



# Historical Resources Survey Report

---

## Reconnaissance Survey

**Project Name:** State Loop 288

**Project Limits:** IH 35W to IH 35

**District(s):** Dallas

**County(s):** Denton

**CSJ Number(s):** 2250-02-014, 2250-02-013

**Principal Investigator:** Kurt Korfmacher and Deborah Dobson-Brown

**Report Completion Date:** July 2019



This historical resources survey report is produced for the purposes of meeting requirements under Section 106 of the National Historic Preservation Act, the Antiquities Code of Texas, and other cultural resource legislation related to environmental clearance as applicable.



## Abstract

The Texas Department of Transportation (TxDOT), in conjunction with Denton County, is proposing the construction of a four-lane new location frontage road system for State Loop (SL) 288 from Interstate Highway (IH) 35W south of Denton to IH 35 north of Denton, in Denton County, Texas. The distance of the proposed project is approximately 9.0 miles. The proposed project right-of-way (ROW) would include a median that would accommodate the future construction of an ultimate main-lane facility. Construction of the ultimate main-lane facility would be based on projected traffic and funding and would require additional environmental analysis prior to construction.

The new location SL 288 frontage road system would include a northbound and southbound frontage road facility. For rural areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) and 8-foot wide inside and outside shoulders in each direction, with open ditch drainage. For urbanized areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) in each direction, with curb and gutter drainage. The facility would also include 6-foot wide sidewalks along both sides of the road throughout the project limits. The proposed project ROW would include a median (variable width) that would accommodate the future construction of an ultimate main-lane facility.

The proposed project would also construct intersections at six (6) major crossroads as follow: John Paine, Farm-to-Market Road (FM) 2449, Tom Cole/FM 1515, Jim Christal Road, U.S. Highway (US) 380, and Masch Branch Road. In addition, the proposed project would construct a grade separation at the KCS Railroad and would tie into the grade separations at IH 35 and IH 35W. The project area includes approximately 26.6 acres of existing roadway ROW, 401.5 acres of proposed ROW, 1.2 acres of proposed permanent drainage easements, and 13.2 acres of proposed ROW by others.

Project historians surveyed the project of area of potential effect in June 2019 and documented 13 properties with historic-age resources within the project area. Following evaluation of the properties, project historians recommend that none of the properties are eligible for listing in the National Register of Historic Places (NRHP). No historic properties are present within the project area of potential effect, and the proposed undertaking would have no effect on historic properties under Section 106. With no use of a historic property, no Section 4(f) analysis would be required. No further work is recommended.



## Table of Contents

Abstract.....	3
Project Identification.....	5
Project Description.....	6
Section 106 Consulting Parties .....	7
Stakeholders .....	9
Project Setting/Study Area .....	9
Survey Methods .....	12
Survey Results.....	13
Historical Context Statement .....	13
National Register Eligibility Recommendations .....	19
Determination of Section 106 Effects Recommendations .....	26
U.S. DOT Section 4(f) Applicability Statement.....	27
References Cited.....	28
Appendix A: Tabular Inventory of Surveyed Properties.....	31
Appendix B: Survey Forms for All Surveyed Properties .....	41
Appendix C: Figures .....	154
Appendix D: Historic Aerials .....	167
Appendix E: Schematics .....	170
Appendix F: Consulting Party Comments .....	178
Appendix G: Project Area Photographs (from PCR).....	185



## Project Identification

- Report Completion Date: 07/29/2019
- Date(s) of Fieldwork: 06/24/2019 – 06/25/2019
- Survey Type: ☐ Windshield ☒ Reconnaissance ☐ Intensive
- Report Version: ☒ Draft ☐ Final
- Regulatory Jurisdiction: ☒ Federal ☐ State
- TxDOT Contract Number: N/A
- District or Districts: Dallas
- County or Counties: Denton
- Highway or Facility: SL 288
- Project Limits:
  - From: IH 35W
  - To: IH 35
- Main CSJ Number 2250-02-014
- Report Author(s): Kurt Korfmacher and Paige Ritter, AmaTerra Environmental, Inc.
- Principal Investigator: Kurt Korfmacher and Deborah Dobson-Brown, AmaTerra Environmental, Inc.
- List of Preparers: Kurt Korfmacher and Paige Ritter: Authorship; Erin Mace and Paige Ritter, Survey; Vanessa Cragle: GIS/maps



## Project Description

- **Project Type:** New Location Roadway
- **Proposed Project Activities:**

The Texas Department of Transportation (TxDOT), in conjunction with Denton County, is proposing the construction of a four-lane new location frontage road system for State Loop (SL) 288 from Interstate Highway (IH) 35W south of Denton to IH 35 north of Denton, in Denton County, Texas. The distance of the proposed project is approximately 9.0 miles. The proposed project right-of-way (ROW) would include a median that would accommodate the future construction of an ultimate main-lane facility. Construction of the ultimate main-lane facility would be based on projected traffic and funding and would require additional environmental analysis prior to construction.

The new location SL 288 frontage road system would include a northbound and southbound frontage road facility. For rural areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) and 8-foot wide inside and outside shoulders in each direction, with open ditch drainage. For urbanized areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) in each direction, with curb and gutter drainage. The facility would also include 6-foot wide sidewalks along both sides of the road throughout the project limits. The proposed project ROW would include a median (variable width) that would accommodate the future construction of an ultimate main-lane facility.

The proposed project would also construct intersections at six (6) major crossroads as follows: John Paine, Farm-to-Market Road (FM) 2449, Tom Cole/FM 1515, Jim Christal Road, U.S. Highway (US) 380, and Masch Branch Road. In addition, the proposed project would construct a grade separation at the KCS Railroad and would tie into the grade separations at IH 35 and IH 35W. The proposed SL 288 project (frontage road system) would likely be constructed in two phases based on traffic needs and project funding. A logical sequence for staging the various elements for construction of the new location frontage road system could be as follows:

- Phase 1 would construct a single two-lane, two-way frontage road, and would also acquire the proposed ROW to accommodate the frontage roads and the future ultimate main-lane facility.
- As traffic warrants and funding becomes available, Phase 2 would involve the construction of the two-lane frontage road, which would include the conversion of the two-way frontage road built in Phase 1 to a one-way operation, and the construction of grade separations at specific high-volume intersections.
- Phase 3 (a separate project) would involve the construction of the ultimate main-lane facility in both directions. Construction of the ultimate main-lane facility would be based



on projected traffic and funding and would require additional environmental analysis prior to construction.

The project area includes approximately 26.6 acres of existing roadway ROW, 401.5 acres of proposed ROW, 1.2 acres of proposed permanent drainage easements, and 13.2 acres of proposed ROW by others.

- **Total Project Length:** Approximately 9.0 miles
- **New Right of Way (ROW):** 414.738 acres
- **Permanent Easement Acreage:** 1.174 acres
- **Temporary Easement Acreage:** None
- **Area of Potential Effects (APE):**
  - ☐ Existing ROW
  - ☐ 150' from Proposed ROW and Easements
  - ☒ 300' from Proposed ROW and Easements
  - ☐ Custom: <0'> from Proposed ROW and Easements

Custom APE not applicable
- **Historic-Age Survey Cut-Off Date:** 1977
- **Study Area** 1300 feet from edge of existing or proposed new ROW and easements

## **Section 106 Consulting Parties**

- **Public Involvement Outreach Efforts:**

A public meeting was held on May 12, 2005 at the City of Denton Council Chambers. Based on the submitted comments from the attendees, most indicated they supported the alignment. There was also some opposition to the project, as some attendees did not want increased development in the area or thought the money would be better used on existing roads. A second public meeting was held on March 28, 2019 at McMath Middle School in Denton. Most of the commenters supported the project, with a couple commenters being concerned about access



to individual properties and safety of the outside shared use lane with bicyclists. No concerns about historic resources were brought up at either meeting.

- **Identification of Section 106 Consulting Parties:**

Consulting parties were identified through the standard list of interested parties for TxDOT projects. This list includes but is not limited to county historical commissions, certified local governments, other federal agencies involved in the Section 106 process, and historical societies with a standing expressed interest in the types of historic-age resources likely to be encountered and identified in the project APE.

Denton County Historical Commission

Jon Mount, Commission Chair

425 100F Street, Apt. #2007

Denton, TX 76201

214-478-3226

[jonathan.mount@unt.edu](mailto:jonathan.mount@unt.edu)

City of Denton

Roman McAllen, Historic Preservation Officer

215 West Hickory

Denton, TX 76201

940-349-8382, 940-349-7707

[roman.mcallen@cityofdenton.com](mailto:roman.mcallen@cityofdenton.com)

- **Section 106 Review Efforts:**

The CHCs were contacted by project historians on behalf of TxDOT via email on June 7, 2019, requesting information on any known resources within the project area or beneficial sources for information. Copies of the letters and responses may be found in **Appendix F**.

- **Summary of Consulting Parties Comments:**

A formal response was received by the City of Denton's Historic Preservation Officer, Roman McAllen, acknowledging his receipt of the request. He was not aware of any historic resources of concern in the APE but planned for a City of Denton planning commissioner to drive the route to confirm. Mr. McAllen forwarded a follow-up email regarding a property to a member of the Planning and Zoning Commission, but no reply was received. No formal response was received by the Denton County Historical Commission.



## Stakeholders

- **Stakeholder Outreach Efforts:**

N/A

- **Identification of Stakeholder Parties:**

N/A

- **Summary of Stakeholder Comments:**

N/A

## Project Setting/Study Area

- **Study Area**

- **Current Land Use**

Current land use is semi-rural with pockets of suburban and industrial development. Land use is agricultural, residential, industrial, institutional, and transportation-related. The proposed alignment passes through existing sections of the Denton city limits.

- **Natural Environment**

The natural environment consists mostly of open and cultivated blackland prairie, with stands of native trees, shrubs, and grasses around rivers and streams. The project passes over Hickory Creek, southeast from where the creek forks off forming North Hickory Creek and South Hickory Creek. Hickory Creek begins in northwest Denton as North Hickory Creek and travels southeast to its mouth on Lewisville Lake.

- **Previously Evaluated Historic Resources**

A review of the Texas Historical Commission's (THC) Texas Historic Sites Atlas (Atlas), the TxDOT Historic Bridge Survey database, and TxDOT Historic Districts and Properties databases resulted in the identification of no previously evaluated historic-age resources in the project study area.



- **Previously Designated Historic Properties**

A review of the THC Atlas and survey files, the National Park Service NRHP database, the list of non-archeological State Antiquities Landmarks (SAL), and the list of Recorded Texas Historic Landmarks (RTHL) resulted in the identification of no previously designated historic properties within the project study area, including bridges.

- **Previously Designated Historic Districts**

A review of the THC Atlas and survey files, the National Park Service NRHP database, the list of non-archeological SAL, and the list of RTHL resulted in the identification of no previously designated historic districts in the project study area.

- **Historic Land Use**

Historically the land use was primarily agricultural within the project area. Following the founding of Denton County in 1846, ranching was the primary agricultural pursuit. Ranching soon gave way to subsistence farming until the introduction of the railroads in the 1880s. Farmers' yields could be shipped to market, while cattle could be transported by rail. Towns emerged along the railsystems, and the City of Denton became the agricultural center of the "prairie wheat belt," west along the railroads. Krum, northwest of the project area, and other neighboring towns, housed agricultural storage and production facilities (Thurman, 2010). Stock raising and general farm crops, including cotton, corn, wheat, oats, and peanuts were the main industries in Denton by the 1930s (Cowling, 1936: 45). Suburban development grew following World War II and the introduction of IH 35 in the early 1960s east of the project area towards the City of Denton. Denton city limits expanded in all directions. By the 1970s, extant farms decreased by over half, while their average size more than doubled (Campbell, 2003: 408).

- **Current Land Use and Environment**

Current land use is semi-rural with pockets of suburban and industrial development. Land use is agricultural, residential, industrial, institutional, and transportation-related. The project area consists of suburban development on the north end towards the city of Krum (population 5,020) and the east side towards the city of Denton (population 136,268), transitioning to more rural and undeveloped parcels of land with interspersed commercial and residential development on the south end and west side. The heaviest development occurs north of West US 380. The proposed alignment passes through existing sections of the Denton city limits. The natural environment consists mostly of open and cultivated blackland prairie, with stands of native trees, shrubs, and grasses around rivers and streams. The project passes over Hickory Creek, southeast from where the creek forks off forming North Hickory Creek and South Hickory Creek. Hickory Creek begins in northwest Denton as North Hickory Creek and travels southeast to its mouth on Lewisville Lake.



- **Historic Period(s) and Property Types**

Based on the resources identified in the project APE, the historic period stretches from the early twentieth century (1920s) to the mid-1970s. Property types are primarily residential and agricultural, with a few disassociated agricultural buildings and structures. Most resources were built in the post-war period spanning into the 1970s, with some predating World War II.

- **Integrity of Historic Setting**

The historic setting of the project area was once exclusively rural, with limited development near city and town outskirts. This began changing with the growth of the City of Denton and the establishment of the interstate highway system, culminating in the construction of IH 35 in the early 1960s and IH 35W in 1970. Since the historic period, the development of the interstate has introduced more suburban style buildings to the landscape, both as strictly residential homes and primary residences on farmsteads. New development, particularly residential neighborhoods, is slowly converting farmland to suburban land uses, particularly east of the project area towards the City of Denton. Agricultural land is still present, but individual farmsteads have shrunk, gone dormant, or disappeared; much of the cultivated land lacks a farmstead core. In other cases, previously cultivated land is overgrown and vacant/not in use, most original farmstead structures nonextant. As such, the integrity of the historic setting is mixed at best and declining.



## Survey Methods

### ▪ Methodological Description

As stipulated in the 2015 Programmatic Agreement among the Federal Highway Administration, the Texas Department of Transportation, the Texas State Historic Preservation Officer, and the Advisory Council on Historic Preservation Regarding the Implementation of Transportation Undertakings, the APE is 300 feet beyond the proposed ROW and easement boundaries. The APE includes all parcels of land that are partially or wholly contained within the limits of the APE.

Multiple digital photographs were taken of each resource of historic-age and accessible. When possible, photographs include at least two oblique views of the primary façade and a side façade. Additional photographs were taken when the surveyor felt a property warranted in-depth documentation. Visible modern buildings or intrusions located on properties with historic-age resources were photographed to show their relationships to the historic-age resources, but were not individually recorded. Each historic-age resource was given a map ID number, keyed to a resource location map, and included in a tabular inventory. The address, when available, or location information and latitude/longitude were recorded and provided in the survey report.

To determine the construction date, project historians use field assessment by a professional historian combined with historic mapping and aerial photography. County appraisal district records (where available) were used to assist with dating changes to the property such as additions and sheds. Data collected in the field included, but not limited to, style, construction date, and any modifications made to the property. Analysis was conducted to determine whether the property was individually eligible for listing in the NRHP or whether it contributed to the significance of a potential historic district.

### ▪ Comments on Methods

All work was conducted and supervised by individuals meeting the Secretary of Interior's Professional Qualification Standards for history and architectural history. The survey complies with ENV Standards of Submission regarding maps, tables, images and image quality, and geographic information system files. Survey maps and project schematics reflect the current proposed ROW as known to project historians on the date of survey.

Fieldwork was conducted on June 24 through June 25, 2019. Weather conditions were fair both days. Rights-of-entry (ROE) for properties varied. Heavy vegetation growth was an issue at many locations, obscuring resources from view and providing limited viewing angles. The vegetation grew too thick for project historians to continue closer to Resource 02. Road closures along Tom Cole Road impeded project historians' ability to survey Resource 03. For safety reasons, project historians were unable to photograph the historic age shed associated with Resource 13 due to a railroad and its gates.



Survey efforts identified a total of 13 properties in the project APE with historic-age resources, all of which were agricultural or domestic properties. Per current TxDOT-ENV guidance, this report does not include any bridges or culverts from 1950 and onward previously determined not eligible for NRHP listing.

## Survey Results

### ▪ Project Area Description

The project area consists of suburban development on the north end towards the city of Krum and the east side towards the city of Denton, transitioning to more rural and undeveloped parcels of land with interspersed commercial and residential development on the south end and west side. The heaviest development occurs north of West US 380.

### ▪ Literature Review

Project historians submitted a research design covering the project area and proposed survey methods on May 22, 2019. The research design was approved by ENV historians in June 2019. In preparation of the research design and this report, project historians reviewed several information sources in order to prepare a history of the project area. Sources included general interest websites, historic and current aerial photography, and historic and current maps. In addition, historians consulted the Texas Historic Sites Atlas, and TxDOT-provided Google Earth layer for information regarding existing historic properties located within the project study area which is shown in **Appendix C**. Online resources such as The Handbook of Texas Online gave researchers an overview of the history of the town of Denton and Denton County. Historic road and county highway maps identified highways constructed near or through the project area. S.G. Reed's *A History of the Texas Railroads* provided information about railroad construction and systems that operated near or through the project area. Additional information came from historic aerial photographs (see **Appendix D**) obtained through the U.S. Geological Survey's EarthExplorer website. In addition, project historians visited Denton County Courthouse-on-the-Square Museum and the Emily Fowler Central Library to further research Denton County, Texas Agricultural Experiment Station No. 6, and the M. T. Cole Ranch.

## Historical Context Statement

### Denton and Denton County: 1841-1970

Denton County is in North Central Texas, between Dallas and Tarrant counties to the south and Cooke and Grayson counties to the north. Its location lends hand to the county's access to the fertile soils of the Grand Prairie to the west and Blackland Prairie to the east. Sandy soil from Oklahoma reaches south into the center of the county, providing a variety of soils for Denton



County's agricultural industry (Odom, 2010). Agriculture and ranching have played significant roles in the development of Denton County, as has the creation, maintenance, and expansion of transportation corridors and systems. Project historians therefore developed the preliminary themes of Settlement and Early Agriculture (1841-1880), Wheat, Cotton, and Agricultural Dominance (1880-1950), Railroads, Early Highways and Development (1880-1940), Higher Education (1890-1961) and Post-World War II Development and Suburbanization (1945-1975) as a framework in which patterns of settlement, land use, and other historic trends along this corridor could be analyzed, and associated properties evaluated.

#### Settlement and Early Agriculture, 1841-1880

Although Denton County shows no evidence of large Indian settlements prior to 1800, remains of small burial grounds and transitory camps have been discovered (Odom, 2010). Anglo settlement of present-day Denton County began in 1841 by William S. Peters, an English businessman, and others, when they received a land grant from the Texas Congress to form the larger Peters Colony, a business venture of Peters' (Odom, 2010). Peters Colony was majority men from the upper south, including Kentucky and Tennessee (Wade, 2010). Earliest settlement began in the early 1840s in the southeastern portion of Denton County and was known as Bridges Settlement. As Bridges Settlement expanded west, additional settlements were established (Bates, 1918: 13). Residents voted and Denton County was organized in 1846. By the 1850s, forty percent of Denton County's population was from the upper south, while the 1860 census reported there were 256 slaves (Knight, 1999: 5).

While Texas was experiencing a boom in wheat production, agriculture in Denton County was limited to subsistence farming due to a lack of water transportation. It was during this decade residents expressed their wishes for a centralized county seat. The city of Denton was founded in 1857 after Hiram Cisco, William Woodruff, and William Loving donated 100 acres in honor of John B. Denton, a minister and lawyer from Tennessee, killed during the raid of the Indian settlement, Keechi Village, in the Battle of Village Creek in 1841. The 100 acres were platted, consisting of 33 blocks and a centralized public square, and auctioned in 1857. The city of Denton was not incorporated until 1866 and continued to experience slow growth (Odom, 2010). By the late 1870s, Denton County experienced rapid population growth in anticipation of the Texas and Pacific Railroad and the Missouri, Kansas and Texas to Dallas Railroad systems. Following their construction, the 1880s witnessed Denton County's largest population boom.

#### Wheat, Cotton, and Agricultural Dominance, 1880-1950

With the founding of Denton as the county seat in 1857 came gradual growth as the city became the local agricultural trade and light agriculturally related manufacturing center with the opening of flour mills, potteries, and a cotton gin. By the 1870s, as the population expanded, more acreage was converted to farmland, setting the stage for an agricultural boom with the arrival of the railroads. With the introduction of the railways in the 1880s, Denton County supported a significant increase in wheat production and continued to place first or second place statewide



in the production of the most valuable cash crop (Odom, 2010). The county witnessed a decline in subsistence crops as the cash crop industry flourished. In addition, as the wheat and cotton industries thrived, the production of beef cattle fell.

One reason for this agricultural switch was the Texas Agricultural Experiment Station (TAES), an agricultural research program established by Texas A&M University to improve farm and ranch conditions. The Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry called for two experiments stations, one in the blackland belt of north or central Texas, the other in the rice belt of south or southeast Texas. However, it was decided experiment substations were necessary due to Texas' varied climates and soils. Three additional substations were opened throughout the state to assess the unique agricultural needs of each region. Denton's substation, Station No. 6, was opened in 1910 to research grain crops, grasses, and legumes. Wheat production continued to advance due in large part to TAES, mechanization, and rising wheat prices (Cory, 1916). A 100.25-acre farm owned by J.N. Rayzor and located west of the City of Denton was offered by the Denton Chamber of Commerce. T.W. Buell became its first superintendent. Experiment work commenced in 1911 (Thurman, 2010). The substation performed experiments on soil preparation, seeding rates, and tillage methods. In 1912, the substation consisted of 120 acres according to the 1912 Texas Agricultural Experiment Stations Twenty-Fifth Annual Report (Youngblood, 1912). However, problems arose, and experimentation became difficult to carry out due to variable soils and an infestation of Johnson grass.

By 1913, the substation was relocated to the J.T. Luper farm consisting of 203 acres on North Masch Branch Road. A residence, two small cottages for laborers, and fencing were soon constructed. V.L. Cory became the superintendent, but he reported on hard times for Station No. 6. C.H. McDowell took over in 1916. During his time as superintendent, McDowell constructed a new superintendent's residence, two cottages, a machine shed and demolished the original barn. In addition, he purchased new agricultural machinery. Despite these improvements, the new substation faced problems, including crop devastation due to a harsh winter and a fire, which compromised the office building during a dry summer in 1925. The office was replaced in 1929. During this time, legislation passed expanding grain crop research, and Station No. 6 hired Dr. I.M. Atkins as an agronomist the following year.

The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. The Great Depression, crop disease, and insect infestation caused devastation for the substation during the 1930s, but Station No. 6 persisted. Historic aerials show the experimental plots, which were originally planted by hand. Original plots were large, but overtime shrunk in size for the purpose of nursery plots. Research in nursery plantings expanded so that research continued to be conducted on privately-owned farms. Station No. 6 became a regular in the local newspapers, which spotlighted the research being conducted and their popular Field Days, which welcomed up to 2,000 visitors, and continued until the stations closing in 1972. By 1942, the farm was expanded to include an additional 132 acres, totaling 335 acres.



Although Denton County's agricultural industry was progressing, it did not experience a proportionate increase in tenant farming or sharecropping. Farming, particularly cotton farming, peaked in the 1920s and began to decline following the Great Depression. The first official terracing school in Denton County was held in 1920 to instruct farmers on the best terracing methods (Cowling, 1936: 48). By 1930, the livestock industry reached its highest record with 34,000 head of cattle and 27,000 head of sheep, and the dairy industry in Denton County, specifically Grand Prairie, ranked among the first in the state. Several creameries in the City of Denton processed approximately 100,000 pounds of butter annually (Cowling, 1936: 69-70). With the advent of World War I came devastation for many farmers who made unwise investments as wheat prices soared then suddenly dropped (Knight, 1999: 14). The citizens of Denton grew concerned with the conservation of the remaining farmland. The North Texas State Teachers College offered a conservation course, while other efforts, including the Civilian Conservation Corps (CCC) began terracing the fields to fight erosion (Knight, 1999: 17). By 1950, more Texans lived in towns and cities of at least 2,500 in population than in small, rural communities (60 percent vs. 40 percent) (Campbell, 2003: 405).

#### Railroads, Early Highways, and Development 1880-1940

The introduction of the railroad in 1881 significantly impacted Denton County growth by more than doubling the population. The Texas and Pacific Railroad (T&P) from Sherman to Fort Worth, and the Missouri, Kansas and Texas to Dallas Railroad (Katy) were completed in 1881 providing Denton County with its first rail outlet. The railroads ran north south, limiting the county's potential to become a manufacturing town with nearby competition, and influencing town locations (Odom, 2010). Nearly a decade prior to its completion, the T&P requested an exorbitant fee of \$120,000 from Denton residents to run tracks through the city center. Denton County and the city of Denton declined to pay this fee, expressing its infeasibility. The T&P conceded and began construction minus the donation. However, legislation of the 1870s to encourage railroad construction led to the exploitation of counties such as Denton, awarding railroad companies with vast acreage in lieu of bonds. In 1882, legislation passed repealing the granting of lands as subsidies. The Katy became the first railroad to enter from the north (Bates, 1918: 171). The railroad's purpose was to relocate business from Missouri, Kansas, and the north and east to a new railway that stretched across Texas and Indian territory. For this reason, the Katy was monikered the "Gateway to Texas." After its completed construction, the Katy also transported oil and wheat from Denton County (Hofsommer, 2010). The last railroad constructed in Denton County was the St. Louis and San Francisco, laid across the southeastern corner of the county (Cowling, 1936: 82). Denton was described as "a railroad town but not a railroad center." Reason being, separate railroads running north, south forty miles to either side of the city of Denton were competition for Denton's railsystem. There was no connection running east-west for the city of Denton to benefit from, hindering trade for the county until the introduction of the highway system. (Cowling, 1936: 172).

To accommodate continued growth of the early twentieth century, the city of Denton extended its boundaries north and west, and invested in a water plant, a sewer system, electric light, and



natural gas lines. As the population rose in the city, interurban lines and streetcar lines were introduced to assist in commuting. Standardized house plans led to the rapid construction of neighborhoods near the universities, improved store fronts, and the renumbering of addresses to accommodate the new. Quakertown, the only African American community of Denton flourished during this era and housed a variety of businesses. A Ford dealership was constructed off the city square in 1911, and a series of changes accommodating the automobile followed its arrival (Knight, 1999: 9, 13).

The Texas Highway Department was established in 1917, altering the existing road system of Denton County with Highway 16, connecting Fort Worth to Gainesville via Denton, a portion of the state's first highway system (Erichman, 2006: 152). The highway was designated part of Superhighway 77 (US 77) in 1925 and paved in the 1930s (Erichman, 2006: 176). Four electric lines established around the city, including the Texas Interurban Railway to Dallas which utilized existing Katy tracks, made long-distance commuting possible (Knight, 1999: 14). Their relevance was short-lived with the rising popularity of the automobile, and by 1925, Denton County possessed 165 miles of all-weather roads (Knight, 1999: 15). Development nearest the city continued despite early suburbanization. Boarding houses and faculty housing were integrated into the urban landscape, and Quakertown, swept into the rapid evolution of Denton, was hastily replaced by a city park in 1923 (Knight, 1999: 15-17). New infrastructure, schools, a hospital, and parks developed in the 1920s, and residents claimed Denton as the "Ideal Home City" (Knight, 1999: 44). Water and sewer systems continued to improve, sidewalks were laid, and two highway projects of the 1930s, Highway 10 to Sherman and Highway 24 to Decatur, provided crucial connections to neighboring cities (Knight, 1999: 18). Despite the introduction of new road systems, the Katy was most prosperous during World War II (Hofsommer, 2010).

#### Higher Education, 1890-1961

Two colleges, the Texas Normal College and Teachers' Training Institute and the Girls' Industrial College, heavily influenced Denton County's economic and cultural growth. Texas Normal College and Teachers' Training Institute, presently named the University of North Texas, was founded by Joshua C. Chilton in 1890 as a private college. The purpose of the institute was to train teachers and educate business and professional men. The first classes were held in 1890, and by 1891, the college received its state charter and permanent location. In the following years, the institute faced financial challenges, and in 1893 the presidency was awarded to John J. Crumley when the school name was inadvertently changed to North Texas Normal College (NTNC). It was not until Menter B. Terrill became president the school experienced a financial upturn. This successful period led to an improved curriculum and increased enrollment. Despite Terrill's success, Denton leaders were interested in a state-funded school, and William H. Bruce became the fourth president of NTNC. With his presidency came further expansion and success. By his retirement in 1923, NTNC became the Southwest's largest teacher training institution. Furthermore, a graduate program was established in 1935.

Enrollment continued to rise into the 1920s until the Great Depression and continued to decline for the duration of World War II. Following the war, the college was renewed and expanded, and



the school name was changed to North Texas State College (NTSC). Enrollment began to rise, and it was stated in a 1956 school newspaper approximately fifty to seventy-five African American students were attending NTSC. NTSC was one of the first southern institutions of higher education to integrate its sports programs. The college name changed again to the North Texas State University when it witnessed further success and the introduction of doctoral degree programs in 1961. The university would not become the University of North Texas until 1988 (La Forte, 2010).

The Girls' Industrial College was founded in 1903 as a result of lobbying efforts for state-funded women's colleges. The purpose of the Girls' Industrial College was to provide women with a practical education and training in domestic sciences. Helen M. Stoddard, Mary Eleanor Brackenridge, and Eliza S. R. Johnson served as the governing board, the first women of a Texas university to do so. Under President Francis M. Bradley, the first four-year bachelor's degrees were awarded in 1915. The institution was recognized as a college in 1916 and was the first educational institution to offer courses in home economics. The Girls' Industrial College continued expanding, establishing its first graduate program in 1930. However, its success was halted, and enrollment plummeted with the beginning of the Great Depression. Following the Great Depression, federal grants supported further expansion. Several name changes occurred before the university became Texas Woman's University in 1957. By the mid-twentieth century, Texas Woman's University gained national recognition for its research in textiles, food, and nutrition. The university continued to progress in the following decades with the establishment of doctoral programs and the admittance of men in 1972 (Joyce, 2010).

#### Post-World War II Development and Suburbanization, 1945-1975

Development of the early twentieth century set the stage for Post-War suburbanization. Denton County was experiencing a rural-to-urban shift. Although Denton supported little war-time industry, the housing market was strong, providing housing for defense plant workers commuting to the Dallas-Fort Worth area. During the early 1940s, the Auxiliary Fire Department was constructed, and the Hartlee Field pilot training program was established. By the second half of the 1940s, both the Denton Municipal Airport and the Homer Flow Memorial Hospital were opened (Knight, 1999: 20). Following the war, Denton County faced a severe water shortage due to drought and sudden population growth as veterans returned home. The Katy, which had previously experienced a period of great success, was also affected by the drought due to lowered shipments (among other crippling circumstances including debt and dated equipment) (Hofsommer, 2010). In response to the water shortage, Lake Dallas was dammed, forming Lake Lewisville, to serve as a reservoir for the county (Knight, 1999: 21). Construction of a third reservoir, Grapevine Lake was completed in 1952 ("Grapevine Lake", 2010).

New roadways and the construction of US 77 defined the 1940s and 1950s. In 1947, the section north of Gainesville to Denton was designated as part of the Blue Star Memorial Highway, honoring those who served in World War II. US 77 through Denton was designated as IH 35 following President Eisenhower's signing of the Federal Aid Highway Act in 1956. By 1963, IH 35 was completed, connecting Dallas to Oklahoma City via Denton County. The introduction



of IH 35 and IH 35 East in the 1950s increased commuting and development began extending past the city boundaries (Erlachman, 2006: 195).

To accommodate the expanding population, the county's first shopping center, Denton City, was opened in 1960 north of Downtown (Knight, 1999: 21). While in operation, Station No. 6 greatly contributed to agricultural research, particularly in the areas of grain production, developing a red-rust resistant oat seed under superintendent, Paul Dunkle, who established the Denton County Pedigreed Grain Association to produce and distribute the seed. The station closed in 1972 under Dr. Gardenhire as superintendent and relocated to Dallas in response to urbanization of north Texas and changing agricultural practices. The smaller tenant farms of the first half of the century gave way to consolidated agribusiness and modernization. Farms across the state decreased in number by over half from the end of the war to 1974. Correspondingly, their size more than doubled over the same period, increasing from an average of 367 acres to 771 acres (Campbell, 2003: 408).

The Dallas-Fort Worth International Airport opened in 1974. Many of the airport's employees took residence in southeast Denton County for the easy commute, further developing Denton County's rural landscape. When the population moved away from the city center, business followed (Odom, 2010). Concerned for the state of the city square, leaders of the city of Denton established both a historic preservation ordinance and a main street program in 1980. This led to the restoration of the Denton Courthouse in 1986 and the revitalization of the courthouse square, encouraging the return of Denton residents to downtown's sidewalks and stores (Knight, 1999: 21). At this time, Denton County noticed a shift in land purpose. Within a few years, horses became the county's most valuable agricultural enterprise. Rural lands for the purpose of horse pastures were on the rise for the first time in over fifty years, and Denton County's rural population was reminiscent of the 1920s.

## **National Register Eligibility Recommendations**

- **Eligible Properties/Districts**

Survey efforts identified no eligible historic properties or districts within the project APE.

- **Ineligible Properties/Districts**

### Domestic Properties

Domestic properties usually refer to residential properties, but also include motels, hotels, hostels, shelters, and other locations where people may sleep. Survey efforts identified domestic properties in the project APE.

A domestic building can be eligible for NRHP listing under Criterion C if it was constructed in or prior to 1977 and it retains a significant amount of its architectural integrity; i.e., it should appear



much as it did at the time of construction or when it was sympathetically altered in or prior to the historic survey cut-off date. Significant additions and unsympathetic alterations, such as the application of synthetic siding, replacement of original wood porch supports with metal, and the replacement of wood-sash or steel casement windows with aluminum units, diminish the building's architectural integrity and make it ineligible for NRHP listing. In addition, a domestic building should be clearly associated with one of the significant historic themes listed above. Buildings eligible under Criteria A or B should have strong historical associations, but can be altered, and do not even have to be particularly noteworthy examples of an architectural style, form, or type.

### *Ranch Style*

The Ranch style (American Ranch, Western Ranch, or California Rambler) originated in the early-1930s in California loosely following the Spanish Colonial precedents in California filtered through Craftsman and Prairie house styles that had been widely popular earlier in the twentieth century. The style remained largely confined to California until after World War II. A combination of factors created a “perfect storm” that led to the wide popularity of the Ranch style in the 1950s and 1960s: the demand for single family housing by World War II veterans starting families; the GI Bill, which provided many different types of loans for returning veterans to buy homes; an increase in automobile ownership, which freed workers from the need to live close to public transportation routes; and the strict FHA-VA guidelines under which developers operated in order to be able to market the houses to buyers using FHA and VA government-subsidized mortgages. Because Ranch houses are very common, the bar of individual architectural significance tends to be high.

Ranch style houses have several notable character-defining features. They are usually horizontally oriented parallel to the street with asymmetrical facades. The roof is low pitched, either gabled or hipped, with large eaves. Windows tend to be large and plentiful. Fixed picture windows and sliding glass doors are common. The overall form emphasizes the horizontal, accentuated by low walls, horizontal wood, brick, or stone siding, and a long, narrow shape with relatively simple floor plans and an attached garage (McAlester 2013: 597-612).

The majority of domestic properties identified by survey efforts are Ranch style houses. Several Ranch style types are represented, including the compact ranch (Resource 05a), the courtyard ranch (Resource 06a), the linear ranch with clusters (Resource 08a), the linear ranch (Resource 10a), and the rambling ranch (Resource 11a). Due to their variety, several roof types were identified, including a lateral gable roof (Resource 05a), a multiple gable roof (Resource 06), a cross- gable roof (Resource 08), and a hip roof (Resources 10a and 11a). Despite their variety, each resource is reflective of the Ranch style. Brick siding is common, along with replacement vinyl or composite siding or other alterations. Windows are commonly replaced with more modern metal sash windows, although some seem to retain their original windows. Additions are present on a few of the buildings, and small porches adorn many of the front facades.



As noted, most of the domestic Ranch style houses are simple to moderate examples of the style at best, and often display minor modifications. Overall, the domestic Ranch style houses in the project APE are modest examples that do not convey any significance or association with important historic events, trends, persons, or architectural movements under Criteria A, B, and C. They are recommended not eligible for NRHP listing.

#### *No Style and Mixed Style Houses*

Resource 07a is a house circa 1968. It does not reflect the popular Ranch style of the period. Due to lack of ROE, vegetation, and the setback of the house, project surveyors were limited on what they could see from the ROW. The house features a high-pitched, cross-gable, metal roof with brick and possibly replacement vinyl siding. Windows are possibly replacement sash windows. The exterior chimney on the west façade appears original. Although the house was constructed post 1952 per USGS aerial imagery it appears to have Craftsman influences, as it has a cross-gable roof, wide overhanging eaves, and a compact façade, but overall, the house does not possess enough defining feature of any one particular style to prescribe it one. The property has no known association with important historic events, trends or persons under Criteria A and B, and is an unremarkable and modified example of mid-twentieth century architecture under Criterion C. It is recommended not eligible for NRHP listing.

#### Agricultural Properties

Agricultural resources include a variety of buildings, objects, and structures with varying roles in the production of crops and livestock. The form of individual elements, as well as the arrangement of the buildings, fields, fence lines, and vehicular access, often reflects the type of farming or ranching originally practiced. Postwar ranches saw a shift to premanufactured metal buildings and silos and an increase in recreational ranches where owners leased their land to active ranches. At some point, landowners separated the homesite plat on one acre or so from the entire acreage to address property taxes and agricultural exemptions. This pattern is not visible from the streetscape but is noticeable when reviewing aerial maps and reviewing county records superimposed over aerial maps.

Agricultural resources may be eligible under Criterion A if they have known associations with a historic event, trend, or ethnic group, or under Criterion B for association with a significant person or family. To be considered eligible in the area of Agriculture, they must show a clear association with historic agricultural methods and retain integrity to convey how such methods were used. Agricultural resources are usually evaluated under Criterion C for the architecture of the primary residence or building.

Agricultural properties, farms and ranches, are best understood when separated into functions: Domestic work zone, Agricultural work zone and fields/pastures. The residential portion of an agricultural property includes a domestic work zone. “Common types of resources found within the domestic work zone are: main house, privy, garage or carport, domestic shed, cistern, well, windmill, well house and pump house, worker housing, chicken coop, storm shelter, smokehouse, [and] landscaping features (including vegetation, fences, gates, paths,



driveways)” (TxDOT 2018 p.5-2). Several properties in the project APE had several agricultural outbuildings of some type (mostly small sheds or barns), but several appear to no longer be used for agricultural purposes.

The agricultural work zone includes structures which support the daily management and operation of the property. Common resources in this area include: barn, work shed, silo, corrals, pens, stock tank, grain storage and self-feeders (TxDOT 2018 p.5-34). “The agricultural zone is usually located close to the domestic work zone, mainly to allow workers easy access to both areas. This zone is also located adjacent to the fields and pastures so equipment and/or feed can be moved directly into the fields and pastures zone” (TxDOT 2018 p.5-34). To access the agricultural zone there is often a driveway direct from the main road separate from the driveway to the main house. The agricultural work zone is often not enclosed by fence.

Fields and pastures are the third zone for an agricultural property. Common resources found in this zone included: drainage ditch, self-feeder, stock tank, corrals, fences, cattle guard, and contouring or terracing for soil conservation.

#### *Free Standing/ Disassociated structures*

Free standing and disassociated structures are outbuildings with no corresponding domestic work zone. Most of these buildings are metal pole barns, hay shelters, or loafing sheds. Dating such structures can be difficult based on appearance, so historic aerials are often used in comparison with contemporary aerials.

Resources 02a, 02b, 08b, 12a, and 13a are free standing or disassociated outbuildings. Resource 02a is a metal barn which appears to be vacant/not in use due to its state of ruin. It is located on an overgrown parcel and is the last remaining barn of several. In addition, Resource 02b, a multi-column storage tank remains on the parcel. Two modern sheds are also located on the property. Historic aerial imagery suggests there was a domestic work area with several barns and agricultural outbuildings on the property until ca. 2013. Resource 08b features a metal barn, disassociated from its domestic work zone, which includes a Ranch style house. The barn is in a state of ruin and appears vacant/not in use. Resource 12a is a shed. It is located on an overgrown parcel, adjacent to a storage tank. No domestic work zone or other agricultural outbuildings are present. These isolated agricultural work zone structures are located in fields or pasture but are generally either abandoned or are vacant/do not appear to be in current use. Although associated with agricultural practices, none of them rises to the level of significance required under Criterion A. They have no known association with persons of historic importance under Criterion B, and have no architectural significance under Criterion C. They are recommended not eligible for NRHP listing.

Resource 13a is tool shed, which is not visible from the ROE due to railroad tracks. While the tool shed is far removed from its associated domestic work zone and agricultural work zone, it is located in associated fields and pastures. The farmstead itself is currently used for raising cattle. Although associated with agricultural practices, the tool shed does not meet an important level of significance to be considered eligible under Criterion A, nor does it have any known



association with important historic persons under Criterion B. It is not a significant architectural resource under Criterion C. It is recommended not eligible for NRHP listing.

### *Agricultural Complexes*

Agricultural complexes are ranches and farmsteads with a historic-age domestic work zone, agricultural work zone, and associated fields or pasture (actively cultivated/grazed or fallow). They vary greatly in size and complexity, ranging from simple compounds with a house and a handful of outbuildings to large organized properties with multiple groupings of outbuildings of differing functions. Many of the agricultural properties identified by the survey did not appear to be used for active agricultural practices, but others did have observable activities occurring at the time of survey.

Resource 01 is the former M.T. Cole Ranch, which once consisted of multiple buildings up through the 1950s and was used for grain cultivation. Minor Thomas Cole, known as Colonel Tom, was a local patron and rancher, known for owning more land in Denton County than anyone else. According to Denton County tax records, he owned 10,000 acres. Originally from Dallas, Cole moved to Denton from Gladewater in 1932 where he raised cattle, foxhounds, and a small herd of buffalo in hopes of preserving their existence in Texas (Denton-Record Chronicle, 1961). Cole and his wife, Jannie, donated the Cole Chapel and organ to the First United Methodist Church. In addition, he was a member of Tannehill Masonic Lodge No. 32 of Dallas and a Shriner. The ranch was the setting for numerous parties and events and was described as a “North Texas showplace” by Denton Record-Chronicle (Denton-Record-Chronicle, 1961).

The property has since been subdivided and most of the buildings have been demolished, including a white twelve-bedroom house and several barns. The land is now used only for cattle grazing. The ranch once consisted of a domestic work zone, an agricultural work zone, and associated fields and pastures. The domestic work zone consists of a masonry building (Resource 01a), termed as either a smokehouse or an apartment washroom by persons with knowledge of the property. The building is vacant/not in use and lacks doors and windows. It features two stories, a low hip roof, exposed rafter tails, 3:2 bays, stone masonry construction, and a lean-to masonry addition at the rear of the building with an exposed, brick chimney. Adjacent to the masonry building is the concrete cistern on a raised concrete base. It is covered in red clay tiles, and per aerial imagery is missing its wood roof. It appears vacant/not in use. Surrounding a yard south of the location of the main house (demolished) is a low standing stone wall (Resource 01c). It is accented by stone piers. The agricultural work zone is comprised of one of the original wood barns (Resource 01d) now in ruin. Resource 01e is the corrals, composed of steel tube fencing. They appear to be vacant/not in use. The associated fields and pastures include the Soil Conservation Service Site 13 Reservoir dam (Resource 01f). The earthen embankment dam is approximately 900 feet long. A concrete pipe serves as a spillway. The original stone entrance gate (Resource 01g) is southeast of the remaining structures, but a modern gate immediately to the west has replaced it.



The former M.T. Cole Ranch is significant under Criterion A at the local level in the area of Agriculture as an expansive example of a mid-century north Texas ranch; under Criterion B at the local level for association with M.T. Cole, a prominent local rancher; and under Criterion C at the local level in the area of Architecture for the unusual stone construction of the remaining apartment building, the tile-covered cistern, and the surviving stone walls. However, the property lacks sufficient integrity to convey its significance, as detailed below.

According to the TxDOT “Agricultural Theme Study for Central Texas,” a property must retain a high degree of integrity of location, setting, feeling and association and sufficient integrity of design, workmanship and materials to be a “visible and tangible link to the past and represent the significant historical agricultural operations” of the property, and the main building should be on its original site (Moore, Jr, et al: 2013, 6-31). The existence of the main house is not required if the ancillary buildings have integrity, but the remaining buildings are either in a state of ruin or are lacking their original architectural features, such as doors, windows, and roofs. Resource 01 is lacking integrity of setting, as the spatial organization of the complex has been compromised. As such, Resource 01 is recommended not eligible under Criterion A.

According to the TxDOT “Agricultural Theme Study for Central Texas,” at least two of the three zones of an agricultural complex should retain integrity of location, association, feeling, and setting. However, integrity of design, materials, and workmanship are also important and should convey a property’s character and sense of past (Moore, Jr, et al: 2013, 6-32). While associated with Minor Thomas Cole, a local patron and rancher, the complex does not possess integrity of setting, design, materials, and workmanship. Resource 01a lacks its original doors and windows, while Resource 01b lacks its roof. At least two barns and the main house are nonextant, while a third barn is in ruin, negatively impacting the integrity of the agricultural and domestic work zones. Therefore, Resource 01 is recommended not eligible under Criterion B.

For an agricultural property to be recommended eligible under Criterion C, at a minimum, the property must have integrity of design, workmanship, and materials. In addition, an agricultural property should have integrity of feeling (Moore, Jr, et al: 2013, 6-32). M.T. Cole Ranch lacks integrity of design due to the condition of its buildings and the demolition of its main house and several barns, which has affected the overall spatial relationship of the three agricultural zones. Therefore, Resource 01 is recommended not eligible under Criterion C.

While project historians were unable to reach Resource 03a due to road closures, aerial imagery shows a historic-age barn and modern agricultural outbuildings. The barn appears to have a rectangular footprint and a metal, gable roof. The parcel still appears to be in agricultural use. The state of the barn is unknown. However, due to the number of modern structures on the parcel, the integrity of setting is compromised. The property does not rise to a level of significance required under Criterion A for important historic events and trends. It has no known association with important historic persons under Criterion B. The barn does not appear to be an outstanding example of craftsmanship or architecture, therefore it is not significant under Criterion C. As such, it is recommended not eligible for NRHP listing.



While a domestic parcel, Resource 04 is a former dairy farmstead, which was comprised of three barns, two of which were dairy barns, a possible pole barn, and a wellhouse. Only one dairy barn, the foundation of the second, a barn, and the wellhouse remain. A modern house is also present, which was relocated to the parcel approximately twenty years ago per the owner's information. Per the owner's information, the remaining dairy barn is scheduled to be demolished soon. The remaining agricultural buildings, including the barn and dairy barn have metal siding over their original wood siding. The dairy barn is in poor condition. Although Resource 04 has participated in agricultural practices, it does not meet a level of significance required under Criterion A for important historic events and trends. The property has no known association with a significant figure under Criterion B, and due to the condition of the remaining agricultural buildings, Resource 04 does not meet the requirements to be considered eligible under Criterion C.

Resource 09 is the Texas Agricultural Experiment Station No. 6. It was opened in this location in 1913 under the Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry. By 1913, the substation was relocated to the J.T. Luper farm consisting of 203 acres on North Masch Branch Road. A residence, two small cottages for laborers, and fencing were soon constructed. V.L. Cory became the superintendent, but he reported on hard times for Station No. 6. C.H. McDowell took over in 1916. During his time as superintendent, McDowell constructed a new superintendent's residence, two cottages, a machine shed and demolished the original barn. In addition, he purchased new agricultural machinery. The office was replaced in 1929. The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. Historic aerials show the experimental plots, which were originally planted by hand. Original plots were large, but overtime shrunk in size for the purpose of nursery plots. Research in nursery plantings expanded so that research continued to be conducted on privately-owned farms. By 1942, the farm was expanded to include an additional 132 acres, totaling 335 acres. While in operation, Station No. 6 greatly contributed to agricultural research, particularly in the areas of grain production and developing a red-rust resistant oat seed under superintendent Paul Dunkle (who established the Denton County Pedigreed Grain Association to produce and distribute the seed).

While the Texas Agricultural Experiment Station No. 6 is significant under Criterion A at the state level for its role in agricultural research, it does not possess sufficient integrity to convey its significance. According to the TxDOT "Agricultural Theme Study for Central Texas," for an agricultural property to be considered eligible under Criterion A, the complex must retain integrity of location, setting, feeling, and association with sufficient levels of integrity of design, workmanship, and materials. For agricultural properties, the landscape must maintain integrity in at least two of its components. The domestic work zone associated with Station No. 6, which contained the superintendent's residence and two cottages for laborers is nonextant, which negatively affects the integrity of the complex. In addition, in the associated fields, the original 335 acres have been subdivided to a level that comprises the complex's ability to convey its widespread use of experimental plots during its period of significance. Once experimental plots,



the remaining acreage is now vacant/not in use and overgrown, negatively impacting the general character of the agricultural landscape. Its agricultural work zone is perhaps the most intact, but is lacking integrity of feeling and setting, as many buildings are nonextant, and several remaining structures are compromised. Therefore, Resource 09 is recommended not eligible under Criterion A.

While many superintendents, who played important roles in agricultural research at Station No. 6 and elsewhere are closely associated with Resource 09, the complex does not maintain sufficient integrity among its three components as previously mentioned. Due to the subdivision of the parcel acreage and the current state of several buildings and structures, integrity of feeling, setting, design, materials, and workmanship. Therefore, Resource 09 is not recommended eligible under Criterion B. Resource 09 does not contain any noteworthy examples of architecture and lacks integrity of design, workmanship, and materials, as required for eligibility under Criterion C according to the TxDOT “Agricultural Theme Study for Central Texas.” The integrity of design of the complex is compromised due to the demolition of several buildings and experimental plots, which has comprised spatial organization and the agricultural landscape. The remaining buildings and structures are in poor condition, negatively impacting integrity of materials and workmanship. As such, Resource 09 is recommended not eligible under Criterion C.

- **Recommendations for Further Study**

No further study is recommended at this time.

## **Determination of Section 106 Effects Recommendations**

- **Direct Effects**

No NRHP listed or eligible properties are located within the project APE. As such, the proposed undertaking would have no direct effect on historic properties in the project area.

- **Indirect, Cumulative or Reasonable Foreseeable Effects**

No NRHP listed or eligible properties are within the project APE, and the proposed undertaking would have no indirect effect on historic properties. The proposed undertaking is thus not anticipated to have cumulative or reasonably foreseeable effects on historic properties in the project area.



## **U.S. DOT Section 4(f) Applicability Statement**

No NRHP listed or eligible properties are in the project APE, and the proposed undertaking would have no effect on historic properties. Proposed project activities would not constitute a use of a historic property under Section 4(f). No Section 4(f) analysis would be required.



## References Cited

Bates, Edward Franklin

- 1918 *History and Reminiscences of Denton County*. Terrill Wheeler Printing, Denton, Texas.  
[http://books.google.com/books/about/History and Remiscences of Denton Coun.html?id=U8kBAAAAMAAJ&printsec=frontcover&source=kp read button#v=onepage&q&f=false](http://books.google.com/books/about/History_and_Remiscences_of_Denton_Coun.html?id=U8kBAAAAMAAJ&printsec=frontcover&source=kp_read_button#v=onepage&q&f=false)

Campbell, Randolph B.

- 2003 *Gone to Texas: a History of the Lone Star State*. Oxford University Press, New York.

Cory, Vivian

- 1916 Progress Report, Texas Substation No. 6, Denton, Texas, 1909-14. Texas Agricultural Experiment Station, College Station. Accessed via Texas A&M University Digital Library, <http://txspace.tamu.edu/handle/1969.1/3504> (accessed April 3, 2009)

Cowling, Mary Jo

- 1936 *Geography of Denton County*. Department of Geography, North Texas State Teachers College. Banks Upshaw & Company, Dallas, Texas.

Dallas Morning News

- 1941 *Texas Almanac and Industrial Guide*. A.H. Belo Corporation, Dallas.  
1952 *Texas Almanac and Industrial Guide*. A.H. Belo Corporation, Dallas.  
1961 *Texas Almanac and Industrial Guide*. A.H. Belo Corporation, Dallas.  
1972 *Texas Almanac and Industrial Guide*. A.H. Belo Corporation, Dallas.

Denton-Record Chronicle

- 1955 *Sea Scout Charter Presented Jaycees*. Newspapers.com. Denton, Texas (accessed June 25, 2019).  
1960 *M.T. Cole Ranch Owner, Dead At 78*. Newspapers.com. Denton, Texas (accessed June 25, 2019).  
1961 *Two Denton Will Miss*. Newspapers.com. Denton, Texas (accessed June 25, 2019).

Erlichman, Howard

- 2006 *Camino del Norte: How a Series of Watering Holes, Fords, and Dirt Trails Evolved into Interstate 35 in Texas*. Texas A&M University Press, College Station, Texas.

Handbook of Texas Online, s.v.

- 2010 "Grapevine Lake." <https://tshaonline.org/handbook/online/articles/rog06> (accessed May 7, 2019)



- 2010 "Hickory Creek (Denton County)." <http://www.tshaonline.org/handbook/online/articles/rbh61> (accessed May 6, 2019)
- Hartmann, Clinton P.  
2010 *Handbook of Texas Online*, s.v. "Wheat Culture."  
<http://www.tshaonline.org/handbook/online/articles/fde43> (accessed May 7, 2019)
- Hofsommer, Donovan L.  
2010 *Handbook of Texas Online*, s.v. "Missouri-Kansas-Texas Railroad."  
<http://www.tshaonline.org/handbook/online/articles/fde43> (accessed May 7, 2019)
- Hoole, W. Stanley  
2010 *Handbook of Texas Online*, s.v. "Denton, John Bunyan."  
<http://www.tshaonline.org/handbook/online/articles/fde43> (accessed May 7, 2019)
- Humble Oil  
1925 Highways of Texas. Humble Oil and Refining Company, Houston.
- Knight, Lila  
1999 *National Register of Historic Places Multiple Property Documentation Form: Historic and Architectural Resources of Denton, Texas, 1882-1949*. (Kyle, Texas: City of Denton Certified Local Government Program) [http://www.cityofdenton.com/CoD/media/City-of-Denton/Business/Development%20Review/Historic%20Preservation/NationalRegisteredDistrict\(1\).pdf](http://www.cityofdenton.com/CoD/media/City-of-Denton/Business/Development%20Review/Historic%20Preservation/NationalRegisteredDistrict(1).pdf) (accessed May 8, 2019)
- La Forte, Robert S.  
2010 *Handbook of Texas Online*, s.v. "University of North Texas."  
<http://www.tshaonline.org/handbook/online/articles/fde43> (accessed May 7, 2019)
- Moore, David W. Jr., M.D. Freeman, and M. Russo  
2013 *Agricultural Theme Study for Central Texas*. Texas Department of Transportation Historical Report No. 2013-01. Texas Department of Transportation, Austin.
- Odom, E. Dale  
2010 *Handbook of Texas Online*, s.v. "Denton County"  
<http://www.tshaonline.org/handbook/online/articles/hed05> (accessed May 7, 2019)  
2010 *Handbook of Texas Online*, s.v. "Denton, TX (Denton County)"  
<http://www.tshaonline.org/handbook/online/articles/hed05> (accessed May 7, 2019)



Reed, S. G.

- 1941 *A History of the Texas Railroads and of Transportation Conditions under Spain and Mexico and The Republic and The State*. St. Clair Publishing Company, Houston. Reprinted 1981 by Arno Press, New York.

Texas Department of Transportation

- 2009 *Highway Designation Files*, s.v. "US Highway No. 77," Texas Department of Transportation, <http://www.dot.state.tx.us/tpp/hwy/sh/sh0099.htm>

Thompson, Joyce

- 2010 Handbook of Texas Online, s.v. "Texas Woman's University."  
<http://tshaonline.org/handbook/online/articles/fde43> (accessed May 7, 2019).

Thurman, Nita

- 2010 "Texas Agricultural Experiment Station No. 6."

Youngblood, B.

- 1913 *Texas Agricultural Experiment Stations*. "Twenty-Fifth Annual Report," Von Voeckmann-Jones Co., Printers, Austin, Texas.



## **Appendix A: Tabular Inventory of Surveyed Properties**



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
01a	No Address, FM 2449 33.186176, -97.205997	AGRICULTURE/ Vacant	No Style	Ca. 1920	Resource 01a is a two-story masonry building with fieldstone walls, wood-frame windows with concrete lintels, and a hipped roof with modest eaves and exposed rafter tails. A matching saltbox addition is on the east side along with a brick chimney. The building has been called both a “smokehouse” and an “apartment washroom” by persons with knowledge of the property. The building is vacant, with no windows or doors. The building is a remnant of the former Cole Ranch. Visibility was limited due to vegetation and roaming livestock.	Not Eligible
01b	No Address, FM 2449 33.186176, -97.205997	AGRICULTURE/ Cistern	No Style	Ca. 1920	Resource 01b is a large concrete cistern on a raised concrete base, covered with red clay tiles. The roof is not visible, but aerial photos suggest it is missing and may have once been wood. The cistern is no longer in use.	Not Eligible
01c	No Address, FM 2449 33.185775, -97.206128	AGRICULTURE/ Walls	No Style	Ca. 1920	Resource 01c is a series of stone walls that once enclosed a yard in front of the main house (demolished).	Not Eligible
01d	No Address, FM 2449 33.186409, -97.204884	AGRICULTURE/Ruin	No Style	Ca. 1940	Resource 01d is a collapsed wood barn. Nothing structural remains.	Not Eligible
01e	No Address, FM 2449 33.185718, -97.204535	AGRICULTURE/ Corral	No Style	Ca. 1955	Resource 01e is an animal corral composed of a series of steel tube fencing, with a steel tube cattle gate. Historic aerials show a barn was once located adjacent to the corrals, but it has been demolished.	Not Eligible
01f	No Address, FM 2449 33.185047, -97.205264	AGRICULTURE/Dam	No Style	Ca. 1955	Resource 01f is the Soil Conservation Service Site 13 Reservoir dam. The earthen embankment dam is roughly 900 feet long with a single concrete pipe serving as a spillway. It impounds a section of Hickory Creek.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
01g	No Address, FM 2449 33.177147, -97.202229	AGRICULTURE/Gate	No Style	Ca. 1920	Resource 01g is the original stone gate for the Cole Ranch. It is no longer in use and has been replaced by a steel gate immediately to the west.	Not Eligible
02a	No Address, Tom Cole Road 33.204486, -97.210206	AGRICULTURE/Barn	No Style	Ca. 1965	Resource 02a is a barn of frame construction featuring a metal saltbox roof, vertical wood siding painted red, four open bays running parallel to the roof ridgeline, and a gable-side entry on the south façade. The barn is vacant/not in use. The west-half of the roof is missing, exposing the rafters. A fence extends from the east façade, forming a pen.	Not Eligible
02b	No Address, Tom Cole Road 33.204252, -97.207320	AGRICULTURE/storag e tank	No Style	Ca. 1965	Resource 02b is an elevated multi-column storage tank. It is supported by four steel columns. A steel ladder is attached to the tank.	Not Eligible
03a	7420, Tom Cole Road 33.207715, -97.207631	AGRICULTURE/ Barn	No Style	Ca. 1969	Resource 03a includes a barn ca. 1969 per a USGS 1969 aerial view. Due to road closures, access was limited. Information regarding Resource 03 was gathered from aerial imagery. Storage tanks and a possible shed are present but are not of historic age (ca. 2008 and ca. 2013, respectively). The barn features a rectangular footprint and a metal gable roof.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
04a	6376 Jim Christal Road 33.220790, -97.202287	DOMESTIC/barn	No Style	Ca. 1940	Resource 04a is the primary barn ca. 1940 per the owner's information. It features a metal, gable roof with a metal shed roof over an addition to the south. The foundation material is dirt/earth and concrete. The barn has metal siding and vertical wood siding, gable and side gable entry points, a vent in the east gable, and sliding doors. The addition is comprised of four open bays, a fifth partially enclosed with metal siding. Several sheets of metal roofing, primarily towards the west gable, are missing, exposing the frame construction. Evidence suggests the metal siding was applied over the barn's original horizontal wood siding. The barn is currently used as storage and a garage. Per the owner's information, there are plans to soon demolish the barn. A modern house and modern tool shed are associated with the barn, among additional historic-age agricultural buildings.	Not Eligible
04b	6376 Jim Christal Road 33.221065, -97.202378	DOMESTIC/barn	No Style	Ca. 1940	Resource 04b is a barn featuring metal siding over vertical wood siding, a metal side gable roof, a concrete foundation, gable side entries, and seven windows along the south façade. Evidence suggests the metal siding was installed over the original wood siding, and the windows were boarded up using the same material.	Not Eligible
04c	6376 Jim Christal Road 33.220432, -97.202466	DOMESTIC/ wellhouse	No Style	Ca. 1940	Resource 04c is a wellhouse ca. 1940 per the owner's information. It features a metal shed roof and vertical wood siding. The wellhouse has three bays along the south façade with a brick addition to the east, which consists of a metal flat roof and a single bay.	Not Eligible
04d	6376 Jim Christal Road 33.220179, -97.201957	DOMESTIC/barn foundation	No Style	Ca. 1940	Resource 04d is the concrete foundation of a ca. 1940s dairy barn per the owner's information. It has a rectangular footprint oriented east/west with a terracing effect, sloping downward to the east.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
05a	6430 Jim Christal Road 33.220574, -97.203271	DOMESTIC/ single-family dwelling	Ranch	Ca. 1972	Resource 05a includes a ca. 1972 brick Ranch house with a rectangular footprint, metal side-gable roof, an addition to the west with vertical wood siding and a metal roof, single-hung windows, and a partial-width porch.	Not Eligible
05b	6430 Jim Christal Road 33.221334, -97.203664	DOMESTIC/ Barn	No Style	Ca. 1972	Resource 05b is a machine shed featuring a rectangular footprint, a metal side-gable roof, metal siding, a rolling garage door, and a six-panel door. The machine shed currently serves as storage for large machinery.	Not Eligible
05c	6430 Jim Christal Road 33.220353, -97.203615	DOMESTIC/ Barn	No Style	Ca.1972	Resource 05c is a wellhouse featuring a square footprint, a metal gable roof, metal siding, painted red, and what appears to be a closed window on the east façade.	Not Eligible
06a	6488 Jim Christal Road 33.220632, -97.204413	DOMESTIC/ single-family dwelling	Ranch	Ca.1977	Resource 06a is a single-family dwelling ca. 1977. Aerial images show the house and its outbuildings were not present before 1970 and were present by 1982. The Ranch-style house features an asymmetrical H-shaped footprint, which forms a recessed porch, brick and vertical wood siding, and an asphalt shingle, multiple gable hip roof. The house is on a concrete slab foundation. The chimney is placed on the rear slope of the house. Windows are 4/4 single-hung with a rounded arch. Two brick half-walls flank either side of the front façade, and two brick planters extend from the two outer bays of the front façade. The house is in use.	Not Eligible
06b	6488 Jim Christal Road 33.220913, -97.204392	DOMESTIC/barn	No Style	Ca. 1977	Resource 06b is the barn. It features a cross-gable, metal roof and metal siding. The barn is six bays wide (east to west), and several additions are attached to the rear giving the originally rectangular footprint an irregular footprint. These additions have metal shed roofs. The barn has slider windows, rolling doors on the south and east façades, and a six-panel door on the south façade.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
06c	6488 Jim Christal Road 33.221278, -97.204199	DOMESTIC/pole barn	No Style	Ca. 1977	Resource 06c is the pole barn. It features a square footprint, 1:1 bay, with the open bay on the south façade. The pole barn has a metal, shed roof and metal siding. It is currently being used as storage for large machinery.	Not Eligible
07a	No Address, US 380 33.225961, -97.204914	DOMESTIC/ Single-family dwelling	Craftsman influence	Ca. 1968	Resource 07a is a house with a high-pitched, cross-gable, metal roof and brick and vinyl siding. The house features a rectangular footprint and a partial-width open porch. The two windows visible from the ROW appears to be a 1/1 single or double-hung window. An exterior chimney is located on the west façade. Per 1968 aerial imagery, the house is original to the parcel, however, it appears there have been alterations, including vinyl siding, a new metal roof, and possibly replacement windows.	Not Eligible
07b	No Address, US 380 33.226149, -97.204780	DOMESTIC/barn	No Style	Ca. 1968	Resource 07b is a barn, which was difficult to analyze from the ROW due to vegetation. It features a rectangular footprint and a metal, gable roof. It appears to have either metal or vinyl siding.	Not Eligible
07c	No Address, US 380 33.226289, -97.204609	DOMESTIC/barn	No Style	Ca. 1977	Resource 07c is a barn, which was difficult to analyze from the ROW due to vegetation. It features a square footprint, a saltbox or gable with shed-roofed addition along the east façade. It appears to have metal siding.	Not Eligible
07d	No Address, US 380 33.225961, -97.204914	DOMESTIC/storage tank	No Style	Ca. 1977	Resource 07d is a storage tank. It is identifiable from a 2018 aerial image but is not visible from the ROW. It appears to be an elevated multi-column storage tank.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
08a	7041 W US 380 33.230782, -97.206022	DOMESTIC/single-family dwelling	Ranch	Ca. 1967	Resource 08a is a linear-with-clusters Ranch style house ca. 1967. It features an asphalt shingle, cross-gable roof. Painted brick and horizontal wood siding in the gable ends, six-panel doors on the north façade and original 4/4 and 9-pane and 15-pane windows. A portico is located on the south façade with its original decorative iron column. Louvred shutters adorn the windows on the south façade. An addition with a flat roof and vertical wood siding is located on the west façade of the original footprint. A chimney is located on the rear slope, offset left (east). The house appears to be in use.	Not Eligible
08b	7041 W US 380 33.230153, -97.209027	DOMESTIC/barn	No Style	Ca. 1967	Resource 08b is a barn featuring a metal, gable roof and metal siding. According to aerial imagery, it appears the south side of the roof is missing, exposing the frame construction. The barn is no longer in use.	Not Eligible
09a	No Address, N. Masch Branch Road 33.240408, -97.195857	AGRICULTURE/barn	No style	Ca. 1935	Resource 09a is one of the barns associated with the Texas Agricultural Experiment Station No. 6. The experiment station was opened in this location in 1913 under the Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry. The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. The station was closed in 1972. The hay barn features a rectangular footprint, a modern metal gambrel roof, and vertical wood siding. The barn has gable and gable-side entries and features a hay hood. The barn, along with the other resources part of Experiment Station No. 6 are vacant/not in use. Many original agricultural outbuildings are nonextant.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
09b	No Address, N. Masch Branch Road 33.240071, -97.196331	AGRICULTURE/shed	No Style	Ca. 1935	Resource 09b is a shed with a rectangular footprint, metal shed roof, vertical wood siding, and a 5-panel door on the east façade. The shed is vacant/not in use.	Not Eligible
09c	No Address, N. Masch Branch Road 33.239935, -97.196114	AGRICULTURE/wellhouse	No Style	Ca. 1945	Resource 09c is a wellhouse. It features a square footprint, four brick facades, and an entry on the south façade. The roof is missing, as well as several rows of bricks. The wellhouse is currently vacant/not in use.	Not Eligible
09d	No Address, N. Masch Branch Road 33.240174, -97.196165	AGRICULTURE/shed and greenhouse	No Style	Ca. 1965	Resource 09d includes a shed with an attached greenhouse along its east façade. The shed features a rectangular footprint with a metal gable roof, metal siding, and a gable entry. The entry leads into the greenhouse, which features a metal frame and a gable roof. Several glass panes are present along the roof ridge. It appears the metal siding on the shed is placed over the original horizontal wood siding, which is exposed at the peak of the gable. The shed and greenhouse are vacant/not in use.	Not Eligible
09e	No Address, N. Masch Branch Road 33.240856, -97.195324	AGRICULTURE/Quonset hut	No Style	Ca. 1950	Resource 09e is a Quonset hut. It features a rectangular footprint, a metal barrel roof, and metal siding. Its front (south) façade is four bays wide (east to west) and includes four 4/4 windows, two metal doors, and a vent. It is unclear if the Quonset hut is still in use.	Not Eligible
09f	No Address, N. Masch Branch Road 33.240649, -97.195480	AGRICULTURE/pole barn	No Style	Ca. 1970	Resource 09f is a pole barn, which features a rectangular footprint, a metal shed roof, and metal siding. The front (south) façade has four open bays, divided by metal poles. The interior space is open. The pole barn is currently in use as storage for large machinery.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
09g	No Address, N. Masch Branch Road 33.240353, -97.196063	AGRICULTURE/hay shed	No Style	Ca. 1965	Resource 09g is a hay shed. It features a metal gable roof and an exposed wooden frame. It is vacant/not in use.	Not Eligible
09h	No Address, N. Masch Branch Road 33.239005, -97.196834	AGRICULTURE/gate	No Style	Ca. 1935	Resource 09h is the stone walled/gated entrance to Experiment Station No. 6. It includes two pillars on either side of the driveway and the historical marker for the property.	Not Eligible
10a	3288 N. Masch Branch Road 33.241811, -97.202169	DOMESTIC/single-family dwelling	Ranch	Ca. 1970	Resource 10a is a Ranch-style house ca. 1970. It features a cross-shape footprint, an asphalt shingle cross gable roof, and a concrete slab foundation. The original footprint is brick, while the renovated carport to the west has vertical wood siding. The brick is capped by a single row of large, square stones, which are located beneath the cornice. The windows are 2/2, possibly single or double-hung, and the front (south) façade features a partial-width porch and entry, while the enclosed carport has a half-panel and glass door on the south façade. The house is currently in use.	Not Eligible
10b	3288 N. Masch Branch Road 33.239005, -97.196834	DOMESTIC/wellhouse	No Style	Ca. 1970	Resource 10b is a well-house which features a square footprint, a low hip roof with asphalt shingles and vertical wood siding. The entry is on the south façade. It appears the wellhouse is currently being used for storage.	Not Eligible



Resource No.	Address/ Location	Function/ Sub-function	Architectural Style	Date(s)	Integrity/Comments	NRHP Eligibility
11a	3278 N. Masch Branch Road 33.242055, -97.201639	DOMESTIC/single-family dwelling	Ranch	Ca. 1970	Resource 11a is a brick, Ranch-style house ca. 1970. It features a rambling footprint with three setbacks and a concrete slab foundation and a low hip roof with asphalt shingles. Windows include 1/1 with louvred shutters and a large picture window. A covered stoop supported by a decorative iron column is located on the front (south) façade, while an additional entry is located on the east façade, leading to the carport. A chimney is placed offset left (west) on the front slope. The house is still in use.	Not Eligible
11b	3278 N. Masch Branch Road 32.712123°, -96.316124°	DOMESTIC/machine shed	No Style	Ca. 1970	Resource 11b is a machine shed. It features a rectangular footprint and is two bays wide. The machine shed has a flat, metal roof and metal siding. Two rolling doors are located on the front (south) façade. An open addition with a shed roof is attached to the east façade. The machine shed is currently being used as storage for large machinery.	Not Eligible
11c	3278 N. Masch Branch Road 33.242147, -97.201080	DOMESTIC/stable	No Style	Ca. 1970	Resource 11c is the stable. It features a flat, metal roof, metal siding, and Dutch doors across the eight bays on the front (south) façade. It is unclear whether the stable is still in use due to vegetation cover.	Not Eligible
12a	4081 Harrison Court 33.255155, -97.199262	AGRICULTURE/ shed	No Style	Ca. 1970	Resource 12a is a shed. It features a metal gable roof, metal siding, and a paneled door and single pane window on the south façade. It appears to be vacant/not in use due to the overgrown vegetation and boarded window.	Not Eligible
13a	No Address 33.251469, -97.189240	AGRICULTURE/shed	No Style	Ca. 1977	Resource 13a is a tool shed. Although ROE was granted, surveyors were limited due to railroad tracks and vegetation. Per the owner's information, the shed still exists behind the tree line. Aerial imagery shows a building with a metal gable roof and a rectangular footprint.	Not Eligible



## **Appendix B: Survey Forms for All Surveyed Properties**



Survey Date:	June 24, 2019
Resource No:	01a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Vacant
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01a is a two-story masonry building with fieldstone walls, wood-frame windows with concrete lintels, and a hipped roof with modest eaves and exposed rafter tails. A matching saltbox addition is on the east side along with a brick chimney. The building has been called both a “smokehouse” and an “apartment washroom” by persons with knowledge of the property. The building is vacant, with no windows or doors. The building is a remnant of the former Cole Ranch. Visibility was limited due to vegetation and roaming livestock.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	01a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Vacant
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01a is a two-story masonry building with fieldstone walls, wood-frame windows with concrete lintels, and a hipped roof with modest eaves and exposed rafter tails. A matching saltbox addition is on the east side along with a brick chimney. The building has been called both a “smokehouse” and an “apartment washroom” by persons with knowledge of the property. The building is vacant, with no windows or doors. The building is a remnant of the former Cole Ranch. Visibility was limited due to vegetation and roaming livestock.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	01a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Vacant
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01a is a two-story masonry building with fieldstone walls, wood-frame windows with concrete lintels, and a hipped roof with modest eaves and exposed rafter tails. A matching saltbox addition is on the east side along with a brick chimney. The building has been called both a "smokehouse" and an "apartment washroom" by persons with knowledge of the property. The building is vacant, with no windows or doors. The building is a remnant of the former Cole Ranch. Visibility was limited due to vegetation and roaming livestock.



Obscured view showing chimney, camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	01b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186185, -97.205916
Function/Sub-function:	AGRICULTURE/Cistern
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01b is a large concrete cistern on a raised concrete base, covered with red clay tiles. The roof is not visible, but aerial photos suggest it is missing and may have once been wood. The cistern is no longer in use.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	01b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186185, -97.205916
Function/Sub-function:	AGRICULTURE/Cistern
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01b is a large concrete cistern on a raised concrete base, covered with red clay tiles. The roof is not visible, but aerial photos suggest it is missing and may have once been wood. The cistern is no longer in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	01c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.185775, -97.206128
Function/Sub-function:	AGRICULTURE/Walls
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01c is a series of stone walls that once enclosed a yard in front of the main house (demolished).



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	01c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.185775, -97.206128
Function/Sub-function:	AGRICULTURE/Walls
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01c is a series of stone walls than once enclosed a yard in front of the main house (demolished).



Wall detail, camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	01d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186409, -97.204884
Function/Sub-function:	AGRICULTURE/Ruin
Construction Date:	Ca. 1940
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01d is a collapsed wood barn. Nothing structural remains.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	01d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186409, -97.204884
Function/Sub-function:	AGRICULTURE/Ruin
Construction Date:	Ca. 1940
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01d is a collapsed wood barn. Nothing structural remains.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	01e
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.185718, -97.204535
Function/Sub-function:	AGRICULTURE/Corral
Construction Date:	Ca. 1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01e is an animal corral composed of a series of steel tube fencing, with a steel tube cattle gate. Historic aerials show a barn was once located adjacent to the corrals, but it has been demolished.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	01e
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.185718, -97.204535
Function/Sub-function:	AGRICULTURE/Corral
Construction Date:	Ca. 1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01e is an animal corral composed of a series of steel tube fencing, with a steel tube cattle gate. Historic aerials show a barn was once located adjacent to the corrals but it has been demolished.



Cattle gate, camera facing north.



Survey Date:	June 24, 2019
Resource No:	01f
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.185047, -97.205264
Function/Sub-function:	AGRICULTURE/Dam
Construction Date:	Ca. 1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01f is the Soil Conservation Service Site 13 Reservoir dam. The earthen embankment dam is roughly 900 feet long with a single concrete pipe serving as a spillway. It impounds a section of Hickory Creek.



Camera facing south.



Survey Date:	June 24, 2019
Resource No:	01f
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.185047, -97.205264
Function/Sub-function:	AGRICULTURE/Dam
Construction Date:	Ca. 1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01f is the Soil Conservation Service Site 13 Reservoir dam. The earthen embankment dam is roughly 900 feet long with a single concrete pipe serving as a spillway. It impounds a section of Hickory Creek.



Camera facing west.



Survey Date:	June 24, 2019
Resource No:	01g
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.177147, -97.202229
Function/Sub-function:	AGRICULTURE/Gate
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01g is the original stone gate for the Cole Ranch. It is no longer in use and has been replaced by a steel gate immediately to the west.



Camera facing northwest.



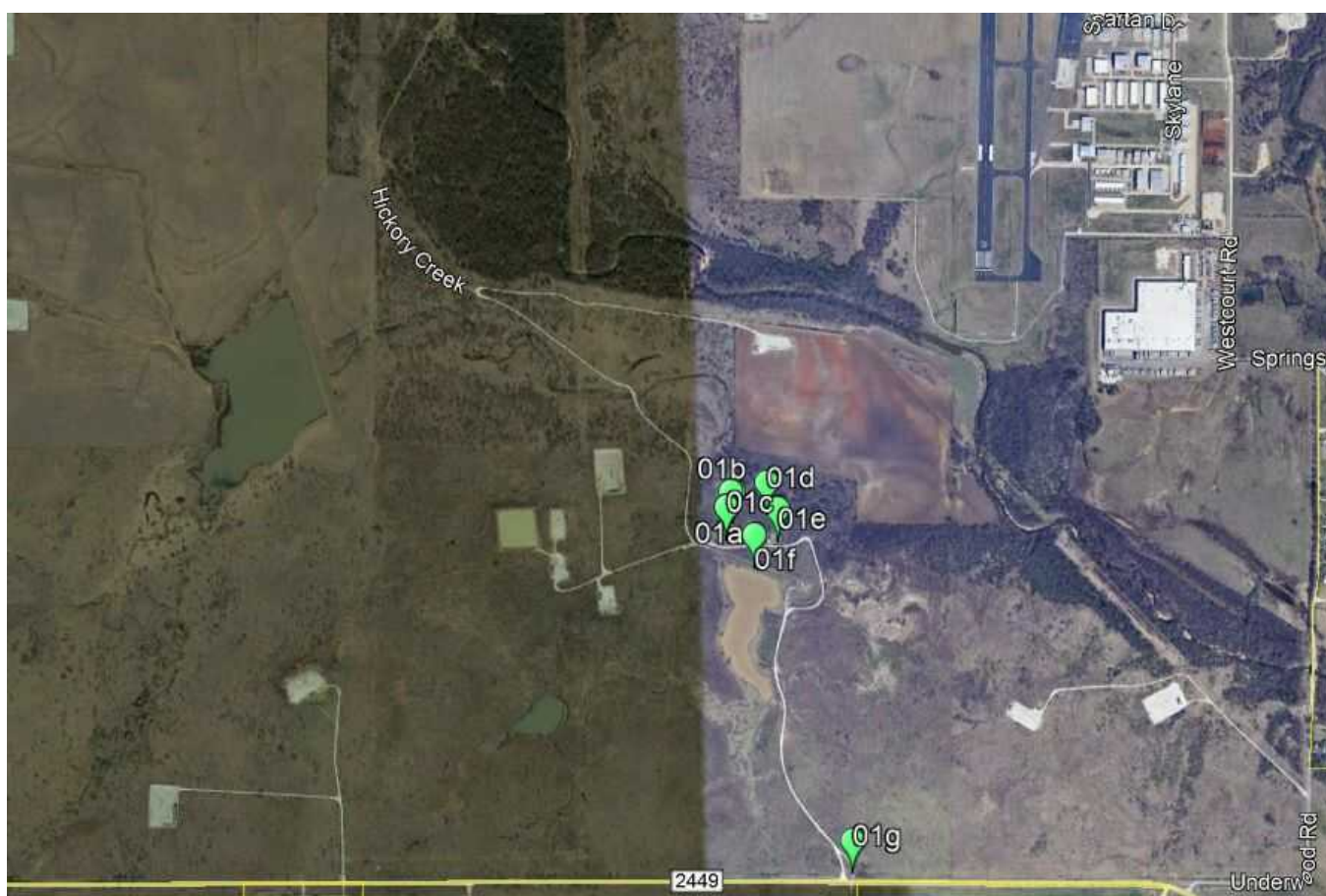
Survey Date:	June 24, 2019
Resource No:	01g
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.177147, -97.202229
Function/Sub-function:	AGRICULTURE/Gate
Construction Date:	Ca. 1920
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01g is the original stone gate for the Cole Ranch. It is no longer in use and has been replaced by a steel gate immediately to the west.



Camera facing northeast.



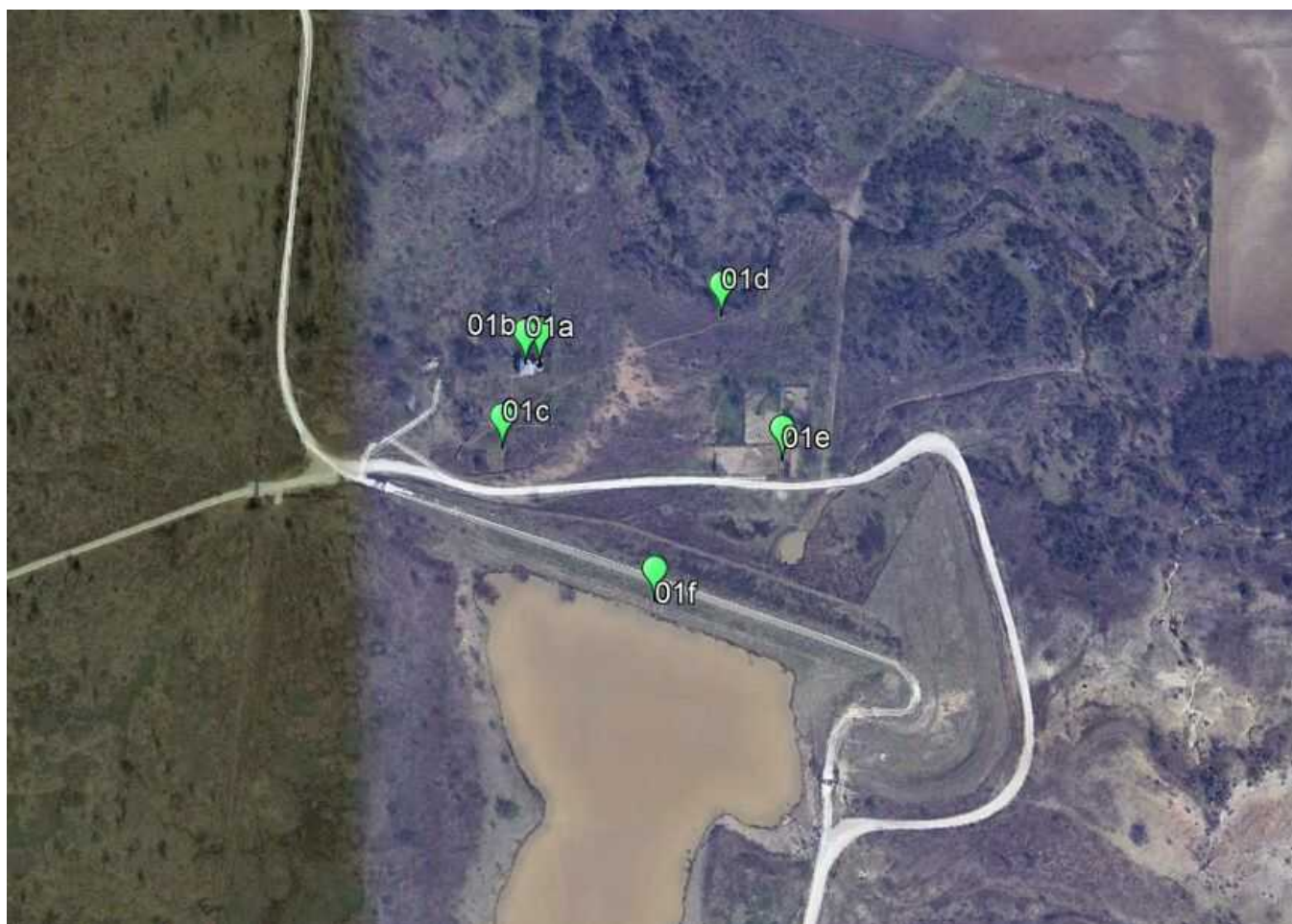
Survey Date:	June 24, 2019
Resource No:	01
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Ranch
Construction Date:	Ca. 1920-1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01 is the former Cole Ranch, which once consisted of a multitude of buildings up through the 1950s and was used for grain cultivation. The property has since been subdivided, most of the buildings have been demolished, and the land is now used only for cattle grazing. Several modern pump jacks and oil/gas related resources are located on the property due to oil leases (these date to the 1980s or later). Demolished buildings include the main house and all of the barns (including a wood Quonset hut style building).



Aerial view facing north.



Survey Date:	June 24, 2019
Resource No:	01
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Ranch
Construction Date:	Ca. 1920-1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01 is the former Cole Ranch, which once consisted of a multitude of buildings up through the 1950s and was used for grain cultivation. The property has since been subdivided, most of the buildings have been demolished, and the land is now used only for cattle grazing. Several modern pump jacks and oil/gas related resources are located on the property due to oil leases (these date to the 1980s or later). Demolished buildings include the main house and all of the barns (including a wood Quonset hut style building).



Aerial view of the ranch core, facing north.



Survey Date:	June 24, 2019
Resource No:	01
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Ranch
Construction Date:	Ca. 1920-1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01 is the former Cole Ranch, which once consisted of a multitude of buildings up through the 1950s and was used for grain cultivation. The property has since been subdivided, most of the buildings have been demolished, and the land is now used only for cattle grazing. Several modern pump jacks and oil/gas related resources are located on the property due to oil leases (these date to the 1980s or later). Demolished buildings include the main house and all of the barns (including a wood Quonset hut style building).



1953 aerial photo of the ranch core. USGS.



Survey Date:	June 24, 2019
Resource No:	01
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, FM 2449 33.186176, -97.205997
Function/Sub-function:	AGRICULTURE/Ranch
Construction Date:	Ca. 1920-1955
NRHP Eligibility:	Not Eligible
Integrity/Comments:	Resource 01 is the former Cole Ranch, which once consisted of a multitude of buildings up through the 1950s and was used for grain cultivation. The property has since been subdivided, most of the buildings have been demolished, and the land is now used only for cattle grazing. Several modern pump jacks and oil/gas related resources are located on the property due to oil leases (these date to the 1980s or later). Demolished buildings include the main house and all of the barns (including a wood Quonset hut style building).



1968 aerial photo of the ranch core. USGS.



Survey Date:	June 24, 2019
Resource No:	02a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204486, -97.210206
Function/Sub-function:	AGRICULTURE/Barn
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02a is a barn of frame construction featuring a metal saltbox roof, vertical wood siding painted red, four open bays running parallel to the roof ridgeline, and a gable-side entry on the south façade. The barn is vacant/not in use. The west-half of the roof is missing, exposing the rafters. A fence extends from the east façade, forming a pen.



Camera facing west.



Survey Date:	June 24, 2019
Resource No:	02a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204486, -97.210206
Function/Sub-function:	AGRICULTURE/Barn
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02a is a barn of frame construction featuring a metal saltbox roof, vertical wood siding painted red, four open bays running parallel to the roof ridgeline, and a gable-side entry on the south façade. The barn is vacant/not in use. The west-half of the roof is missing, exposing the rafters. A fence extends from the east façade, forming a pen.



Camera facing west.



Survey Date:	June 24, 2019
Resource No:	02b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204252, -97.207320
Function/Sub-function:	AGRICULTURE/storage tank
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02b is an elevated multi-column storage tank. It is supported by four steel columns. A steel ladder is attached to the tank.



Camera facing northwest.



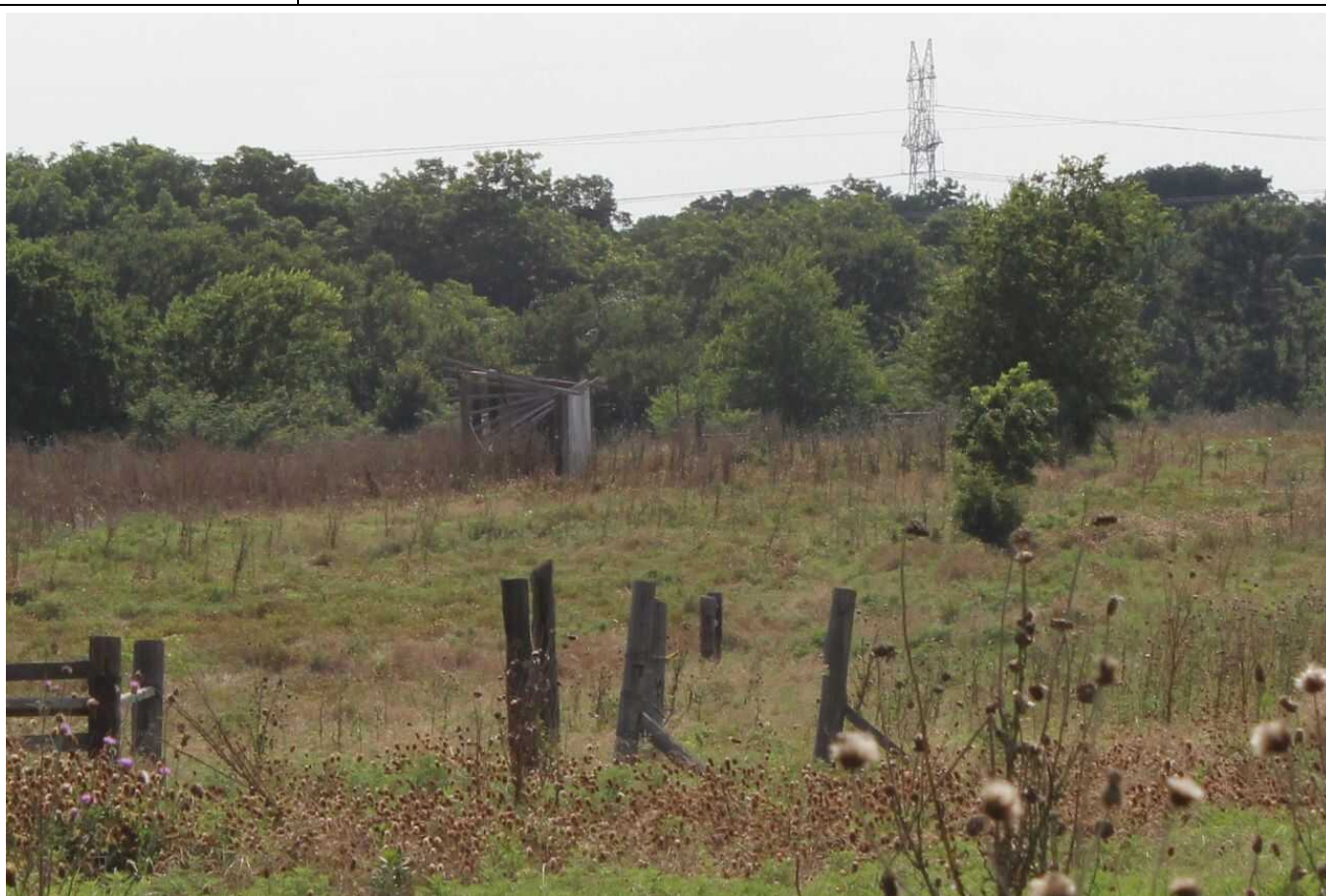
Survey Date:	June 24, 2019
Resource No:	02b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204252, -97.207320
Function/Sub-function:	AGRICULTURE/storage tank
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02b is an elevated multi-column storage tank. It is supported by four steel columns. A steel ladder is attached to the tank.



Camera facing southeast.



Survey Date:	June 24, 2019
Resource No:	02
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204545, -97.209910
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 2009
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02 includes two modern sheds. One shed is east of the barn, while the other is southeast of the barn. Per historic aerials, both sheds were not constructed until ca. 2009 and ca. 2010. Neither are in use.



Camera facing west.



Survey Date:	June 24, 2019
Resource No:	02
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204119, -97.209862
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 2010
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02 includes two modern sheds. One shed is east of the barn, while the other is southeast of the barn. Per historic aerials, both sheds were not constructed until ca. 2009 and ca. 2010. Neither are in use.



Camera facing west.



Survey Date:	June 24, 2019
Resource No:	02
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, Tom Cole Road 33.204252, -97.207320
Function/Sub-function:	AGRICULTURE
Construction Date:	Ca. 1965-2010
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 02 consisted of a house and several agricultural outbuildings (barns and sheds) all of which no longer exist other than two modern sheds.



2013 aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	03a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7420 Tom Cole Road 33.207715, -97.207631
Function/Sub-function:	AGRICULTURE/barn
Construction Date:	Ca. 1969
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 03a includes a barn ca. 1969 per a USGS 1969 aerial view. Due to road closures, the surveyors were limited. Information regarding Resource 03 was gathered from aerial imagery. Storage tanks and a possible shed are present but are not of historic age (ca. 2008 and ca. 2013, respectively). The barn features a rectangular footprint and a metal, gable roof.



Camera facing west.



Survey Date:	June 24, 2019
Resource No:	03a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7420, Tom Cole Road 33.207715, -97.207631
Function/Sub-function:	AGRICULTURE/barn
Construction Date:	Ca. 1969
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 03a includes a barn ca. 1969 per a USGS 1969 aerial view. Due to road closures, the surveyors were limited. Information regarding Resource 03 was gathered from aerial imagery. Storage tanks and a possible shed are present but are not of historic age (ca. 2008 and ca. 2013, respectively). The barn features a rectangular footprint and a metal, gable roof.



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	04a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220790, -97.202287
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04a is the primary barn ca. 1940 per the owner's information. It features a metal, gable roof with a metal shed roof over an addition to the south. The barn has metal siding and vertical wood siding. The foundation material is dirt/earth and concrete with gable and side gable entry points, a vent in the east gable, and sliding doors. The addition is comprised of four open bays, a fifth partially enclosed with metal siding. Several sheets of metal roofing, primarily towards the west gable, are missing, exposing the frame construction. Evidence suggests the metal siding was applied over the barn's original horizontal wood siding. The barn is currently used as storage and a garage. Per the owner's information, there are plans to soon demolish the barn. A modern house and modern tool shed are associated with the barn, among additional historic-age agricultural buildings.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	04a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220790, -97.202287
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04a is the primary barn ca. 1940 per the owner's information. It features a metal, gable roof with a metal shed roof over an addition to the south. The barn has metal siding and vertical wood siding. The foundation material is dirt/earth and concrete with gable and side gable entry points, a vent in the east gable, and sliding doors. The addition is comprised of four open bays, a fifth partially enclosed with metal siding. Several sheets of metal roofing, primarily towards the west gable, are missing, exposing the frame construction. Evidence suggests the metal siding was applied over the barn's original horizontal wood siding. The barn is currently used as storage and a garage. Per the owner's information, there are plans to soon demolish the barn. A modern house and modern tool shed are associated with the barn, among additional historic-age agricultural buildings.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	04b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.221065, -97.202378
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04b is a barn featuring metal siding over vertical wood siding, a metal, side gable roof, a concrete foundation, gable side entries, and seven windows along the south façade. Evidence suggests the metal siding was installed over the original wood siding, and the windows were boarded up using the same material.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	04b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.221065, -97.202378
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04b is a barn featuring metal siding over vertical wood siding, a metal, side gable roof, a concrete foundation, gable side entries, and seven windows along the south façade. Evidence suggests the metal siding was installed over the original wood siding, and the windows were boarded up using the same material.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	04c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220432, -97.202466
Function/Sub-function:	DOMESTIC/wellhouse
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04c is a wellhouse ca. 1940 per the owner's information. It features a metal shed roof and vertical wood siding. The wellhouse has three bays along the south façade with a brick addition to the east, which consists of a metal flat roof and a single bay.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	04c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220432, -97.202466
Function/Sub-function:	DOMESTIC/wellhouse
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04c is a wellhouse ca. 1940 per the owner's information. It features a metal shed roof and vertical wood siding. The wellhouse has three bays along the south façade with a brick addition to the east, which consists of a metal flat roof and a single bay.



Camera facing northwest.



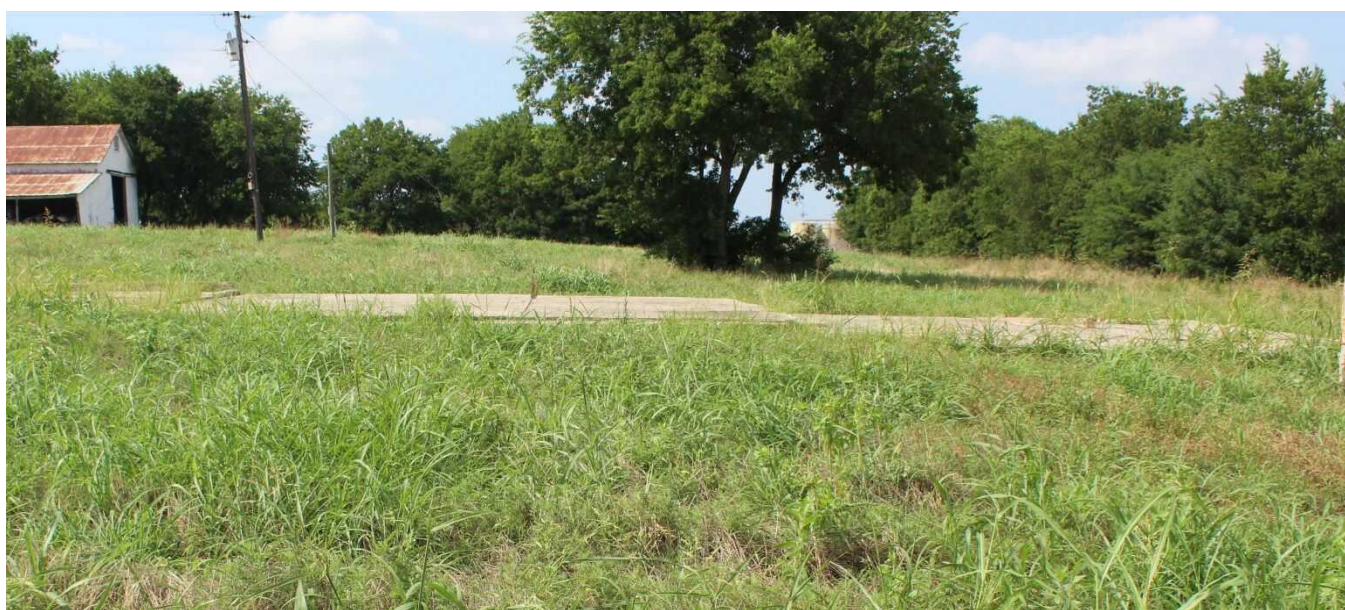
Survey Date:	June 24, 2019
Resource No:	04d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220179, -97.201957
Function/Sub-function:	DOMESTIC/barn foundation
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04d is the concrete foundation of a ca. 1940s dairy barn per the owner's information. It has a rectangular footprint oriented east/west with a terracing effect, sloping downward to the east.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	04d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220179, -97.201957
Function/Sub-function:	AGRICULTURE/foundation
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04d is the concrete foundation of a ca. 1940s dairy barn per the owner's information. It has a rectangular footprint oriented east/west with a terracing effect, sloping downward to the east.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	04
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220609, -97.202798
Function/Sub-function:	DOMESTIC/single family dwelling
Construction Date:	Ca. 1990
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04 includes a modern house ca. 1990 and a modern tool shed ca. 2008 per the owner's information and aerial images.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	04
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220609, -97.202798
Function/Sub-function:	DOMESTIC/shed
Construction Date:	Ca. 2008
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04 includes a modern house ca. 1990 and a modern tool shed ca. 2008 per the owner's information and aerial images.



Camera facing northwest.



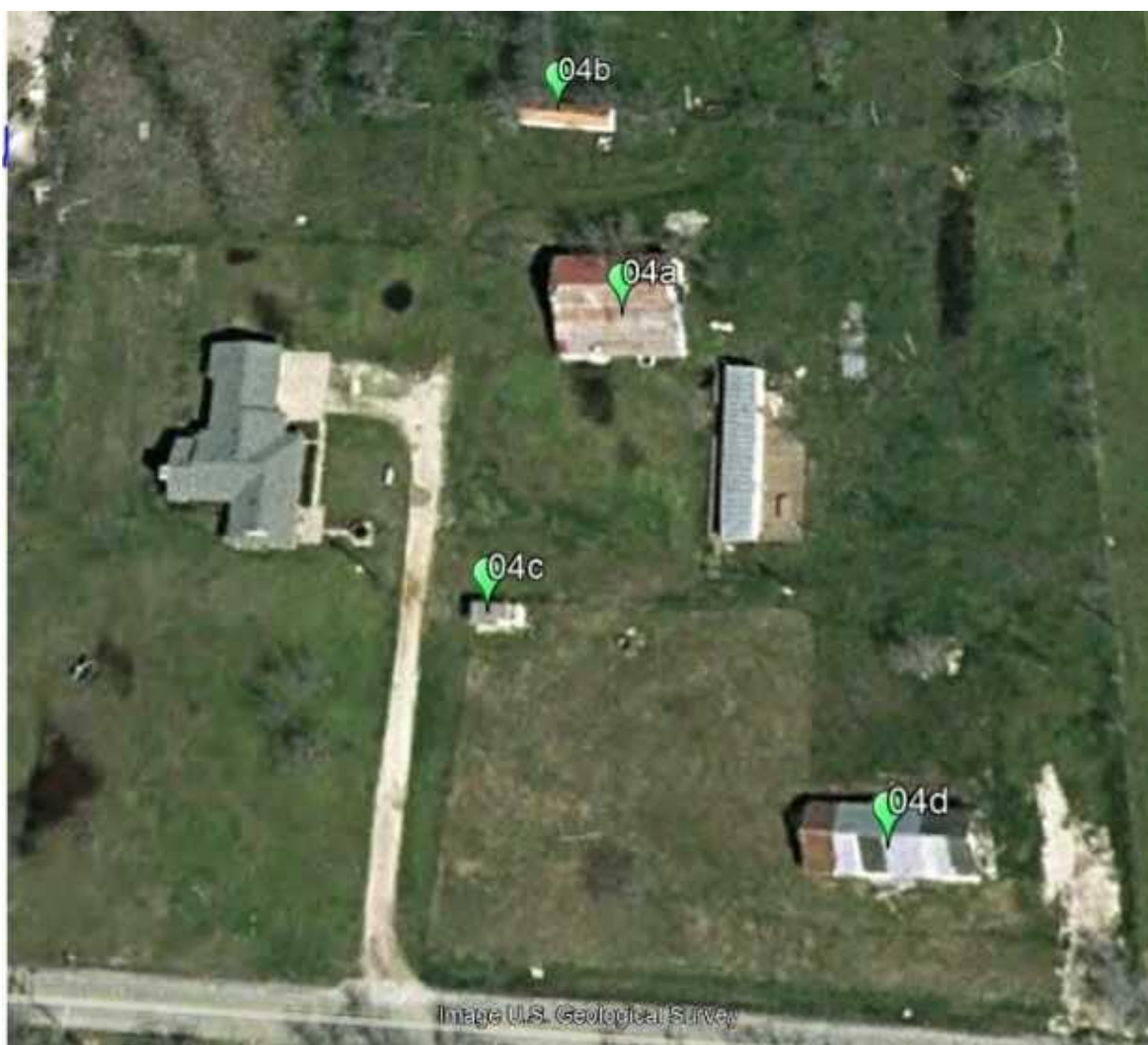
Survey Date:	June 24, 2019
Resource No:	04
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220790, -97.202287
Function/Sub-function:	DOMESTIC
Construction Date:	Ca. 1940-1990
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04 is a farmstead consisting of a modern single-family dwelling and shed, and several historic-age barns and outbuildings. A dairy barn and a pole barn have been demolished but are present in a 2001 aerial image. The farmstead no longer serves an agricultural purpose.



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	04
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220790, -97.202287
Function/Sub-function:	DOMESTIC
Construction Date:	Ca. 1940-1990
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04 is a farmstead consisting of a modern single-family dwelling and shed, and several historic-age barns and outbuildings. A dairy barn and a pole barn have been demolished but are present in a 2001 aerial image. The farmstead no longer serves an agricultural purpose.



2001 aerial view, facing north.



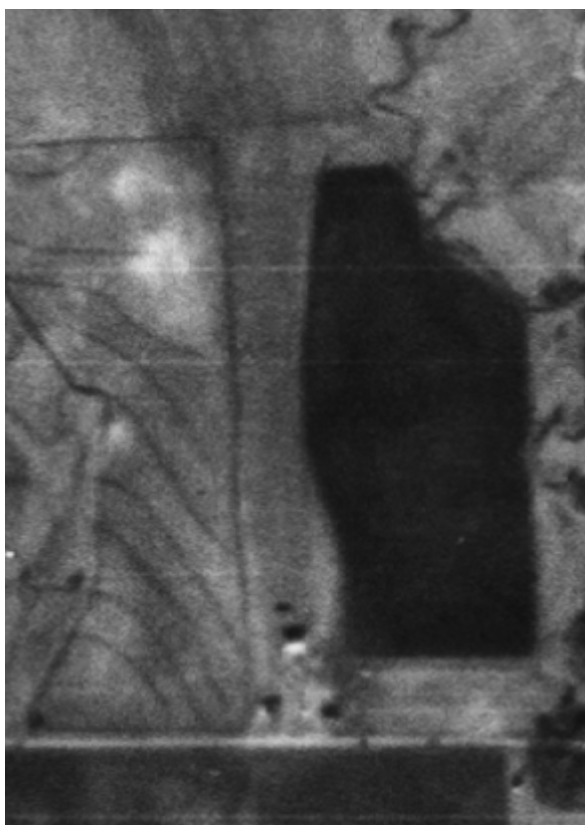
Survey Date:	June 24, 2019
Resource No:	04
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220790, -97.202287
Function/Sub-function:	DOMESTIC
Construction Date:	Ca. 1940-1990
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04 is a farmstead consisting of a modern single-family dwelling and shed, and several historic-age barns and outbuildings. A dairy barn and a pole barn have been demolished but are present in a 2001 aerial image. The farmstead no longer serves an agricultural purpose.



1969 aerial view, facing north. USGS.



Survey Date:	June 24, 2019
Resource No:	04
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6376 Jim Christal Road 33.220790, -97.202287
Function/Sub-function:	DOMESTIC
Construction Date:	Ca. 1940
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 04 is a farmstead consisting of a modern single-family dwelling and shed, and several historic-age barns and outbuildings. A dairy barn and a pole barn have been demolished but are present in a 2001 aerial image. The farmstead no longer serves an agricultural purpose.



1952 aerial view, facing north. USGS



Survey Date:	June 24, 2019
Resource No:	05a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.220574, -97.203271
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05a includes a ca. 1972 brick Ranch with a rectangular footprint, metal side-gable roof, an addition to the west with vertical wood siding and a metal roof, single-hung windows, and a partial-width porch.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	05a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.220574, -97.203271
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05a includes a ca. 1972 brick Ranch with a rectangular foot-print, metal side-gable roof, an addition to the west with vertical wood siding and a metal roof, single-hung 1/1 windows, and a partial-width porch. The house is currently in use.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	05b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.221334, -97.203664
Function/Sub-function:	DOMESTIC/machine shed
Construction Date:	Ca. 1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05b is a machine shed featuring a rectangular footprint, a metal side-gable roof, metal siding, a rolling garage door, and a six-panel door. The machine shed currently serves as storage for large machinery.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	05b
Project Location:	Denton County
Project Name and	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.221334, -97.203664
Function/Sub-	DOMESTIC/machine shed
Construction Date:	Ca. 1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05b is a machine shed featuring a rectangular footprint, a metal side-gable roof, metal siding, a rolling garage door, and a six-panel door. The machine shed currently serves as storage for large machinery.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	05c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.220353, -97.203615
Function/Sub-function:	DOMESTIC/wellhouse
Construction Date:	Ca. 1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05c is a wellhouse featuring a square footprint, a metal gable roof, metal siding, painted red, and what appears to be a closed window on the east façade.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	05c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.220353, -97.203615
Function/Sub-function:	DOMESTIC/wellhouse
Construction Date:	Ca. 1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05c is a wellhouse featuring a square footprint, a metal gable roof, metal siding, painted red, and what appears to be a closed window on the east façade.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	05
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.221387, -97.203429
Function/Sub-function:	DOMESTIC/pole barn
Construction Date:	Ca. 2008
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05 includes several non-historic age resources, including a pole barn, a carport, and several storage tanks.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	05
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.221133, -97.203218
Function/Sub-function:	DOMESTIC/carport
Construction Date:	Ca. 2009
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05 includes several non-historic age resources, including a pole barn, a carport, and several storage tanks.



Camera facing northeast.



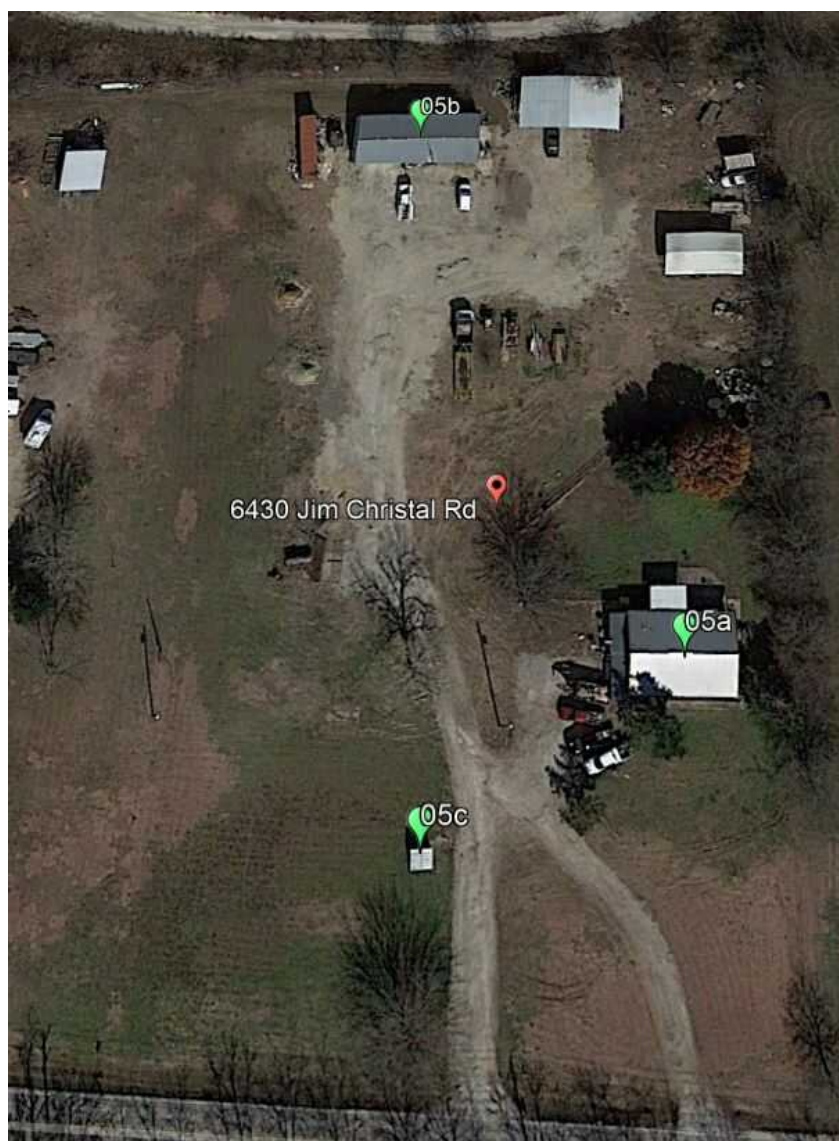
Survey Date:	June 24, 2019
Resource No:	05
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.220921, -97.203193
Function/Sub-function:	DOMESTIC/storage tanks
Construction Date:	Ca. 2009
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05 includes several non-historic age resources, including a pole barn, a carport, and several storage tanks.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	05
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6430 Jim Christal Road 33.220609, -97.202798
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1972-2009
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 05 features



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	06a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.220632, -97.204413
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06a is a single-family dwelling ca. 1977. Aerial images show the house and its outbuildings were not present before 1970 and were present by 1982. The Ranch-style house features an asymmetrical H-shaped footprint, which forms a recessed porch, brick and vertical wood siding, and an asphalt shingle, multiple gable hip roof. The house is on a concrete slab foundation. The chimney is placed on the rear slope of the house. Windows are 4/4 single-hung with a rounded arch. Two brick half-walls flank either side of the front façade, and two brick planters extend from the two outer bays of the front façade. The house is in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	06a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.220632, -97.204413
Function/Sub-function:	DOMESTIC/single dwelling
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06a is a single-family dwelling ca. 1977. Aerial images show the house and its outbuildings were not present before 1970 and were present by 1982. The Ranch-style house features an asymmetrical H-shaped footprint, which forms a recessed porch, brick and vertical wood siding, and an asphalt shingle, multiple gable hip roof. The house is on a concrete slab foundation. The chimney is placed on the rear slope of the house. Windows are 4/4 single-hung with a rounded arch. Two brick half-walls flank either side of the front façade, and two brick planters extend from the two outer bays of the front façade. The house is in use.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	06b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.220913, -97.204392
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06b is the barn. It features a cross-gable, metal roof and metal siding. The barn is six bays wide (east to west), and several additions are attached to the rear giving the originally rectangular footprint an irregular footprint. These additions have metal shed roofs. The barn has slider windows, rolling doors on the south and east façades, and a six-panel door on the south façade.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	06b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.220913, -97.204392
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06b is the barn. It features a cross-gable, metal roof and metal siding. The barn is six bays wide (east to west), and several additions are attached to the rear giving the originally rectangular footprint an irregular footprint. These additions have metal shed roofs. The barn has slider windows, rolling doors on the south and east façades, and a six-panel door on the south façade.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	06c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.221278, -97.204199
Function/Sub-function:	DOMESTIC/pole barn
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06c is the pole barn. It features a square footprint, 1:1 bay, with the open bay on the south façade. The pole barn has a metal, shed roof and metal siding. It is currently being used as storage for large machinery.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	06c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.221278, -97.204199
Function/Sub-function:	DOMESTIC/pole barn
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06c is the pole barn. It features a square footprint, 1:1 bay, with the open bay on the south façade. The pole barn has a metal, shed roof and metal siding. It is currently being used as storage for large machinery.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	06
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	6488 Jim Christal Road 33.220632, -97.204413
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 06 includes a house, barn, and pole barn ca. 1977. Aerial images show the house and its outbuildings were not present before 1970 and were present by 1982. All resources are currently in use.



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	07
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, US 380 33.225961, -97.204914
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1968
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07 is a former farmstead, ca. 1968. A house, two barns, and a storage tank are presently on the parcel. Surveyors were not granted ROE, so photography was limited due to vegetation. Additional information was gathered from aerial images. The property appears to still be occupied, but no agricultural activity was observed.



Camera facing south.



Survey Date:	June 24, 2019
Resource No:	07a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, US 380 33.225961, -97.204914
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1968
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07a is a house with a high-pitched, cross-gable, metal roof and brick and vinyl siding. The house features a rectangular footprint and a partial-width open porch. The two windows visible from the ROW appears to be a 1/1 single or double-hung window. An exterior chimney is located on the west façade. Per 1968 aerial imagery, the house is original to the parcel, however, it appears there have been alterations, including vinyl siding, a new metal roof, and possibly replacement windows.



Camera facing south.



Survey Date:	June 24, 2019
Resource No:	07b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, US 380 33.226149, -97.204780
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1968
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07b is a barn, which was difficult to analyze from the ROW due to vegetation. It features a rectangular footprint and a metal, gable roof. It appears to have either metal or vinyl siding.



Camera facing south.



Survey Date:	June 24, 2019
Resource No:	07c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, US 380 33226289, -97.204609
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07c is a barn, which was difficult to analyze from the ROW due to vegetation. It features a square footprint, a saltbox or gable with shed-roofed addition along the east façade. It appears to have metal siding.



Camera facing south.



Survey Date:	June 24, 2019
Resource No:	07d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, US 380 33.225961, -97.204914
Function/Sub-function:	DOMESTIC/storage tank
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07d is a storage tank. It is identifiable from a 2018 aerial image but is not visible from the ROW. It appears to be an elevated multi-column storage tank.



Camera facing south.



Survey Date:	June 24, 2019
Resource No:	07
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, US 380 33.225961, -97.204914
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1968
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07 is a former farmstead, ca. 1968. A house, two barns, and a storage tank are presently on the parcel. Surveyors were not granted ROE, so photography was limited due to vegetation. Additional information was gathered from aerial images. The property appears to still be occupied, but no agricultural activity was observed.



Aerial view facing north.



Survey Date:	June 24, 2019
Resource No:	07
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, US 380 33.225961, -97.204914
Function/Sub-function:	DOMESTIC
Construction Date:	Ca. 1968
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 07 is a former farmstead, ca. 1968. A house, two barns, and a storage tank are presently on the parcel. Surveyors were not granted ROE, so photography was limited due to vegetation. Additional information was gathered from aerial images. The property appears to still be occupied, but no agricultural activity was observed. The house and barn (Resource 07b) appear in a 1968 aerial image.



1968 aerial view, facing north. USGS.



Survey Date:	June 24, 2019
Resource No:	08a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7041 W US 380 33.230782, -97.206022
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1967
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 08a is a linear-with-clusters Ranch style house ca. 1967. It features an asphalt shingle, cross-gable roof. Painted brick and horizontal wood siding in the gable ends, six-panel doors on the north façade and original 4/4 and 9-pane and 15-pane windows. A portico is located on the south façade with its original decorative iron column. Louvred shutters adorn the windows on the south façade. An addition with a flat roof and vertical wood siding is located on the west façade of the original footprint. A chimney is located on the rear slope, offset left (east). The house appears to be in use.



Camera facing southwest.



Survey Date:	June 24, 2019
Resource No:	08a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7041 W US 380 33.230782, -97.206022
Function/Sub-function:	DOMESTIC/single dwelling
Construction Date:	Ca. 1967
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 08a is a linear-with-clusters Ranch style house ca. 1967. It features an asphalt shingle, cross-gable roof. Painted brick and horizontal wood siding in the gable ends, six-panel doors on the north façade and original 4/4 and 9-pane and 15-pane windows. A portico is located on the south façade with its original decorative iron column. Louvred shutters adorn the windows on the south façade. An addition with a flat roof and vertical wood siding is located on the west façade of the original footprint. A chimney is located on the rear slope, offset left (east). The house appears to be in use.



Camera facing southeast.



Survey Date:	June 24, 2019
Resource No:	08b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7041 W US 380 33.230153, -97.209027
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1967
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 08b is a barn featuring a metal, gable roof and metal siding. According to aerial imagery, it appears the south side of the roof is missing, exposing the frame construction. The barn is no longer in use.



Facing southwest. Google.



Survey Date:	June 24, 2019
Resource No:	08b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7041 W US 380 33.230153, -97.209027
Function/Sub-function:	DOMESTIC/barn
Construction Date:	Ca. 1967
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 08b is a barn featuring a metal, gable roof and metal sliding. According to aerial imagery, it appears the south side of the roof is missing, exposing the frame construction. The barn is no longer in use.



Facing southeast. Google.



Survey Date:	June 24, 2019
Resource No:	08
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	7041 W US 380 33.230153, -97.209027
Function/Sub-function:	DOMESTIC
Construction Date:	Ca. 1967
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 08 is a farmstead ca. 1967 featuring a Ranch style house and a barn. The house is still in use, with an addition to the west. The barn is partly in ruin and is currently vacant/not in use.



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	09a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.240408, -97.195857
Function/Sub-function:	AGRICULTURE/barn
Construction Date:	Ca. 1935
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09a is one of the barns associated with the Texas Agricultural Experiment Station No. 6. The experiment station was opened at this location in 1913 under the Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry. The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. The station was closed in 1972. The hay barn features a rectangular footprint, a modern metal gambrel roof, and vertical wood siding. The barn has gable and gable-side entries and features a hay hood. The barn, along with the other resources part of Experiment Station No. 6 are vacant/not in use. Many original agricultural outbuildings are nonextant.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	09a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.240408, -97.195857
Function/Sub-function:	AGRICULTURE/barn
Construction Date:	Ca. 1935
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09a is one of the barns associated with the Texas Agricultural Experiment Station No. 6. The experiment station was opened at this location in 1913 under the Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry. The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. The station was closed in 1972. The hay barn features a rectangular footprint, a modern metal gambrel roof, and vertical wood siding. The barn has gable and gable-side entries and features a hay hood. The barn, along with the other resources part of Experiment Station No. 6 are vacant/not in use. Many original agricultural outbuildings are nonextant.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.240071, -97.196331
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 1935
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09b is a shed with a rectangular footprint, metal shed roof, vertical wood siding, and a 5-panel door on the east façade. The shed is vacant/not in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.240071, -97.196331
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 1935
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09b is a shed with a rectangular footprint, metal shed roof, vertical wood siding, and a 5-panel door on the east façade. The shed is vacant/not in use.



Camera facing southeast.



Survey Date:	June 24, 2019
Resource No:	09c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.239935, -97.196114
Function/Sub-function:	AGRICULTURE/wellhouse
Construction Date:	Ca. 1945
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09c is a wellhouse. It features a square footprint, four brick facades, and an entry on the south façade. The roof is missing, as well as several rows of bricks. The wellhouse is currently vacant/not in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.239935, -97.196114
Function/Sub-function:	AGRICULTURE/wellhouse
Construction Date:	Ca. 1945
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09c is a wellhouse. It features a square footprint, four brick facades, and an entry on the south façade. The roof is missing, as well as several rows of bricks. The wellhouse is currently vacant/not in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.240174, -97.196165
Function/Sub-function:	AGRICULTURE/shed and greenhouse
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09d includes a shed with an attached greenhouse along its east façade. The shed features a rectangular footprint with a metal gable roof, metal siding, and a gable entry. The entry leads into the greenhouse, which features a metal frame and a gable roof. Several glass panes are present along the roof ridge. It appears the metal siding on the shed is placed over the original horizontal wood siding, which is exposed at the peak of the gable. The shed and greenhouse are vacant/not in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09d
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.240174, -97.196165
Function/Sub-function:	AGRICULTURE/barn and greenhouse
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09d includes a shed with an attached greenhouse along its east façade. The shed features a rectangular footprint with a metal gable roof, metal siding, and a gable entry. The entry leads into the greenhouse, which features a metal frame and a gable roof. Several glass panes are present along the roof ridge. It appears the metal siding on the shed is placed over the original horizontal wood siding, which is exposed at the peak of the gable. The shed and greenhouse are vacant/not in use.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	09e
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.240856, -97.195324
Function/Sub-function:	AGRICULTURE/Quonset hut
Construction Date:	Ca. 1950
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09e is a Quonset hut. It features a rectangular footprint, a metal barrel roof, and metal siding. Its front (south) façade is four bays wide (east to west) and includes four 4/4 windows, two metal doors, and a vent. It is unclear if the Quonset hut is still in use.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	09e
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.240856, -97.195324
Function/Sub-function:	AGRICULTURE/quonset hut
Construction Date:	Ca. 1950
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09e is a Quonset hut. It features a rectangular footprint, a metal barrel roof, and metal siding. Its front (south) façade is four bays wide (east to west) and includes four 4/4 windows, two metal doors, and a vent. It is unclear if the Quonset hut is still in use.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	09f
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.240649, -97.195480
Function/Sub-function:	AGRICULTURE/pole barn
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09f is a pole barn, which features a rectangular footprint, a metal shed roof, and metal siding. The front (south) façade has four open bays, divided by metal poles. The interior space is open. The pole barn is currently in use as storage for large machinery.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	09f
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.240649, -97.195480
Function/Sub-function:	AGRICULTURE/pole barn
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09f is a pole barn, which features a rectangular footprint, a metal shed roof, and metal siding. The front (south) façade has four open bays, divided by metal poles. The interior space is open. The pole barn is currently in use as storage for large machinery.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	09g
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.240353, -97.196063
Function/Sub-function:	AGRICULTURE/hay shed
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09g is a hay shed. It features a metal gable roof and an exposed wooden frame. It is vacant/not in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09g
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.240353, -97.196063
Function/Sub-function:	AGRICULTURE/hay shed
Construction Date:	Ca. 1965
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09g is a hay shed. It features a metal gable roof and an exposed wooden frame. It is vacant/not in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	09h
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address, N. Masch Branch Road 33.239005, -97.196834
Function/Sub-function:	AGRICULTURE/gate
Construction Date:	Ca. 1935
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09h is the stone walled/gated entrance to Experiment Station No. 6. It includes two pillars on either side of the driveway and the historical marker for the property.



Camera facing northwest.



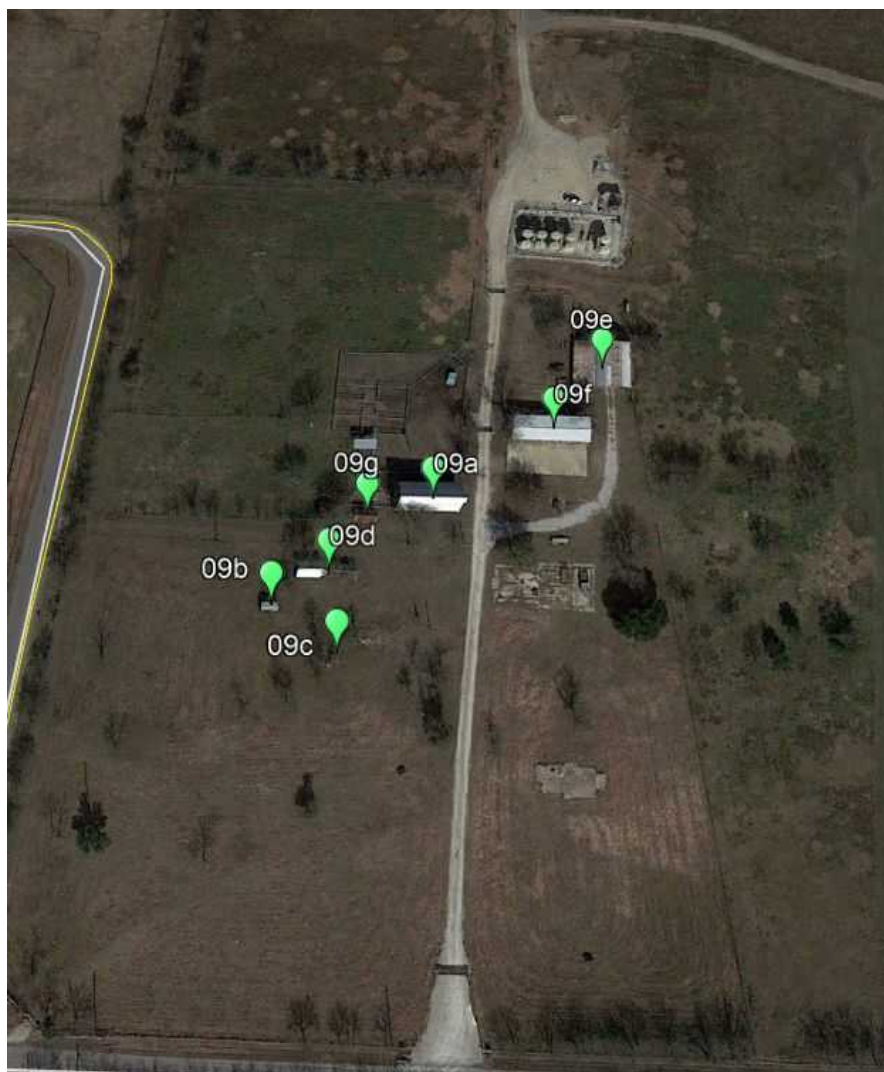
Survey Date:	June 24, 2019
Resource No:	09h
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.239005, -97.196834
Function/Sub-function:	AGRICULTURE/gate
Construction Date:	Ca. 1935
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09h is the stone walled/gated entrance to Experiment Station No. 6. It includes two pillars on either side of the driveway and the historical marker for the property.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	09
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.239005, -97.196834
Function/Sub-function:	AGRICULTURE
Construction Date:	Ca. 1935-1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09 is the former Texas Agricultural Experiment Station No. 6. The experiment station was opened in this location in 1913 under the Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry. The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. The station was closed in 1972.



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	09
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No address, N. Masch Branch Road 33.239005, -97.196834
Function/Sub-function:	AGRICULTURE
Construction Date:	Ca. 1935-1972
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 09 is the former Texas Agricultural Experiment Station No. 6. The experiment station was opened in this location in 1913 under the Hatch Act of 1887, which promoted scientific experimentation in the agricultural industry. The experiment station specialized in researching the best methods for producing weather and disease resistant grains, and several new varieties of grain were developed. The station was closed in 1972. A 1952 aerial image of the experiment station shows a number of agricultural outbuildings which no longer exist and the experimental farming plots.



1952 aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	10a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3288 N. Masch Branch Road 33.241811, -97.202169
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 10a is a Ranch-style house ca. 1970. It features a cross-shape footprint, an asphalt shingle cross gable roof, and a concrete slab foundation. The original footprint is brick, while the renovated carport to the west has vertical wood siding. The brick is capped by a single row of large, square stones, which are located beneath the cornice. The windows are 2/2, possibly single or double-hung, and the front (south) façade features a partial-width porch and entry, while the enclosed carport has a half-panel and glass door on the south façade. The house is currently in use.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	10a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3288 N. Masch Branch Road 33.241811, -97.202169
Function/Sub-function:	DOMESTIC/single dwelling
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 10a is a Ranch-style house ca. 1970. It features a cross-shape footprint, an asphalt shingle cross gable roof, and a concrete slab foundation. The original footprint is brick, while the renovated carport to the west has vertical wood siding. The brick is capped by a single row of large, square stones, which are located beneath the cornice. The windows are 2/2, possibly single or double-hung, and the front (south) façade features a partial-width porch and entry, while the enclosed carport has a half-panel and glass door on the south façade. The house is currently in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	10b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3288 N. Masch Branch Road 33.239005, -97.196834
Function/Sub-function:	DOMESTIC/wellhouse
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 10b is a well-house which features a square footprint, a low hip roof with asphalt shingles and vertical wood siding. The entry is on the south façade. It appears the wellhouse is currently being used for storage.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	10b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3288 N. Masch Branch Road 33.239005, -97.196834
Function/Sub-function:	DOMESTIC/wellhouse
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 10b is a well-house which features a square footprint, a low hip roof with asphalt shingles and vertical wood siding. The entry is on the south façade. It appears the wellhouse is currently being used for storage.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	11a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242055, -97.201639
Function/Sub-function:	DOMESTIC/single-family dwelling
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11a is a brick, Ranch-style house ca. 1970. It features a rambling footprint with three setbacks and a concrete slab foundation and a low hip roof with asphalt shingles. Windows include 1/1 with louvred shutters and a large picture window. A covered stoop supported by a decorative iron column is located on the front (south) façade, while an additional entry is located on the east façade, leading to the carport. A chimney is placed offset left (west) on the front slope. The house is still in use.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242055, -97.201639
Function/Sub-function:	DOMESTIC/single dwelling
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11a is a brick, Ranch-style house ca. 1970. It features a rambling footprint with three setbacks and a concrete slab foundation and a low hip roof with asphalt shingles. Windows include 1/1 with louvred shutters and a large picture window. A covered stoop supported by a decorative iron column is located on the front (south) façade, while an additional entry is located on the east façade, leading to the carport. A chimney is placed offset left (west) on the front slope. The house is still in use.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	11b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.241946, -97.201201
Function/Sub-function:	DOMESTIC/machine shed
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11b is a machine shed. It features a rectangular footprint and is two bays wide. The machine shed has a flat, metal roof and metal siding. Two rolling doors are located on the front (south) façade. An open addition with a shed roof is attached to the east façade. The machine shed is currently being used as storage for large machinery.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	11b
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.241946, -97.201201
Function/Sub-function:	AGRICULTURE/machine shed
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11b is a machine shed. It features a rectangular footprint and is two bays wide. The machine shed has a flat, metal roof and metal siding. Two rolling doors are located on the front (south) façade. An open addition with a shed roof is attached to the east façade. The machine shed is currently being used as storage for large machinery.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	11c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242147, -97.201080
Function/Sub-function:	DOMESTIC/stable
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11c is the stable. It features a flat, metal roof, metal siding, and Dutch doors across the eight bays on the front (south) façade. It is unclear whether the stable is still in use due to vegetation cover.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11c
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242147, -97.201080
Function/Sub-function:	DOMESTIC/stable
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11c is the stable. It features a flat, metal roof, metal siding, and Dutch doors across the eight bays on the front (south) façade. It is unclear whether the stable is still in use due to vegetation cover.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242555, -97.201061
Function/Sub-function:	DOMESTIC/mobile home
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242453, -97.201060
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242430, -97.200682
Function/Sub-function:	AGRICULTURE/pole barn
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242438, -97.200544
Function/Sub-function:	AGRICULTURE/loafing shed
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.241972, -97.201046
Function/Sub-function:	AGRICULTURE/mobile home
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Camera facing northwest.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242130, -97.201421
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	11
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	3278 N. Masch Branch Road 33.242055, -97.201639
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 11 includes three historic-age resources and several non-historic age resources. Most resources on the parcel are still in agricultural or domestic use. Aerial imagery provides evidence non-historic age resources were constructed ca. 2005.



Aerial view, facing north.



Survey Date:	June 24, 2019
Resource No:	12a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	4081 Harrison Court 33.255155, -97.199262
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 12a is a shed. It features a metal gable roof, metal siding, and a paneled door and single pane window on the south façade. It appears to be vacant/not in use due to the overgrown vegetation and boarded window.



Camera facing east.



Survey Date:	June 24, 2019
Resource No:	12a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	4081 Harrison Court 33.255155, -97.199262
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 1970
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 12a is a shed. It features a metal gable roof, metal siding, and a paneled door and single pane window on the south façade. It appears to be vacant/not in use due to the overgrown vegetation and boarded window.



Camera facing northeast.



Survey Date:	June 24, 2019
Resource No:	12
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	4081 Harrison Court 33.255116, -97.199425
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 2015
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 12 is a shed which did not appear in aerial imagery until ca. 2015. It features a flat metal roof and metal siding. Due to vegetation, it is difficult to distinguish additional features from the ROW.



Camera facing southeast.



Survey Date:	June 24, 2019
Resource No:	12
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	4081 Harrison Court 33.255106, -97.199449
Function/Sub-function:	AGRICULTURE/storage tank
Construction Date:	Ca. 2005
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 12 is a fixed-roof storage tank. It does not appear in aerial imagery until ca. 2005.



Camera facing east.



Survey Date:	June 24, 2019
Resource No:	13a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address 33.251020, -97.188331
Function/Sub-function:	AGRICULTURE/storage tank
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 13a is a tool shed. Although ROE was granted, surveyors were limited due to safety concerns (railroad tracks) and vegetation. Per the owner's information, the shed still exists behind the tree line. Aerial imagery shows a building with a metal gable roof and a rectangular footprint.



Camera facing north.



Survey Date:	June 24, 2019
Resource No:	13a
Project Location:	Denton County
Project Name and CSJ:	State Loop 288, CSJ 2250-02-014, etc.
Address, Lat/Long:	No Address 33.251469, -97.189240
Function/Sub-function:	AGRICULTURE/shed
Construction Date:	Ca. 1977
NRHP Eligibility:	Not eligible
Integrity/Comments:	Resource 13a is a tool shed. Although ROE was granted, surveyors were limited due to safety concerns (railroad tracks) and vegetation. Per the owner's information, the shed still exists behind the tree line. Aerial imagery shows a building with a metal gable roof and a rectangular footprint.



Aerial image, facing north.



## Appendix C: Figures



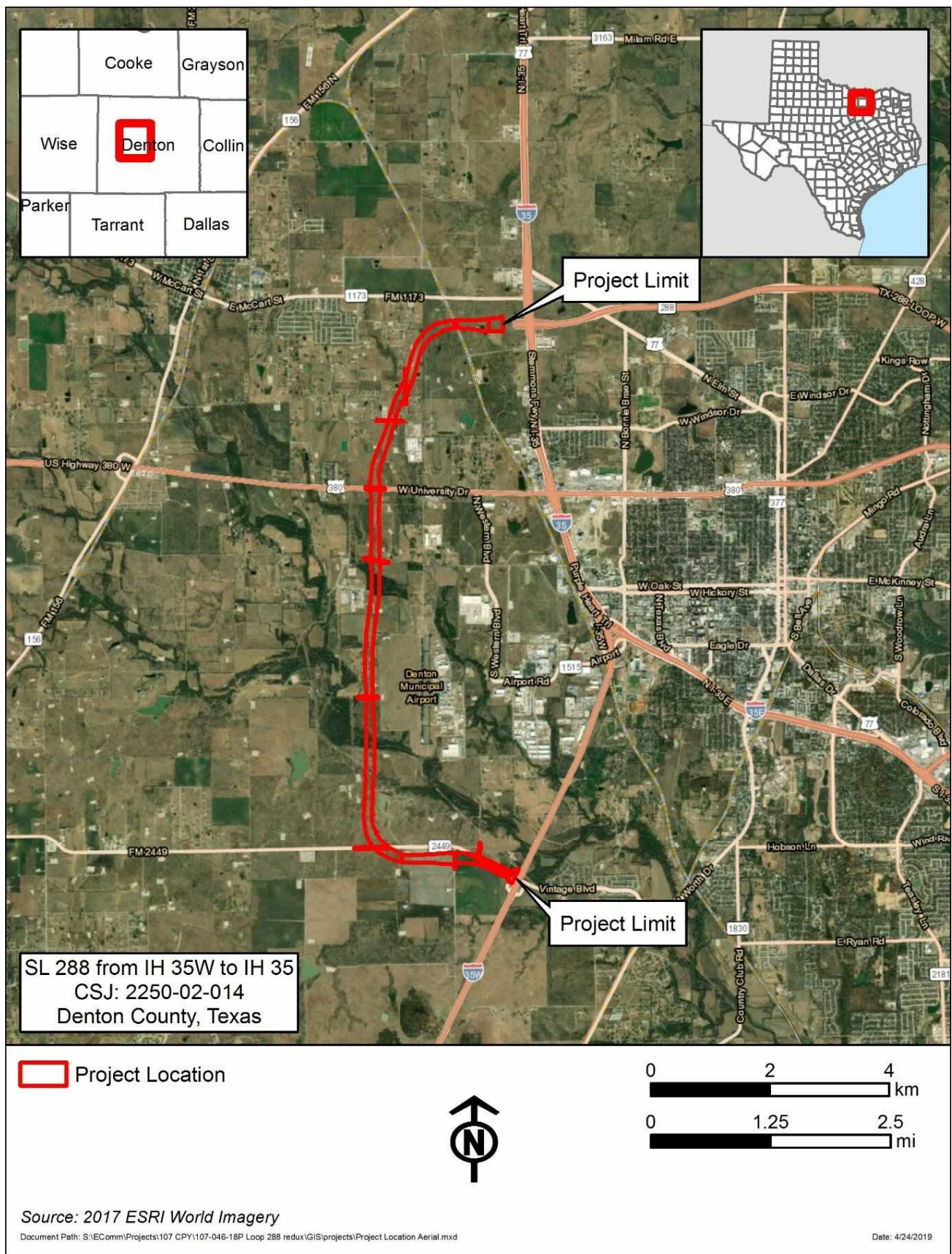


Figure 1: Project Location Aerial Map



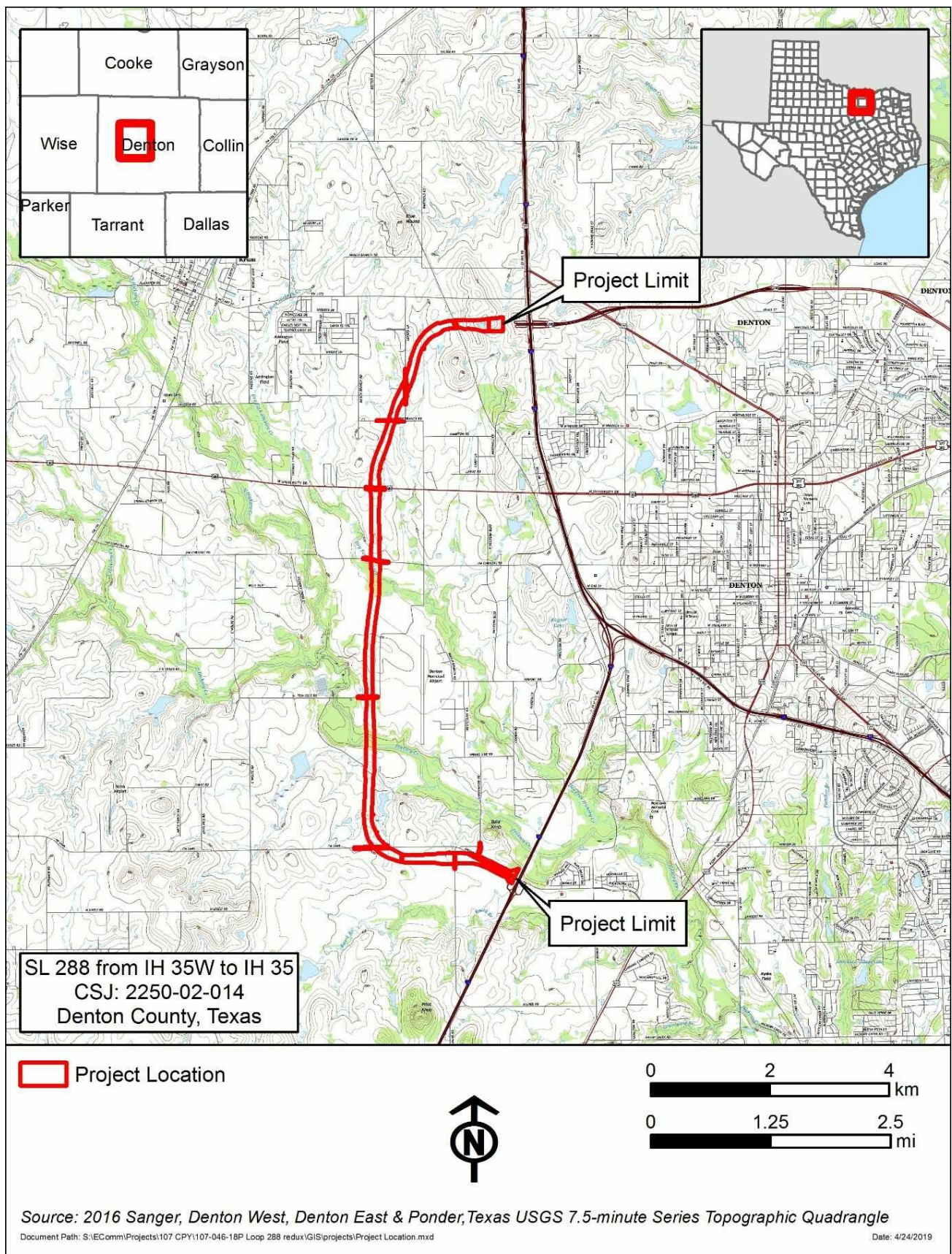
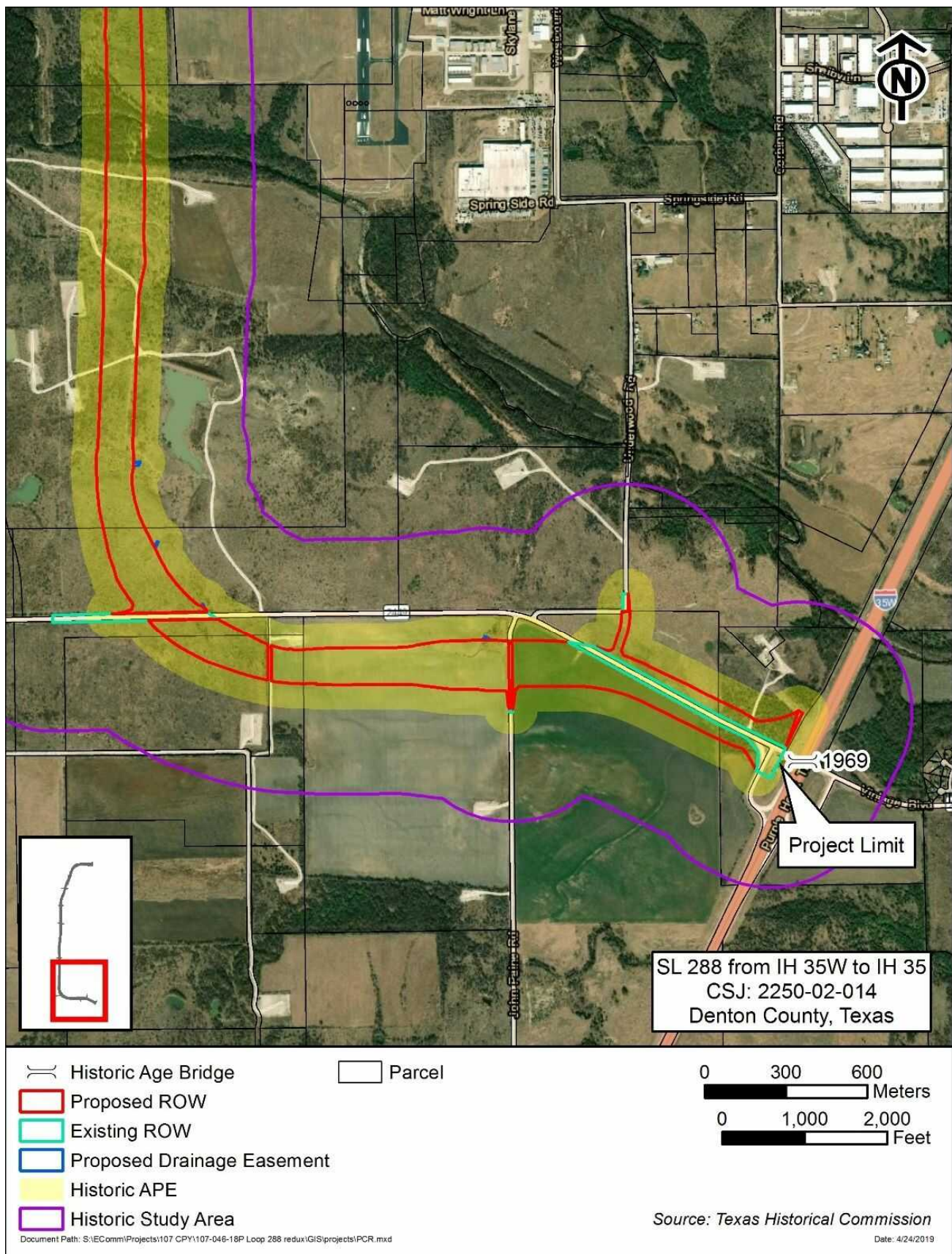
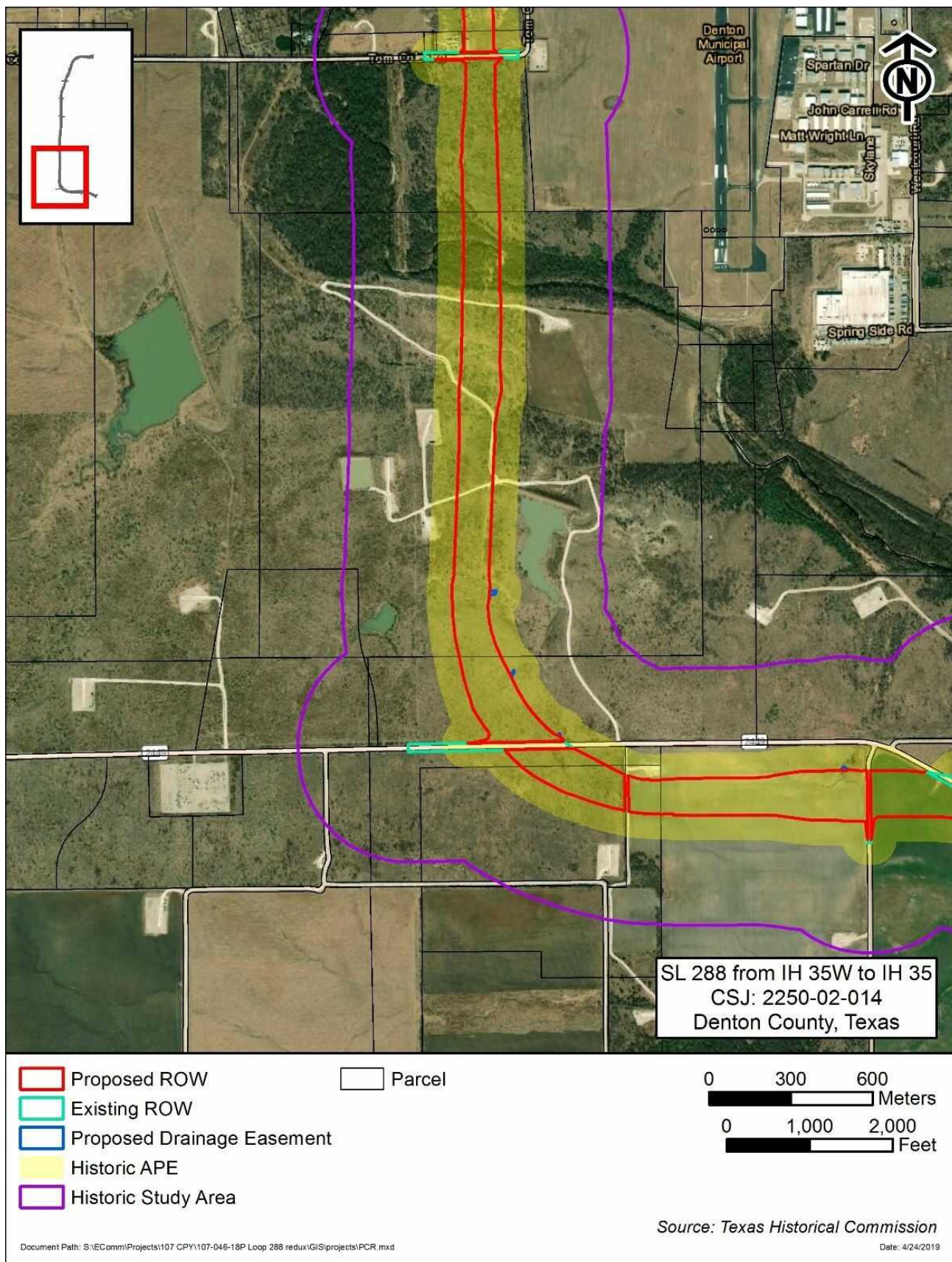


Figure 2: Project Location Topo Map









**Figure 3b: Study Area Map**



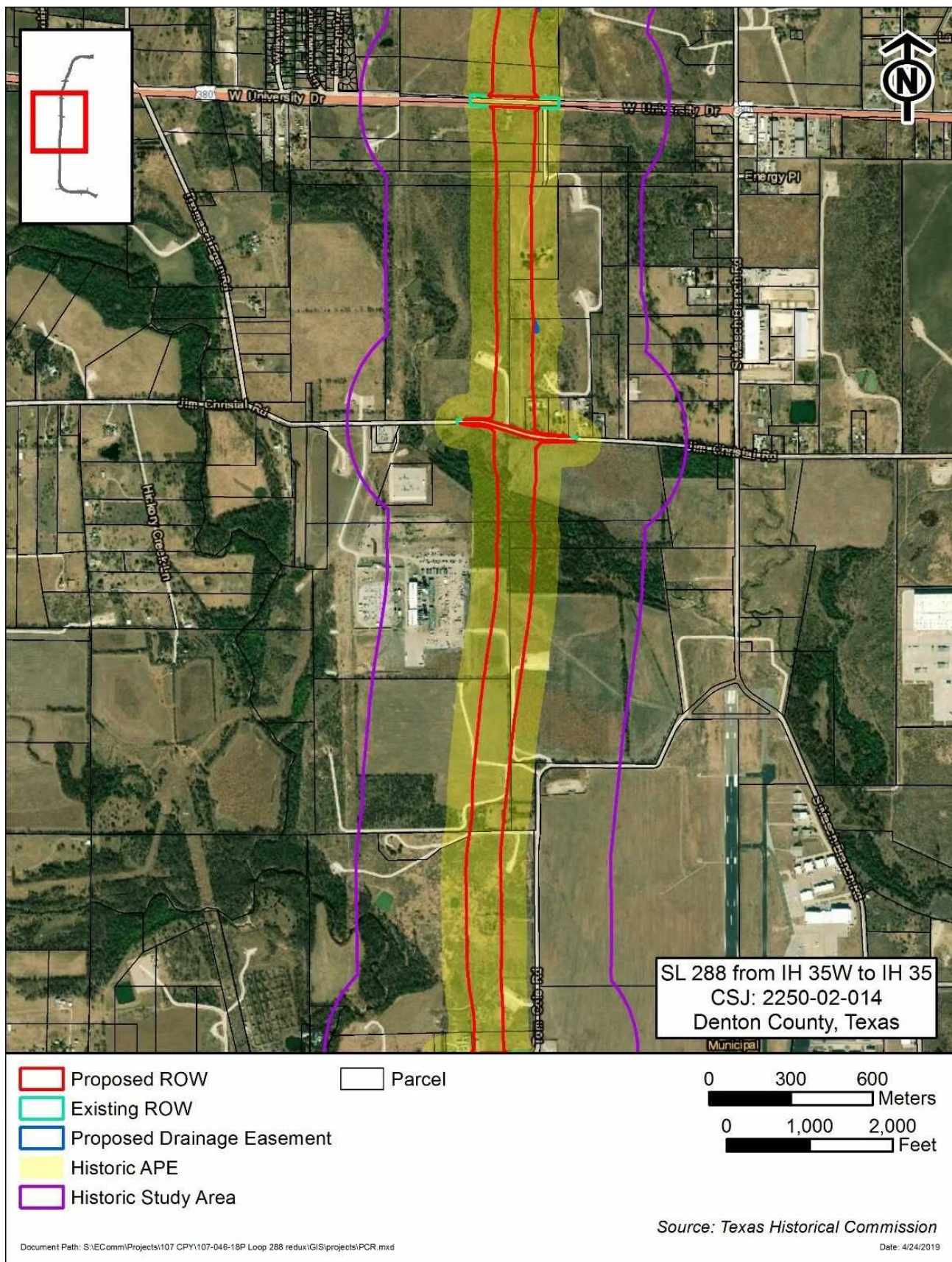


Figure 3c: Study Area Map



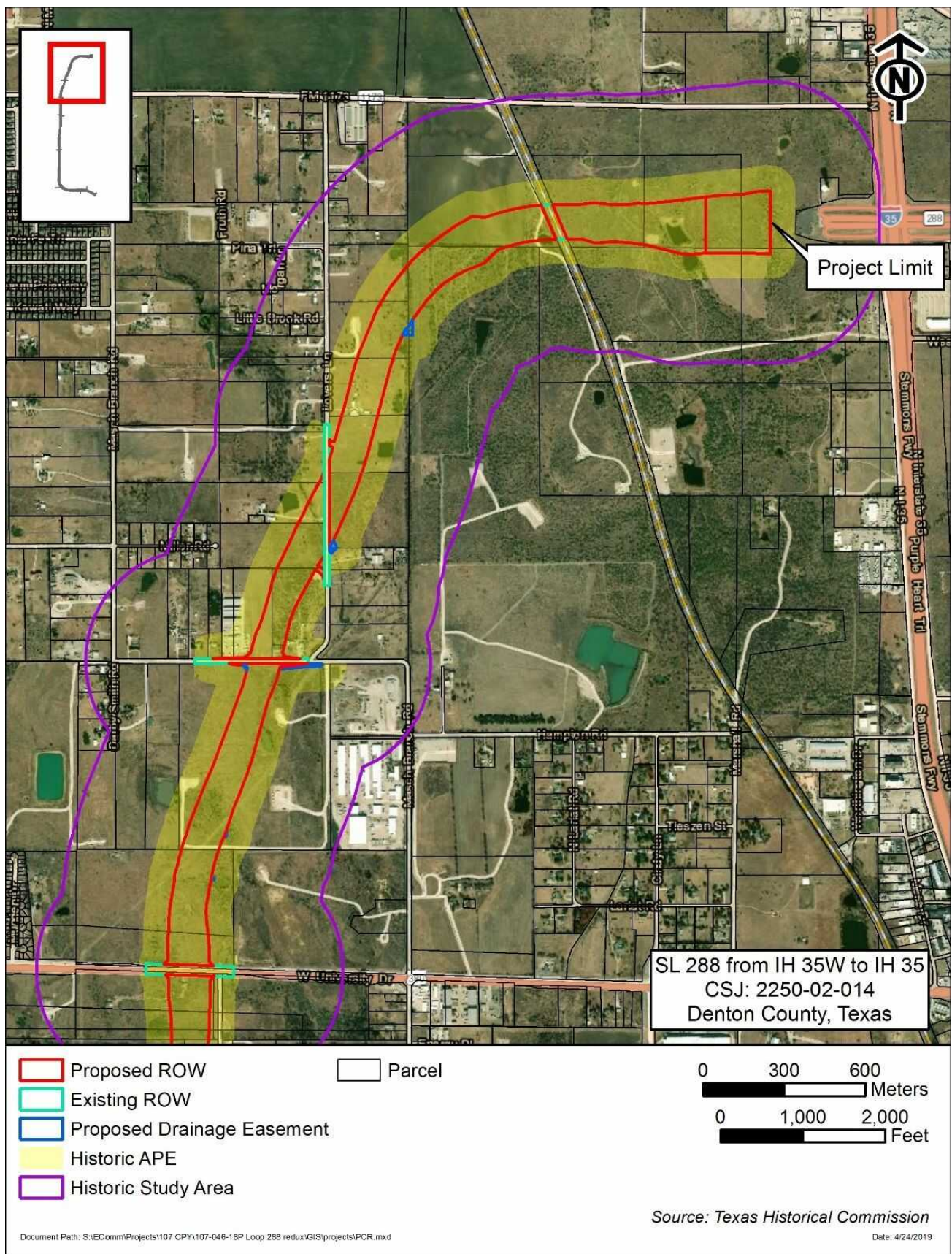


Figure 3d: Study Area Map



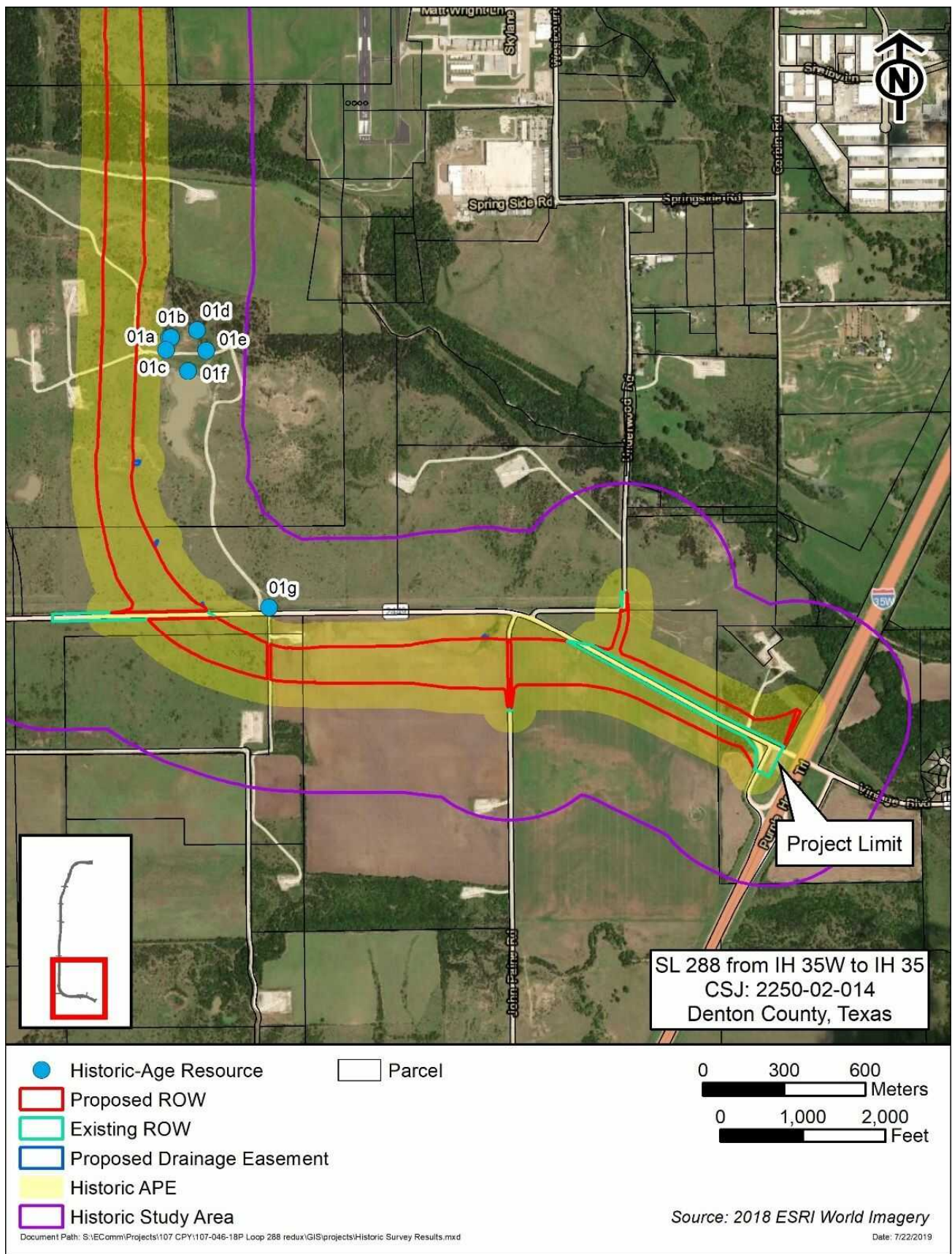
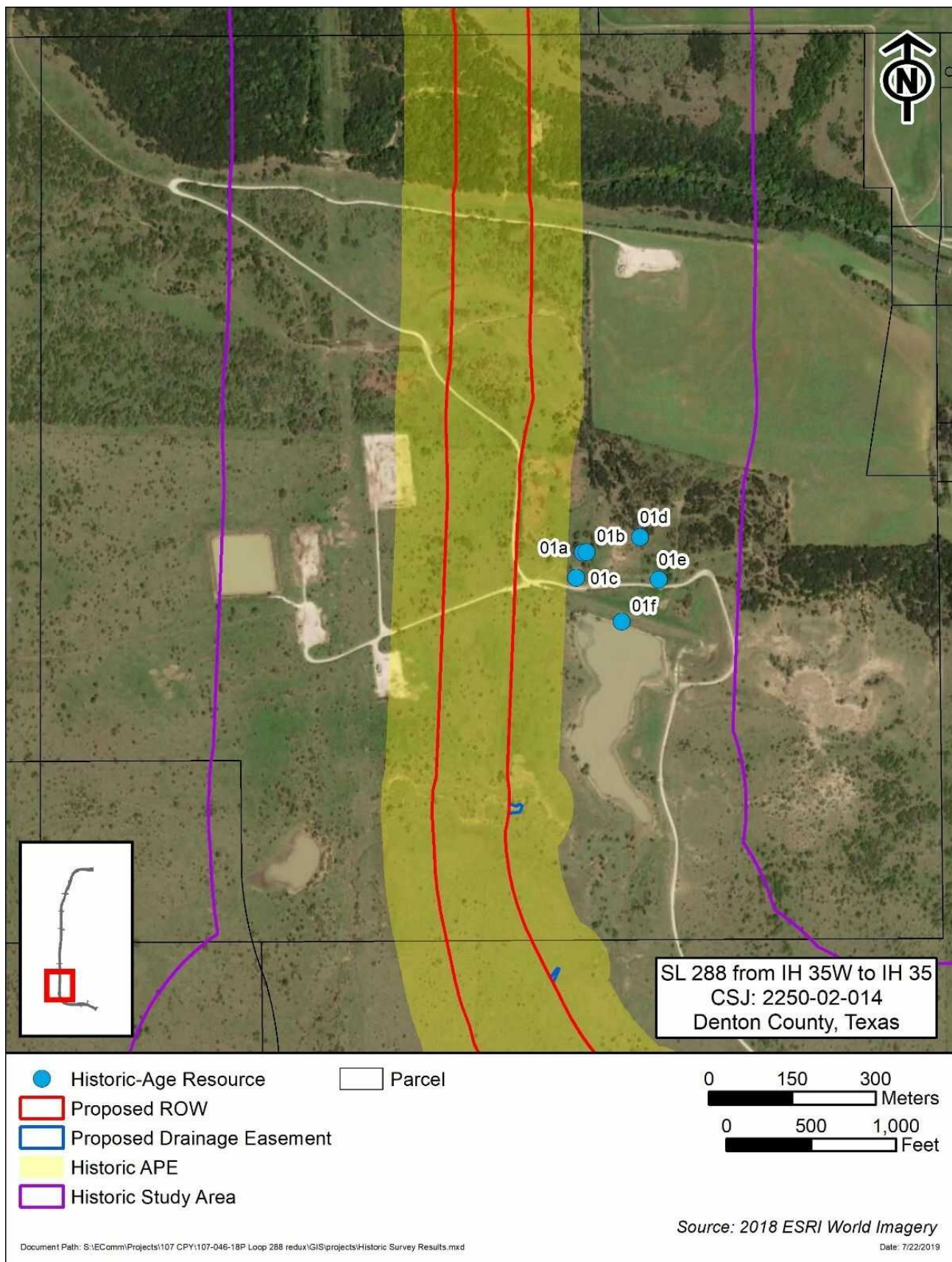


Figure 4a: Surveyed Resource Locations Map





**Figure 4b: Surveyed Resource Locations Map**



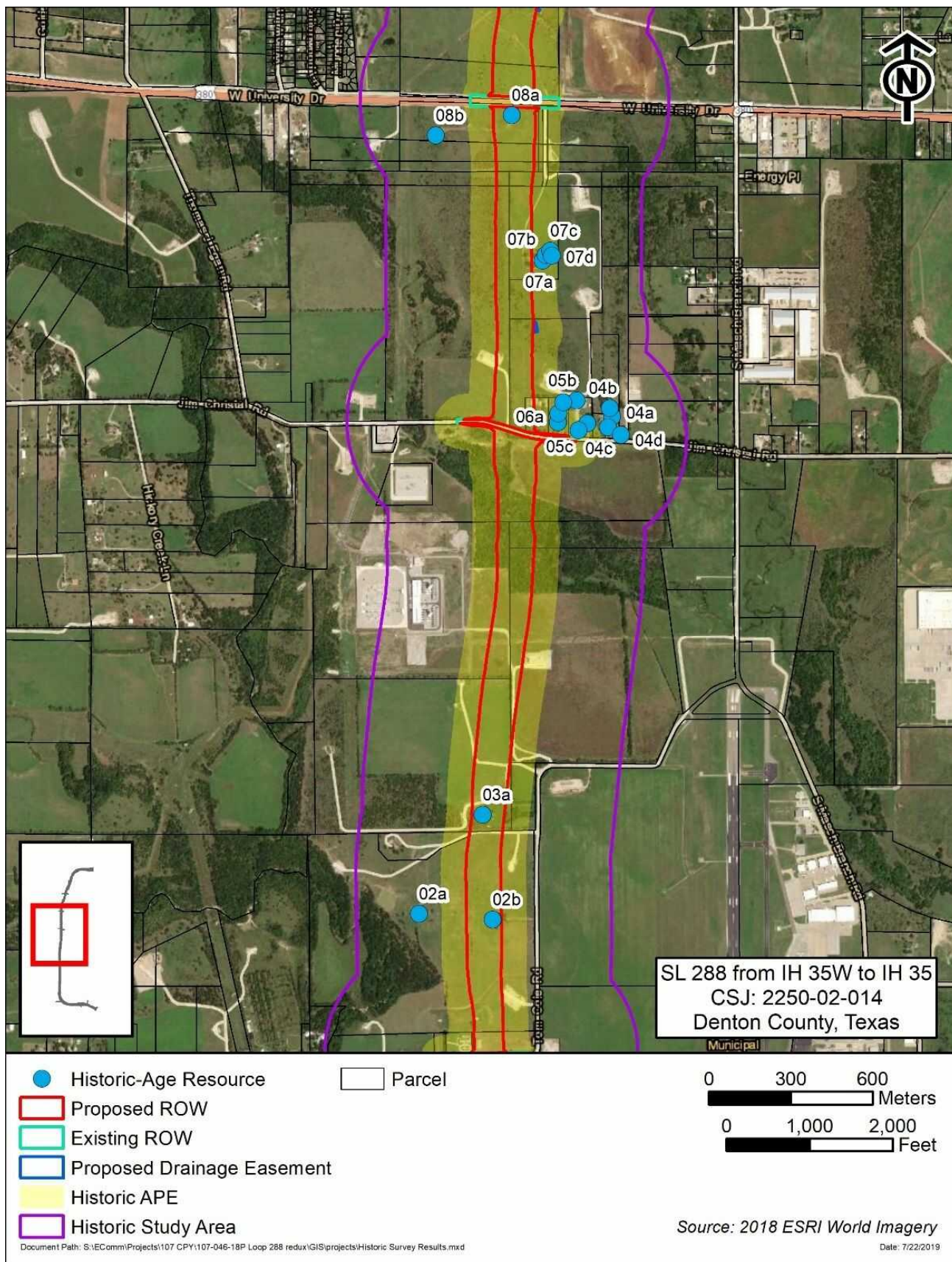


Figure 4c: Surveyed Resource Locations Map



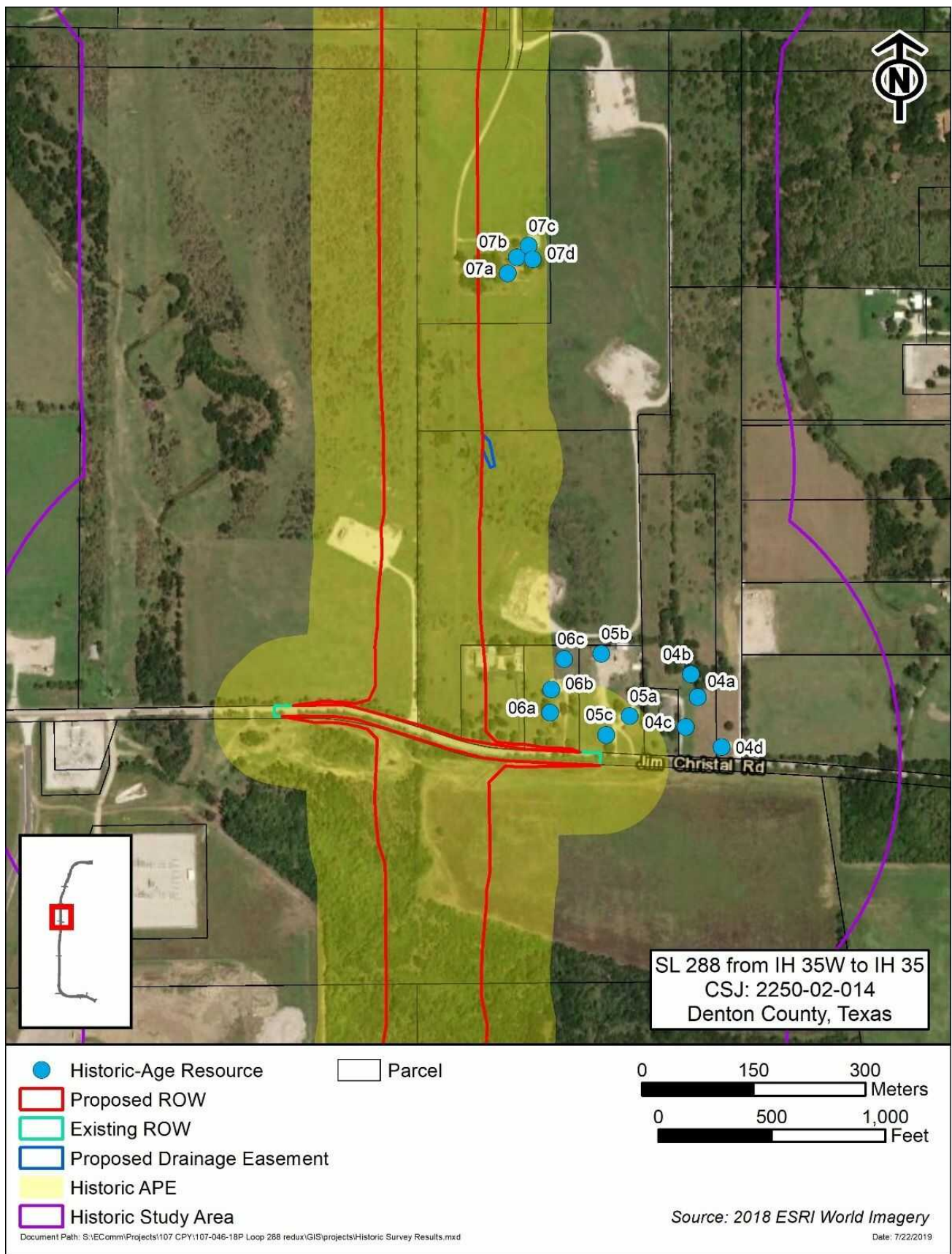


Figure 4d: Surveyed Resource Locations Map



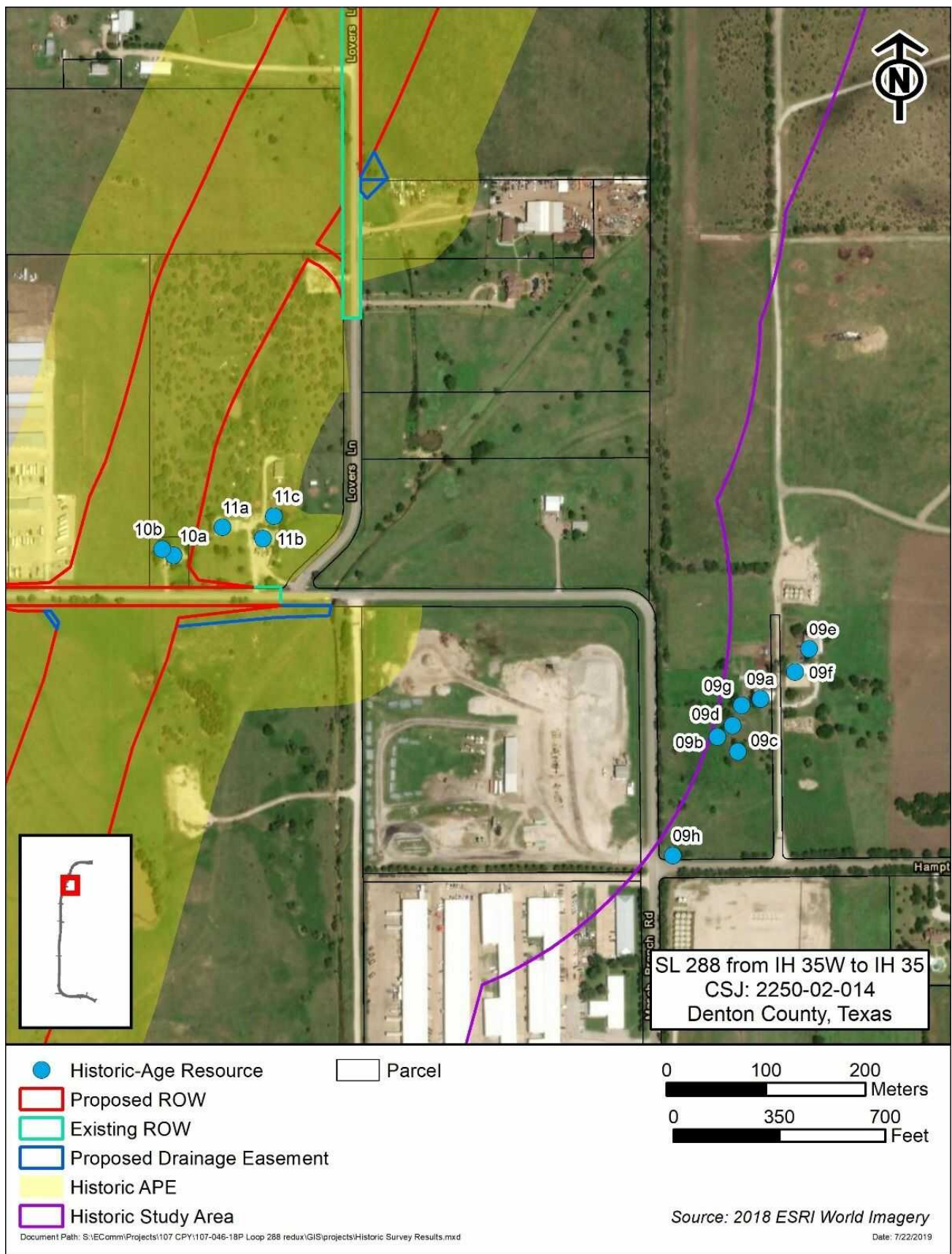
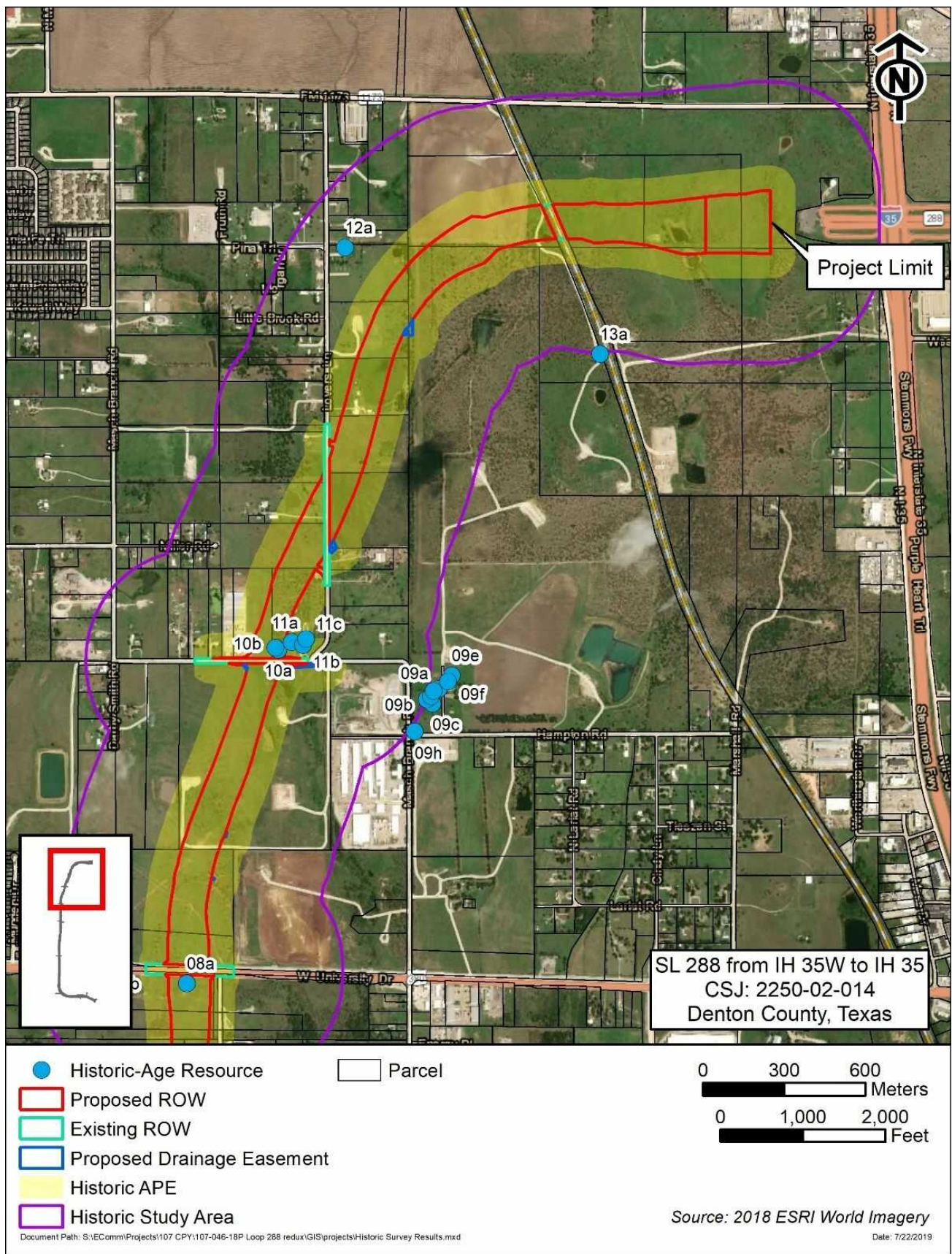


Figure 4e: Surveyed Resource Locations Map



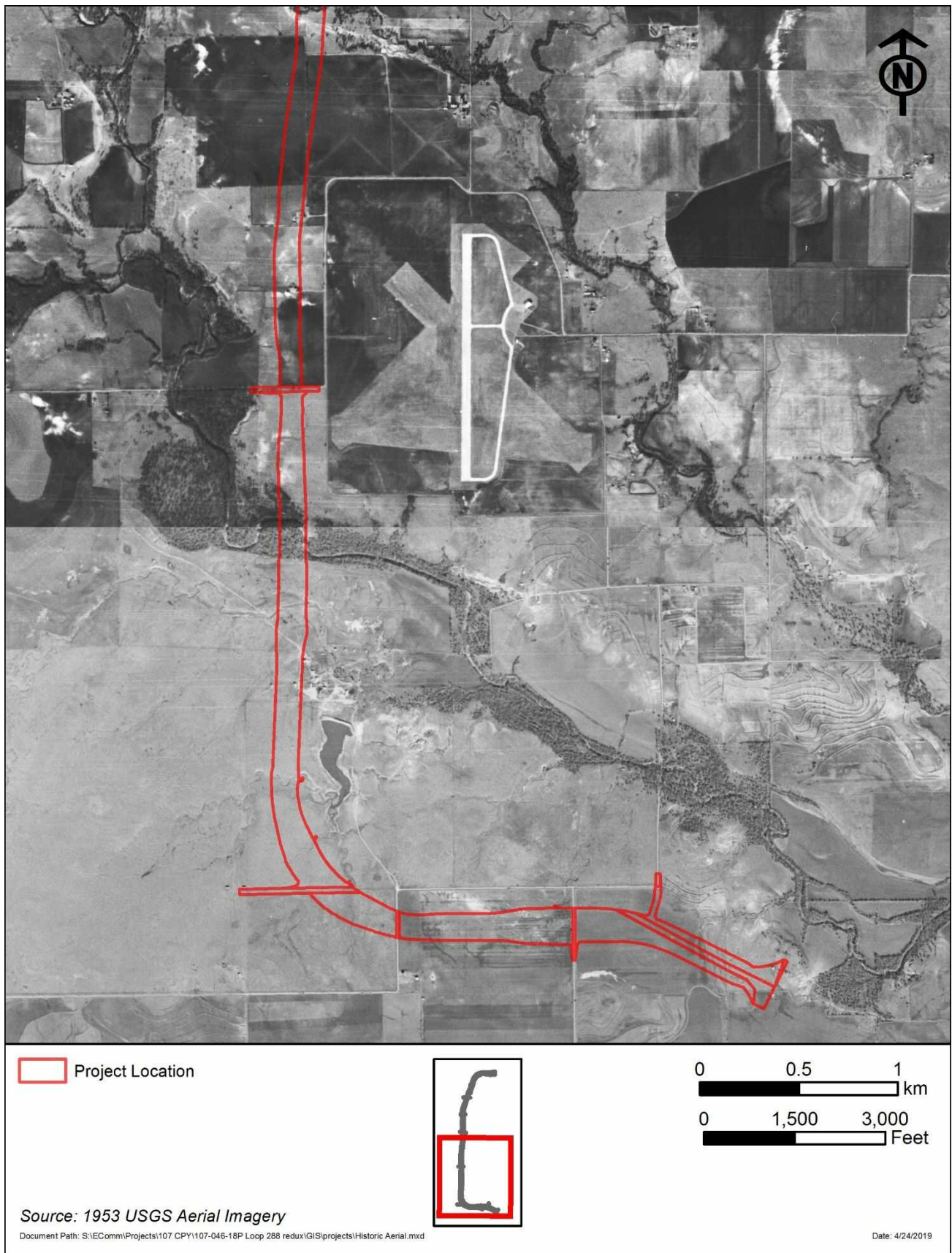


**Figure 4f: Surveyed Resource Locations Map**



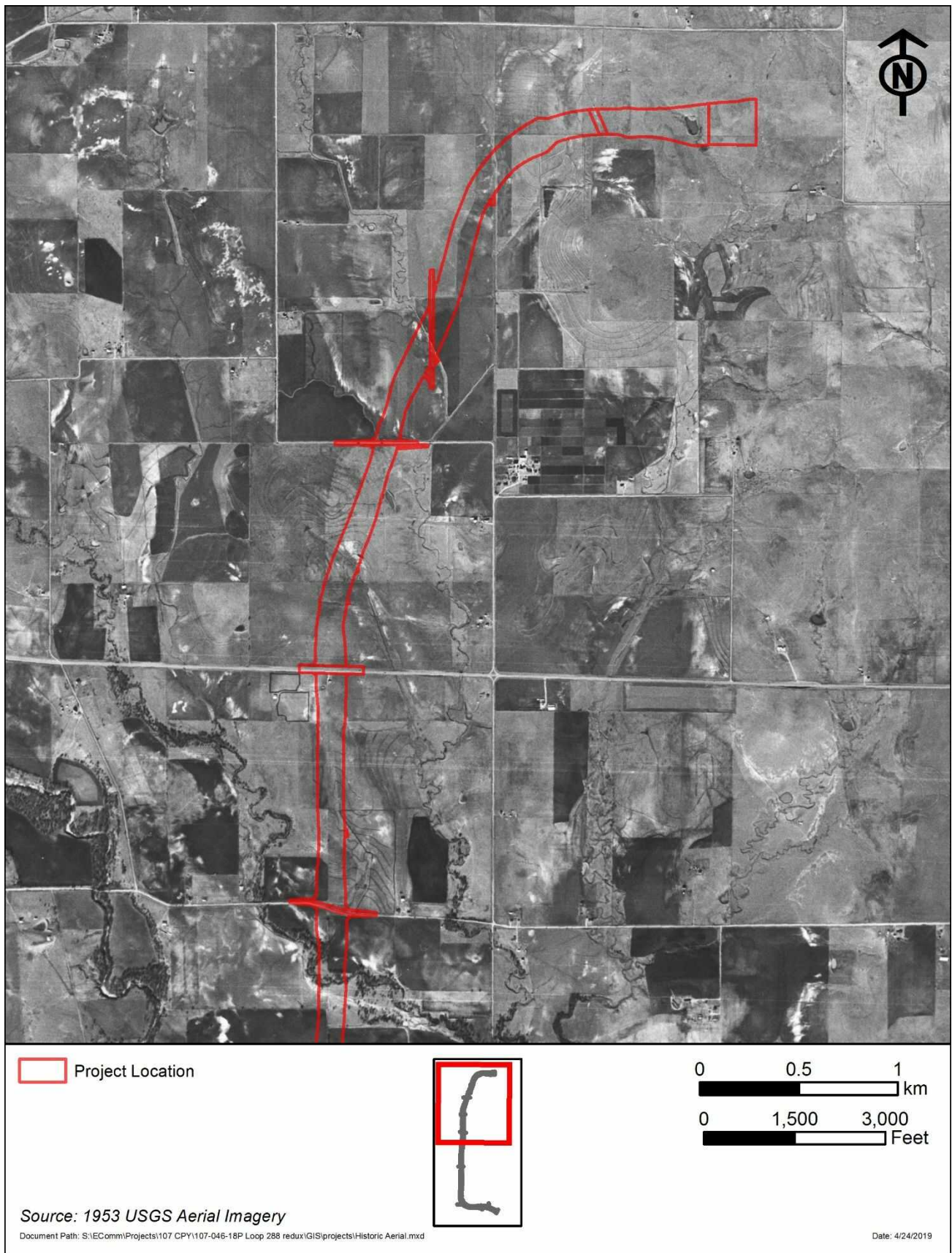
## Appendix D: Historic Aerials





**Figure 5a: 1953 Historic Aerial, South Half**





**Figure 5b: 1953 Historic Aerial, North Half**



## Appendix E: Schematics



© 2019 by Texas Department of Transportation: all rights reserved.





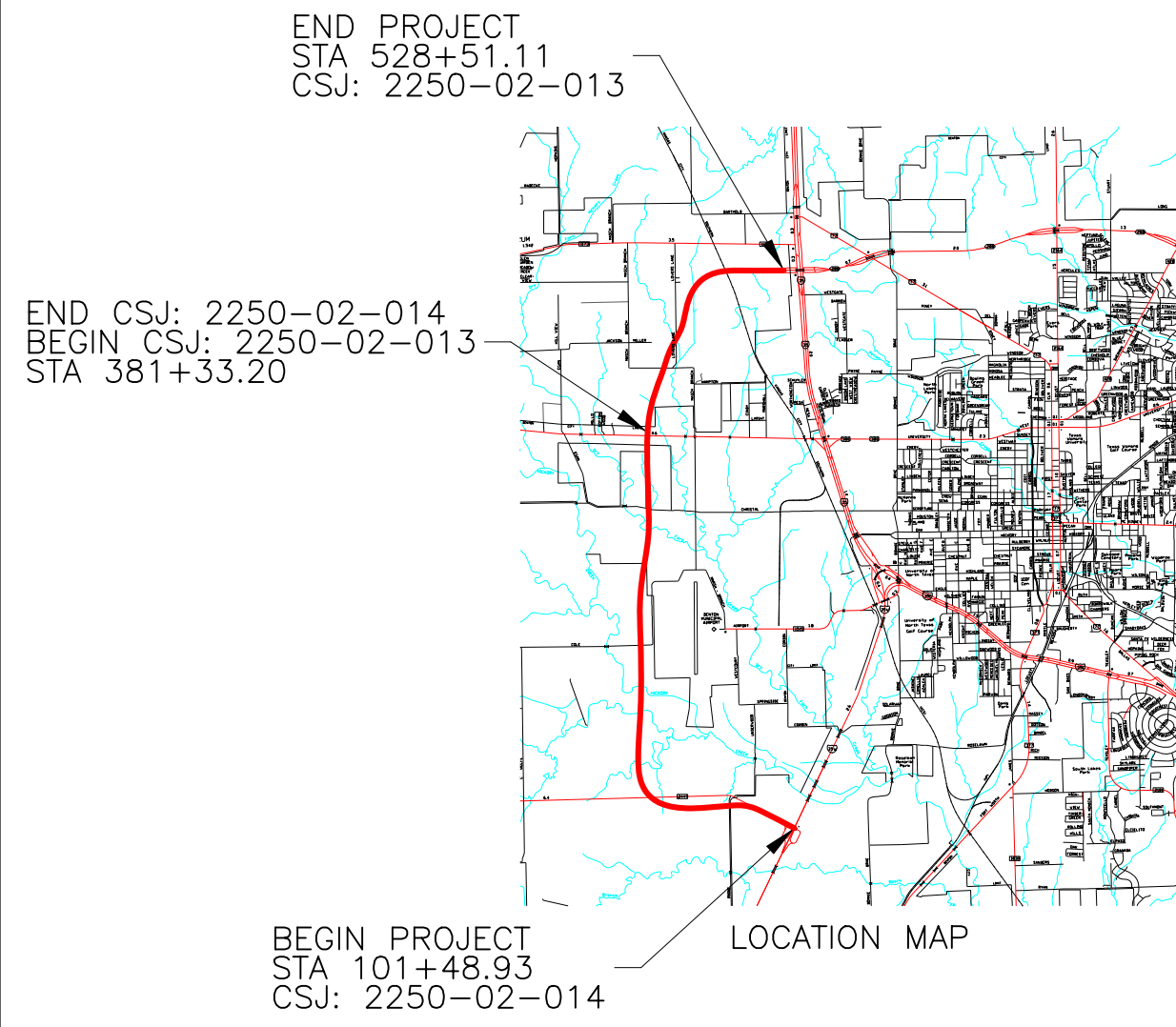
DALLAS DISTRICT  
DESIGN SCHEMATIC  
MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35  
CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL  
DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES

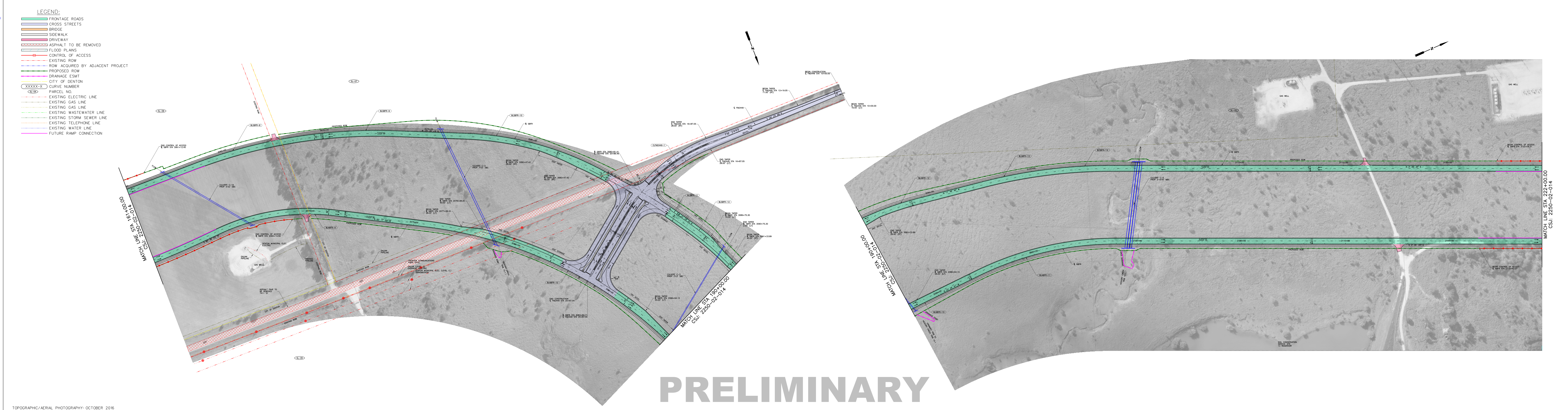


MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 2 OF 7

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY  
NOT FOR CONSTRUCTION  
OR CONTRACT DOCUMENTS  
CP&Y

DATE: MARCH 2019  
THOMAS COCHILL  
P.E. NO. 87665

© 2019 by Texas Department of Transportation all rights reserved.



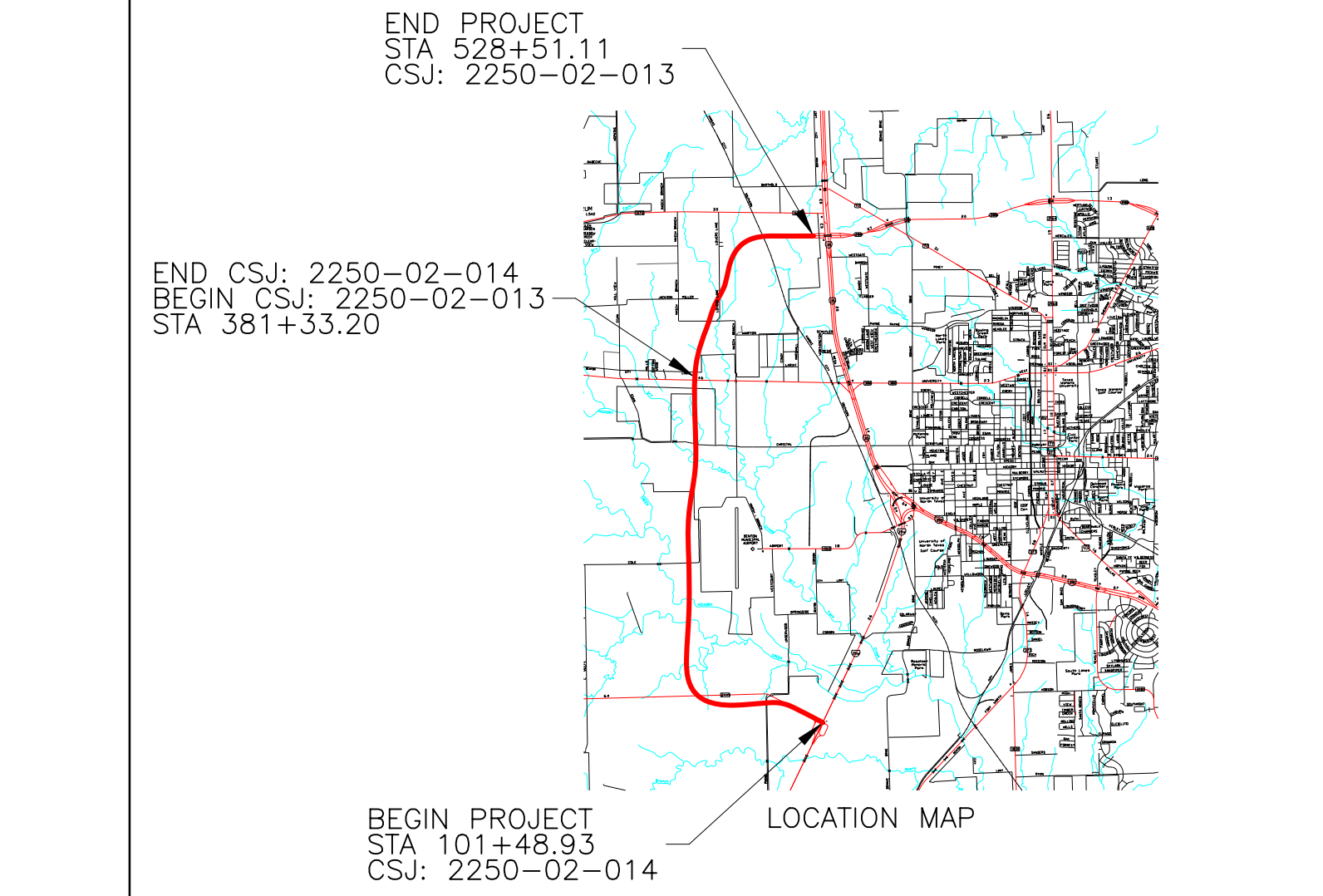
DALLAS DISTRICT  
DESIGN SCHEMATIC  
MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35  
CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL  
DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 2 OF 7

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY  
NOT FOR CONSTRUCTION  
OR CONTRACT DOCUMENTS  
CP&Y

DATE: MARCH 2019  
THOMAS COCHILL  
P.E. NO. 87665

© 2019 by Texas Department of Transportation all rights reserved.







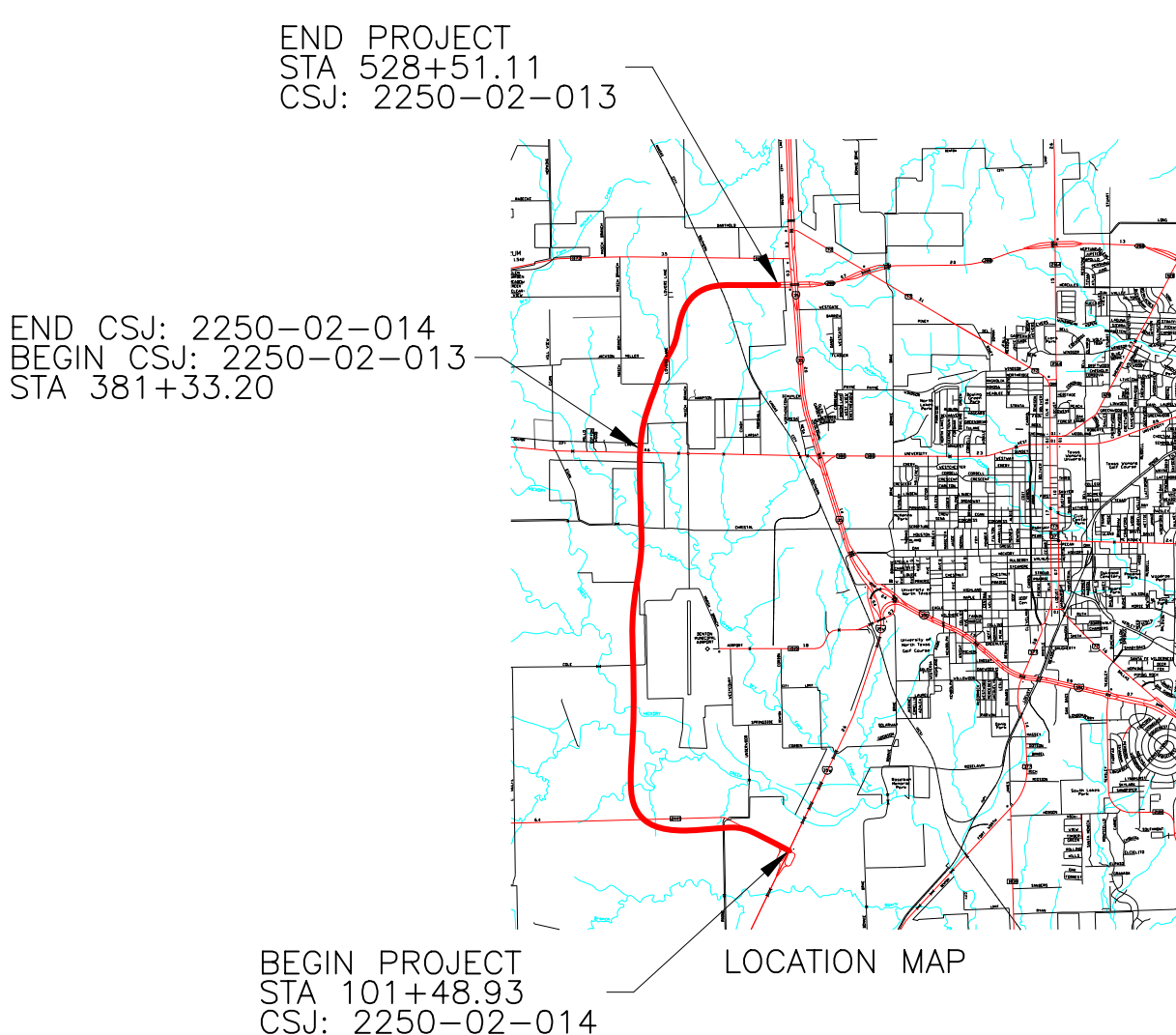
DALLAS DISTRICT  
DESIGN SCHEMATIC  
MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35  
CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL  
DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



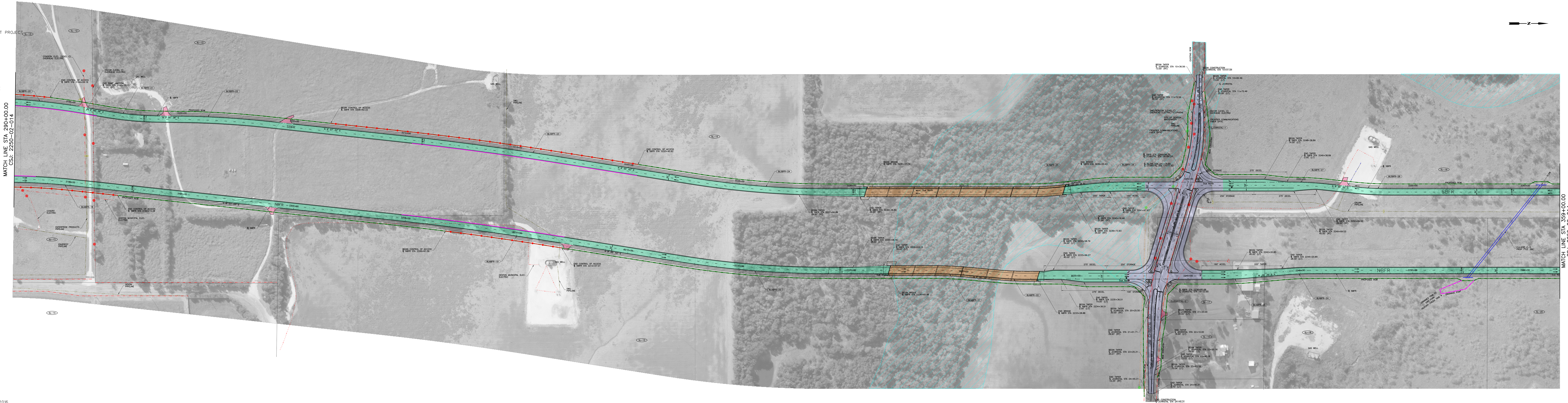
MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 4 OF 7

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY  
NOT FOR CONSTRUCTION  
OR CONTRACT DOCUMENTS  
CP&Y

DATE: MARCH 2019  
THOMAS COCHILL P.E. NO. 87665

# PRELIMINARY

- LEGEND:
- FRONTAGE ROADS
  - CROSS STREETS
  - BRIDGE
  - SIDEWALK
  - DRIVEWAY
  - ASPHALT TO BE REMOVED
  - FLOOD PLANS
  - CONTROL OF ACCESS
  - EXISTING ROW
  - ROW ACQUIRED BY ADJACENT PROJECT
  - PROPOSED ROW
  - DRAINAGE ESMT
  - CITY OF DENTON
  - XXXXX-X CURVE NUMBER
  - PARCEL NO.
  - EXISTING ELECTRIC LINE
  - EXISTING GAS LINE
  - EXISTING WASTEWATER LINE
  - EXISTING STORM SEWER LINE
  - EXISTING TELEPHONE LINE
  - EXISTING WATER LINE
  - FUTURE RAMP CONNECTION



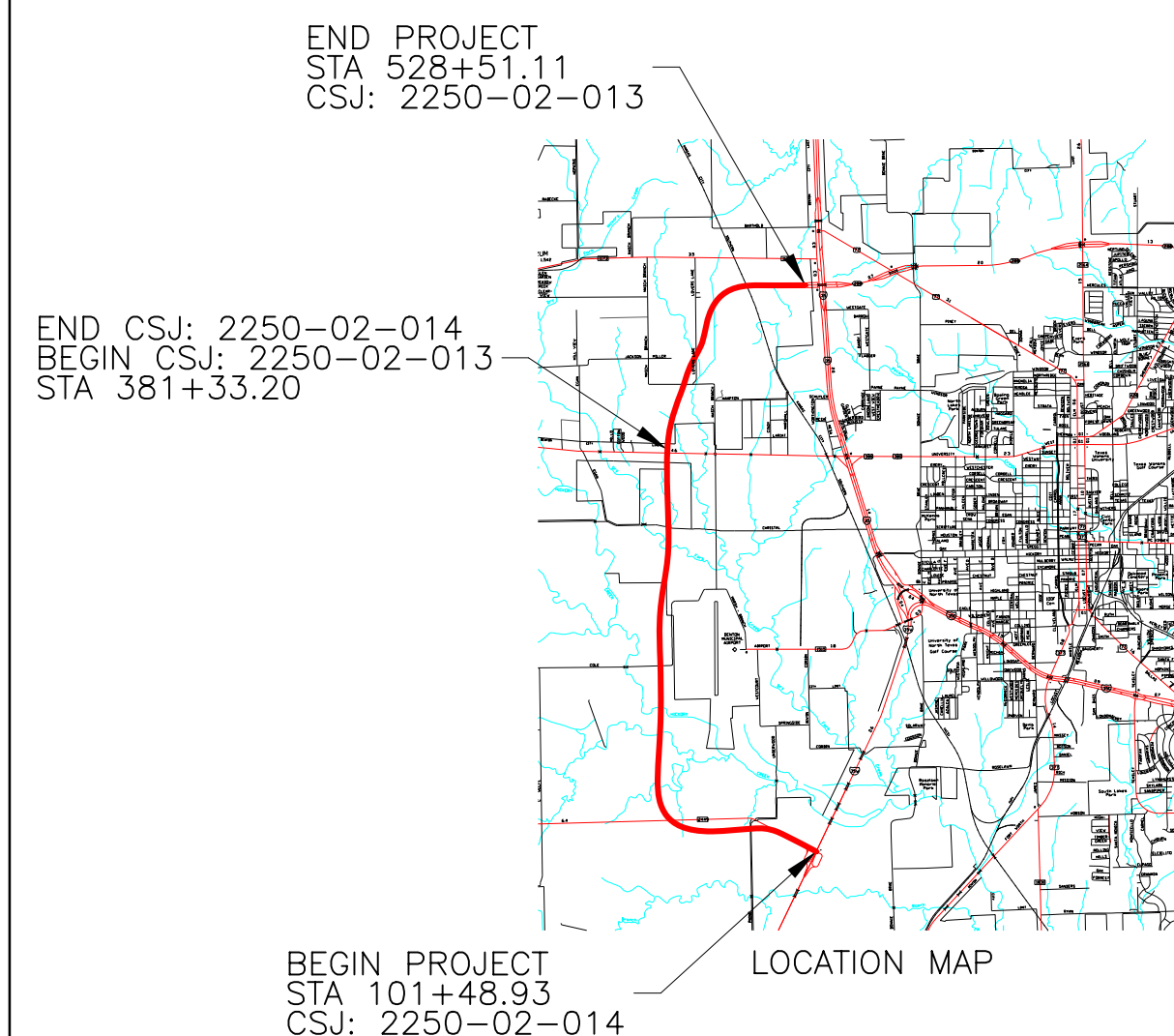
DALLAS DISTRICT  
DESIGN SCHEMATIC  
MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35  
CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL  
DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 4 OF 7

**PRELIMINARY**  
FOR INTERIM REVIEW ONLY  
NOT FOR CONSTRUCTION  
OR CONTRACT DOCUMENTS  
CP&Y

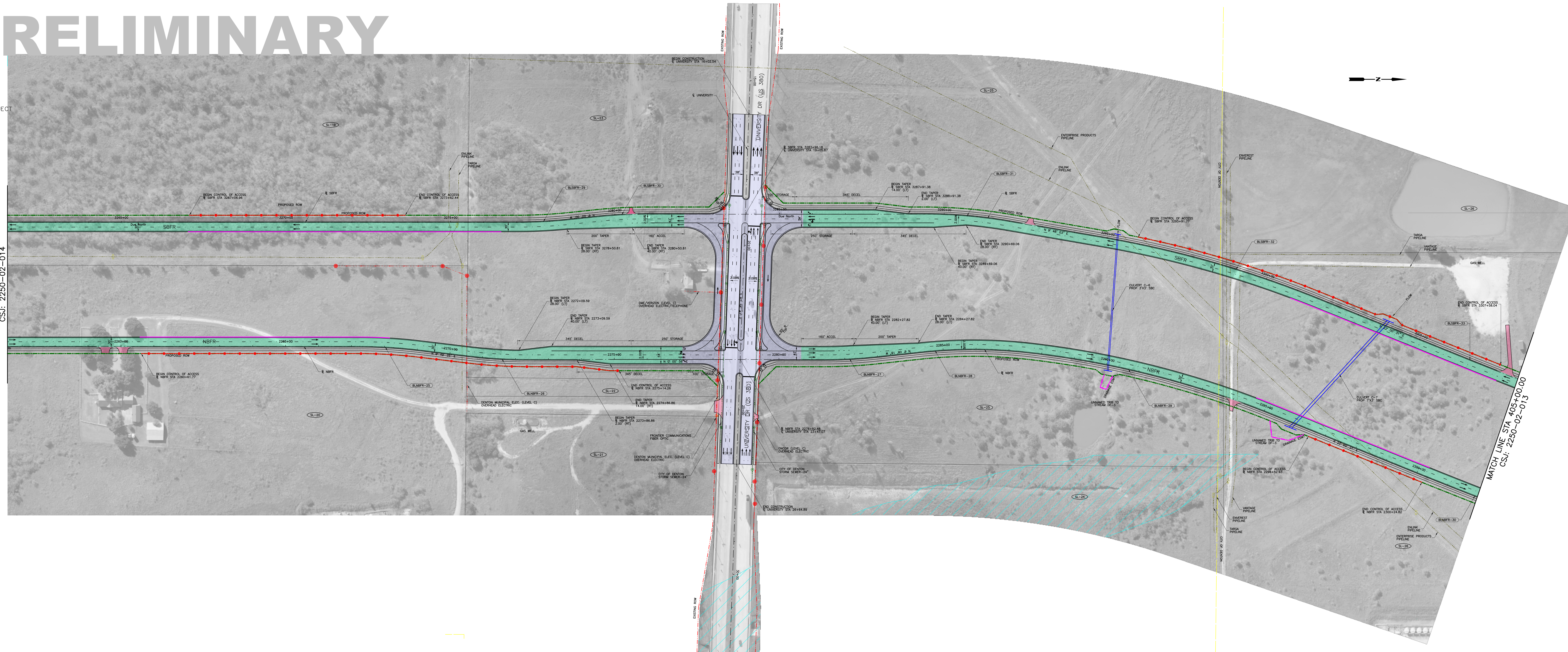
DATE: MARCH 2019  
THOMAS COCHILL P.E. NO. 87665



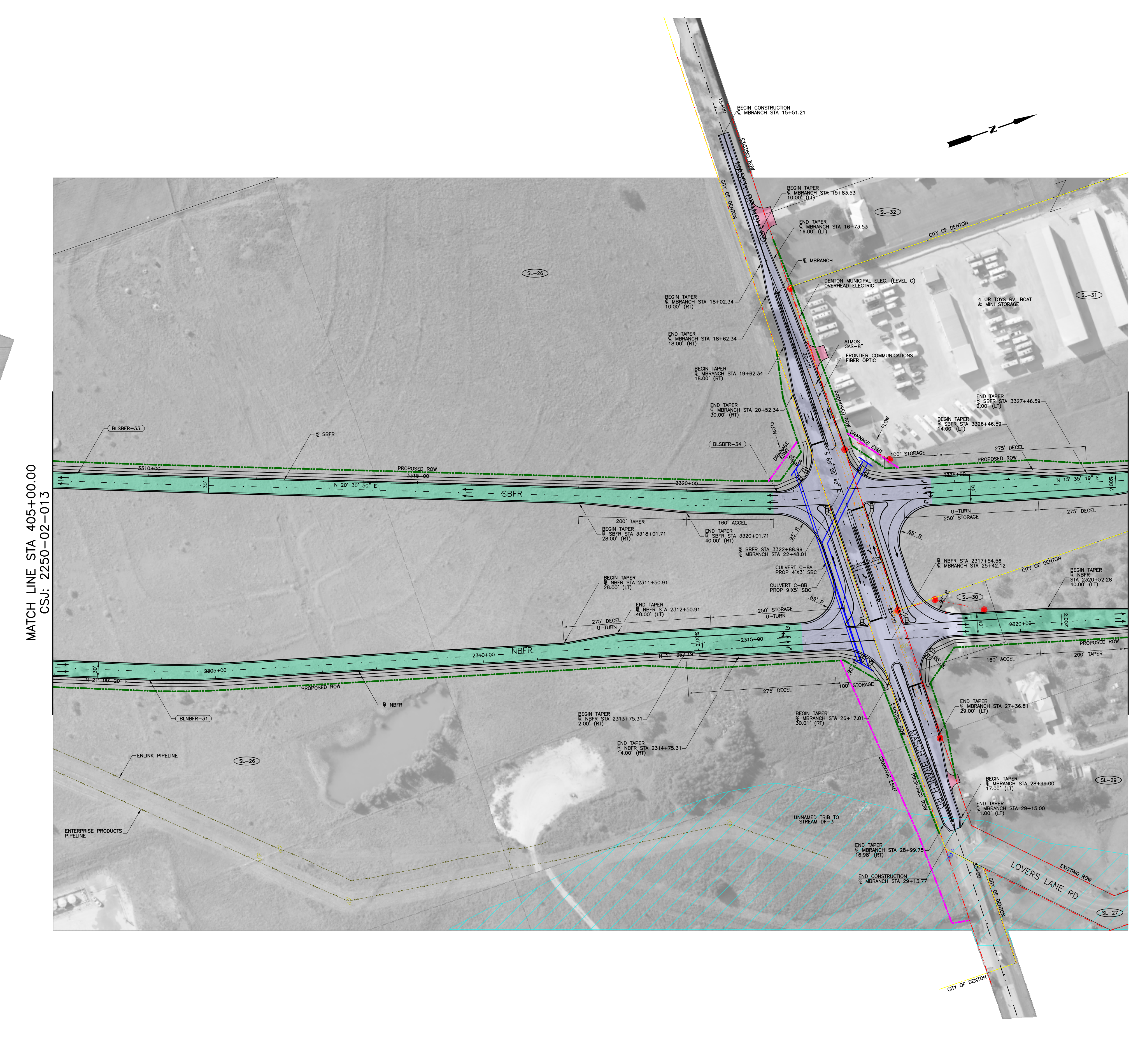
# PRELIMINARY

- LEGEND:
- FRONTAGE ROADS
  - CROSS STREETS
  - BRIDGE
  - SIDEWALK
  - DRIVEWAY
  - ASPHALT TO BE REMOVED
  - FLOOD PLANS
  - CONTROL OF ACCESS
  - EXISTING ROW
  - ROW ACQUIRED BY ADJACENT PROJECT
  - PROPOSED ROW
  - DRAINAGE ESMT
  - CITY OF DENTON
  - CURVE NUMBER
  - XXXX-X
  - PARCEL NO.
  - EXISTING ELECTRIC LINE
  - EXISTING GAS LINE
  - EXISTING WASTEWATER LINE
  - EXISTING STORM SEWER LINE
  - EXISTING TELEPHONE LINE
  - EXISTING WATER LINE
  - FUTURE RAMP CONNECTION

MATCH LINE STA 359+00.00  
CSI: 2250-02-014



MATCH LINE STA 405+00.00  
CSI: 2250-02-013



MATCH LINE STA 425+00.00  
CSI: 2250-02-013



MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35

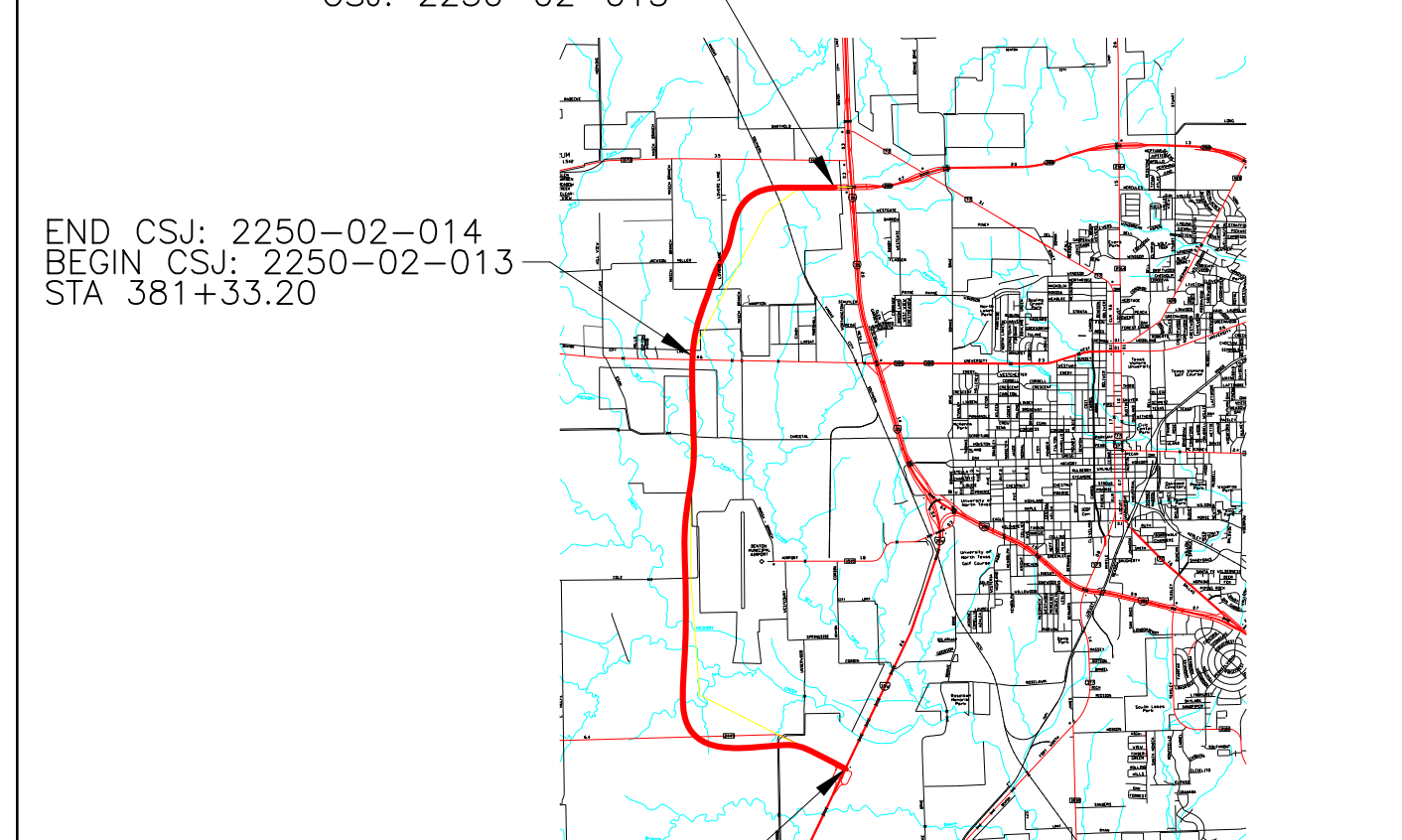
CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES

END PROJECT  
STA 528+51.11  
CSI: 2250-02-013



BEGIN PROJECT  
STA 101+48.93  
CSJ: 2250-02-014

MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 6 OF 7

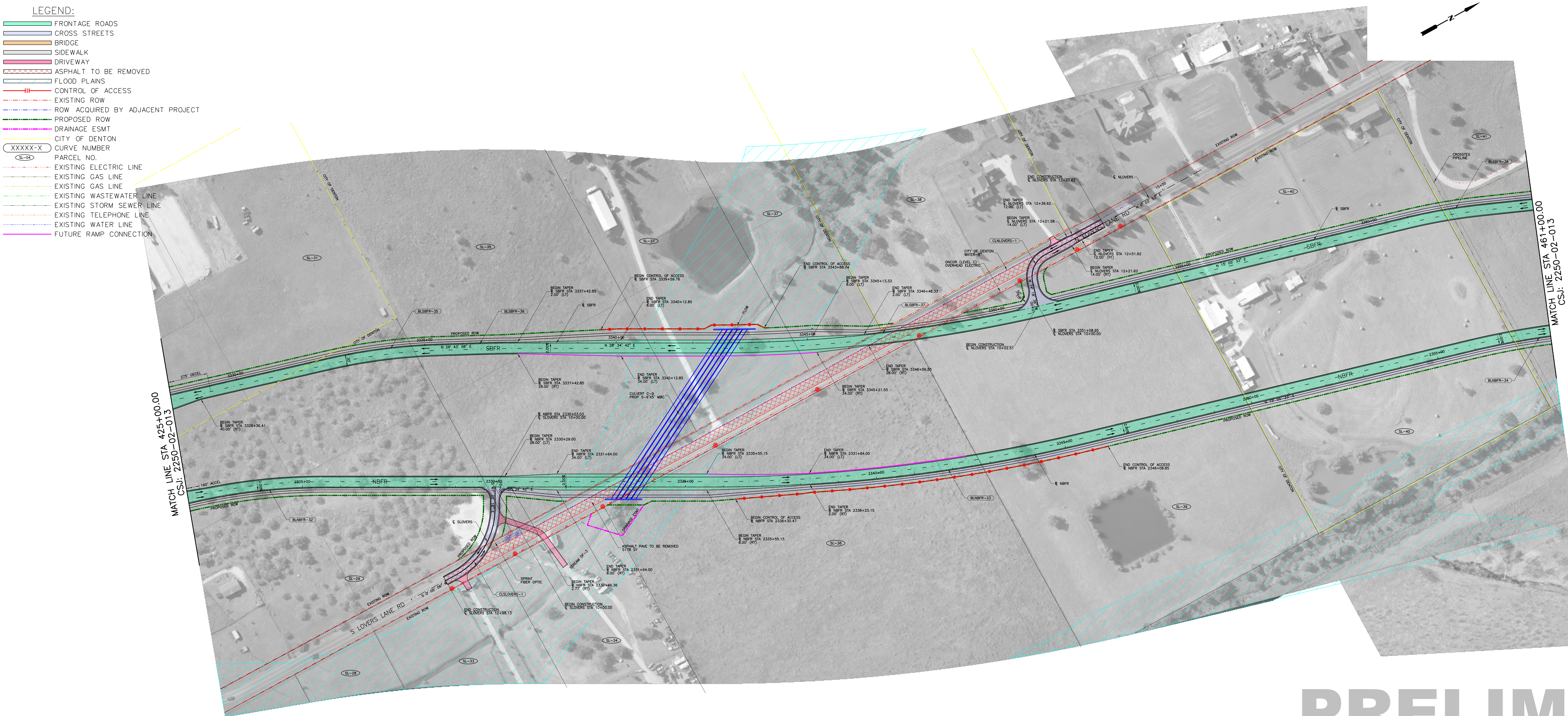
**PRELIMINARY**

FOR INTERIM REVIEW ONLY  
SUBJECT TO CHANGE  
NOT FOR CONSTRUCTION, BIDDING,  
OR PERMIT PURPOSES.

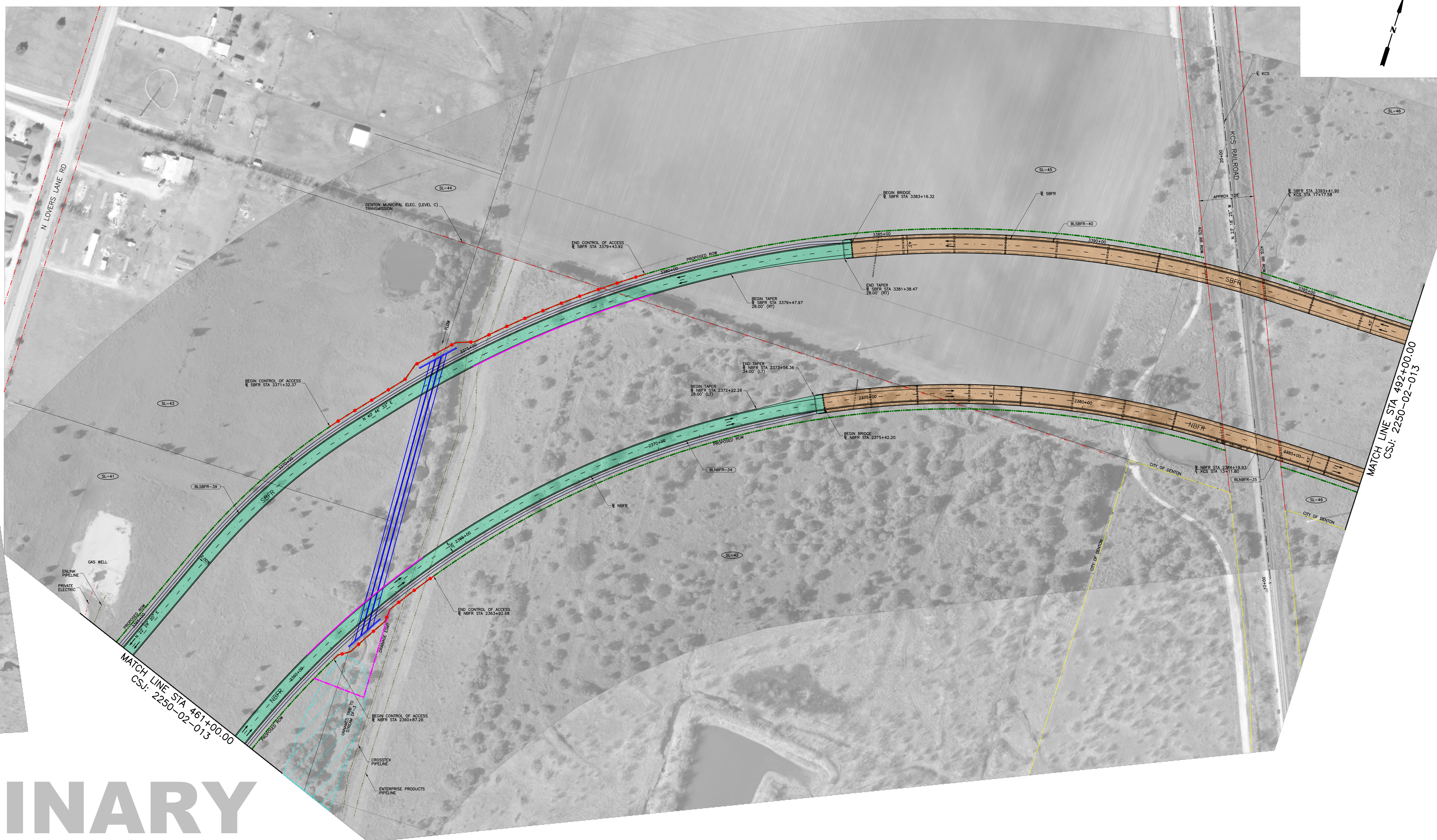
**CPY**

	DATE: MARCH 2019
	THOMAS COCHILL P.E. NO. 87665

© 2019 by Texas Department of Transportation; all rights reserved.



# PRELIMINARY



DALLAS DISTRICT  
DESIGN SCHEMATIC

MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35

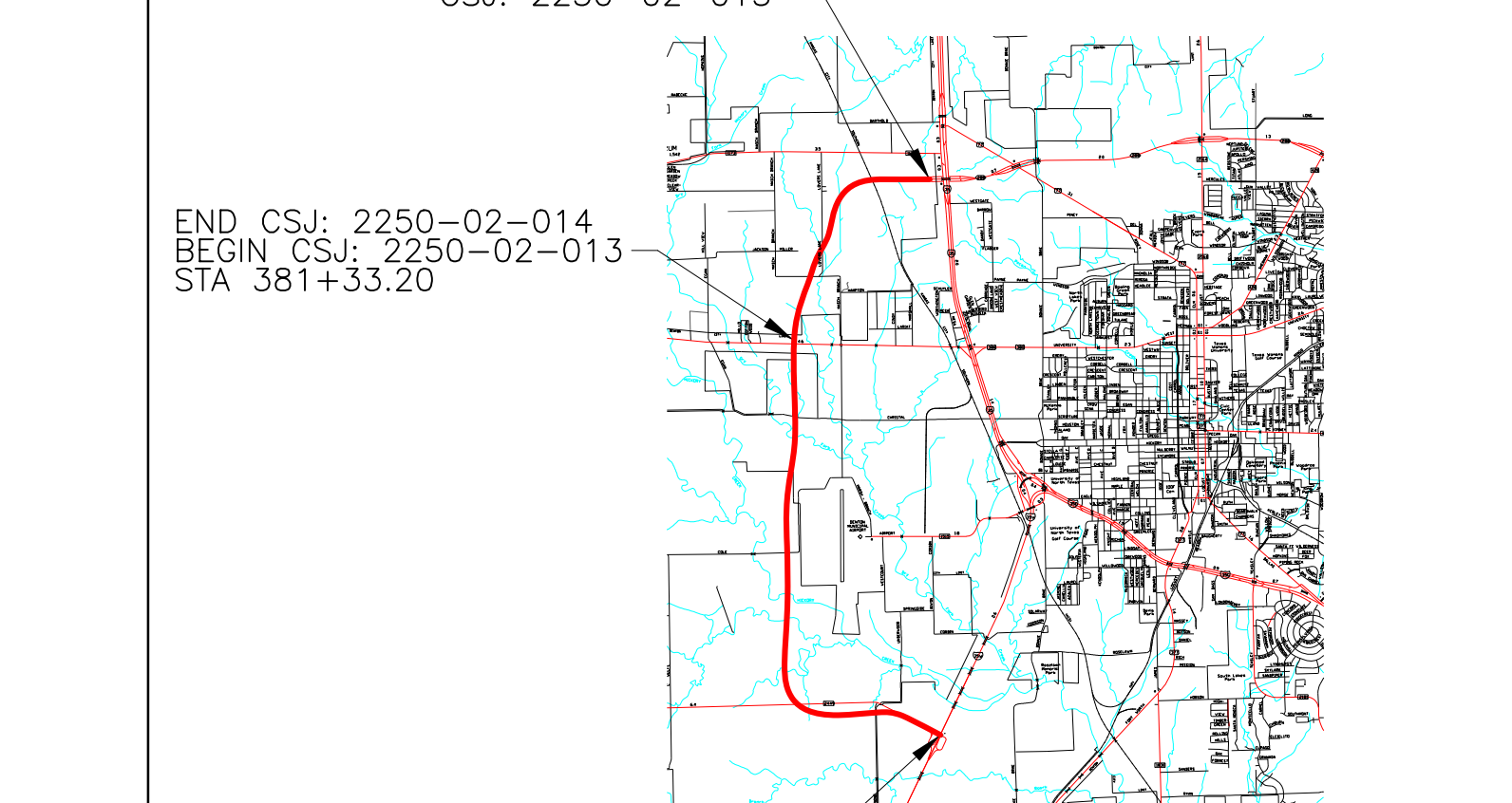
CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES

END PROJECT  
STA 528+51.11  
CSI: 2250-02-013



BEGIN PROJECT  
STA 101+48.93  
CSJ: 2250-02-014

MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 6 OF 7

**PRELIMINARY**

FOR INTERIM REVIEW ONLY  
 SUBJECT TO CHANGE  
 NOT FOR CONSTRUCTION, BIDDING,  
 OR PERMIT PURPOSES.

**CP&U**

	DATE: MARCH 2019
	THOMAS COCHILL P.E. NO. 87665

© 2019 by Texas Department of Transportation; all rights reserved.



DALLAS DISTRICT  
DESIGN SCHEMATIC

MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

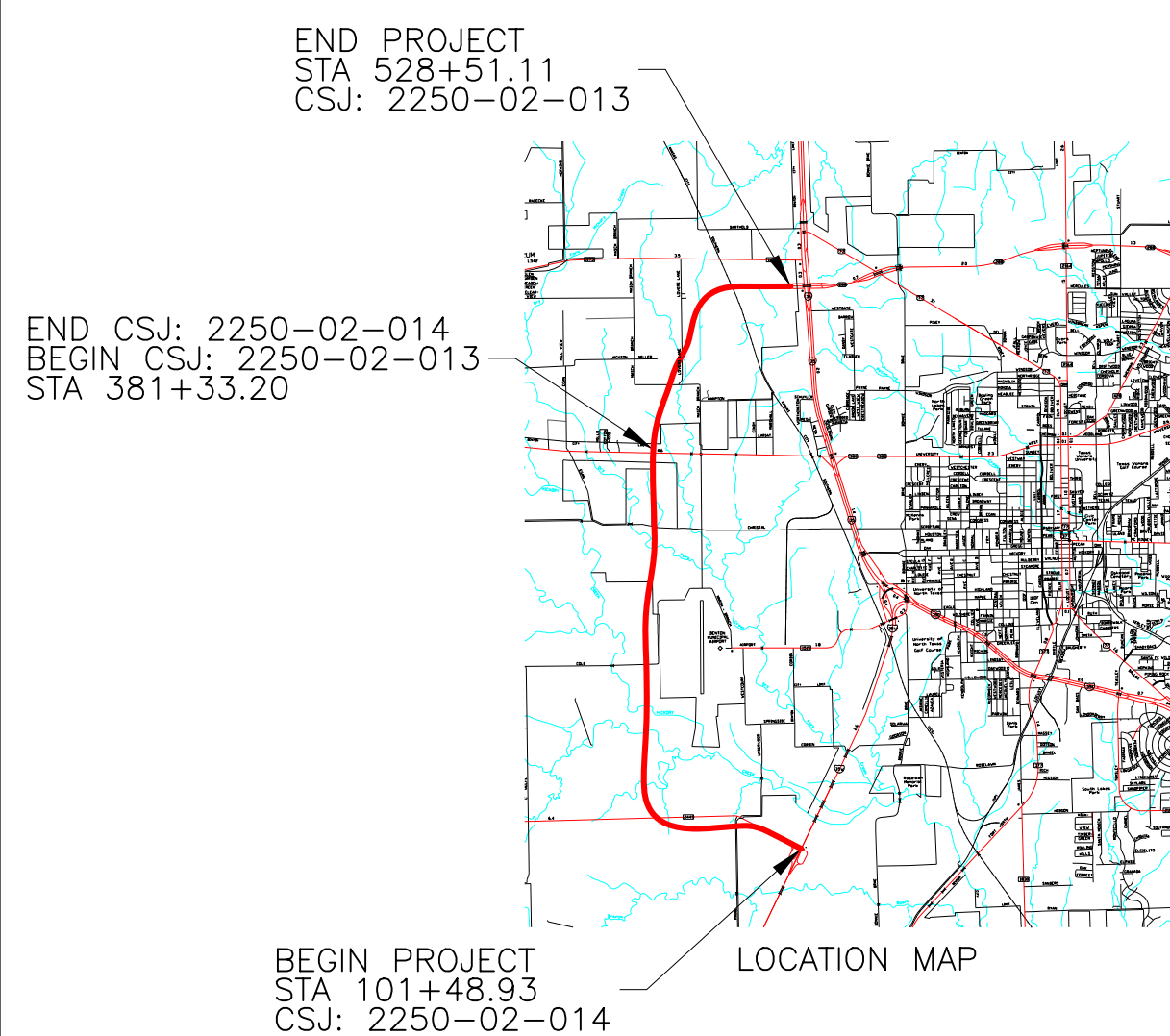
PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35

CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



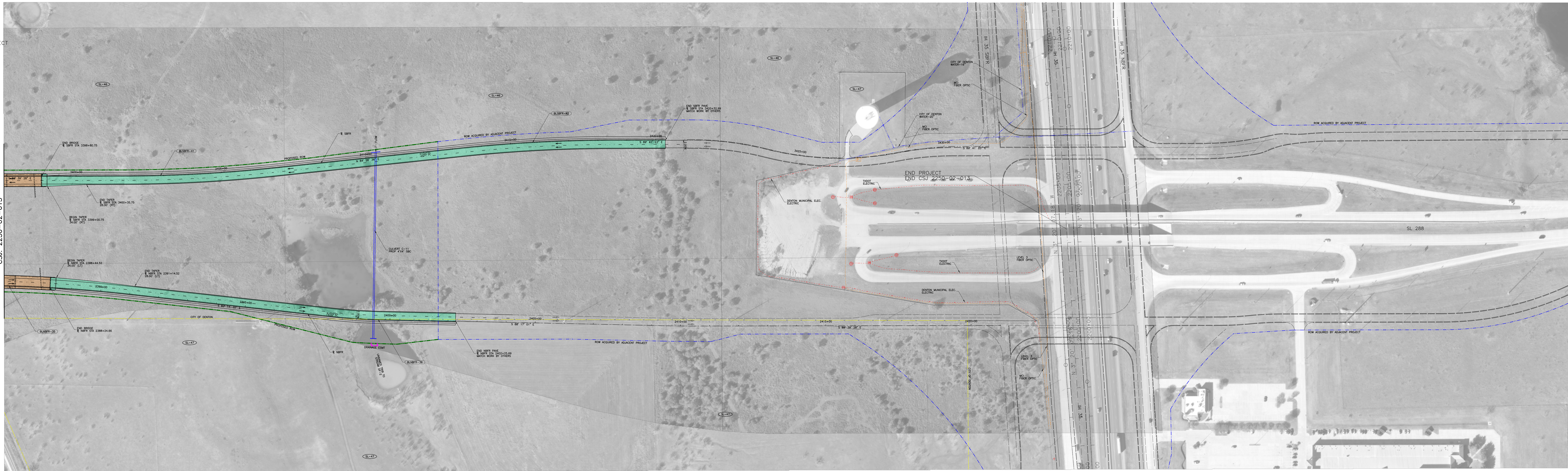
MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 7 OF 7

# PRELIMINARY

**LEGEND:**

- FRONTAGE ROADS
- CROSS STREETS
- BRIDGE
- SIDEWALK
- DRIVEWAY
- ASPHALT TO BE REMOVED
- FLOOD PLANS
- CONTROL OF ACCESS
- EXISTING ROW
- ROW ACQUIRED BY ADJACENT PROJECT
- PROPOSED ROW
- DRAINAGE ESMT
- CITY OF DENTON
- XXXXX-X CURVE NUMBER
- PARCEL NO.
- EXISTING ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING WASTEWATER LINE
- EXISTING STORM SEWER LINE
- EXISTING TELEPHONE LINE
- EXISTING WATER LINE
- FUTURE RAMP CONNECTION

MATCH LINE STA 492+00.00  
CSJ: 2250-02-013



DALLAS DISTRICT  
DESIGN SCHEMATIC

MOHAMED BUR, P.E., DISTRICT ENGINEER

DENTON COUNTY  
SL 288

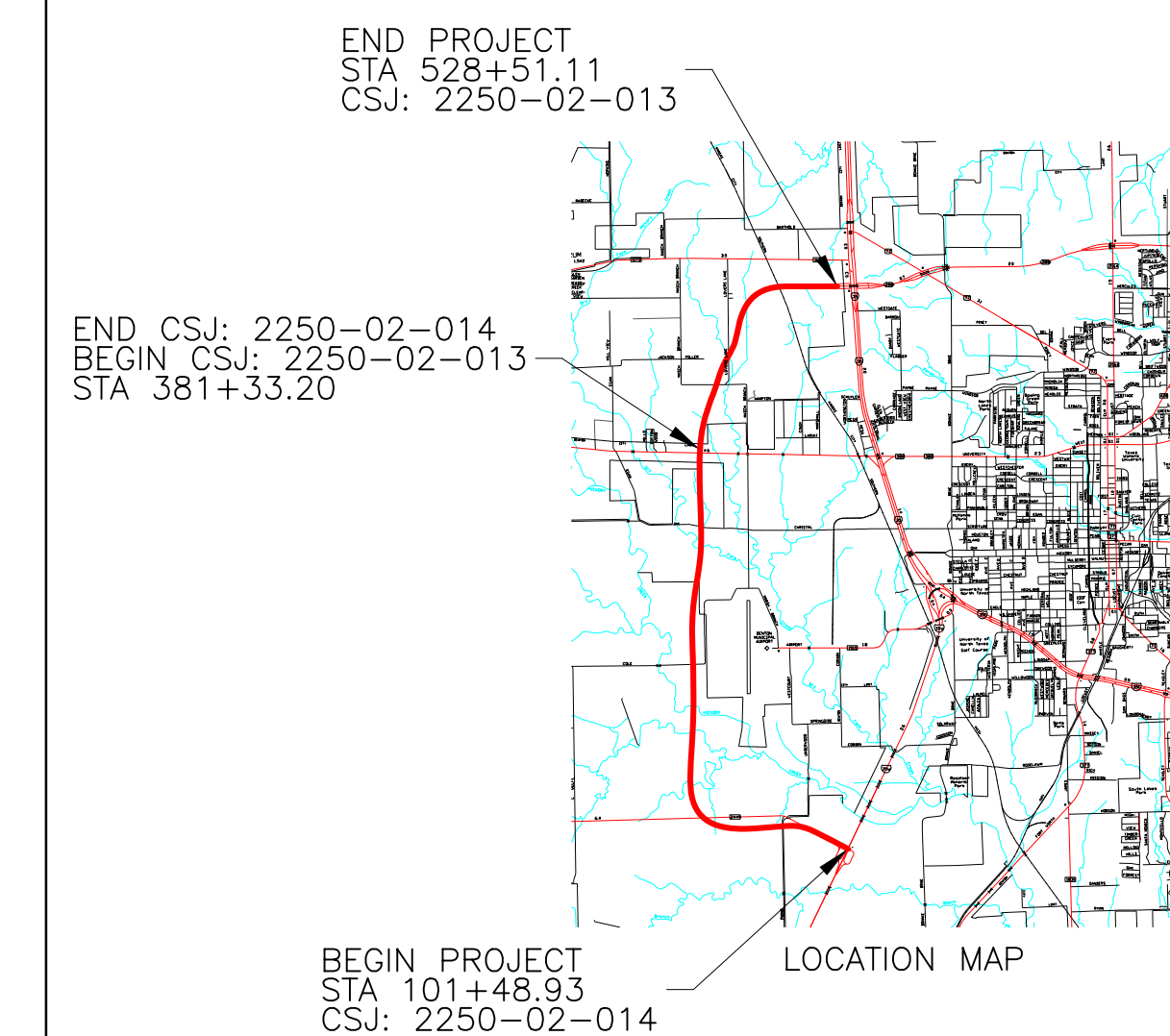
PROJECT LIMIT: FROM I.H. 35W  
TO I.H. 35

CONTROL: 2250-02-013  
2250-02-014

FUNCTIONAL CLASS: URBAN ARTERIAL

DESIGN SPEED: 45 mph FRONTAGE ROADS  
30 mph CROSS STREETS

PROJECT LENGTH = 47,520 FT = 9.0 MILES



MARCH 2019  
SCALE: 1"=100' H, 1"= 10' V  
ROLL 7 OF 7



## **Appendix F: Consulting Party Comments**



## Kurt Korfmacher

---

**From:** Kurt Korfmacher  
**Sent:** Friday, June 07, 2019 3:18 PM  
**To:** jonathan.mount@unt.edu  
**Subject:** Request for CHC Comment: State Loop 288 from I-35W to I-35, Denton County, CSJ 2250-02-014 and 2250-02-013  
**Attachments:** SL 288 Project Location.pdf

Mr. Mount,

The Texas Department of Transportation in conjunction with Denton County is proposing the construction of a four-lane new location frontage road system for State Loop (SL) 288 from Interstate Highway 35W (I-35W) south of Denton to I-35 north of Denton, in Denton County, Texas (see attached figure). The distance of the proposed project is approximately 9.0 miles. The proposed project would require approximately 401.5 acres of additional ROW, approximately 1.2 acres of permanent easement (drainage easement), and 13.2 acres of proposed ROW by other entities.

The new location SL 288 frontage road system would include a northbound and southbound frontage road facility. For rural areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) and 8-foot wide inside and outside shoulders in each direction, with open ditch drainage. For urbanized areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) in each direction, with curb and gutter drainage. The facility would also include 6-foot wide sidewalks along both sides of the road throughout the project limits. The proposed project ROW would include a median (variable width) that would accommodate the future construction of an ultimate mainlane facility.

The proposed project would also construct intersections at six (6) major crossroads as follow: John Paine, Farm-to-Market Road (FM) 2449, Tom Cole/FM 1515, Jim Christal Road, U.S. Highway (US) 380, and Masch Branch Road. In addition, the proposed project would construct a grade separation at the KCS Railroad and would tie into the grade separations at IH 35 and IH 35W.

The proposed SL 288 project (frontage road system) would likely be constructed in two phases based on traffic needs and project funding. Phase 1 would construct a single two-lane, two-way frontage road, and would also acquire the proposed ROW to accommodate the frontage roads and the future ultimate mainlane facility. As traffic warrants and funding becomes available, Phase 2 would involve the construction of the two-lane frontage road, which would include the conversion of the two-way frontage road built in Phase 1 to a one-way operation, and the construction of grade separations at specific high-volume intersections.

We are writing you to inquire if the Denton County Historical Commission is aware of any historic sites, cemeteries, or historically significant bridges in the project area referenced above. Preliminary research using available databases has not turned up any previously identified historic properties in the project area, including properties listed in or eligible for listing in the National Register of Historic Places, Recorded Texas Historic Landmarks, or non-archeological State Antiquities Landmarks.

If you wish to comment, please respond within 14 days or we will assume that you have no comments on this project. Thank you for your assistance in this project. If you should need further information concerning this project, please do not hesitate to contact me.

Sincerely,

Kurt Korfmacher



Architectural Historian

**Please note new address!**



11842 Rim Rock Trail

Austin, TX 78737

(512) 329-0031

(512) 329-0012 fax

[kkorfmacher@amaterra.com](mailto:kkorfmacher@amaterra.com)

[www.amaterra.com](http://www.amaterra.com)

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.



## Kurt Korfmacher

---

**From:** Kurt Korfmacher  
**Sent:** Friday, June 07, 2019 3:22 PM  
**To:** roman.mcallen@cityofdenton.com  
**Subject:** Request for Comment: State Loop 288 from I-35W to I-35, Denton County, CSJ 2250-02-014 and 2250-02-013  
**Attachments:** SL 288 Project Location.pdf

Roman McAllen, Historic Preservation Officer  
City of Denton  
215 West Hickory  
Denton, TX 76201  
roman.mcallen@cityofdenton.com

Re: State Loop 288 from I-35W to I-35  
Denton County, Dallas District  
CSJs: 2250-02-014, 2250-02-013

Mr. McAllen,

The Texas Department of Transportation in conjunction with Denton County is proposing the construction of a four-lane new location frontage road system for State Loop (SL) 288 from Interstate Highway 35W (I-35W) south of Denton to I-35 north of Denton, in Denton County, Texas (see attached map). The distance of the proposed project is approximately 9.0 miles. The proposed project would require approximately 401.5 acres of additional ROW, approximately 1.2 acres of permanent easement (drainage easement), and 13.2 acres of proposed ROW by other entities.

The new location SL 288 frontage road system would include a northbound and southbound frontage road facility. For rural areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) and 8-foot wide inside and outside shoulders in each direction, with open ditch drainage. For urbanized areas, the facility would consist of two travel lanes (one 12-foot wide lane and one 14-foot wide lane for bicycle accommodation) in each direction, with curb and gutter drainage. The facility would also include 6-foot wide sidewalks along both sides of the road throughout the project limits. The proposed project ROW would include a median (variable width) that would accommodate the future construction of an ultimate mainlane facility.

The proposed project would also construct intersections at six (6) major crossroads as follow: John Paine, Farm-to-Market Road (FM) 2449, Tom Cole/FM 1515, Jim Christal Road, U.S. Highway (US) 380, and Masch Branch Road. In addition, the proposed project would construct a grade separation at the KCS Railroad and would tie into the grade separations at IH 35 and IH 35W.

The proposed SL 288 project (frontage road system) would likely be constructed in two phases based on traffic needs and project funding. Phase 1 would construct a single two-lane, two-way frontage road, and would also acquire the proposed ROW to accommodate the frontage roads and the future ultimate mainlane facility. As traffic warrants and funding becomes available, Phase 2 would involve the construction of the two-lane frontage road, which would include the conversion of the two-way frontage road built in Phase 1 to a one-way operation, and the construction of grade separations at specific high-volume intersections.

We are writing you to inquire if the City of Denton is aware of any historic sites, cemeteries, or historically significant bridges in the project area referenced above. Preliminary research using available databases has not turned up any previously identified historic properties in the project area, including properties listed in or eligible for listing in the



National Register of Historic Places, Recorded Texas Historic Landmarks, or non-archeological State Antiquities Landmarks.

If you wish to comment, please respond within 14 days or we will assume that you have no comments on this project. Thank you for your assistance in this project. If you should need further information concerning this project, please do not hesitate to contact me.

Sincerely,

Kurt Korfmacher  
Architectural Historian

**Please note new address!**



11842 Rim Rock Trail  
Austin, TX 78737  
(512) 329-0031  
(512) 329-0012 fax  
[kkorfmacher@amaterra.com](mailto:kkorfmacher@amaterra.com)  
[www.amaterra.com](http://www.amaterra.com)

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.



## Kurt Korfmacher

---

**From:** McAllen, Roman <Roman.McAllen@cityofdenton.com>  
**Sent:** Monday, June 24, 2019 11:13 AM  
**To:** Kurt Korfmacher  
**Cc:** Jason Cole  
**Subject:** RE: CSJ 2250-02-014 and 2250-02-013

Hello Mr. Korfmacher. I have forwarded your question to a man named Jason Cole who serves on the P&Z here. He would know.

**Roman McAllen**  
Office: (940) 349-8382

---

**From:** Kurt Korfmacher <kkorfmacher@amaterra.com>  
**Sent:** Friday, June 21, 2019 3:34 PM  
**To:** McAllen, Roman <Roman.McAllen@cityofdenton.com>  
**Cc:** Erin Mace <emace@amaterra.com>  
**Subject:** RE: CSJ 2250-02-014 and 2250-02-013

Mr. McAllen,

In the course of our research, we have come across references to the Call Ranch which is or was located around the south end of the project area. Does this name sound familiar, and if so, do you have any information you could share?

Thanks,

Kurt Korfmacher  
Architectural Historian  
AmaTerra Environmental, Inc.  
Office: 512-329-0031  
[kkorfmacher@amaterra.com](mailto:kkorfmacher@amaterra.com)  
[www.amaterra.com](http://www.amaterra.com)

---

**From:** Kurt Korfmacher  
**Sent:** Thursday, June 13, 2019 1:07 PM  
**To:** McAllen, Roman <[Roman.McAllen@cityofdenton.com](mailto:Roman.McAllen@cityofdenton.com)>  
**Subject:** RE: CSJ 2250-02-014 and 2250-02-013

Mr. McAllen,

Thank you very much for the reply. If anything does come to your attention, we would be most appreciative if you passed that information along. We are planning fieldwork later this month. Thank you again for your attention to this matter!

Thank you,

Kurt Korfmacher  
Architectural Historian



AmaTerra Environmental, Inc.  
Office: 512-329-0031  
[kkorfmacher@amaterra.com](mailto:kkorfmacher@amaterra.com)  
[www.amaterra.com](http://www.amaterra.com)

---

**From:** McAllen, Roman <[Roman.McAllen@cityofdenton.com](mailto:Roman.McAllen@cityofdenton.com)>  
**Sent:** Thursday, June 13, 2019 12:54 PM  
**To:** Kurt Korfmacher <[kkorfmacher@amaterra.com](mailto:kkorfmacher@amaterra.com)>  
**Subject:** CSJ 2250-02-014 and 2250-02-013

Mr. Korfmacher. One of the planning commissioners is going to drive the route soon and let me know. Right now, we don't see anything to concern us. r

**Roman McAllen**, Assoc. AIA, AICP, CNU-A | Historic Preservation Officer  
Department of Development Services | Planning Division  
Office: (940) 349-8382 | Fax: (940) 349-7707  
[215 W. Hickory Street, Denton, Texas 76201](http://215.W.HickoryStreet,Denton,Texas76201)  
[www.cityofdenton.com](http://www.cityofdenton.com)





## **Appendix G: Project Area Photographs (from PCR)**





View of northern project limit from SL 288 at IH 35, facing west (Google Earth November 2018).



View of non-historic-age house on Lovers Lane in proposed ROW, facing east (Google Earth, November 2018).





Proposed SL 288 at Lovers Lane in ROW, facing south (taken April 2019).





Proposed SL 288 at Masch Branch Road, facing east (taken April 2019).





View of house and garage at intersection of Lovers Lane and Masch Branch Road, facing north (Google Earth, March 2017).



View of house within proposed ROW on Masch Branch Road west of Lovers Lane, facing northeast (Google Earth, July 2018).





View of house within proposed ROW on W University Drive west of Masch Branch Road, facing south (Google Earth, July 2018).



View of Denton Municipal Airport entrance at Masch Branch Road and Airport, facing west (Google Earth, March 2017).





View of FM 2449 Bridge over IH 35W, facing southwest (Google Earth, July 2018).



View of southern project limit at IH 35W at FM 2449, facing northwest (Google Earth, November 2018).