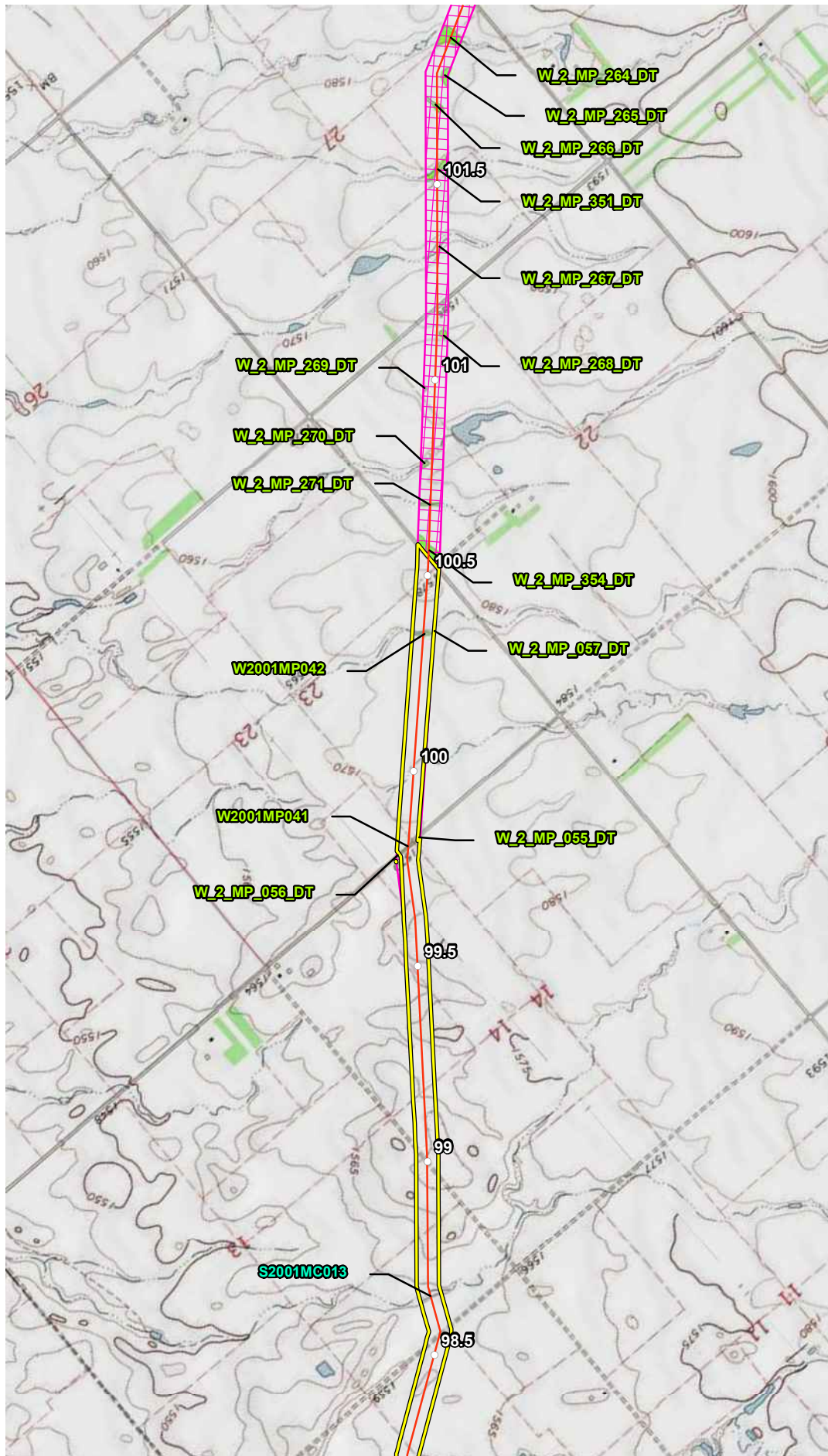
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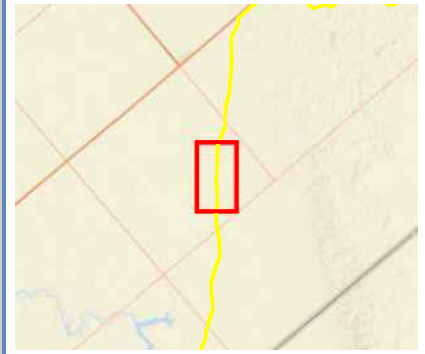
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 119
 Sheet 119 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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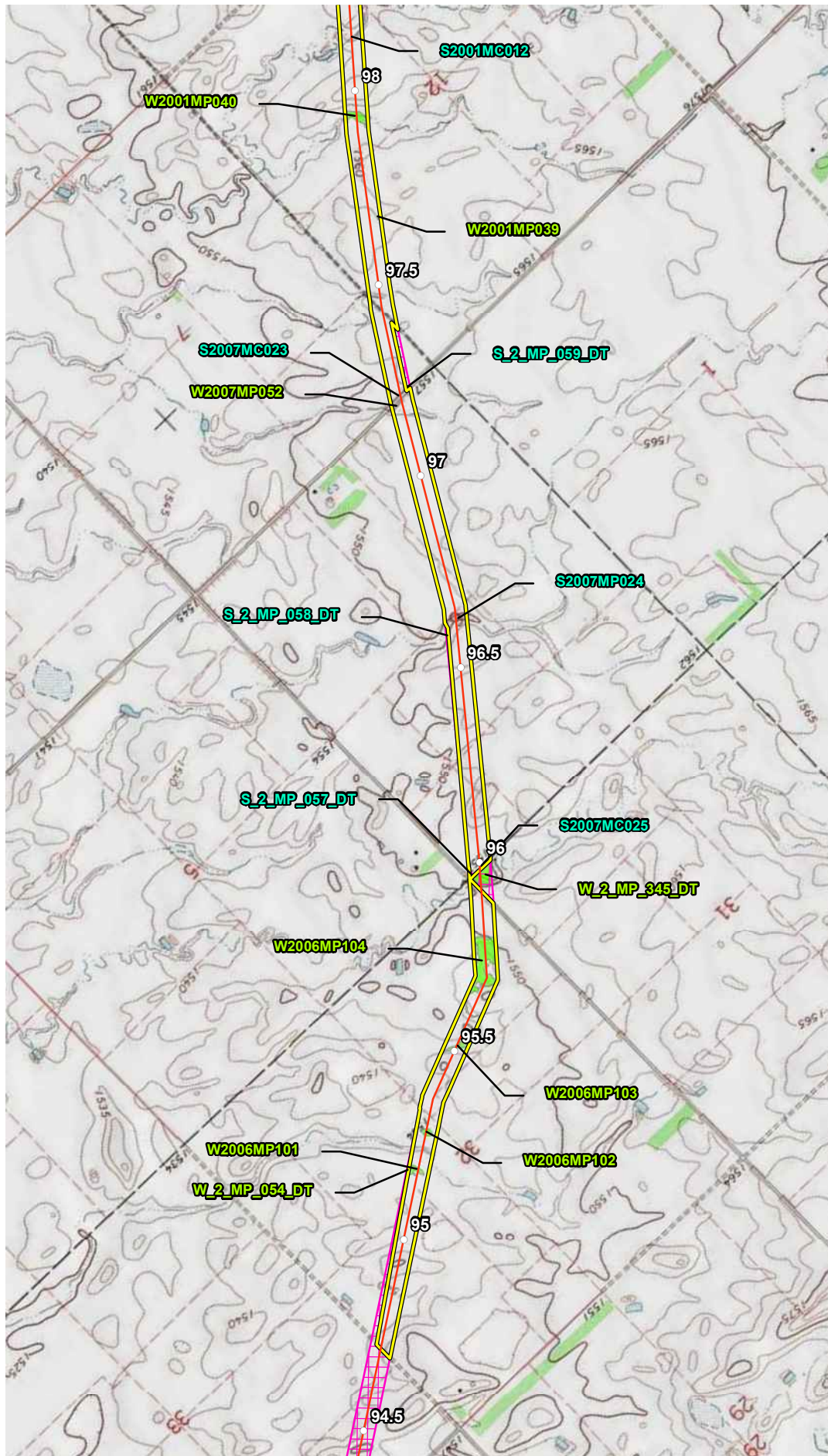
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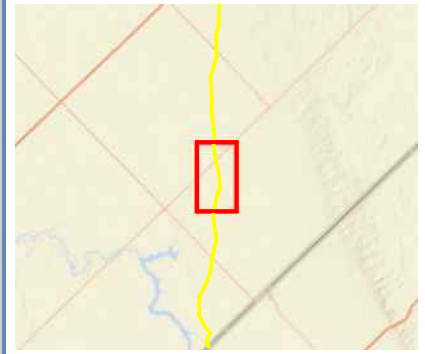
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VICINITY MAP



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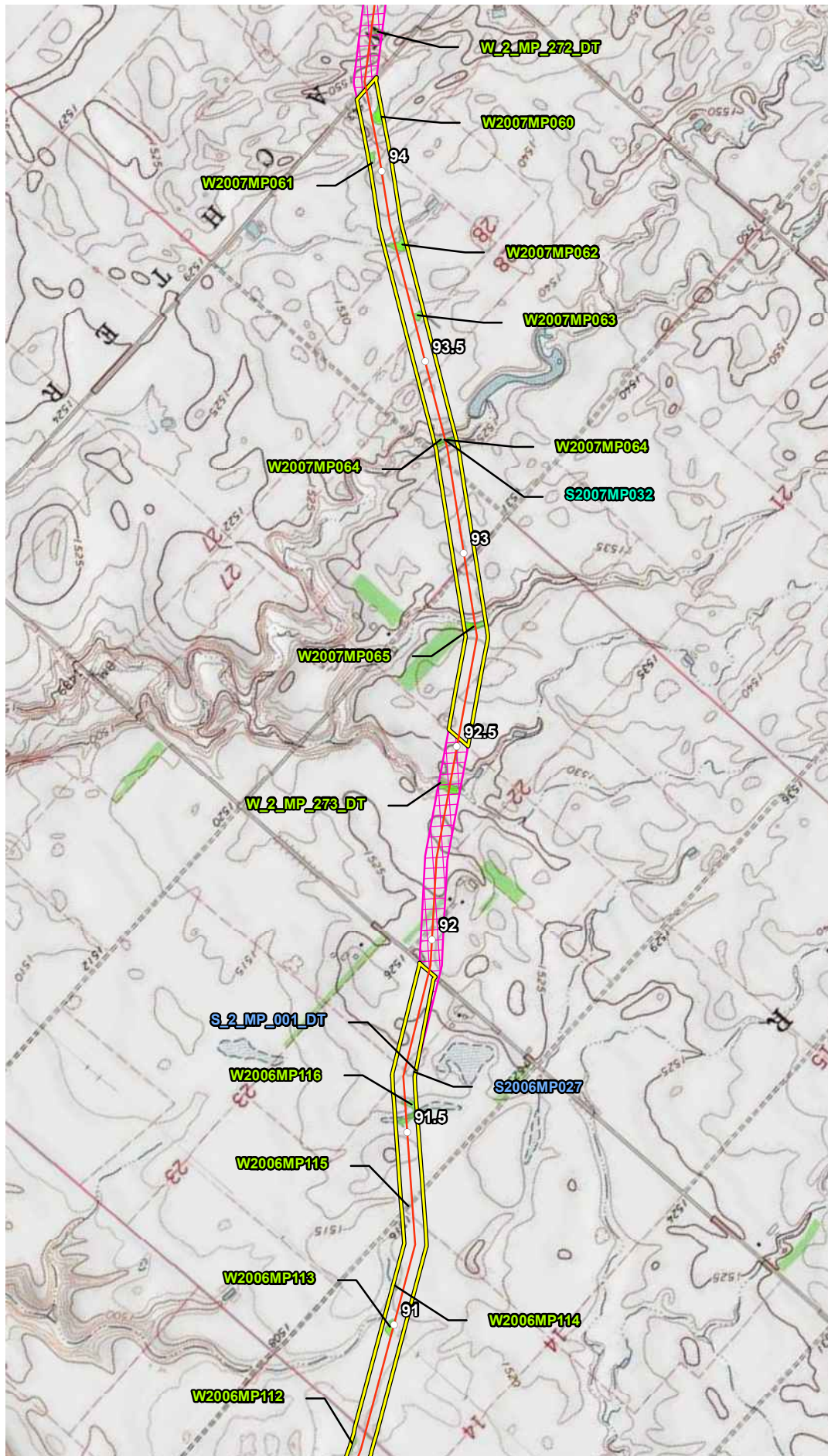
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Sheet 121 of 128

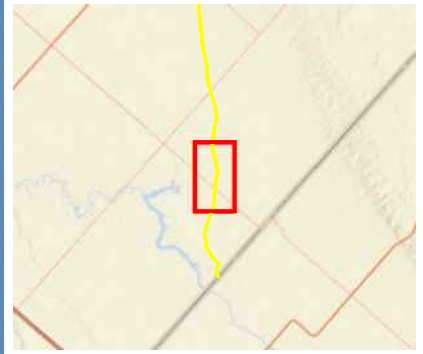
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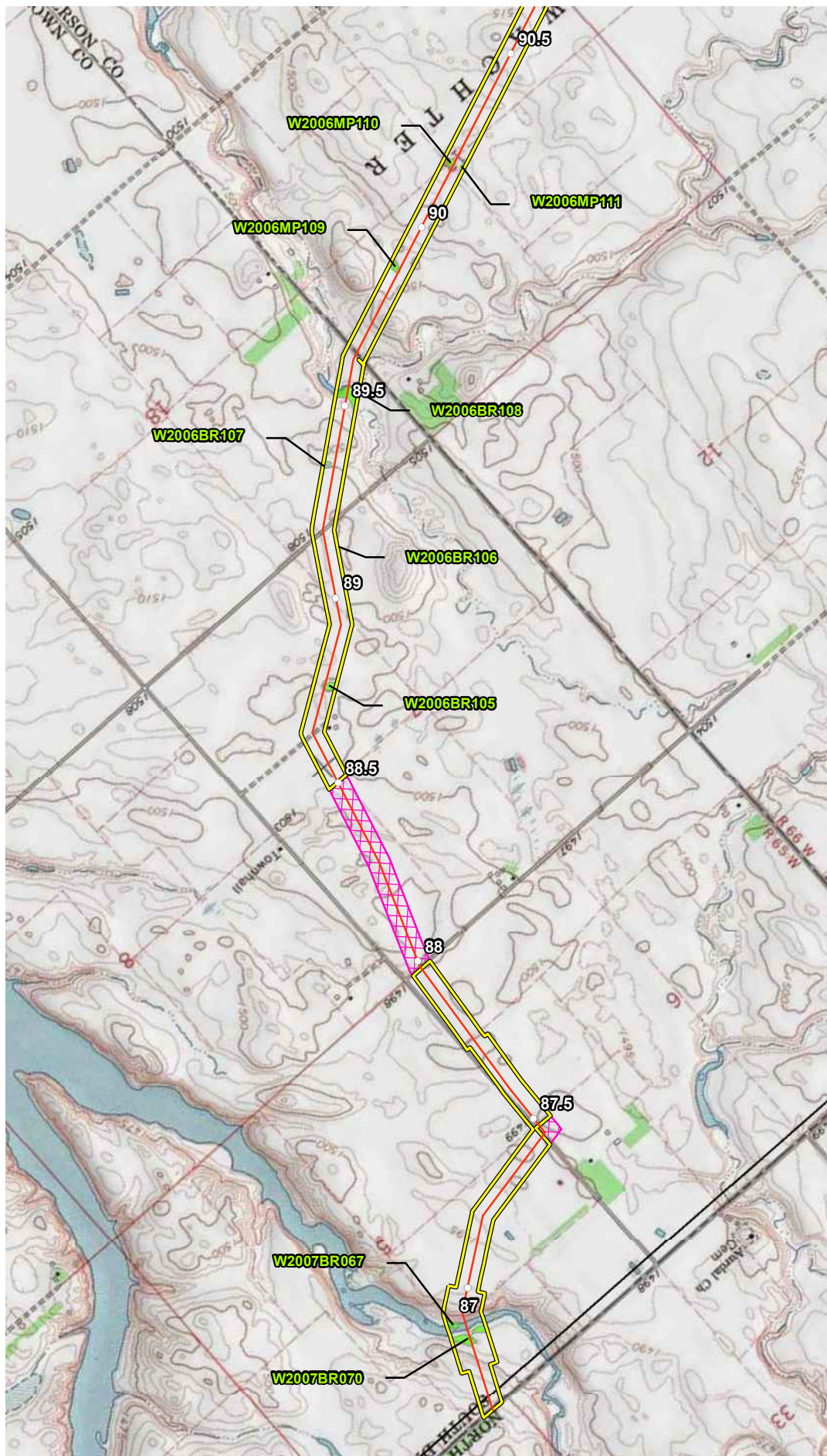
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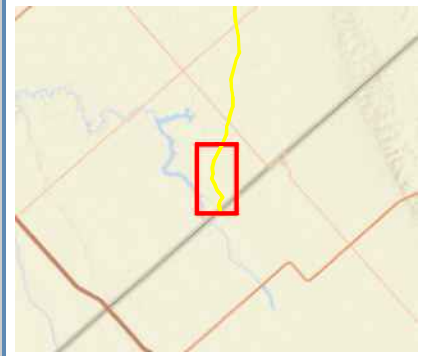
Sheet 122 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



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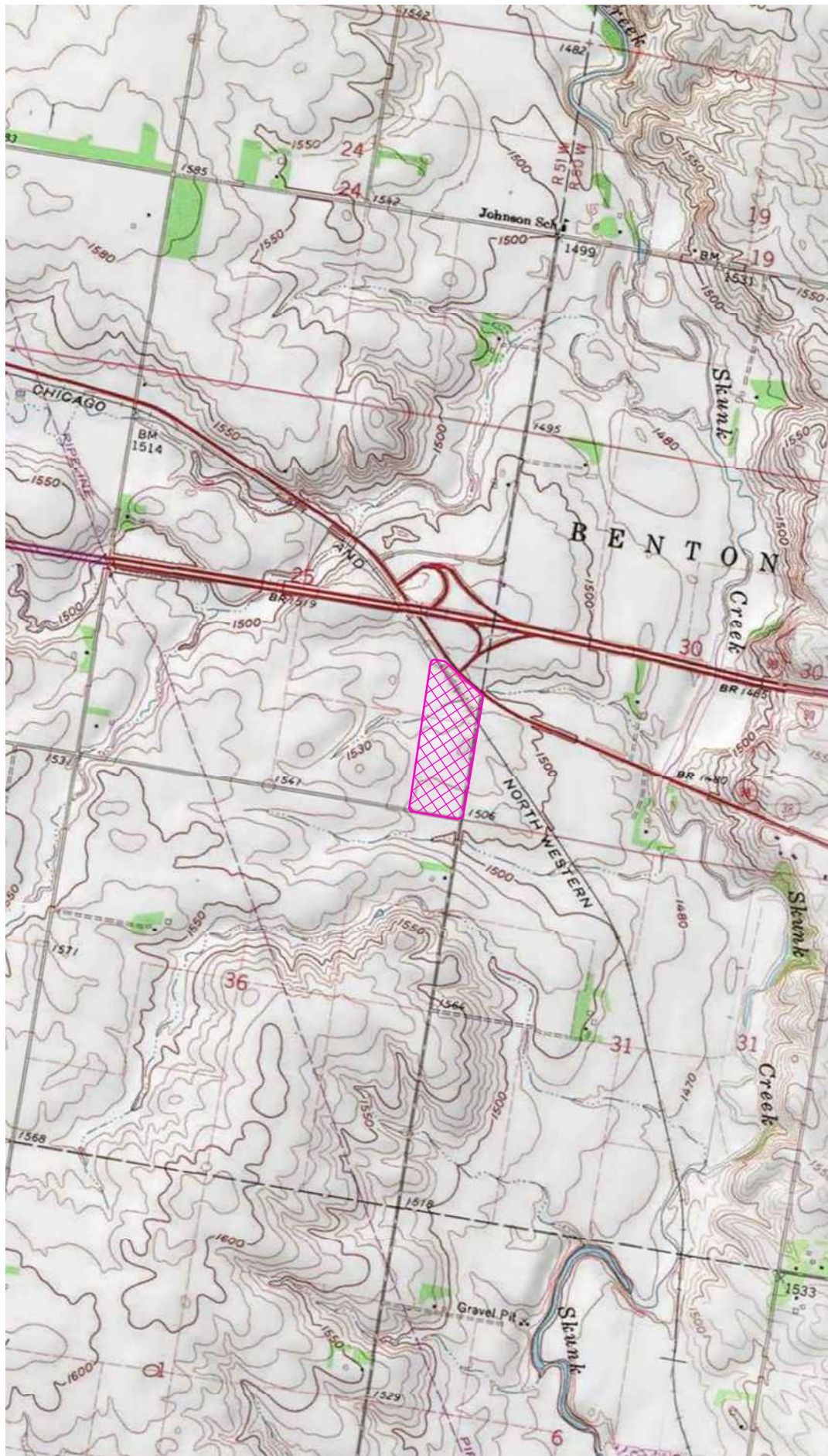
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Sheet 123 of 128

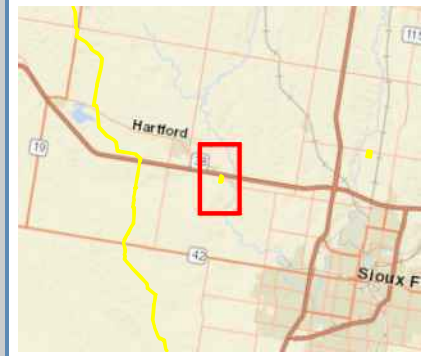
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TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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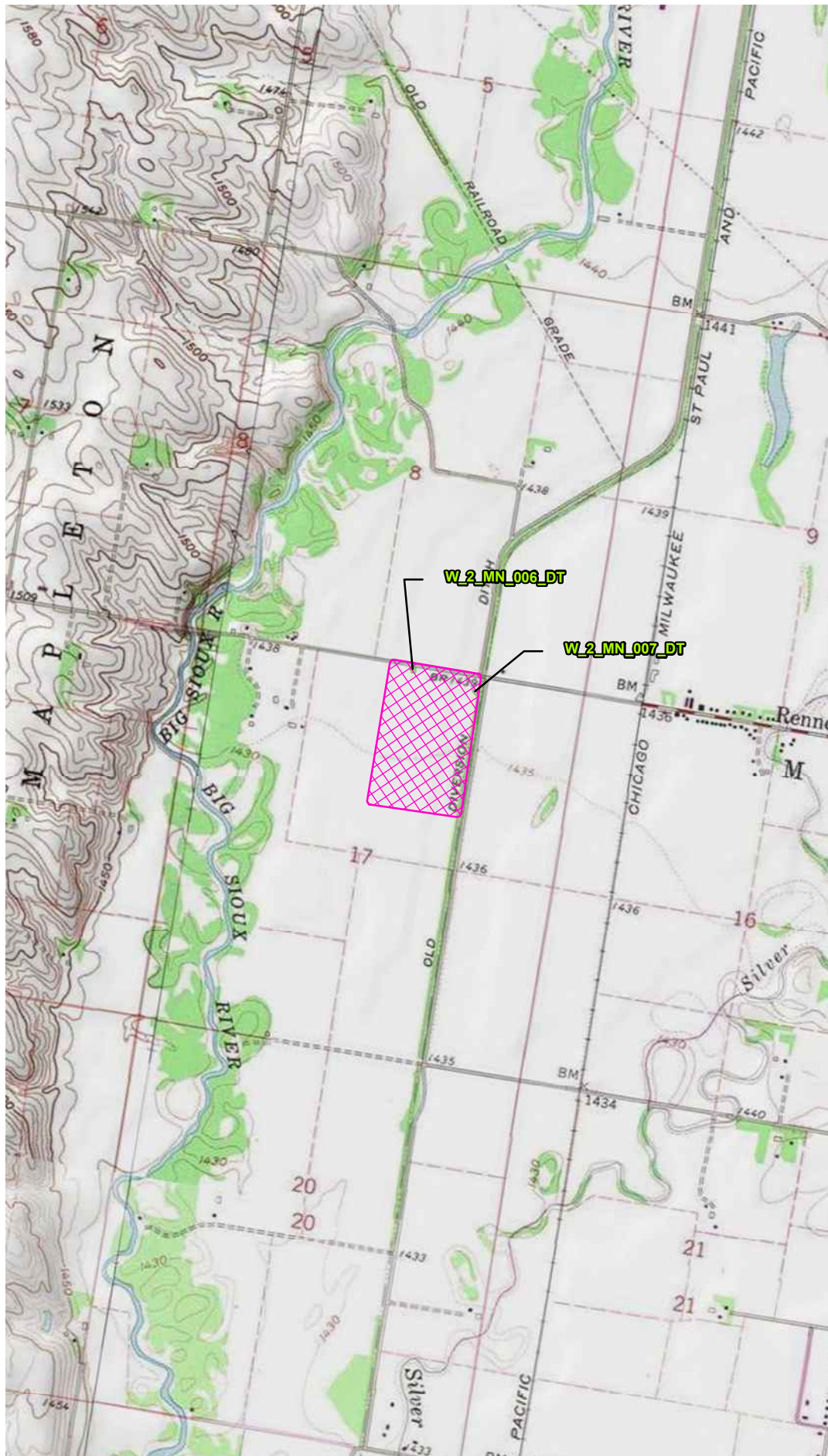
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 1 inch = 2,000 feet

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Sheet:
 124
 Sheet 124 of 128

Drawing Number:
 2001-22-003
 Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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0 1,000 2,000 Feet



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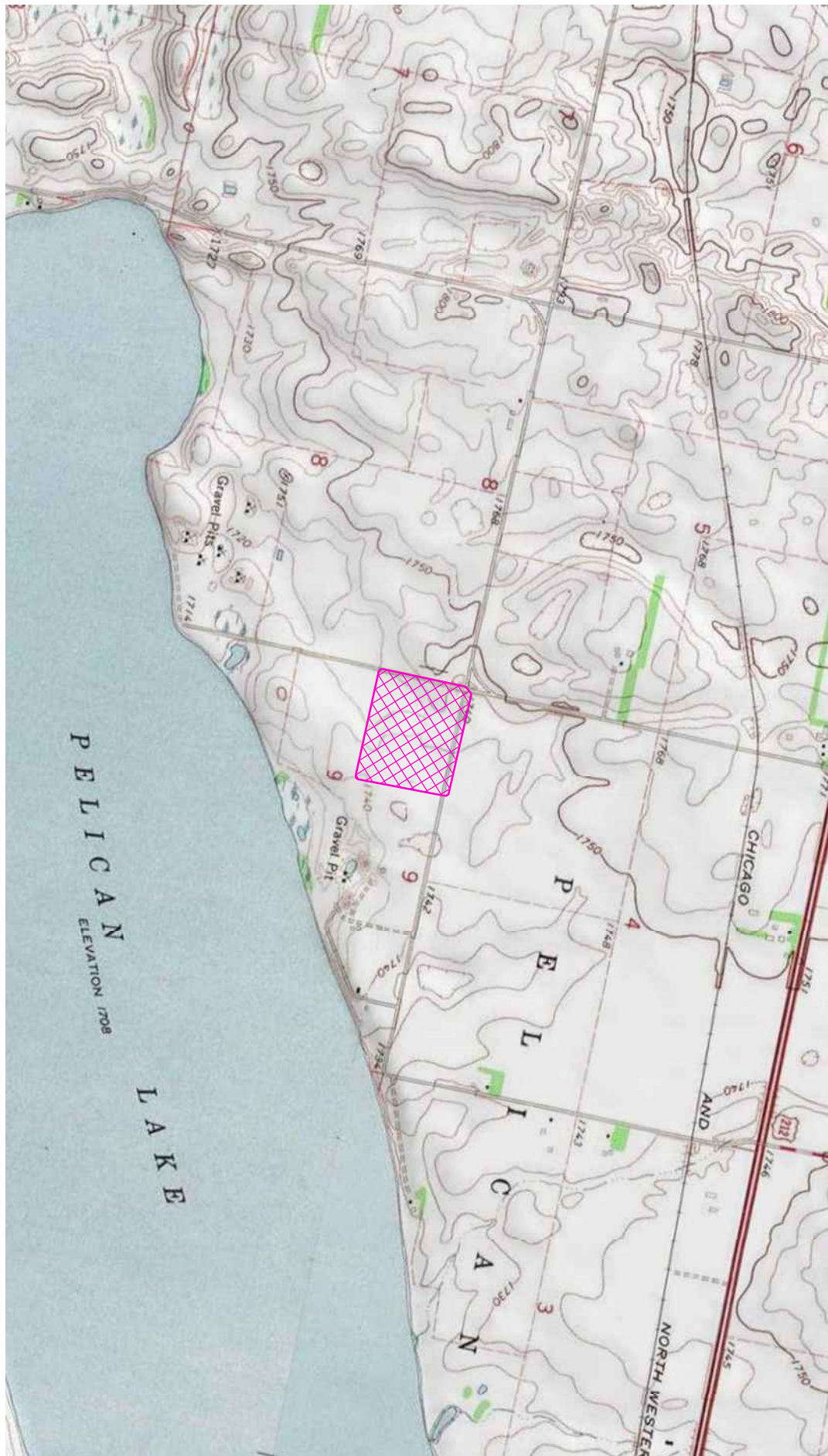
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1 inch = 2,000 feet

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UTM 14N m
NAD83

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Sheet 125 of 128

Drawing Number:
2001-22-003
Current Revision

TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

- Milepost
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0 1,000 2,000 Feet



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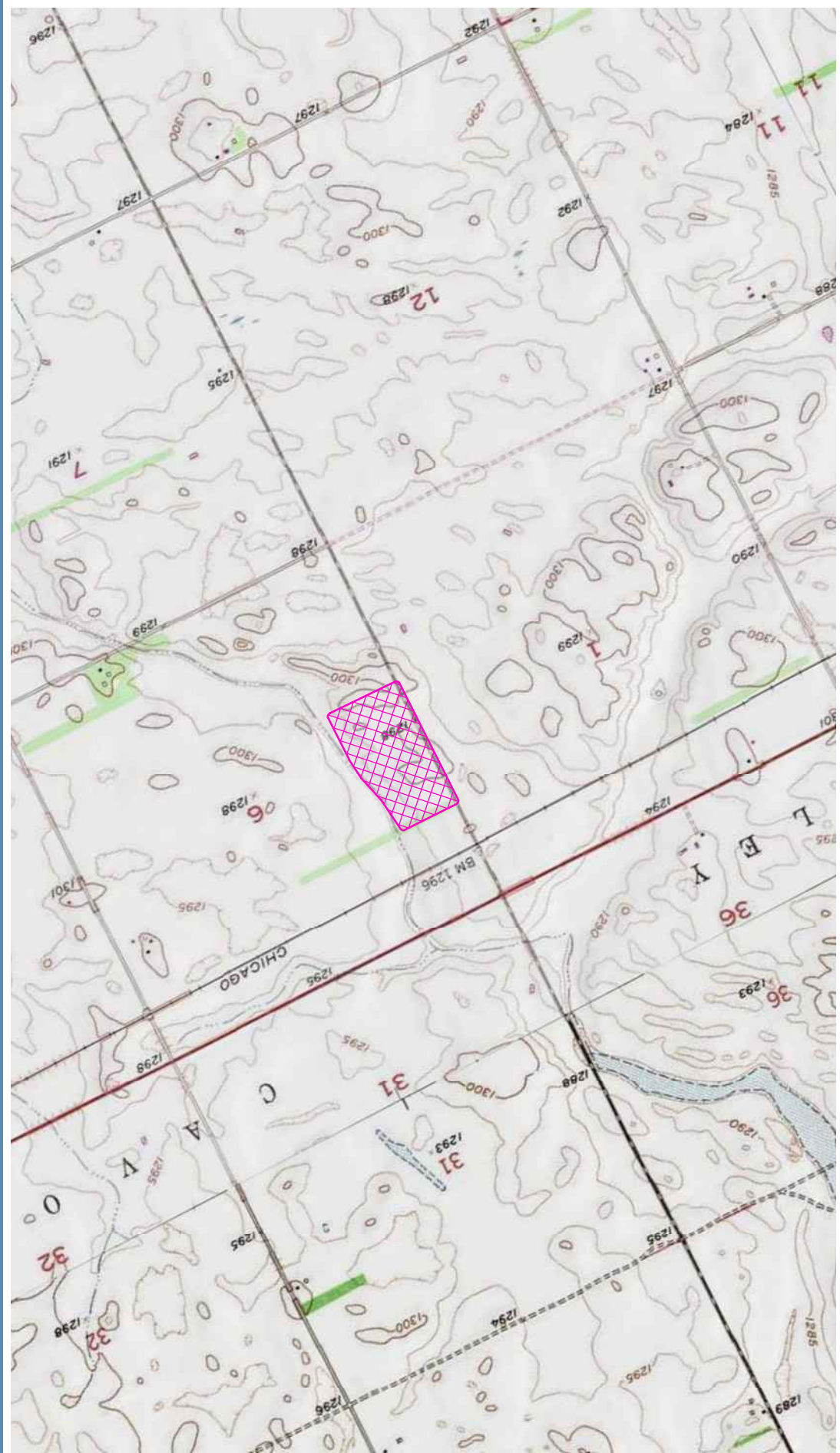
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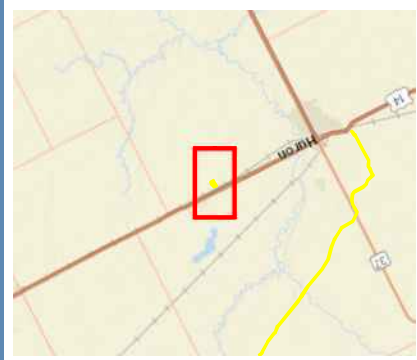
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Drawing Number:
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 Current Revision












TOPOGRAPHIC MAP



VICINITY MAP



LEGEND

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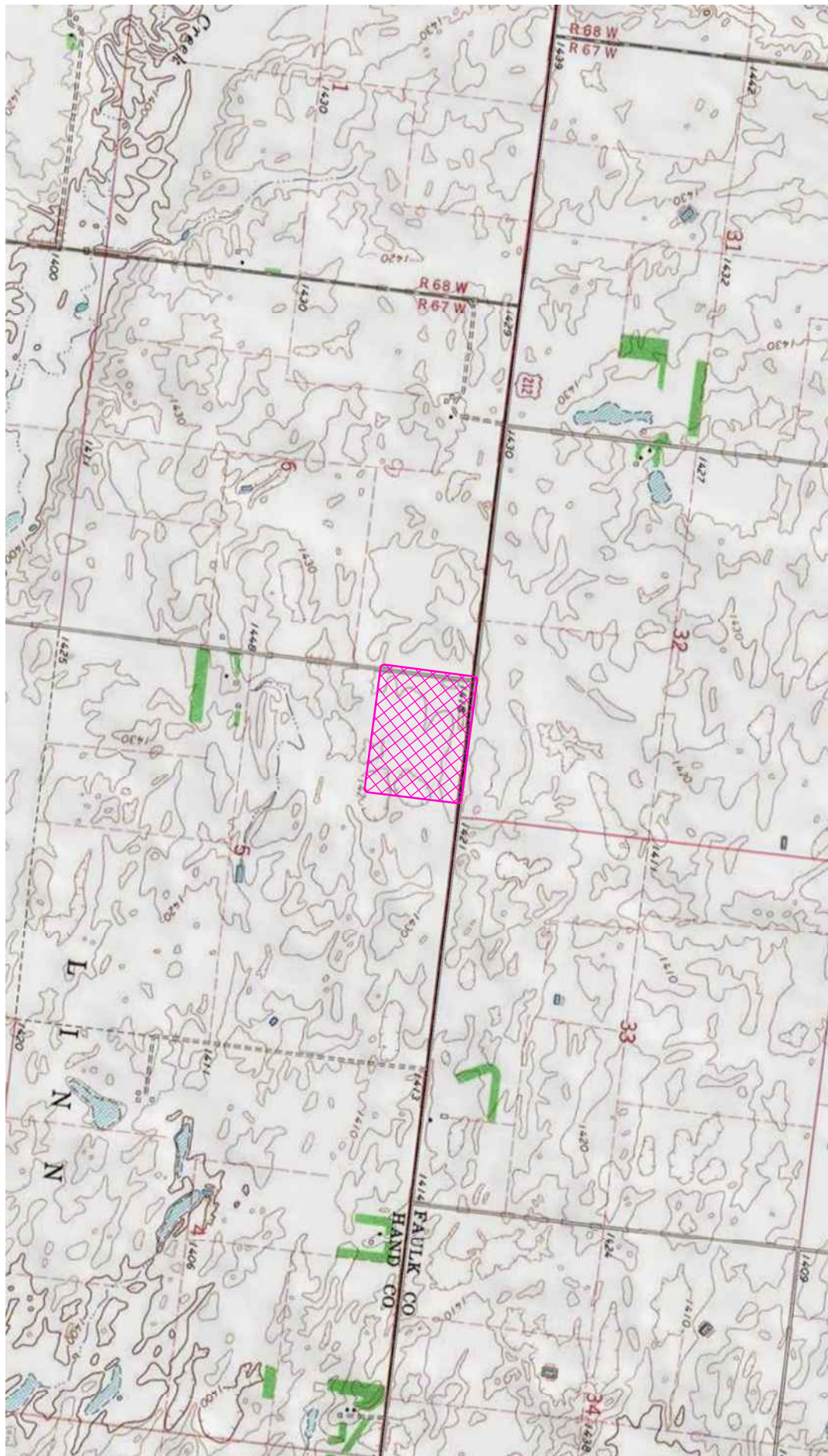
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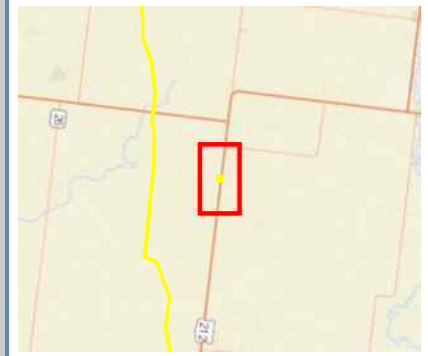
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Current Revision

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Sheet 128 of 128

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Appendix B – USFWS IPaC Results



United States Department of the Interior



FISH AND WILDLIFE SERVICE
South Dakota Ecological Services Field Office
420 South Garfield Avenue, Suite 400
Pierre, SD 57501-5408
Phone: (605) 224-8693 Fax: (605) 224-1416
<http://www.fws.gov/southdakotafieldoffice/>

In Reply Refer To:

December 07, 2021

Consultation Code: 06E14000-2022-SLI-0188

Event Code: 06E14000-2022-E-00492

Project Name: Midwest Carbon Express Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712, as amended), as well as the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.). Projects affecting these species may benefit from the development of an Eagle Conservation Plan (ECP), see guidance at this website (http://www.fws.gov/windenergy/eagle_guidance.html). An ECP can assist developers in achieving compliance with regulatory requirements, help avoid "take" of eagles at project sites, and provide biological support for eagle permit applications. Additionally, we recommend wind energy developments adhere to our Land-based Wind Energy Guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

We have recently updated our guidelines for minimizing impacts to migratory birds at projects that have communication towers (including meteorological, cellular, digital television, radio, and emergency broadcast towers). These guidelines can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>
<http://www.towerkill.com>

According to National Wetlands Inventory maps, (available online at <http://wetlands.fws.gov/>) wetlands exist adjacent to the proposed construction corridor. If a project may impact wetlands or other important fish and wildlife habitats, the U.S. Fish and Wildlife Service (Service), in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321-4347) and other environmental laws and rules, recommends complete avoidance of these areas, if possible. If this is not possible, attempts should be made to minimize adverse impacts. Finally if adverse impacts are unavoidable, measures should be undertaken to replace the impacted areas. Alternatives should be examined and the least damaging practical alternative selected. If wetland impacts are unavoidable, a mitigation plan addressing the number and types of wetland acres to be impacted, and the methods of replacement should be prepared and submitted to the resource agencies for review.

Please check with your local wetland management district to determine whether Service interest lands exist at the proposed project site, the exact locations of these properties, and any additional restrictions that may apply regarding these sites. The Offices are listed below. If you are not sure which office to contact, we can help you make that decision.

U.S. Fish and Wildlife Service, Huron Wetland Management District, Federal Building, Room 309, 200 4th Street SW, Huron, SD 57350; telephone (605) 352-5894. Counties in the Huron WMD: Beadle, Buffalo, Hand, Hughes, Hyde, Jerauld, Sanborn, Sully.

U.S. Fish and Wildlife Service, Lake Andes Wetland Management District, 38672 291st Street, Lake Andes, South Dakota; telephone (605) 487-7603. Counties in the Lake Andes WMD: Aurora, Bon Homme, Brule, Charles Mix, Clay, Davison, Douglas, Hanson, Hutchinson, Lincoln, Turner, Union, Yankton.

U.S. Fish and Wildlife Service, Madison Wetland Management District, P.O. Box 48, Madison, South Dakota, 57042, telephone (605) 256-2974. Counties in the Madison WMD: Brookings, Deuel, Hamlin, Kingsbury, Lake, McCook, Miner, Minnehaha, Moody.

U.S. Fish and Wildlife Service, Sand Lake Wetland Management District, 39650 Sand Lake Drive, Columbia, South Dakota, 57433; telephone (605) 885-6320. Counties in the Sand Lake WMD: Brown, Campbell, Edmunds, Faulk, McPherson, Potter, Spink, Walworth.

U.S. Fish and Wildlife Service, Waubay Wetland Management District, 44401 134A Street, Waubay, South Dakota, 57273; telephone (605) 947-4521. Counties in the Waubay WMD: Clark, Codington, Day, Grant, Marshall, Roberts.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

You are welcome to contact our office at the address or phone number above for more information.

Thank you.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Migratory Birds
 - Wetlands
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

South Dakota Ecological Services Field Office

420 South Garfield Avenue, Suite 400
Pierre, SD 57501-5408
(605) 224-8693

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following offices, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Illinois-Iowa Ecological Services Field Office

Illinois & Iowa Ecological Services Field Office
1511 47th Ave
Moline, IL 61265-7022
(309) 757-5800

North Dakota Ecological Services Field Office

3425 Miriam Avenue
Bismarck, ND 58501-7926
(701) 250-4481

Project Summary

Consultation Code: 06E14000-2022-SLI-0188

Event Code: Some(06E14000-2022-E-00492)

Project Name: Midwest Carbon Express Project

Project Type: OIL OR GAS

Project Description: The Midwest Carbon Express Project involves the construction of new pipelines of various diameters to transfer captured carbon dioxide to proposed locations for permanent sequestration in North Dakota.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.97742715,-97.39495215499511,14z>



Counties: Iowa, North Dakota, and South Dakota

Endangered Species Act Species

There is a total of 11 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane <i>Grus americana</i> Population: Wherever found, except where listed as an experimental population There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/758	Endangered

Fishes

NAME	STATUS
<p>Pallid Sturgeon <i>Scaphirhynchus albus</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/7162</p>	Endangered
<p>Topeka Shiner <i>Notropis topeka</i> (=tristis)</p> <p>Population: Wherever found, except where listed as an experimental population</p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/4122</p>	Endangered

Insects

NAME	STATUS
<p>Dakota Skipper <i>Hesperia dacotae</i></p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/1028</p>	Threatened
<p>Monarch Butterfly <i>Danaus plexippus</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/9743</p>	Candidate
<p>Poweshiek Skipperling <i>Oarisma poweshiek</i></p> <p>There is final critical habitat for this species. The location of the critical habitat is not available.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/9161</p>	Endangered

Flowering Plants

NAME	STATUS
<p>Prairie Bush-clover <i>Lespedeza leptostachya</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/4458</p>	Threatened
<p>Western Prairie Fringed Orchid <i>Platanthera praeclara</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: https://ecos.fws.gov/ecp/species/1669</p>	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

The following FWS National Wildlife Refuge Lands and Fish Hatcheries lie fully or partially within your project area:

FACILITY NAME	ACRES
CLARK COUNTY WATERFOWL PRODUCTION AREA https://www.fws.gov/refuges/profiles/index.cfm?id=64590	0
EDMUNDS COUNTY WATERFOWL PRODUCTION AREA https://www.fws.gov/refuges/profiles/index.cfm?id=64570	13,209.26
HYDE COUNTY WATERFOWL PRODUCTION AREA https://www.fws.gov/refuges/profiles/index.cfm?id=64110	3,480.857
LAKE COUNTY WATERFOWL PRODUCTION AREA OF SD https://www.fws.gov/refuges/profiles/index.cfm?id=64560	83.16

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

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1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Golden-plover <i>Pluvialis dominica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Baird's Sparrow <i>Ammodramus bairdii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/5113	Breeds May 20 to Aug 15

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Black Tern <i>Chlidonias niger</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3093	Breeds May 15 to Aug 20
Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Chestnut-collared Longspur <i>Calcarius ornatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 10
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Eastern Whip-poor-will <i>Antrostomus vociferus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 20
Franklin's Gull <i>Leucophaeus pipixcan</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31
Golden-winged Warbler <i>Vermivora chrysoptera</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8745	Breeds May 1 to Jul 20
Hudsonian Godwit <i>Limosa haemastica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere

NAME	BREEDING SEASON
Le Conte's Sparrow <i>Ammodramus leconteii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds Jun 1 to Aug 15
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Long-billed Curlew <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/5511	Breeds Apr 1 to Jul 31
Long-eared Owl <i>asio otus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3631	Breeds Mar 1 to Jul 15
Marbled Godwit <i>Limosa fedoa</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9481	Breeds May 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Ruddy Turnstone <i>Arenaria interpres morinella</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Sprague's Pipit <i>Anthus spragueii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8964	Breeds May 10 to Aug 31
Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5

NAME	BREEDING SEASON
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

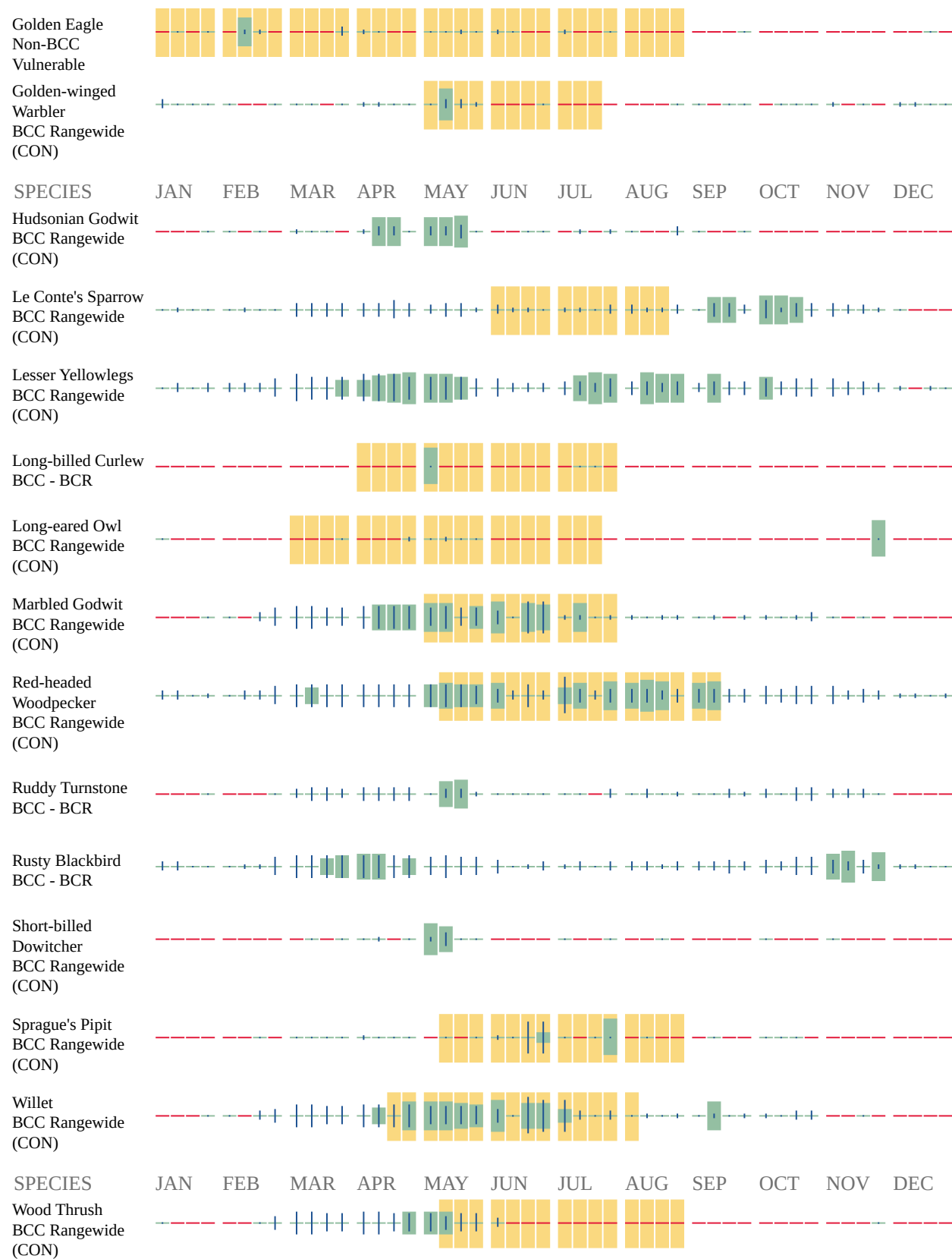
1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.



Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED.
PLEASE VISIT [HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML](https://www.fws.gov/wetlands/data/mapper.html) OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

Appendix C –
Table 3: Dominant Wetland Vegetation

Table 3: Dominant Wetland Vegetation within the Midwest Carbon Express Project Survey Area – South Dakota

Common Name	Scientific Name
Palustrine Emergent Wetlands (PEM)	
absinthium	<i>Artemisia absinthium</i>
alkali cordgrass	<i>Spartina gracilis</i>
American sloughgrass	<i>Beckmannia syzigachne</i>
annual ragweed	<i>Ambrosia artemisiifolia</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
bearded sprangletop	<i>Leptochloa fusca</i>
bermudagrass	<i>Cynodon dactylon</i>
biennial wormwood	<i>Artemisia biennis</i>
blunt spikerush	<i>Eleocharis obtusa</i>
boxelder	<i>Acer negundo</i>
broadfruit bur-reed	<i>Sparganium eurycarpum</i>
broadleaf cattail	<i>Typha latifolia</i>
brown flatsedge	<i>Cyperus fuscus</i>
bull thistle	<i>Cirsium vulgare</i>
burningbush	<i>Bassia scoparia</i>
Canadian horseweed	<i>Erigeron canadensis</i>
Canadian thistle	<i>Cirsium arvense</i>
common duckweed	<i>Lemna minor</i>
common plantain	<i>Plantago major</i>
common reed	<i>Phragmites australis</i>
common sheep sorrel	<i>Rumex acetosella</i>
common snowberry	<i>Symphoricarpos albus</i>
common spikerush	<i>Eleocharis palustris</i>
common squarerush	<i>Schoenoplectus pungens</i>
common sunflower	<i>Helianthus annuus</i>
corn	<i>Zea mays</i>
crack willow	<i>Salix X fragilis</i>
creeping bentgrass	<i>Agrostis stolonifera</i>
creeping meadow foxtail	<i>Alopecurus arundinaceus</i>
Cuman ragweed	<i>Ambrosia psilostachya</i>
curly dock	<i>Rumex crispus</i>
curlycup gumweed	<i>Grindelia squarrosa</i>

Table 3: Dominant Wetland Vegetation within the Midwest Carbon Express Project Survey Area – South Dakota

Common Name	Scientific Name
curlytop knotweed	<i>Persicaria lapathifolia</i>
eastern cottonwood	<i>Populus deltoides</i>
Emory's sedge	<i>Carex emoryi</i>
field sowthistle	<i>Sonchus arvensis</i>
fowl bluegrass	<i>Poa palustris</i>
fox sedge	<i>Carex vulpinoidea</i>
foxtail barley	<i>Hordeum jubatum</i>
fragrant flatsedge	<i>Cyperus odoratus</i>
green ash	<i>Fraxinus pennsylvanica</i>
hardstem bulrush	<i>Schoenoplectus acutus</i>
hybrid cattail	<i>Typha X glauca</i>
Indiangrass	<i>Sorghastrum nutans</i>
Indianhemp	<i>Apocynum cannabinum</i>
inland rush	<i>Juncus interior</i>
Kentucky bluegrass	<i>Poa pratensis</i>
lambsquarters	<i>Chenopodium album</i>
little hogweed	<i>Portulaca oleracea</i>
longroot smartweed	<i>Persicaria amphibia</i>
marsh bristlegrass	<i>Setaria parviflora</i>
marshpepper knotweed	<i>Persicaria hydropiper</i>
mat amaranth	<i>Amaranthus blitoides</i>
meadow fescue	<i>Schedonorus pratensis</i>
Mexican dock	<i>Rumex triangulivalvis</i>
narrowleaf burreed	<i>Sparganium emersum</i>
narrowleaf cattail	<i>Typha angustifolia</i>
narrowleaf dock	<i>Rumex stenophyllus</i>
narrowleaf willow	<i>Salix exigua</i>
needle and thread	<i>Stipa comata</i>
needle spikerush	<i>Eleocharis acicularis</i>
Northwest Territory sedge	<i>Carex utriculata</i>
Norwegian cinquefoil	<i>Potentilla norvegica</i>
peachleaf willow	<i>Salix amygdaloides</i>
Pennsylvania smartweed	<i>Persicaria pensylvanica</i>

Table 3: Dominant Wetland Vegetation within the Midwest Carbon Express Project Survey Area – South Dakota

Common Name	Scientific Name
perennial ryegrass	<i>Lolium perenne</i>
prairie cordgrass	<i>Spartina pectinata</i>
prostrate knotweed	<i>Polygonum aviculare</i>
prostrate pigweed	<i>Amaranthus albus</i>
quackgrass	<i>Elymus repens</i>
red goosefoot	<i>Chenopodium rubrum</i>
redroot amaranth	<i>Amaranthus retroflexus</i>
redtop	<i>Agrostis gigantea</i>
reed canarygrass	<i>Phalaris arundinacea</i>
rice cutgrass	<i>Leersia oryzoides</i>
river bulrush	<i>Schoenoplectus fluviatilis</i>
rough cocklebur	<i>Xanthium strumarium</i>
roughfruit amaranth	<i>Amaranthus tuberculatus</i>
saltgrass	<i>Distichlis spicata</i>
sand spikerush	<i>Eleocharis montevidensis</i>
scouringrush horsetail	<i>Equisetum hyemale</i>
shining willow	<i>Salix lucida</i>
shortbeak sedge	<i>Carex brevior</i>
showy milkweed	<i>Asclepias speciosa</i>
Siberian elm	<i>Ulmus pumila</i>
sideoats grama	<i>Bouteloua curtipendula</i>
smooth brome	<i>Bromus inermis</i>
smoothcone sedge	<i>Carex laeviconica</i>
snow on the mountain	<i>Euphorbia marginata</i>
softstem bulrush	<i>Schoenoplectus tabernaemontani</i>
soybean	<i>Glycine max</i>
spotted ladythumb	<i>Persicaria maculosa</i>
Suckley's endolepis	<i>Atriplex dioica</i>
Switchgrass	<i>Panicum virgatum</i>
tall blue lettuce	<i>Lactuca biennis</i>
thickspike wheatgrass	<i>Elymus lanceolatus</i>
triangle orache	<i>Atriplex prostrata</i>
uptight sedge	<i>Carex stricta</i>

Table 3: Dominant Wetland Vegetation within the Midwest Carbon Express Project Survey Area – South Dakota

Common Name	Scientific Name
wavyleaf thistle	<i>Cirsium undulatum</i>
wheat sedge	<i>Carex atherodes</i>
white panicle aster	<i>Symphotrichum lanceolatum</i>
white willow	<i>Salix alba</i>
wild mint	<i>Mentha arvensis</i>
witchgrass	<i>Panicum capillare</i>
woolly sedge	<i>Carex pellita</i>
yellow foxtail	<i>Setaria pumila</i>
yellow nutsedge	<i>Cyperus esculentus</i>
Palustrine Shrub-Scrub Wetlands (PSS)	
broadleaf cattail	<i>Typha latifolia</i>
common lilac	<i>Syringa vulgaris</i>
narrowleaf willow	<i>Salix interior</i>
Pennsylvania smartweed	<i>Persicaria pensylvanica</i>
reed canarygrass	<i>Phalaris arundinacea</i>
white willow	<i>Salix alba</i>
Palustrine Forested Wetlands (PFO)	
bluejoint	<i>Calamagrostis canadensis</i>
common buckthorn	<i>Rhamnus cathartica</i>
crack willow	<i>Salix X fragilis</i>
eastern cottonwood	<i>Populus deltoides</i>
foxtail barley	<i>Hordeum jubatum</i>
green ash	<i>Fraxinus pennsylvanica</i>
Lombardy poplar	<i>Populus nigra</i>
narrowleaf dock	<i>Rumex stenophyllus</i>
peachleaf willow	<i>Salix amygdaloides</i>
Pennsylvania smartweed	<i>Persicaria pensylvanica</i>
reed canarygrass	<i>Phalaris arundinacea</i>
white willow	<i>Salix alba</i>
woolly sedge	<i>Carex pellita</i>