

Appendix F – Interim Report for Archeological Survey

(*Location of sites is not made publicly available per the Archeological Resources Protection Act of 1979.)

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Interim Report for Archeological Survey

Loop 9, Segment A from US 67 to IH 35E,
Dallas and Ellis Counties, Dallas District
CSJ: 2964-10-006

Maura Hogan, Principal Investigator; Antiquities Permit No. 9195

April 2020

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 9, 2019, and executed by FHWA and TxDOT.

Abstract

On behalf of the Texas Department of Transportation (TxDOT), AmaTerra Environmental, Inc. (AmaTerra), conducted an intensive archeological survey of the proposed highway development of Loop 9, Segment A passing through Cedar Hill, Ovilla, Glenn Heights, and Red Oak. The Area of Potential Effects (APE) extends from US 67 9.4 miles eastward to IH 35E. AmaTerra archeologists completed the survey under TAC Permit No. 9195 and fieldwork occurred between January 8–13, 2020 by a team of eight archeologists. The survey was conducted according to the Council of Texas Archeologists (CTA) standards, consisting of 100% intensive pedestrian survey supplemented with shovel testing and backhoe trenching along water crossings and areas with high potential for deeply buried archeological deposits. A total of 588 shovel tests and five backhoe trenches were excavated on this survey.

Two new archeological sites, 41DL556 and 41DL557, were recorded during the survey. 41DL556 has been identified as a mid-twentieth century farmstead comprised of a cistern and an associated historic artifact surface scatter. 41DL557 has been identified as a mid-twentieth century homestead site comprised of architectural ruins, likely the main house structure, with an associated outbuilding. The sites are recommended not eligible for listing in the National Register of Historic Places (NRHP) or as State Antiquities Landmarks (SAL). At the time of this survey, right-of-entry (ROE) had been granted for approximately 65 percent of the total project area. For the portions of the APE where ROE had been obtained for this survey, this interim report recommends that the proposed undertaking will have no adverse effects on any historic properties and no further archeological work is warranted in these surveyed portions. However, further work is recommended prior to construction in 80 of the 159 parcels where ROE has not yet been granted; these parcels will require intensive archeological survey once ROE is granted for a future survey. No artifacts were collected as part of this project. All notes and field records will be temporarily housed at the AmaTerra Environmental, Inc. main office in Austin, TX pending completion of the survey and project reporting.

Project Information

- **This survey is:**
 - ☒ the initial survey for this project
 - ☐ a continuation of previous survey(s) due to:
 - ☐ access issues and/or
 - ☐ design changes
- **Date:** 1/31/2020
- **Date(s) of Survey:** 01-08-2020 to 01-13-2020
- **Archeological Survey Type:** ☐ Reconnaissance ☒ Intensive
- **Report Version:** ☒ Draft ☐ Final
- **Jurisdiction:** ☒ Federal ☒ State
- **District:** Dallas
- **County or Counties:** Dallas and Ellis
- **USGS Quadrangle(s):** Cedar Hill, and Lancaster
- **Highway:** Loop 9 Segment A
- **CSJ:** 2964-10-006
- **Report Author(s):** Brittany S. McClain and Garrett Wheaton
- **Texas Antiquities Permit Number:** 9195
- **Principal Investigator:** Maura Hogan
- **Estimated Percentage of Time that the Principal Investigator Was in the Field:** Maura Hogan (Principal Investigator) in field 0 percent; Brittany McClain (Technical Expert) in field 100 percent.

Project Description

- **Project Type:** New Highway Construction
- **Total Project Acreage:** 1368.44 acres
- **Existing ROW Acreage:** 36.3 acres
- **New Right of Way (ROW) Acreage:** 1332.14 acres
- **New Easement Acreage (includes temporary and permanent easements):** 0 acres
- **Survey Area:** The survey area for the APE is 1368.44 acres, survey area of granted ROE is 555.5 acres, survey area of denied ROE is 518.3 acres
- **Project Description and Impacts:**

Proposed Facility

The proposed project would consist of the construction of the Loop 9 frontage road system and would include an eastbound and westbound frontage road facility, each consisting of three 12-foot (ft) lanes, an 8-ft inside shoulder, and an 8-ft outside shoulder for bicycle accommodations within the rural section of the proposed roadway (**Figure 1**). The proposed project right-of-way (ROW) would include a median (358 to 512 ft wide) that would accommodate the future construction of an ultimate access-controlled mainlane facility. The project would also construct intersections at eight major crossroads as follows: Tar Road, future Clark Road, S. Joe Wilson Road, S. Duncanville Road, S. Cockrell Hill Road, S. Westmoreland Road, S. Hampton Road, and Uhl Road.

- **Area of Potential Effects (APE):**
- The Area of Potential Effects for archeological resources covered a total distance of approximately 12.4 miles within a 600-foot ROW for Loop 9, Segment A with a total acreage of 1368.44. The route includes a common alignment on both the eastern and western portions of the APE, as well as four different alternatives in the center. The acreage of the APE is broken down as follows: the common alignment is 447.96 acres, Alternative 1 is 220.69 acres, Alternative 2 is 219.76 acres, Alternative 3 is 228.80 acres, and Alternative 4 is 251.23 acres. The horizontal limits of the APE stretch approximately 9.4 miles from US 67 to IH 35E. The vertical limits of the APE would extend less than four feet deep throughout the project area, except at new bridge locations where impacts will extend more than 25 feet below the surface.
 - Horizontal limits: 9.4 miles from US 67 to IH 35E
 - Typical width of any existing ROW (if variable, provide upper and lower limits): 35 feet
 - Typical width of entire ROW, including existing and proposed new ROW (if variable, provide upper and lower limits): 600 feet
 - Typical depth of impacts: 4 feet
 - Maximum depth of impacts: 25 feet

- **No Survey Area:**

AmaTerra staff were able to visually inspect the majority of the APE. Right-of-entry (ROE) was not obtained from 159 property owners, and 80 of these properties are recommended as needing either intensive archeological survey and/or trenching.

- **Access Denied Area:**

Surveyors did not have access to 518.3 acres of proposed new ROW. For these properties, surveyors visually inspected the parcels from the existing ROW and made recommendations for each parcel.

- **Survey Area:**

The present survey focused on the 555.5 acres of proposed new ROW. Surveyors had access to 555.5 acres of new ROW within the APE. This new ROW runs approximately 12.4 miles from US 67 to IH 35E, running through both Dallas and Ellis counties. The APE is between Ovilla Road and Beltline Road. The survey area includes both common alignment areas, and all four alternative routes. Right-of-entry (ROE) was obtained for 128 out of 287 of the properties within the APE.

Property ID(s): Archeologists had ROE for 128 parcels within the APE. All other properties with access within the APE are current ROW and publicly owned by TxDOT. There are also 159 privately owned properties without ROE granted. All of these are listed within **Appendix C**.

Project Area Ownership: Currently owned by multiple private property owners or City entities.

Project Setting

- **Natural Setting**

Topography: The project area falls within the Northern Blackland Prairie sub-region of the Texas Blackland ecoregion, which is distinguished by its gently sloping landscape and tallgrass prairie (Griffith *et al.* 2007). Elevation varies from 300 to 1050 feet above mean sea level (**Figure 2**).

Geology: The APE is underlain by the Austin Chalk (Kau) formation and is characterized by Upper Cretaceous-age chalk and marl (USGS 2020).

Soils: Soils throughout the APE for the common alignment and all four preliminary alternatives consist of dark silty clays or clays with bands of alluvium loam on creek terraces (**Table 1; Figure 3a-c**).

Table 1: Soils within the APE (USDA-NRCS 2020).

Map Symbol	Soil Series
AuB	Austin silty clay, 1–3 percent slopes
AuC2	Austin silty clay, 2–5 percent slopes, eroded

Map Symbol	Soil Series
Br	Broken alluvial land, rarely flooded
EcB	Eddy gravelly clay loam, 1–3 percent slopes
EdD2	Eddy soils, 3–8 percent slopes, eroded
HaB	Houston Black clay, 1–3 percent slopes
SeB2	Stephen-Eddy complex, 1–3 percent slopes, eroded
SeC2	Stephen-Eddy complex, 2–5 percent slopes
StB	Stephen silty clay, 1–4 percent slopes
23	Dalco clay, 1–3 percent slopes
26	Eddy clay loam, 1–3 percent slopes
27	Eddy clay loam, 3–8 percent slopes
30	Eddy-Stephen complex, 1–5 percent slopes
37	Frio silty clay, 0–1 percent slopes, frequently flooded
41	Heiden clay, 1–3 percent slopes
44	Houston Black clay, 1–3 percent slopes
5	Austin silty clay, 1–3 percent slopes
6	Austin silty clay, 2–5 percent slopes, eroded
67	Stephen silty clay, 1–4 percent slopes
7	Austin-Lewisville complex, 5–8 percent slopes, eroded

Potential Archeological Liability Map: The Dallas Potential Archeological Liability Map (PALM) indicates low archeological potential throughout most of the APE, with areas of moderate shallow potential, low deep potential to high shallow potential, low/moderate deep potential surrounding the Red Oak Creek drainages or tributaries (**Figure 4a-c**).

Historic Land Use: The APE extends across an area southwest of Dallas that, until the 1990s, was rural land with occasional farmsteads and large open stretches of agricultural fields and pastures. The first Anglo settlers came to the area in the 1840s and 1850s, most of whom were part of the Peters Colony empresario grant (Wade 2010). Throughout the end of the nineteenth century, Dallas and the surrounding towns and cities grew rapidly as railroads were built, connecting people and commodities to the rest of the state and nation. Still, the land within and immediately surrounding the APE was sparsely populated and used for farming.

In terms of land use within and directly adjacent to the APE, the earliest available map, a topographic map from 1891, depicts open land with no built features except the Gulf, Colorado, and Santa Fe Railroad that crosses the APE near its western terminus. It should be noted, however, that this map has a large scale that would not have incorporated individual houses; it is very likely that scattered farmsteads already existed within the APE by this time. Topographic maps from 1960 depict individual structures within the APE for all four potential alternatives (**Figure 5a-c**). These structures are consistent with sparsely populated farmland. Updates to the 1953 maps since the 1970s and 1980s show that population and the built environment began to increase greatly during this time (**Figure 6a-c**).

Current Land Use: The area within and around the APE for all preliminary project alternatives is a mix of rural and suburban development. The built environment mostly consists of housing developments emanating from Cedar Hill and Glenn Heights.

Vegetation: The APE falls within the Northern Blackland Prairie ecoregion. Historically, vegetation in this region consisted of bluestems, yellow Indiangrass, tall dropseed, and eastern gamagrass. Common tree species include bur oak, Shumard oak, sugar hackberry, elm ash, eastern cottonwood, and pecan trees in bottom lands and along streams (Griffith *et al.* 2007).

Estimated Ground Surface Visibility: Visibility varied between 20 and 90 percent throughout the APE. Some areas were cleared, while others consisted of exposed bedrock sandstone, short grasses, or tall grasses with overgrowth and scrub brush.

Previous Investigations and Known Archeological Sites: Background research for this project consisted of an online records search through the Texas Historical Commission's (THC) Archeological Sites Atlas (Atlas 2020) and a review of historical maps and aerial photographs. Research focused on the identification of archeological sites: sites listed as State Antiquities Landmarks (SALs), Recorded Texas Historic Landmarks (RTHLs); sites listed on the National Register of Historic Places (NRHP), Historical Markers, cemeteries; and previously conducted archeological surveys within 0.62 mile (one kilometer) of the APE (**Figure 7; Atlas 2020**). The search identified three previous surveys and one archeological site within a kilometer of the APE.

Of the three previous surveys within a kilometer of the project area, one overlaps with the current APE (**Table 2**). The overlapping survey was conducted by AR Consultants, Inc. on behalf of the Trinity River Authority in 2011. The two additional surveys were conducted by the Texas Department of Highways and Public Transportation in 1976 and the Texas Water Development Board in 1988.

The one previously recorded archeological site within a kilometer of the APE is 41EL26 (**Table 3**). This is a prehistoric surface campsite recorded by Thos. B. Gwin in 1940. Gwin recorded this site as approximately 50 x 40 yards in dimension and heavily eroded. Surface material within the site included scrapers, arrowheads, manos, and limestone fist axes and hoes. No eligibility recommendations for NRHP or a SAL have been made for this site.

Table 2: Previous Archeological Surveys within 1 Kilometer of the APE

Year	TAC Permit	Investigator	Sponsor	Overlap APE
1976	-	Texas Department of Highways and Public Transportation (TDHPT)	-	No
1988	-	Texas Water Development Board (TWDB)	-	No
2011	5994	AR Consultants, Inc.	Trinity River Authority	Yes

Table 3: Archeological Sites within 1 Kilometer of the APE (Atlas 2020).

Site No.	Site type	Record date	Recorder	Eligibility Status
41EL26	Prehistoric surface campsite	1940	Thos. B. Gwin	Undetermined

- **Evaluation of Project Setting:**

Portions of the 1368.44-acre survey area are located within rural and suburban developments, pastured yards, agricultural or cultivated fields, or undeveloped fields utilized as cow or horse

pasture. The existing ROW is entirely disturbed with terraformed roads, utility lines, drainage ditches, and driveways. Overall the project area consists primarily of disturbed areas due to construction, residential or commercial lots, and cultivated fields with shallow or exposed bedrock, or sloping terrain observed throughout the APE. Furthermore, areas adjacent to residential or commercial areas exhibit extremely disturbed soils due to various construction related activities.

Survey Methods

- **Surveyors:** Brittany McClain (Project Archeologist), Garrett Wheaton (Crew Chief), Noel Steinle, Emory Worrell, Danielle Blut, Sydnee Pagan, Natalie Nish, and Alexis Goodwill
- **Description of Methods:** Survey efforts involved 100 pedestrian survey and subsurface investigations (shovel testing) as necessary based on field conditions to determine the nature, extent, and if possible, significance of any archeological resources discovered within the APE. A total of 588 shovel tests (**Table 4; Appendix A**) and five backhoe trenches (**Table 4; Appendix B**) were excavated within the project area. Shovel tests were distributed in transects depending on the width of the ROW or parcel. Where ROE access was not granted, visual inspection from the current ROW into areas of no ROE was conducted by a pedestrian survey. The average shovel test was terminated between 15-45 centimeters below surface (cmbs) and was excavated to bedrock or compacted soils, whichever was encountered first. All shovel tests were mapped using a hand-held GPS unit and logged on standardized forms that recorded profile characteristics, depth, and contents. Investigators took photographs of the landscape and various disturbances. Shovel test spacing followed the Council of Texas Archaeologists (CTA) minimum standards for linear surveys with one shovel test every 100 meters, except where roadways, drainage and culvert improvements, utilities, flooded areas, or high ground visibility precluded the need for shovel testing.

Backhoe trenches were placed near Red Oak Creek drainages or tributaries where there was the potential for deep archeological deposits. Backhoe trenches were excavated to lengths between four and six meters, widths of roughly one meter, and depths between 0.25 meters to 1.25 meters. For each trench, a wall profile of roughly 1.5 meters in width was cleaned with a shovel and/or trowel for documentation and photography. In total, two new historic sites, 41DL556 and 41DL557, were identified and recorded within the APE. Only two shovel tests were positive for cultural material, all contained within site 41DL556.

A total of 41.21 acres are being evaluated under separate projects. This acreage is located at the west and east termini of the Loop 9 Segment A archeological survey; however, this acreage was surveyed as part of two other TxDOT projects (CSJs: 0264-10-005 and 0261-01-041), the results of which are included in their respective Archeological Interim Reports. On the east end of the project area, 16.14 acres was surveyed as part of the Loop 9, Segment B Re-Evaluation Project Area West of IH 35E survey (CSJ 0264-10-005). On the west end of the project area, 25.07 acres were surveyed as part of the Proposed US 67 Interchange at Lake Ridge Parkway

(CSJ 0261-01-041). Neither of these two projects yielded cultural material or newly discovered archeological sites.

Table 4. Subsurface Probe Summary.

Method	Quantity in Existing ROW	Quantity in Proposed New ROW	Quantity in Proposed New Easements	Total Number per Acre
Shovel Test Pits	0	588	n/a	0.94
Power Auger Probes	-	-	-	n/a
Mechanical Trenches/Scrapes	-	5	-	111.1

- **Other Methods:** *None*
- **Collection and Curation:** ☒ NO ☐ YES If yes, specify facility_____.
- **Comments on Methods:** The survey methods used exceed the Council of Texas Archeologist (CTA) standards, which call for one test every two acres for areal surveys, or one shovel test every 100 meters for linear projects. Of the 1368.44 acres, only 555.5 acres were granted for right of entry. Shovel test rates for this survey equal approximately 0.94 tests per acre. All shovel tests were placed in areas within parcels where ROE was granted. Where ROE was not granted, a pedestrian survey was conducted from the ROW to assess future intensive archeological survey potential. See **Figure 8a - 8d** for parcels where shovel tests were placed within accessed areas and the remaining parcels where ROE status was denied.

Survey Results

Survey Area Description: The survey area begins at the BNSF rail line east of US 67 and extends just west of IH 35E. The project area consists of suburban and rural developments, open cow and horse pastures, and cultivated fields. Vegetation throughout the APE is comprised of mixed hardwoods, scrub brush, tall and short grasses, secondary growth, and occasional greenbrier. Ground visibility varied throughout the APE and ranged from 0–20 percent within tall grasses (**Figure 9**), secondary growth, or heavily overgrown forested areas; to 90 percent visibility in areas with short grasses, exposed surface bedrock (**Figure 10**), or within agricultural fields (**Figure 11**). Portions of the APE on the west and east termini of the project area were heavily disturbed by residential (**Figure 12**), rural, or commercial developments (**Figure 13**). These areas contained disturbances consisting of terraforming, manmade drainage ditches, utility line installations (**Figure 14**), and road and driveway construction. Many of the parcels within the APE were missing ROE, and when accessible, parcels were visually inspected from the existing ROW.

- **Shovel Testing Results:** A total of 588 shovel tests were excavated within the survey area, two of which were positive for cultural material and located solely within 41DL556 (**Figures 8a - 8d**;

Appendix A). Either bedrock sandstone or clay was encountered in each shovel test and the reason for termination. Sandstone nodules and gravels were also a common find within the shovel tests. Few historic archeological materials were recovered sub-surface within 41DL556, and two new historic archeological sites were observed and recorded as part of this survey.

- **Pedestrian Survey Results:** Pedestrian survey was performed on all properties with ROE. Areas that were not granted ROE were visually inspected from the existing ROW, and recommendations were determined for each property (**Figure 8a - 8d, Appendix C**).
- **Backhoe Trench Results:** All mechanical trenching was performed along Little Creek or tributaries as it has low deep potential to moderate deep potential for buried archeological deposits. AmaTerra archeologists conducted a total of five backhoe trenches within the APE (**Figure 8a - 8d; Appendix B**). Two trenches were placed in Parcel 228 near an offshoot of Little Creek. One trench was placed in Parcel 45 near Little Creek. One trench was placed in Parcel 106 near an offshoot of Little Creek. The final trench was placed in Parcel 67 on the same offshoot of Little Creek. No archeological material was recovered in any of the backhoe trenches.

Backhoe Trench 03—BHT03 was placed approximately 41 meters west of an offshoot of Little Creek on the tree line of a terrace in Parcel 228. Vegetation consists of tree litter, scrub brush, and juniper trees. Soils in the trench included four stratified levels. Strat I consisted of a 10YR 5/3 silt with caliche gravels. Strat II consisted of a 10YR 3/4 sterile clay with large roots. Strat III consisted of a 10YR 4/2 clay with degraded limestone and small roots. Strat IV consisted of a 10YR 6/3 basal clay with heavy inclusions of limestone. The trench reached a maximum depth of 125 cmbs and no archeological material was observed (**Figure 8d and 15**).

Backhoe Trench 04—BHT04 was placed approximately 5 meters west of an offshoot of Little Creek on the tree line of a terrace in Parcel 228. The vegetation consists of tall and short grasses, tree litter, scrub and juniper. Soils in the trench included two stratified levels. Strat I consisted of a 10YR 3/2 sticky clay full of roots and rootlets. Strat II consisted of a 10YR 6/3 basal clay with heavy limestone inclusions. The trench reached a maximum depth of 100 cmbs and no archeological material was observed (**Figure 8d and 16**).

Backhoe Trench 05—BHT05 was placed approximately 46 meters north of Little Creek in the tree line of a toe slope in Parcel 45. Vegetation consists of tree litter, scrub brush, and juniper trees. Soils in the trench included three stratified levels. Strat I consisted of a 10YR 5/3 mottled silt with rootlets and modern flood debris. Strat II consisted of a 10YR 4/2 clay with degraded bedrock. Strat III consisted of bedrock. The trench reached a maximum depth of 70 cmbs, and no archaeological material was observed (**Figure 8c and 17**).

Backhoe Trench 06—BHT06 was placed approximately 31 meters south of an offshoot of Little Creek on an open terrace in Parcel 106. Vegetation consists of tall and short grasses. Soils in the trench included two stratified levels. Strat I consisted of a 10YR 4/2 clay loam with degraded bedrock. Strat II consisted of bedrock. The trench reached a maximum depth of 40 cmbs and no archeological material was observed (**Figure 8b and 18**).

Backhoe Trench 07—BHT07 was placed approximately 52 meters north of an offshoot of Little Creek on the tree line of a terrace in Parcel 67. Vegetation consists of tall grasses, tree litter, cedar and juniper trees. Soils in the trench included three stratified levels. Strat I consisted of a 10YR 3/2 clay with cedar roots. Strat II consisted of a 10YR 4/3 clay. Strat III consisted of a 10YR 5/2 basal clay with degraded bedrock. The trench reached a maximum depth of 115 cmbs and no archeological material was observed (**Figure 8b** and **19**).

Site 41DL556

Site 41DL556 is an early to mid-twentieth century historic farmstead consisting of a cistern and associated surficial historic scatter located on top of a man-made stepped terrace within an open field utilized as cow pasture (**Figure 20**). This site is located within Parcel 14 and is owned by Decker Ranches Ltd. Vegetation within the site consists of short grasses with scattered ash juniper and cedar trees on the edge of the terrace. The site encompasses 0.65 acres and was delineated through shovel testing, the landform, and is bordered by a caliche top road to the south. According to the USDA-NRCS Web Soil Survey (2020), soils within the site area consist of Eddy clay loam (1 to 3 percent slopes, 3 to 8 percent slopes). Soils recorded within shovel tests included very dark greyish brown (10 YR 3/2) clay loam up to 8 cmbs overlaying very shallow bedrock.

Surface inspection and a total of nine shovel tests were excavated within the site boundaries, two of which were positive for cultural material. Sub-surface cultural material consisted of solarized glass vessel shard (n=1), clear glass shards (n=11), a whiteware sherd (n=1), and one green glass shard (n=1). All sub-surface artifacts were recovered between zero and five cmbs. The cistern consists of a brick lined interior, covered with sheet metal on the outside, and a metal lid on top (**Figure 21**). Artifacts identified within the surface scatter include clear glass vessel shards (n=7), an aqua glass vessel shard (n=1), an amethyst glass vessel shard (n=1) (**Figure 22**), a green glass vessel shard (n=1), solarized glass vessel shards (n=3), a clear bottle base, white milk glass shards (n=2), a green milk glass shard (n=1), a metal buckle, various brick fragments (one reading “kook”) (**Figure 23**), ceramic sherds (n=12) (**Figure 24**), and unidentified ferrous metal fragments (**Figure 25**). The bottle base was manufactured by Owens Illinois from 1929 to 1960 (SHC 2020). The brick was manufactured by the Kookan Press Brick Company in Ferris, Ellis County, Texas between the years of 1919 to 1923 (McKnight 2016). Based on this, artifacts recovered from the site are indicative of an early to mid-twentieth century farmstead or use period.

A review of historic aerials and topographic maps indicate a structure was once situated within the site boundaries of 41DL556. The 1953 USGS Aerial imagery and the 1960 topographic map depict this structure (**Figure 26** and **27**, respectively). The 1960 topographic map exhibits a stepped terrace similar to the landscaped observed at the time of survey. Based on the maps, the historic artifacts may be associated with the structure identified. As such, this historic site likely dates to the mid-twentieth century.

The deed research component of this site assessment will be completed upon conclusion of the field survey for the Loop 9, Segment A project. Additional field work is planned to commence once the remaining properties lacking ROE within the APE are granted entry. It is known that the parcels for which ROE has not been currently granted have high potential to contain additional historic

resources. As such, all historic deed research will be conducted at the same time upon the completion of field work.

Due to the lack of intact archeological deposits or structures associated with notable persons, place, or event, site 41DL556 is recommended as not eligible for listing in the National Register of Historic Places (NRHP) or as a State Antiquities Landmark (SAL) within the new ROW. As such, no further work is recommended prior to construction.

- **Archeological Materials Identified:** solarized glass vessel shard, clear glass shards, whiteware sherd, green glass shard, clear glass vessel shards, aqua glass vessel shard, amethyst glass vessel shard, green glass vessel shard, clear bottle base, white milk glass shards, green milk glass shard, a metal buckle, various brick fragments, ceramic sherds, and unidentified ferrous metal fragments

Site 41DL557

41DL557 is a homestead site dating to the mid-twentieth century and is defined by a house and an outbuilding both fallen into disrepair (**Figure 28**). The site is located within Parcel 88 and is owned by Christopher and Alicia Strahan. The site encompasses 0.27 acres and was delineated by the artifact and refuse scatter and structures present. The site is situated on a gently rolling slope with an elevation of 740' to 750'. The site, once clear cut, has been overtaken by vegetation such as tall grasses, vines, scrub brush, and cedar junipers. According to the USDA-NRCS Web Soil Survey (2020), soils within the site area consist of Eddy clay loam (3 to 8 percent slopes) and Stephen silty clay (1 to 4 percent slopes). Soils recorded within shovel tests included dark brown (10 YR 3/3) clay loam with gravels extending to 15 cmbs overlaying very shallow bedrock.

The main structure of the house measures 35 feet by 16 feet, with the addition measuring 24 feet by 13 feet (**Figure 29**). The roof has collapsed in the northwestern portion of the house subsequently destroying portions of the outer wall. Scattered debris was noted surrounding the house consisting of lumber, wire nails, shingles, and other miscellaneous construction debris (**Figure 30**). The house is covered in horizontal siding and one addition to the house has been added, and at least one renovation. The house is surrounded by a chain link fence with heavy overgrowth and vegetation consisting of vines, various hardwood trees, and scrub brush. The main house has two chimneys, with the original chimney and fireplace covered up from renovations to the house. The second chimney connects to a fireplace with a gas starter, likely added during the same renovation. The addition to the house includes a kitchen and an eating area, with appliances still located within the home dating approximately to the 1970's or 1980's. Various house goods and clothing were left within the house, and a newspaper dating to 1978 (**Figure 31**). Other miscellaneous artifacts were noted outside of the house including a deteriorating cowboy boot and broken Corning ware.

The outbuilding is located to the west of the house (**Figure 32**). The roof is constructed of sheet metal, with walls of vertical wood paneling. Tires, motor oil containers, wood, boxes of tile, wires, paint cans, and an old desk or hutch furniture were located within the outbuilding.

One shovel test (NN93) was excavated within the site boundaries along with a surface inspection of the site. No cultural material was recovered within the shovel test. Very shallow bedrock around the site was observed indicating heavy erosion.

Deed Research for this site indicates Norma W. Winborn purchased the property in the early 1900's, and the deed was transferred to a person of the same name in 1993 (Dallas Central Appraisal District 2020). The house was built during the early twentieth century and likely abandoned soon after the deed transfer in 1993. The property was sold in 2006 and once again in 2012, to separate unidentified buyers.

A review of historic aerials and topographic maps indicate the house and outbuilding structure are located within the site boundary. As indicated on the historic maps, there is one structure located outside of the site boundary that was not located at the time of survey. The 1953 and 1968 USGS Aerial imagery indicate both structures located within the site boundary are present (**Figure 33** and **34**, respectively). The 1968 aerial exhibits a cleared field with scattered trees surrounding the site, and a road that runs west to east directly to the homestead. Based on the maps and the historic artifacts scattered along the surface and present within the house, this site likely dates to the mid-twentieth century and was once associated with the Winborn family.

Due to the lack of intact archeological deposits or structures associated with notable persons, place, or event, site 41DL557 is recommended as not eligible for listing in the National Register of Historic Places (NRHP) or as a State Antiquities Landmark (SAL) within the APE. As such, no further work is recommended prior to construction.

- **Buffer Zone Description:** N/A
- **Archeological Materials Identified:** lumber, wire nails, shingles, and other miscellaneous construction debris, deteriorating cowboy boot, and broken Corning ware

APE Integrity: The APE has been heavily disturbed in most areas due to rural and suburban development. The built environment consists of housing developments or commercial areas with infrastructure to support these developments including roads and the installation of utility lines and drainages heavily impacting the landscape within the APE. Additionally, the land has been affected by agricultural practices, primarily repeated plowing and cultivation in rural areas. Exposed or shallow bedrock was also noted throughout the APE. As such, the surveyed areas have minimal potential to contain buried cultural material, or any cultural material. Exposed bedrock within the surveyed areas and residential and commercial construction further supports that this setting is disturbed and eroding with little potential to contain buried cultural deposits. Overall, the intact integrity of the APE is low or very minimal.

Recommendations

- **Results Valid Within (check all that apply to define the buffer zone):**

No Survey Area (NSA)

☐ 50 feet of NSA

☐ ___0 feet of NSA

Survey Area

☐ 50 feet of survey area

☐ 25 feet of survey area

Either

☒ Variable, see map and see below.

The Definition and Evaluation of this Horizontal Buffer Zone Is Based on One or More of the Following Considerations (check all that apply):

☒ The integrity of the areas within and adjacent to the setting is affected by prior clear cutting and agricultural activities.

☒ The survey shows that archeological materials are unlikely to exist in this area.

☐ Other (specify): _____

Archeological Site Evaluations:

- **Comments on Evaluations:** Within the APE there is no further research potential for sites 41DL556 or 41DL557, and both sites are recommended as not eligible for NRHP listing or SAL designation.

Further Work: No further work is recommended for the properties surveyed within the APE with granted ROE. Properties without ROE were inspected from the existing ROW and determinations were made based on these observations, see **Appendix C**. Presently, there are 159 parcels lacking ROE, of those properties only 80 parcels are recommended for further survey (see **Figures 35a–35j**). Additionally, three of the 80 parcels are also recommended for mechanical trenching including: parcels 36, 68, and 85.

Parcel 36 contains a large terrace overlooking Red Oak Creek; this property is recommended for shovel testing and trenching. Parcel 68 also contains a large terrace overlooking Little Creek; this property is recommended for shovel testing and trenching. Little Creek and an offshoot run together within parcel 85; it is recommended for shovel testing and trenching. The remaining 77 properties are recommended for intensive pedestrian survey due to their undisturbed nature, and/or the possibility of historic resources within the area.

The remaining properties within the APE without current ROE that do not require further survey were visually inspected from the current ROW for historical features or archeological potential. Additionally, recommendations of no survey for these properties were based on observations of heavy disturbances as seen from the ROW and include: residential or commercial development construction for roads, utility line installations, and terraforming for the installation of ditches; heavy disturbances from repeated agricultural practices disrupting the potential for intact archeological deposits; and lastly, disturbed soils and surface exposures of bedrock (**Figures 36**).

Justification: All work for this survey was conducted in compliance with Section 106 of the National Historic Preservation Act under the guidelines presented in 36 CFR 800, and in compliance with the Antiquities Code of Texas, whose guidelines are outlined under 12 TAC 26.

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Figures and Photographs

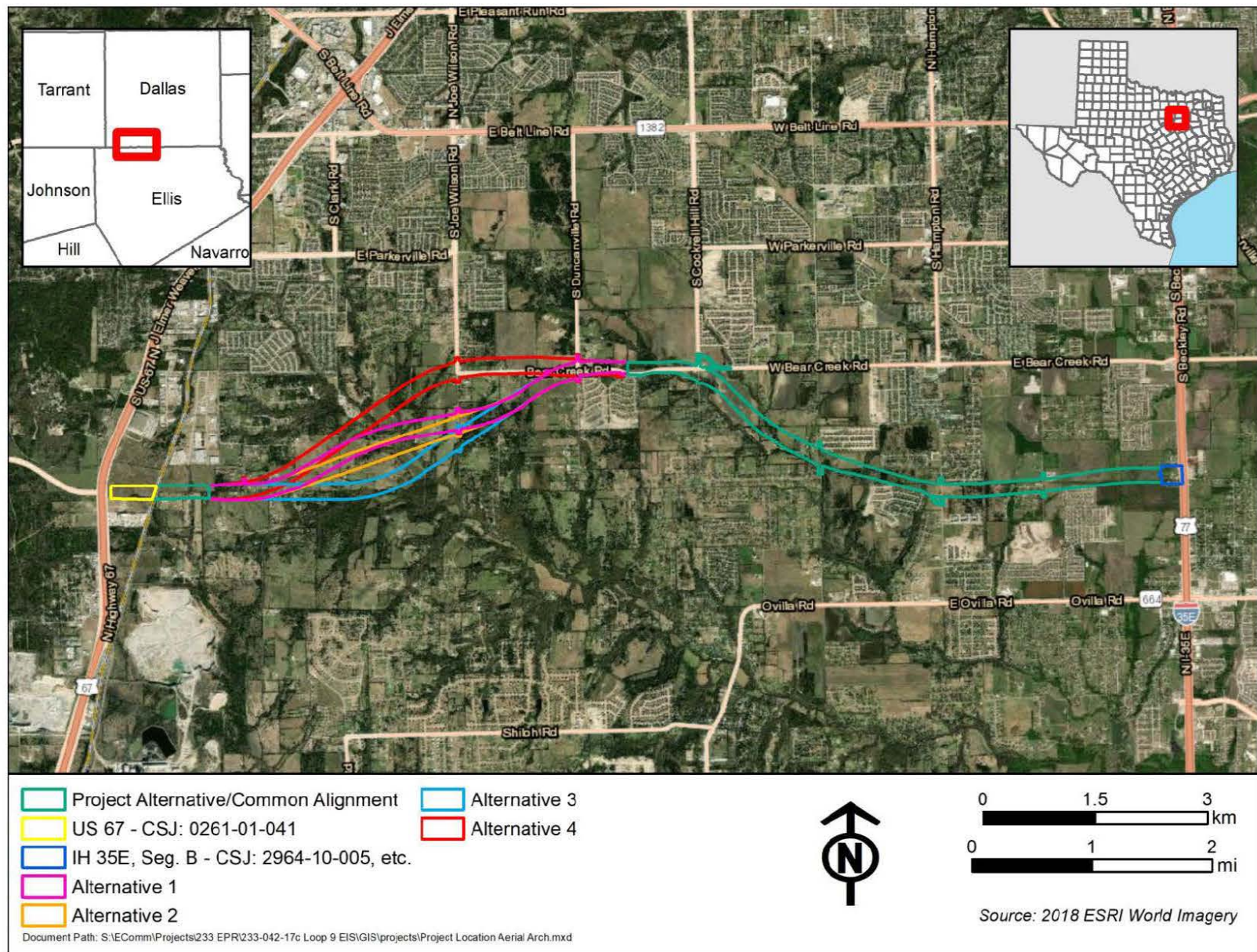


Figure 1. Loop 9 Segment A Project Location on an aerial map.

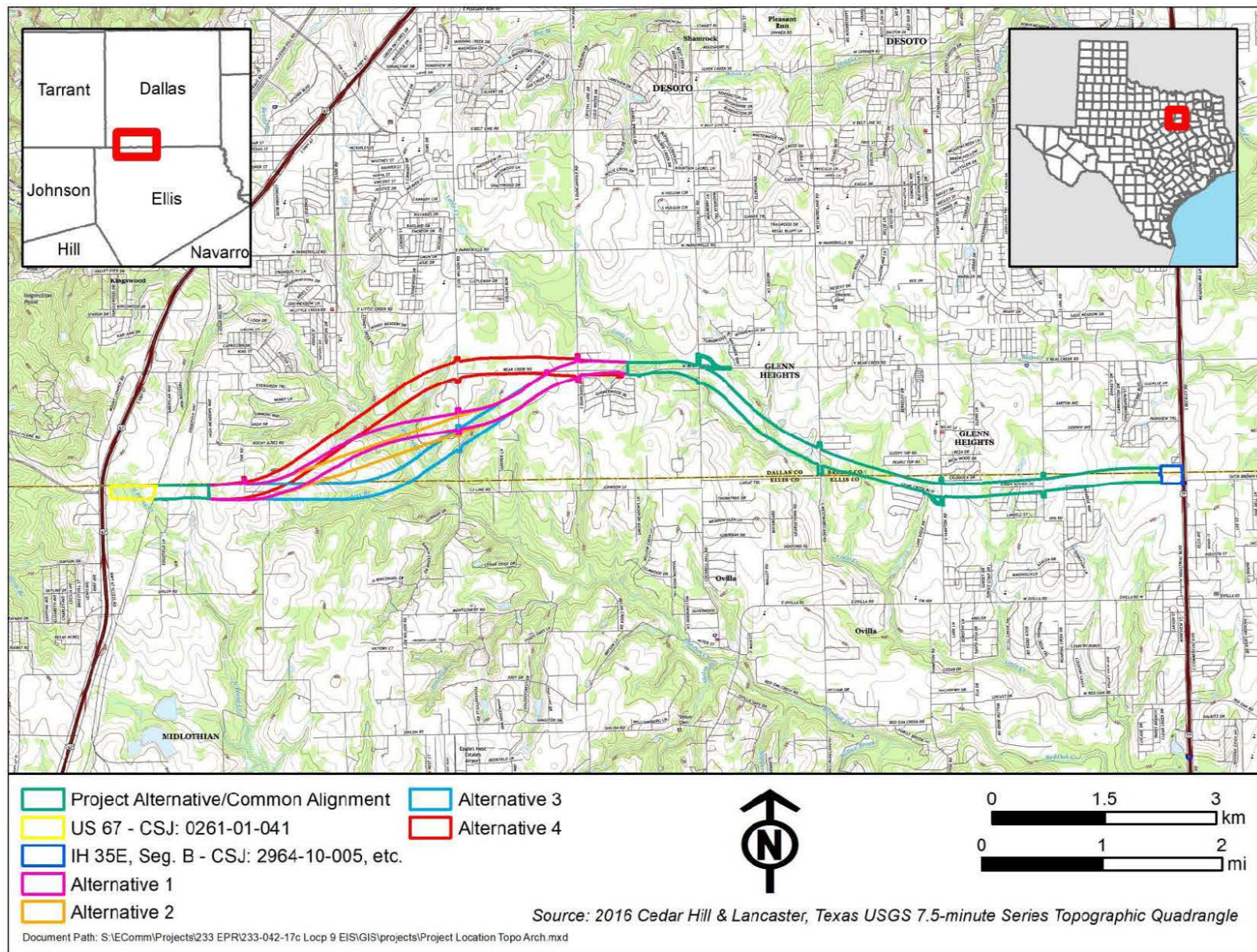


Figure 2. Loop 9 Segment A Project Location on a USGS 7.5-minute quad, Cedar Hill and Lancaster, Texas.

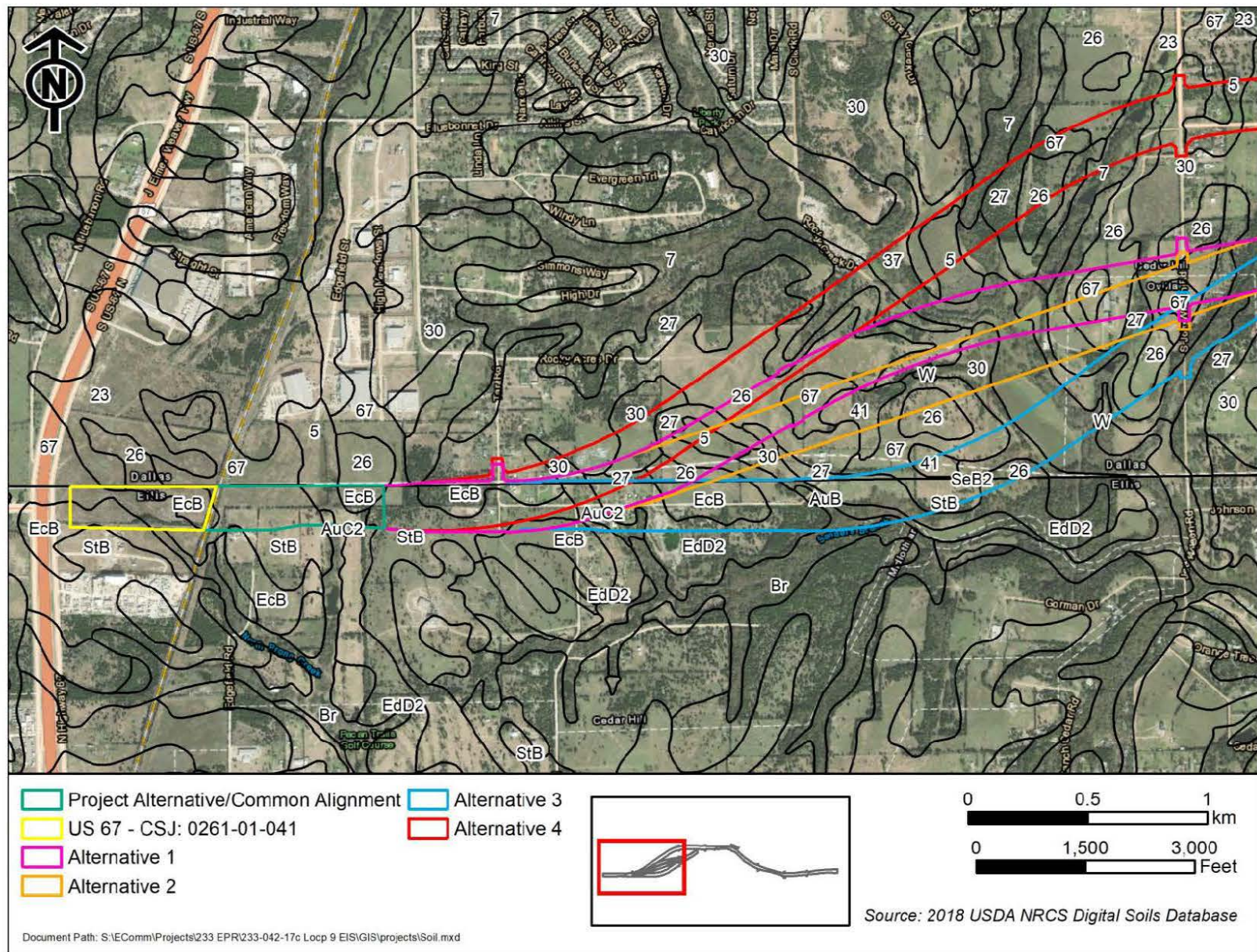


Figure 3a. Mapped soils within the Loop 9 Segment A survey area

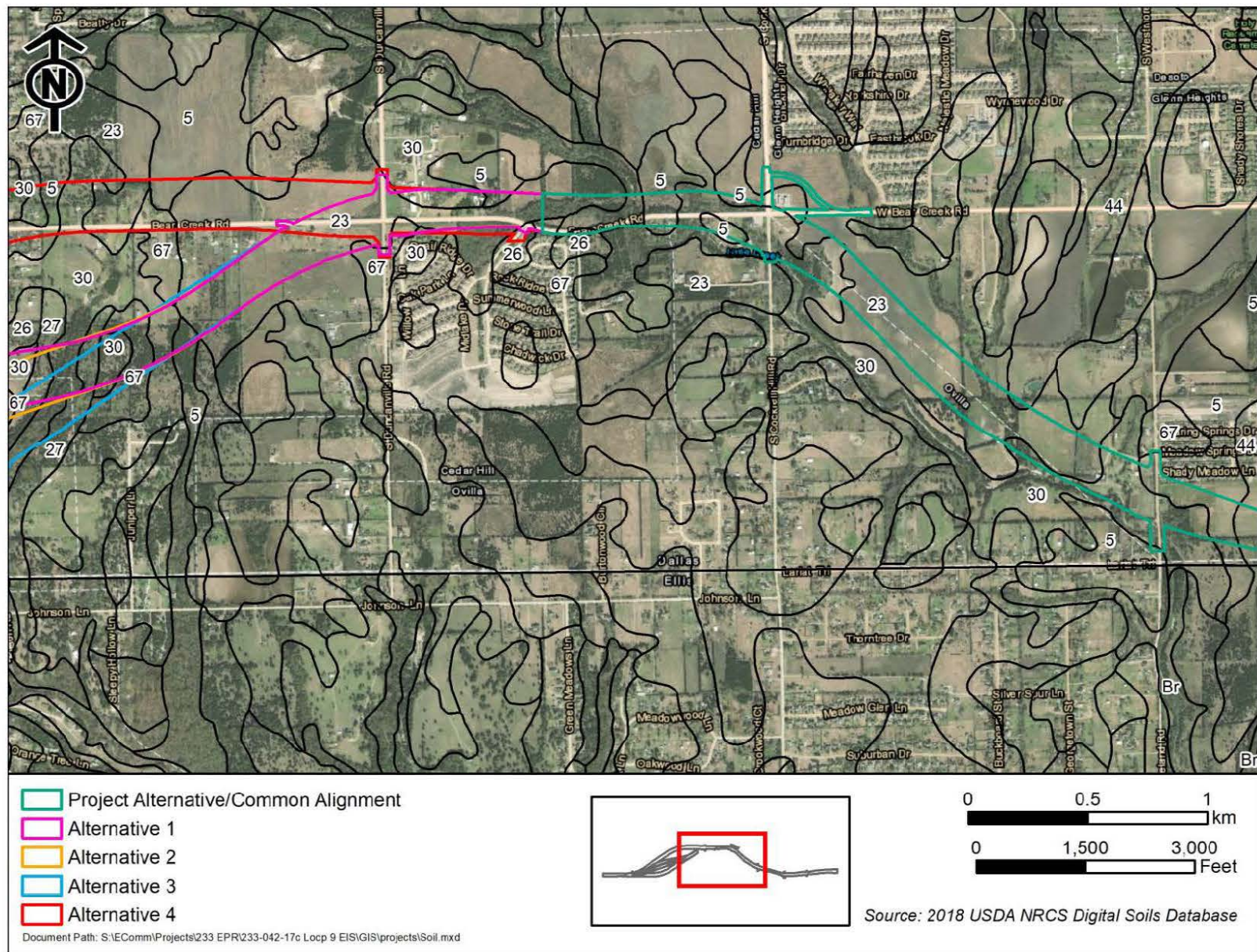


Figure 3b. Mapped soils within the Loop 9 Segment A survey area.

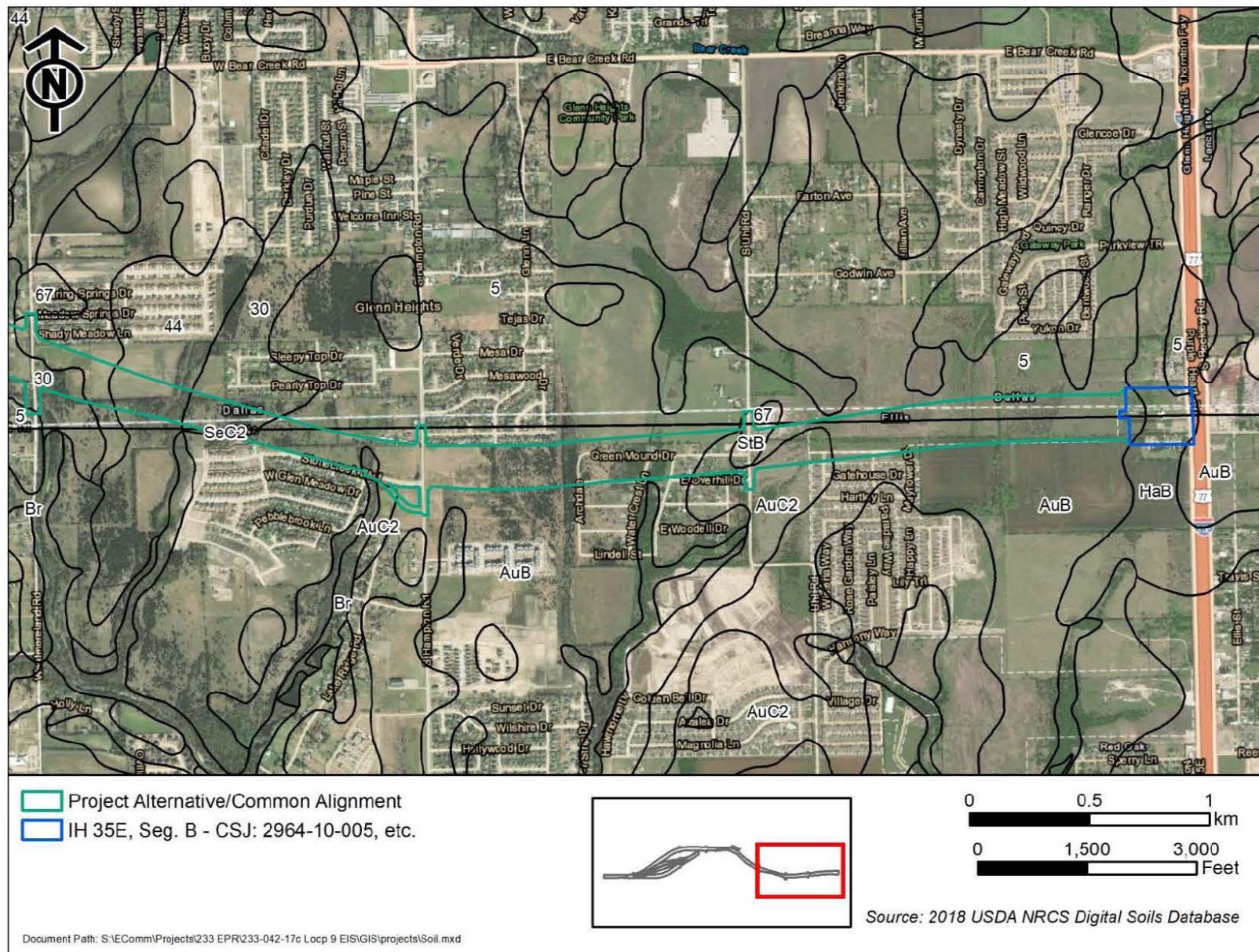


Figure 3c. Mapped soils within the Loop 9 Segment A survey area.

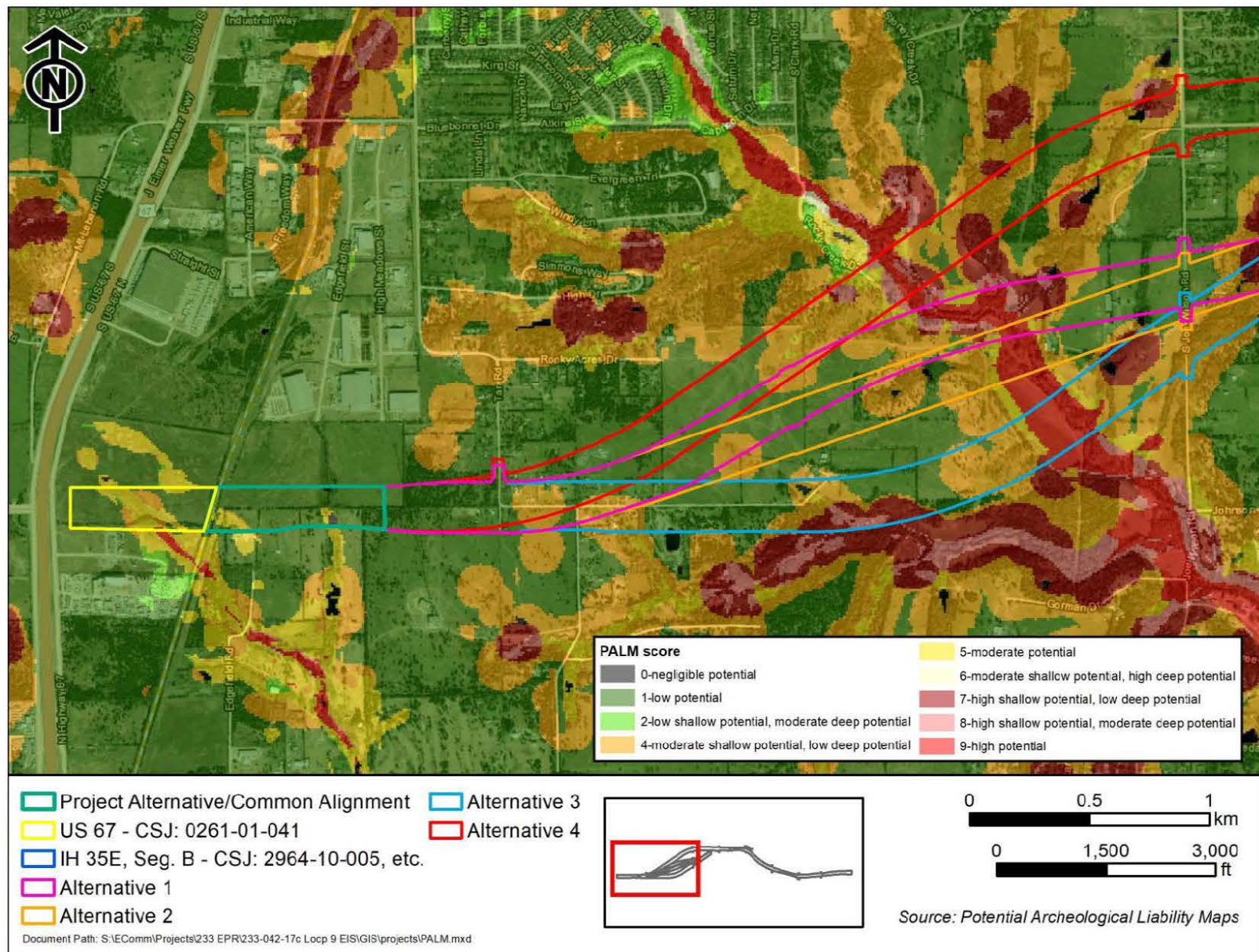


Figure 4a. Potential Archeological Liability Map (PALM) for Loop 9 Segment A survey area.

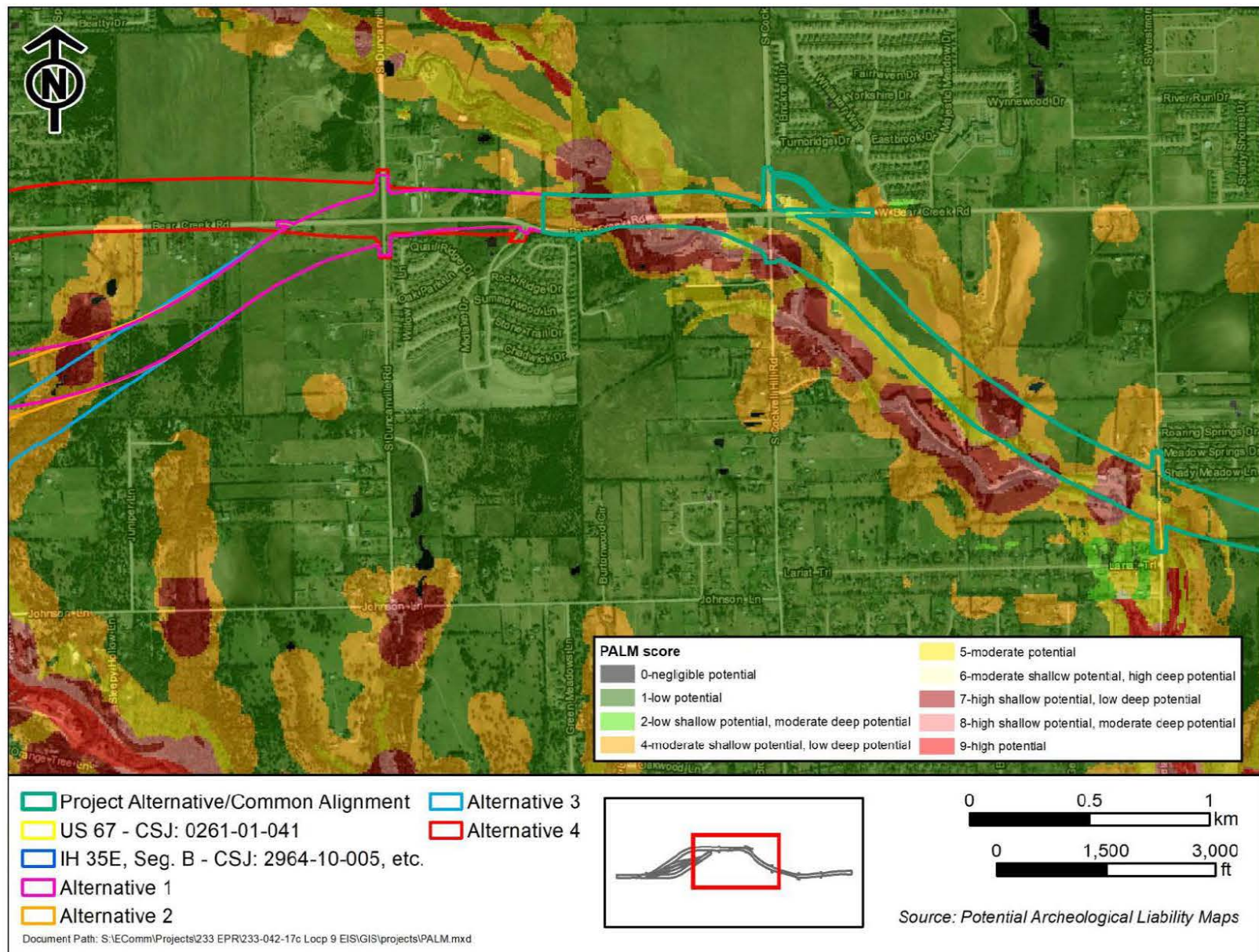


Figure 4b. Potential Archeological Liability Map (PALM) for Loop 9 Segment A survey area.

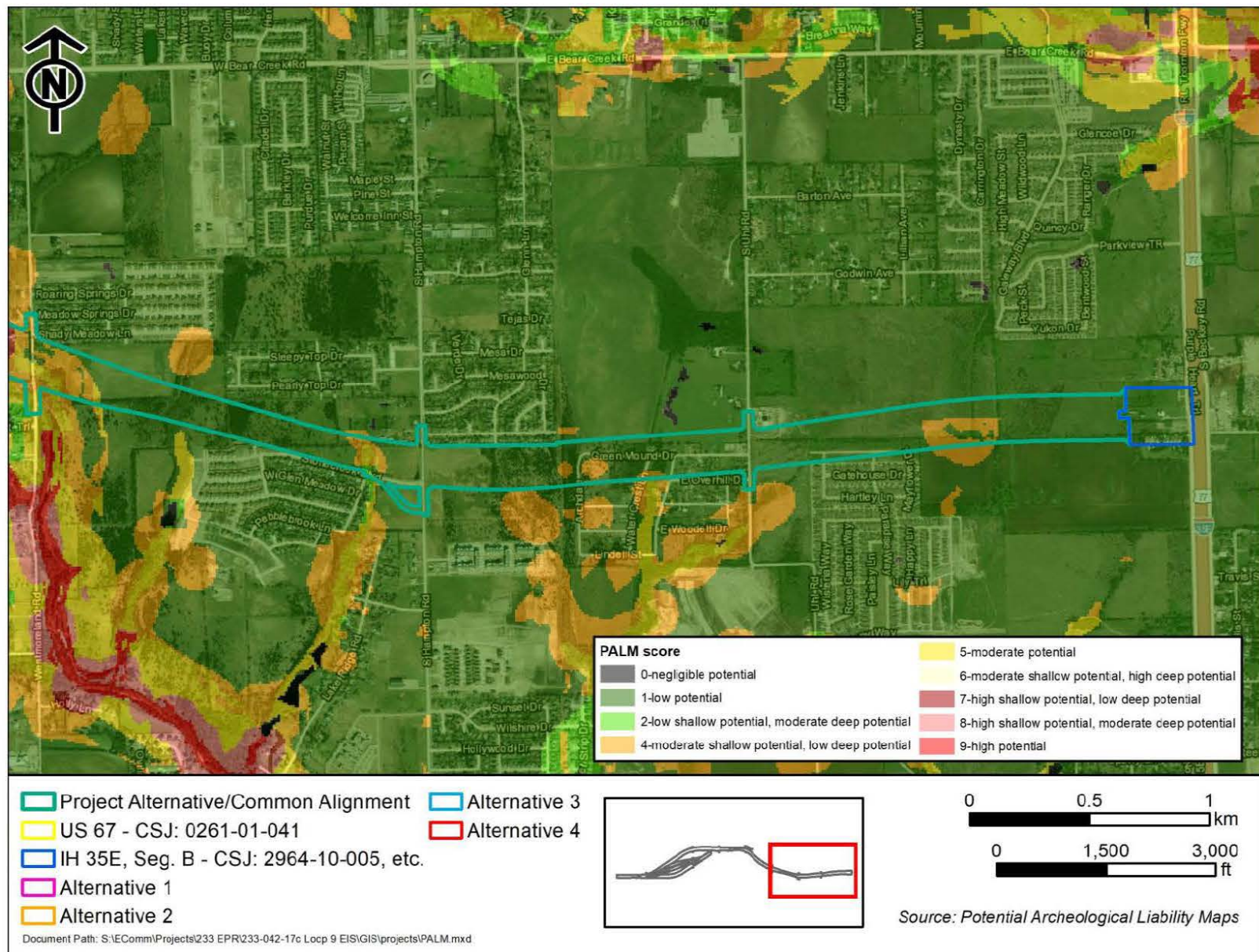


Figure 4c. Potential Archeological Liability Map (PALM) for Loop 9 Segment A survey area.

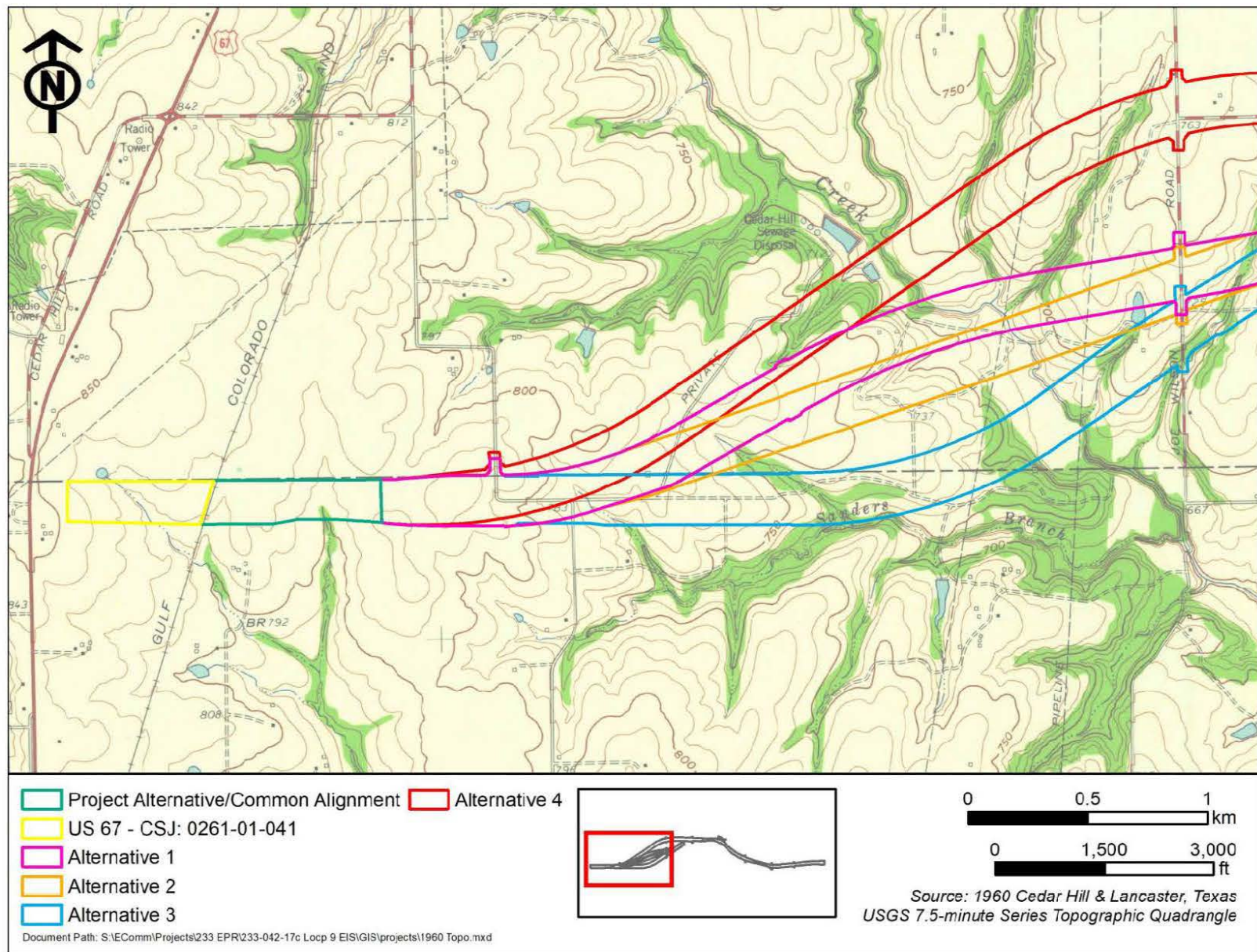


Figure 5a. 1960 historic topographic map of the Loop 9 Segment A survey area.

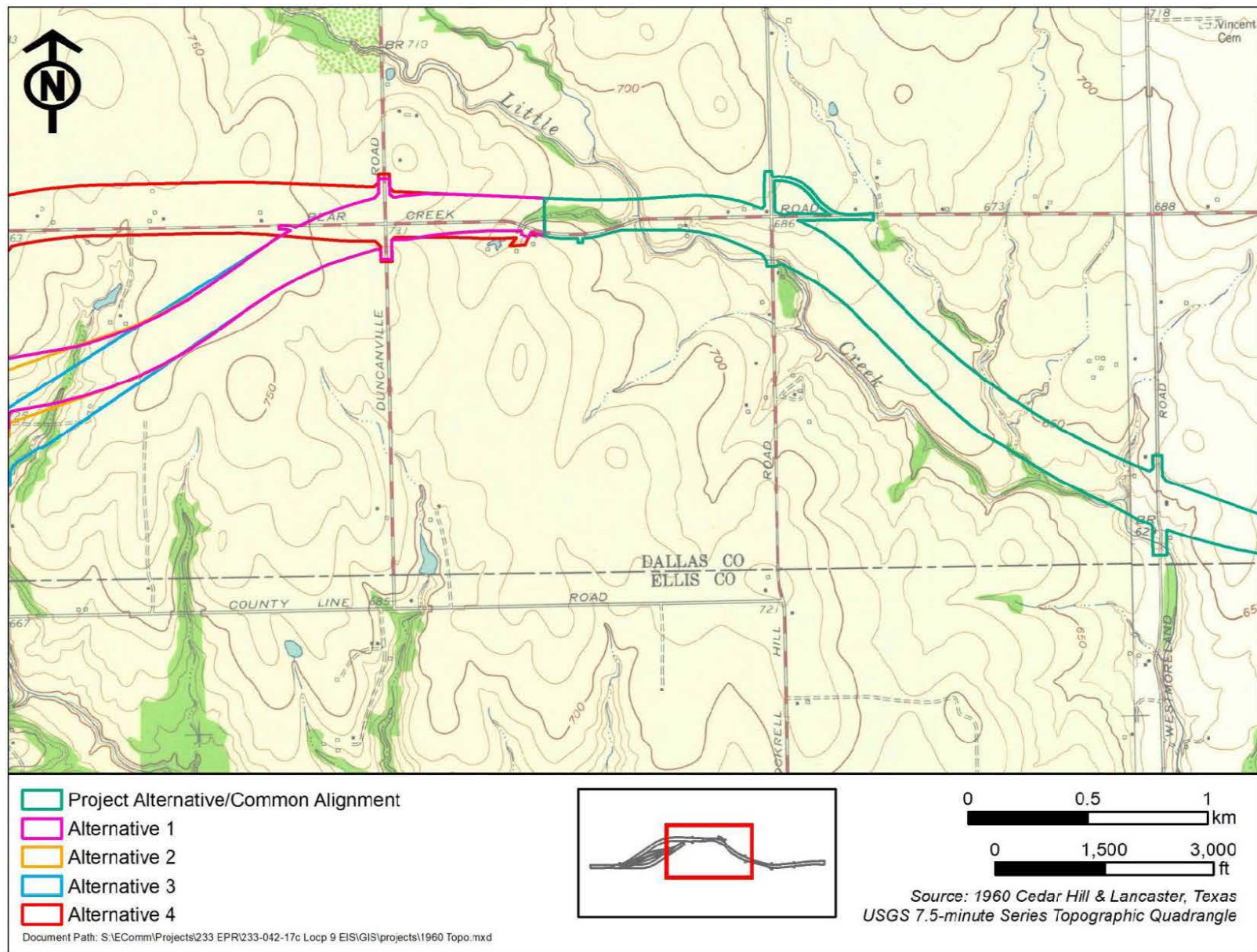


Figure 5b. 1960 historic topographic map of the Loop 9 Segment A survey area.

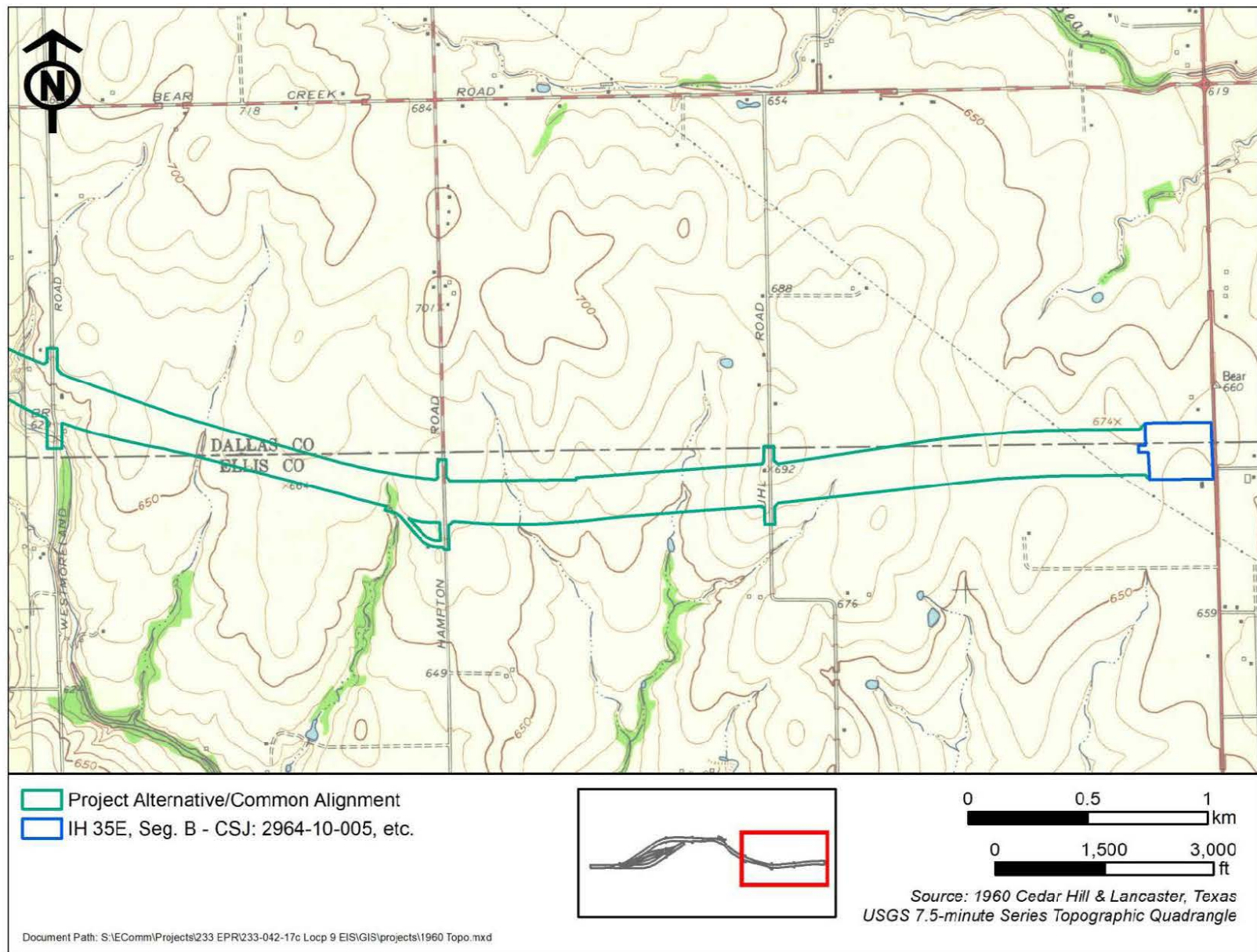


Figure 5c. 1960 historic topographic map of the Loop 9 Segment A survey area.

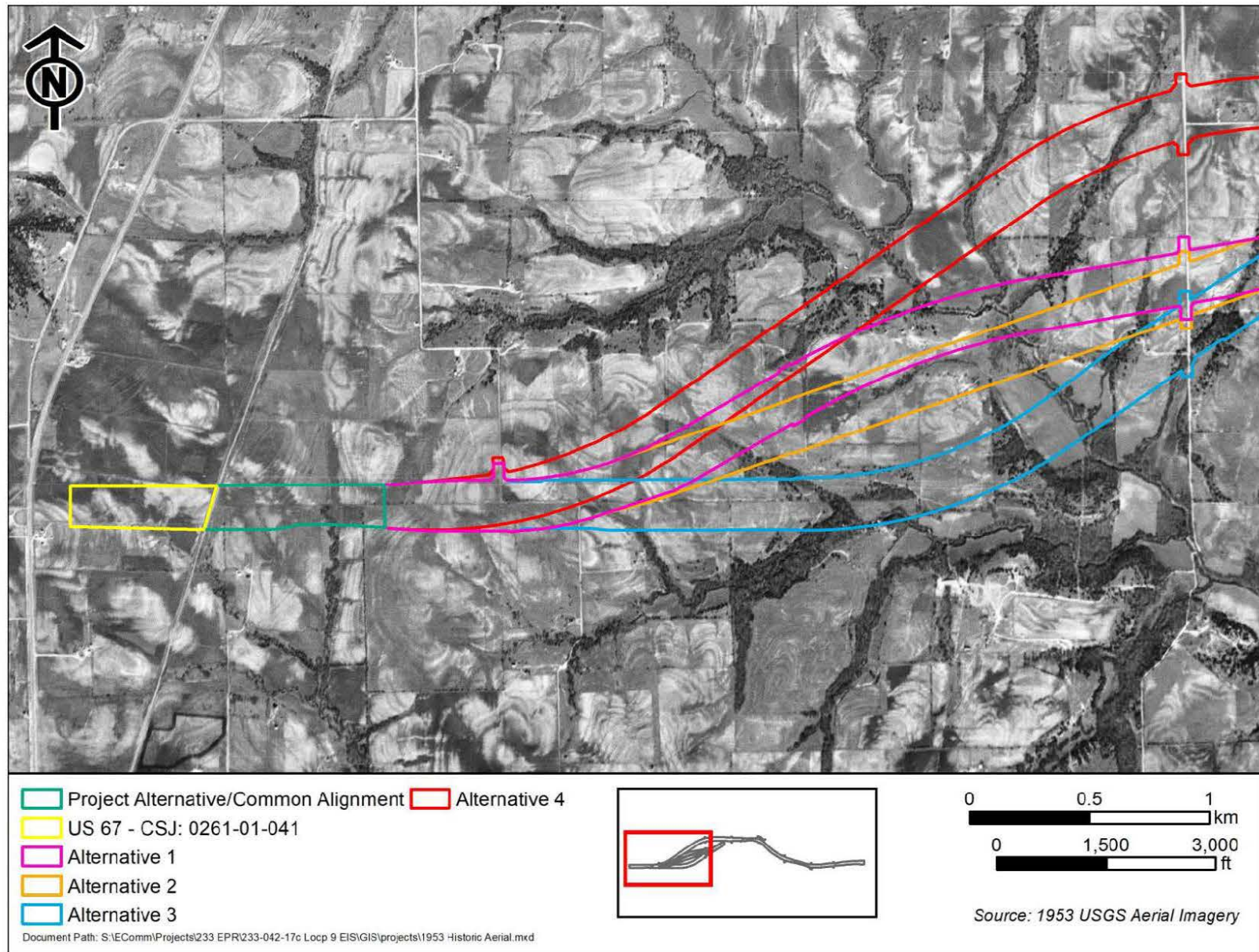


Figure 6a. 1953 historic aerial imagery of the Loop 9 Segment A survey area.

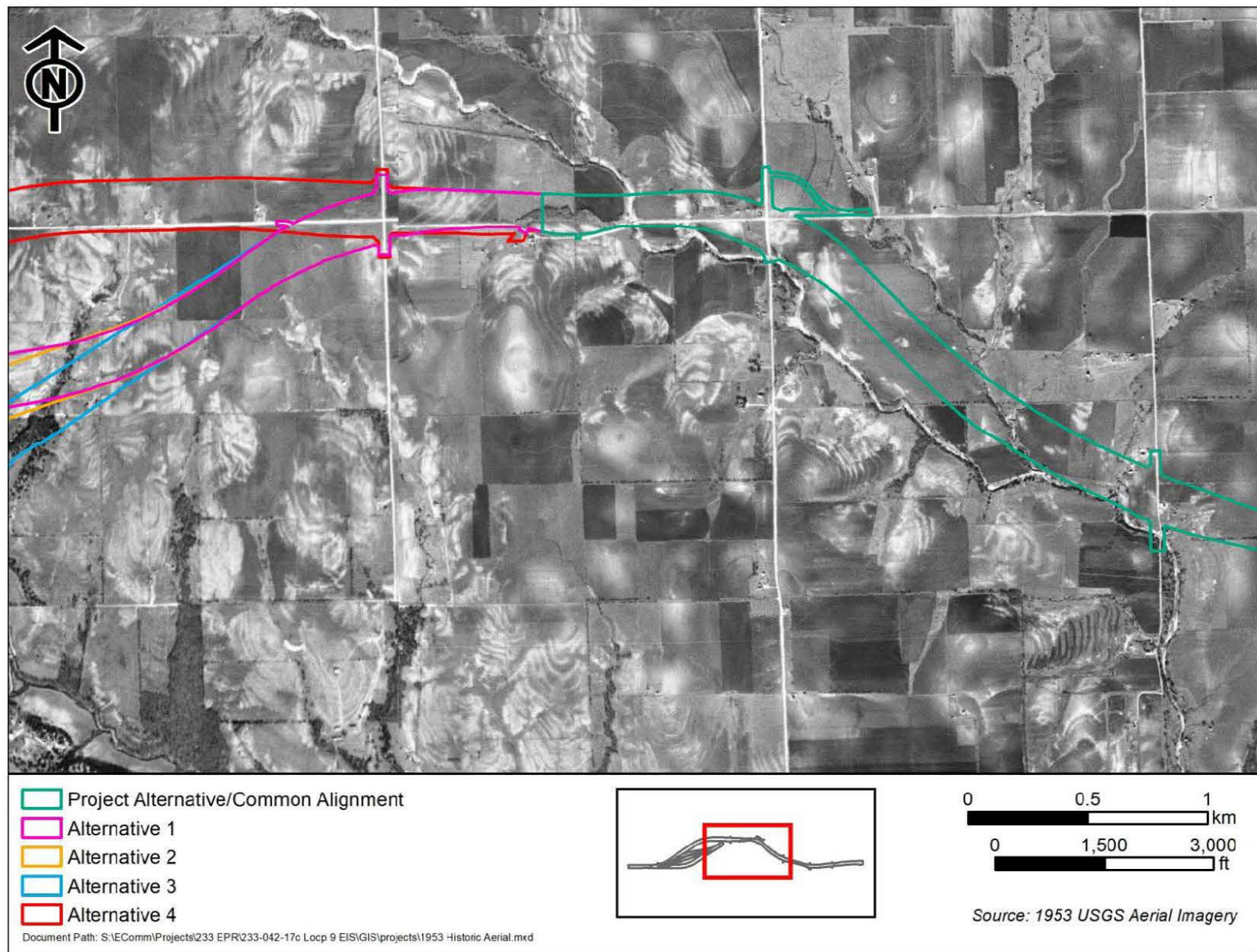


Figure 6b. 1953 historic aerial imagery of the Loop 9 Segment A survey area.

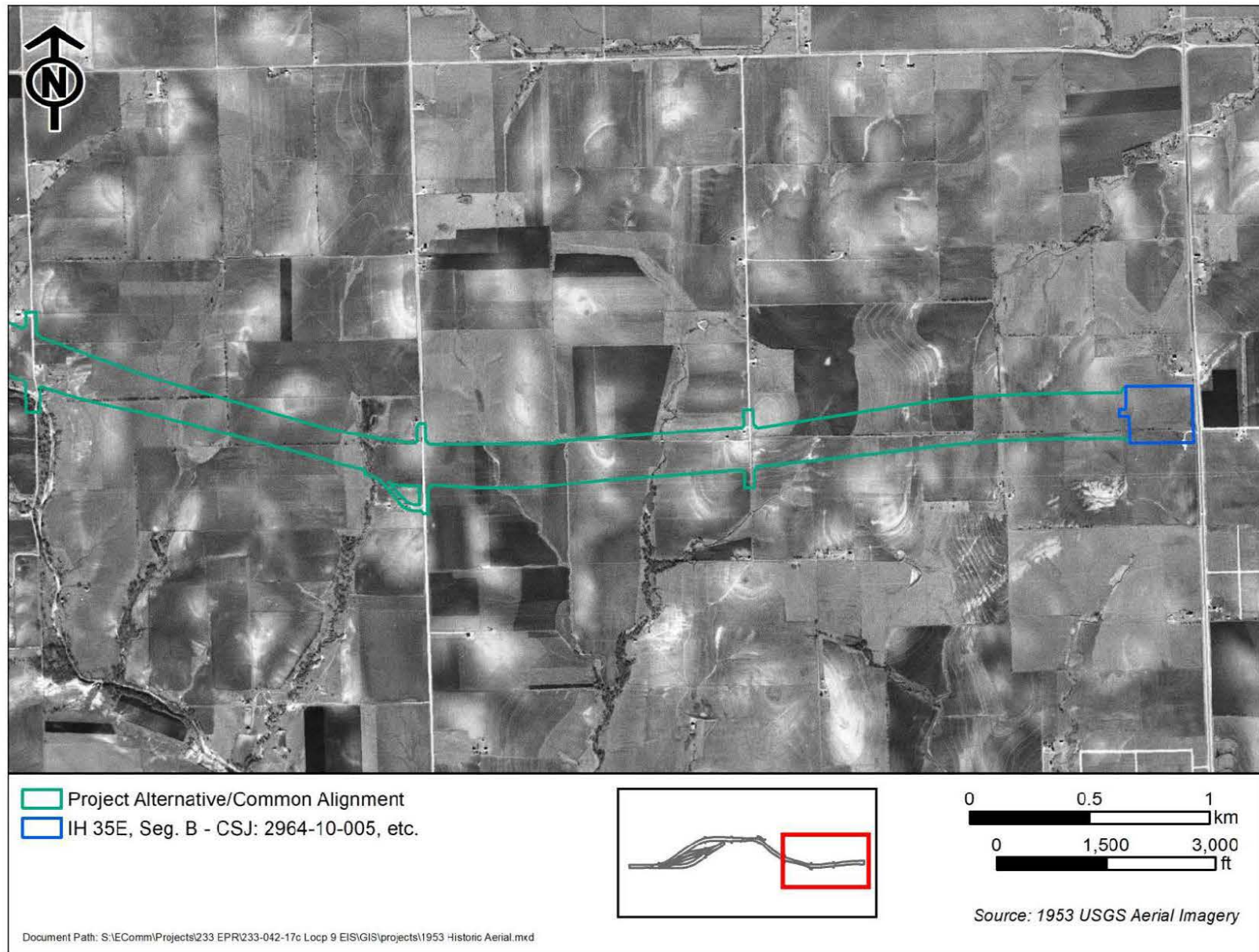


Figure 6c. 1953 historic aerial imagery of the Loop 9 Segment A survey area.



Figure 9. Tall grasses within the new ROW.



Figure 10. Short grasses and exposed surface bedrock within new ROW.



Figure 11. Plowed agricultural field within the new ROW.



Figure 12. Disturbed residential area at the east end of the project area.



Figure 13. Commercial area disturbances.



Figure 14. Disturbances including terraforming, drainage ditches, and utility lines identified throughout the APE.



Figure 15. Profile of BHT03, facing north.



Figure 16. Profile of BHT04, facing north.



Figure 17. Shallow bedrock identified within BHT05, facing north.



Figure 18. Profile of BHT06, facing west.



Figure 19. Profile of BHT07, facing east.



Figure 21. Cistern and artifacts identified within site 41DL556.



Figure 22. Historic glass identified on the surface of site 41DL556.



Figure 23. "Kook" brick fragment identified on the surface of 41DL556.



Figure 24. Ceramic sherds identified on the surface of 41DL556.



Figure 25. Ferrous metal fragments and buckle identified on the surface of 41DL556.



Figure 29. House structure located within site 41DL557.



Figure 30. Debris associated with the house structure within site 41DL557.



Figure 31. 1978 newspaper identified within the abandoned house structure.



Figure 32. Outbuilding located northwest of the house within site 41DL557.

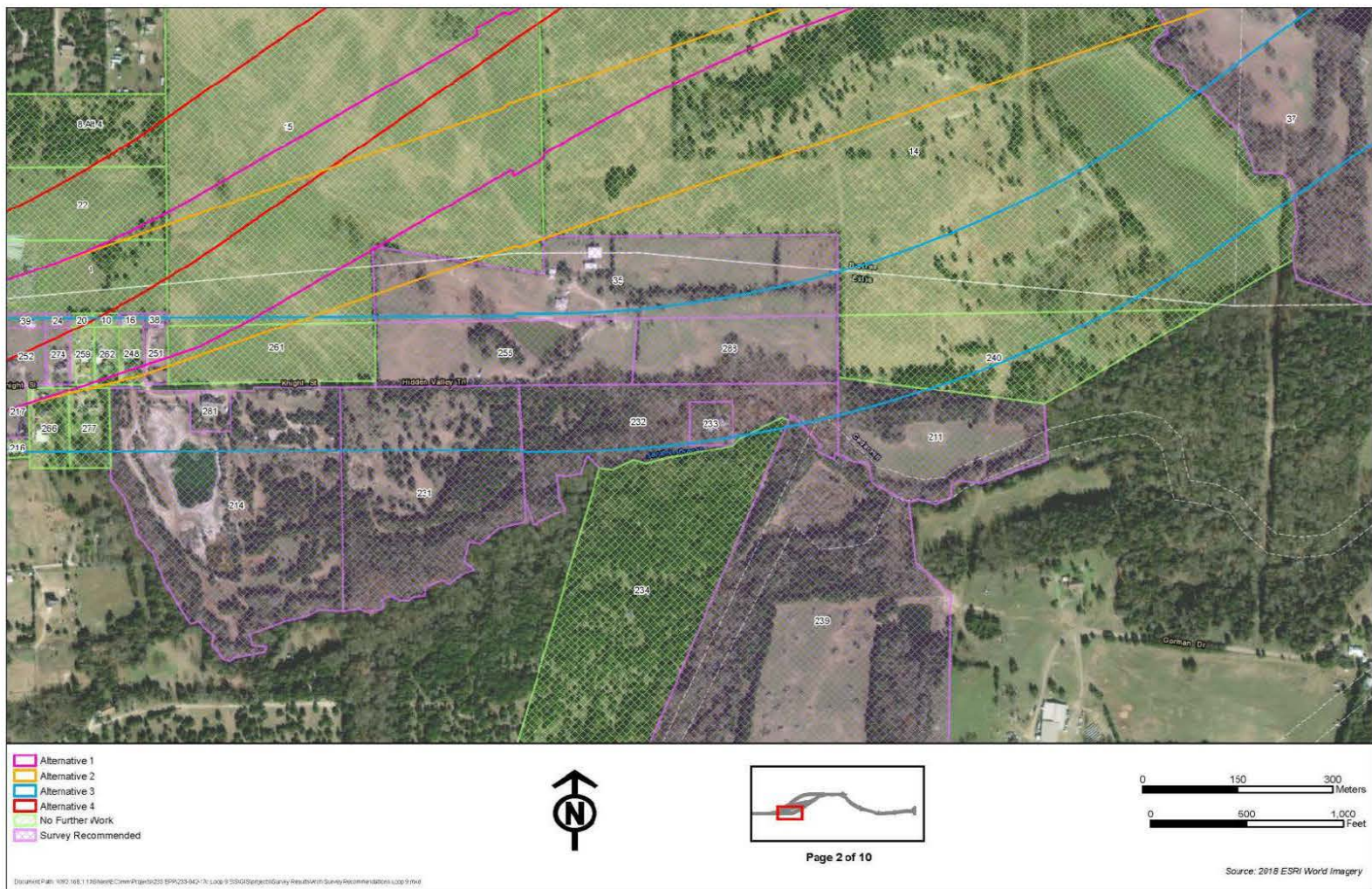


Figure 35b. Further survey recommendations for Loop 9 Segment A.

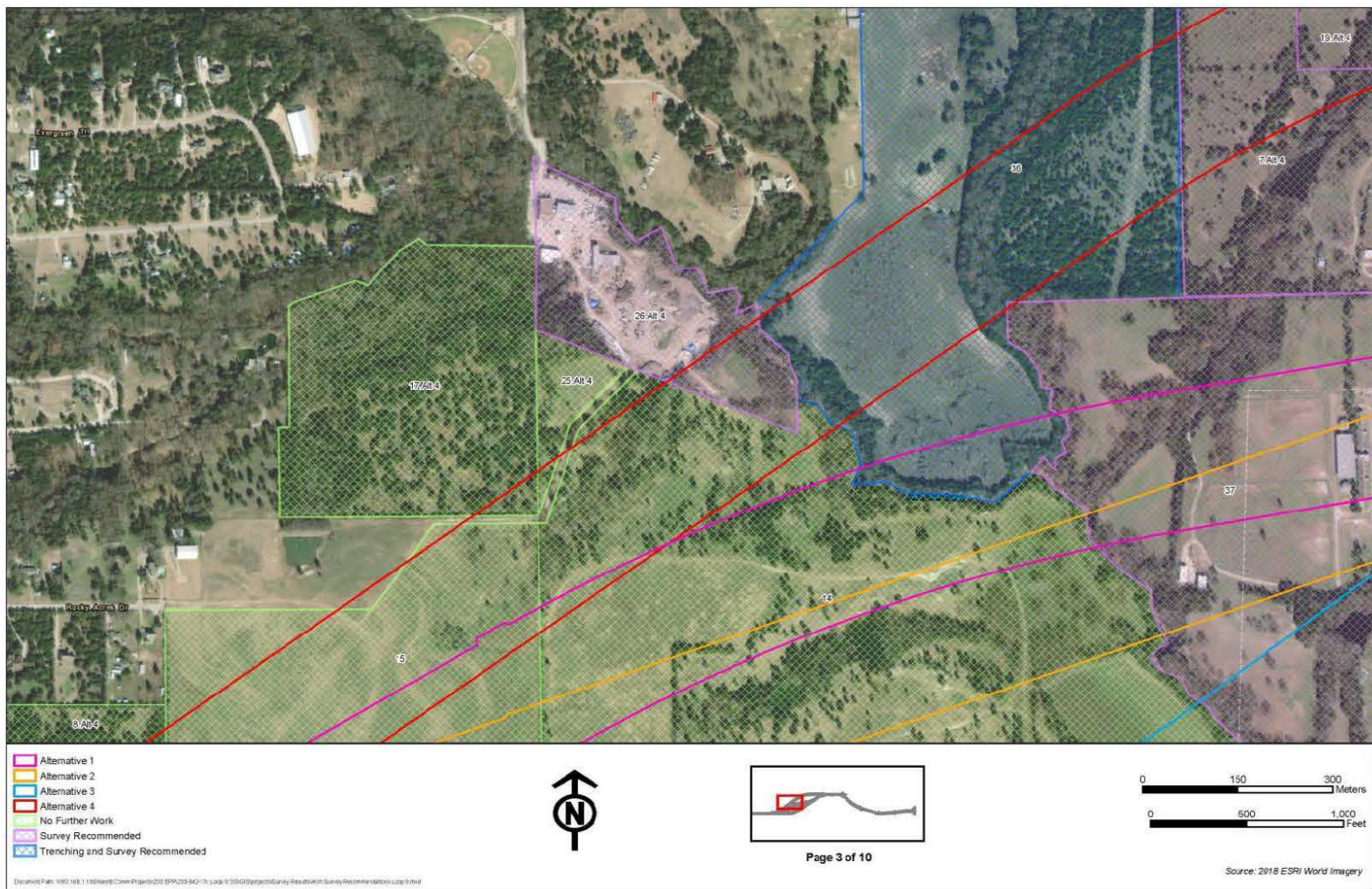


Figure 35c. Further survey recommendations for Loop 9 Segment A.

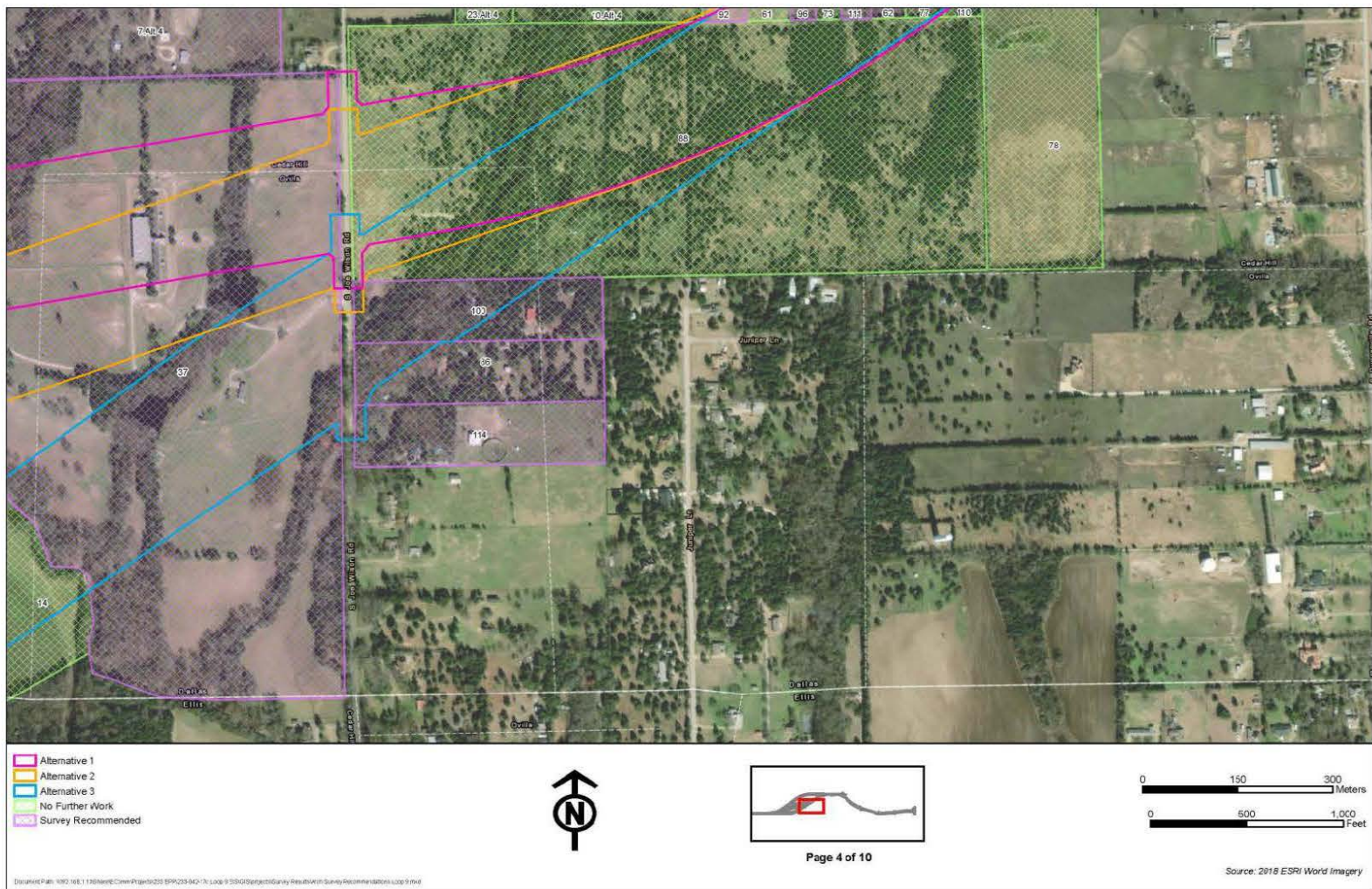


Figure 35d. Further survey recommendations for Loop 9 Segment A.

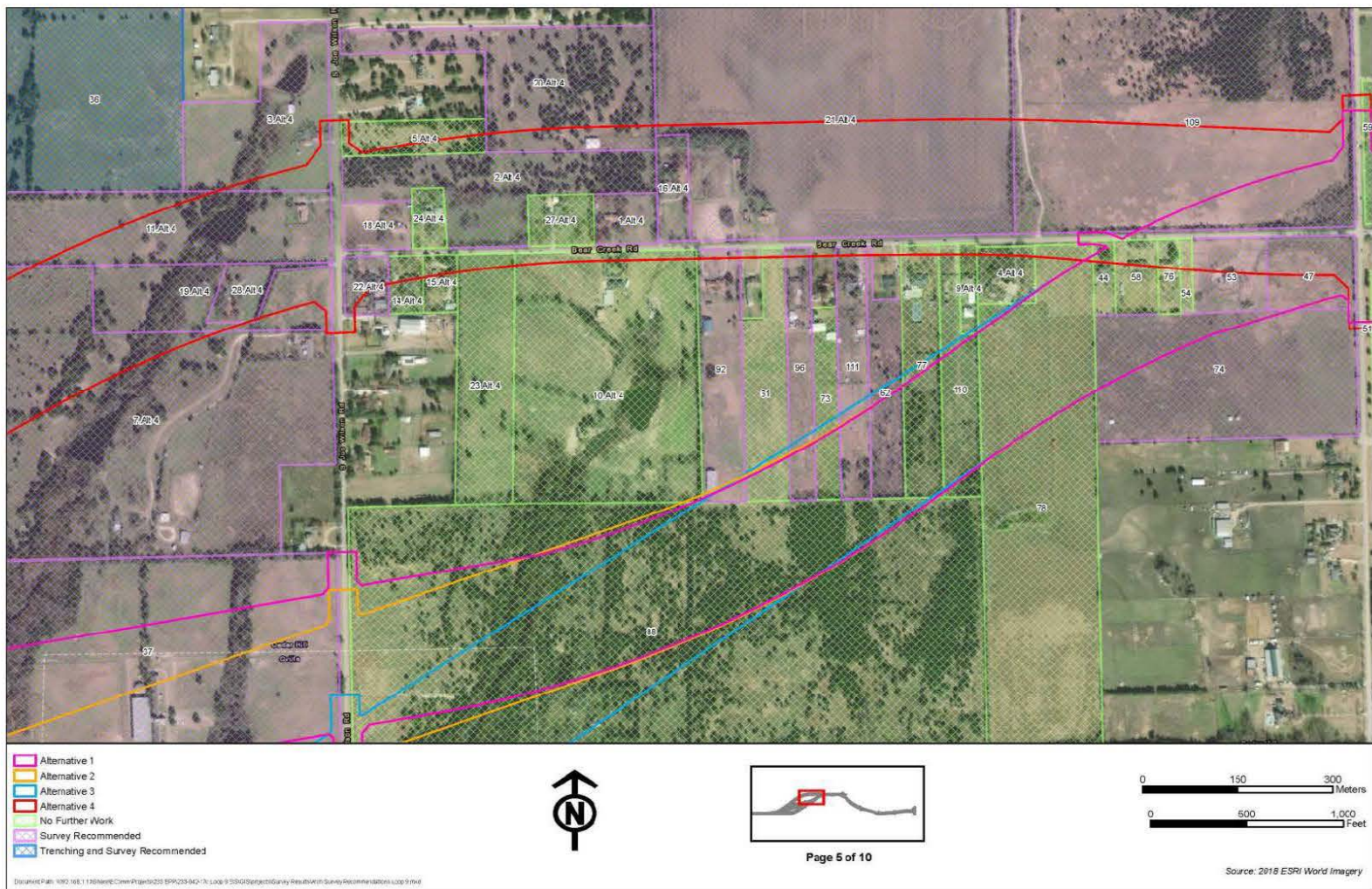


Figure 35e. Further survey recommendations for Loop 9 Segment A.



Figure 35f. Further survey recommendations for Loop 9 Segment A.



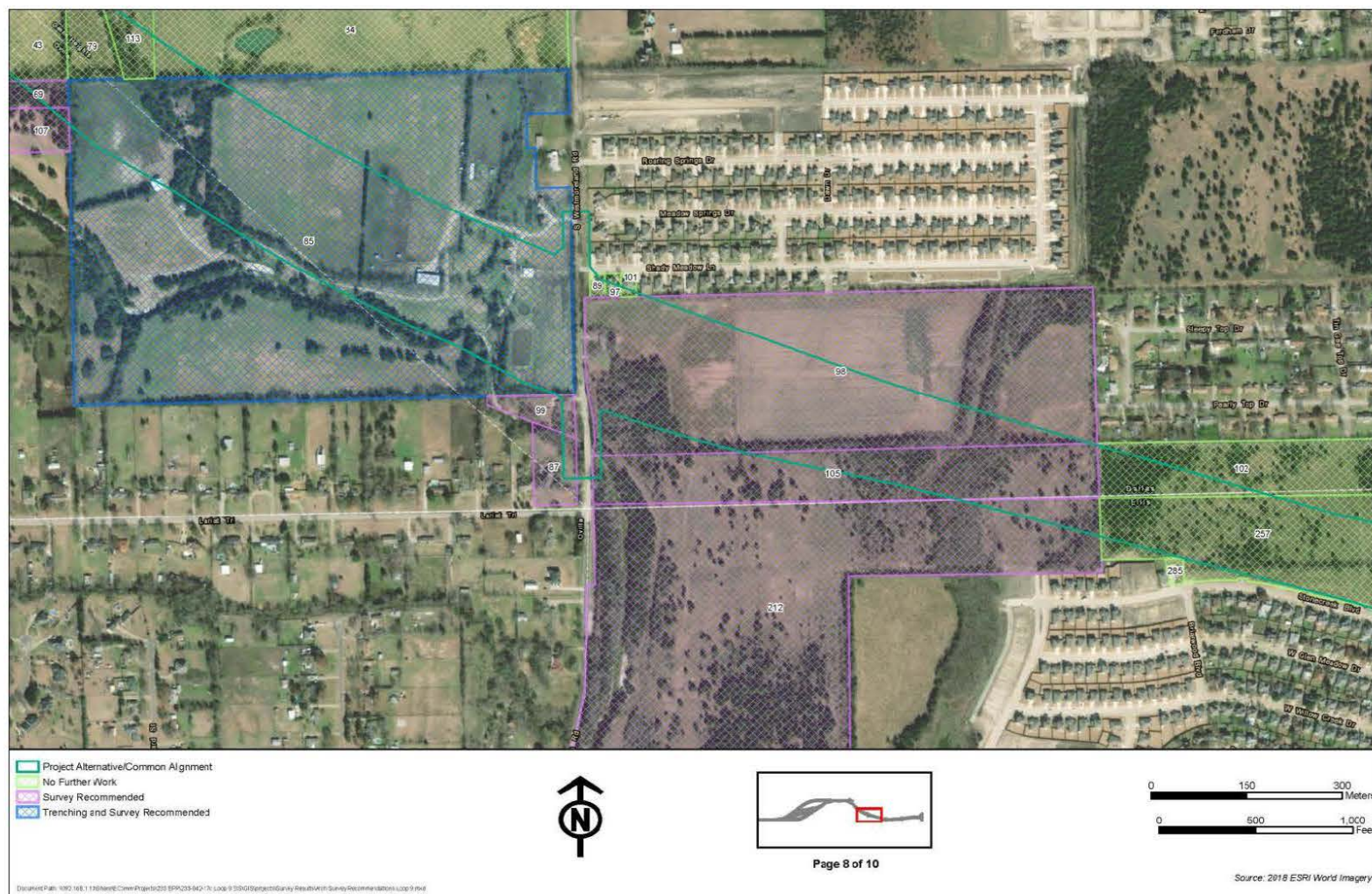


Figure 35h. Further survey recommendations for Loop 9 Segment A.

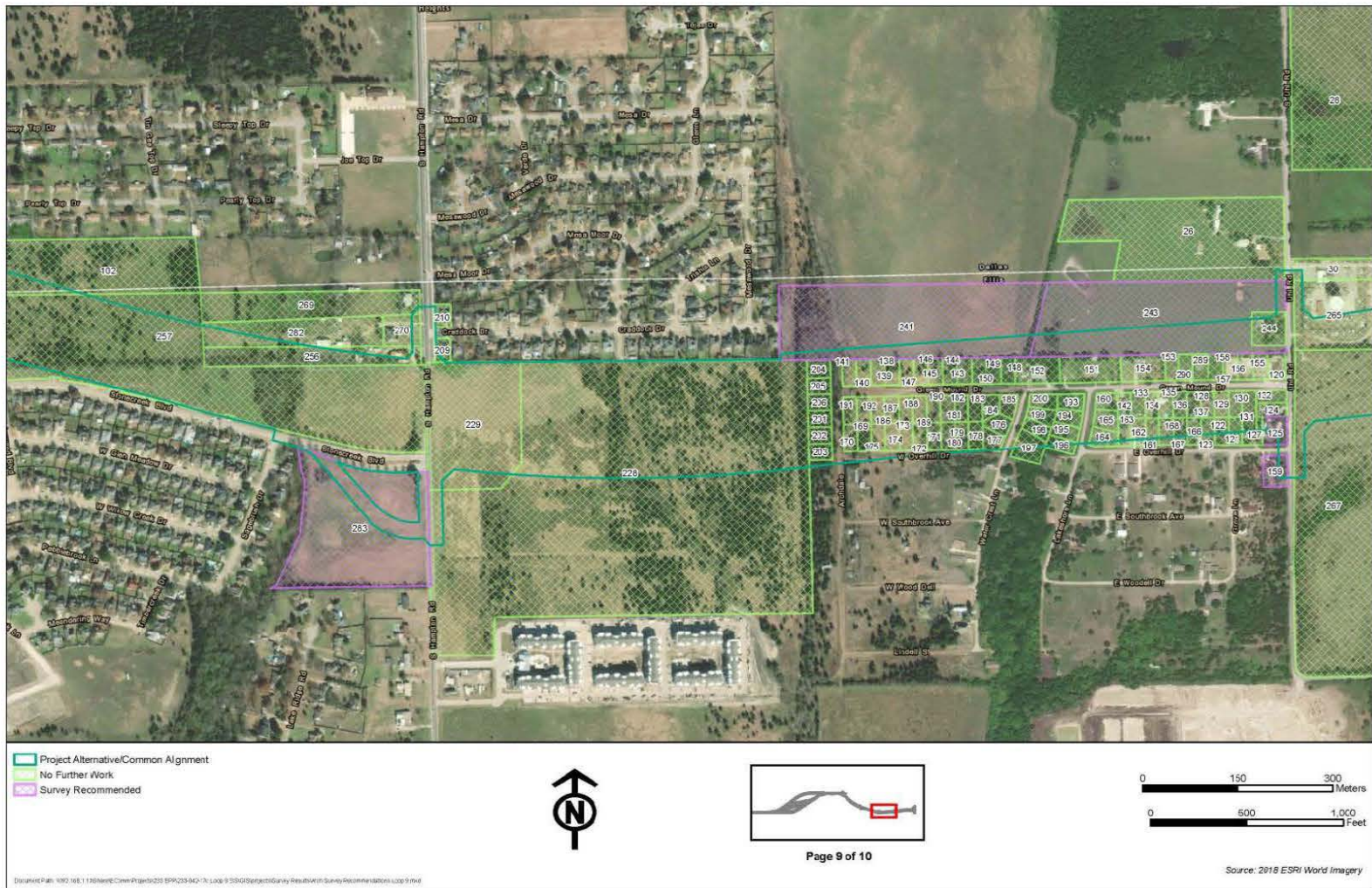


Figure 35i. Further survey recommendations for Loop 9 Segment A.



Figure 35j. Further survey recommendations for Loop 9 Segment A.



Figure 36. Exhibiting disturbed soils and exposure of bedrock.

Appendix C:
Survey Status Table

Parcel ID	CAD Account #, Property ID	Survey Status	Recommendation	County
1	65144112510110000	Survey Completed	No Further Work	Dallas
2	65086315010070000	No Access	No Further Work	Dallas
5	65121829010280200	Survey Completed	No Further Work	Dallas
6	65121829010340000	No Access	No Further Work	Dallas
8	65144112510090000	Survey Completed	No Further Work	Dallas
9	65144112510100300	Survey Completed	No Further Work	Dallas
10	65144112510100600	Survey Completed	No Further Work	Dallas
14	65056166010010000	Survey Completed	No Further Work	Dallas
15	65144112510260200	Survey Completed	No Further Work	Dallas
16	65144112510100200	No Access	Survey Recommended	Dallas
17	65144112510090100	Survey Completed	No Further Work	Dallas
19	65144112510080000	No Access	Survey Recommended	Dallas
20	65144112510100500	Survey Completed	No Further Work	Dallas
22	65144112510120000	Survey Completed	No Further Work	Dallas
24	65144112510100400	No Access	Survey Recommended	Dallas
25	65061924010270000	Survey Completed	No Further Work	Dallas
26	65111833510170000	Survey Completed	No Further Work	Dallas
28	65111833510160000	Survey Completed	No Further Work	Dallas
30	65111833510160200	Survey Completed	No Further Work	Dallas
35	65144112510260000	No Access	Survey Recommended	Dallas
36	65092574010020000	No Access	Survey and Trenching Recommended	Dallas
37	65056166010030000	No Access	Survey Recommended	Dallas
38	65144112510100100	No Access	Survey Recommended	Dallas
39	65144112510100000	No Access	Survey Recommended	Dallas
41	65121829010020000	No Access	Survey Recommended	Dallas
43	65113140510020000	Survey Completed	No Further Work	Dallas
44	65013505510040400	Survey Completed	No Further Work	Dallas
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51	160045200C00A0000	No Access	No Further Work	Dallas
52	65120219610130000	Survey Completed	No Further Work	Dallas
53	65013505510042000	No Access	Survey Recommended	Dallas

Parcel ID	CAD Account #, Property ID	Survey Status	Recommendation	County
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55	65120219510570000	Survey Completed	No Further Work	Dallas
56	65120219610170000	Survey Completed	No Further Work	Dallas
57	65120219610030000	Survey Completed	No Further Work	Dallas
58	65013505510040500	Survey Completed	No Further Work	Dallas
59	65112235510020000	Survey Completed	No Further Work	Dallas
60	160456900A0010000	Survey Completed	No Further Work	Dallas
61	65013505510150000	Survey Completed	No Further Work	Dallas
62	65013505510130000	No Access	Survey Recommended	Dallas
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66	65113140510010000	Survey Completed	No Further Work	Dallas
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69	65076442510080100	No Access	Survey Recommended	Dallas
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79	65113140510210000	Survey Completed	No Further Work	Dallas
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82	65120219610180000	Survey Completed	No Further Work	Dallas
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85	65076442510020000	No Access	Survey and Trenching Recommended	Dallas
86	65011681010050000	No Access	Survey Recommended	Dallas
87	922415000A02A0000	No Access	Survey Recommended	Dallas
88	65013505510030000	Survey Completed	No Further Work	Dallas

Parcel ID	CAD Account #, Property ID	Survey Status	Recommendation	County
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114	65011681010110000	No Access	Survey Recommended	Dallas
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135	152257	No Access	No Further Work	Ellis
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137	152259	No Access	No Further Work	Ellis
138	152260	No Access	No Further Work	Ellis
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Parcel ID	CAD Account #, Property ID	Survey Status	Recommendation	County
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Parcel ID	CAD Account #, Property ID	Survey Status	Recommendation	County
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251	193205	No Access	Survey Recommended	Ellis
252	193206	No Access	Survey Recommended	Ellis
253	193207	Survey Completed	No Further Work	Ellis
254	193208	Survey Completed	No Further Work	Ellis
255	193213	No Access	Survey Recommended	Ellis
256	193224	Survey Completed	No Further Work	Ellis
257	193226, 273676, 273675	Survey Completed	No Further Work	Ellis
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266	198234	No Access	No Further Work	Ellis
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273	207495	Survey Completed	No Further Work	Ellis
274	208416	No Access	Survey Recommended	Ellis
275	209745	No Access	Survey Recommended	Ellis
276	217357	Survey Completed	No Further Work	Ellis
277	216111	Survey Completed	No Further Work	Ellis
278	216927	Survey Completed	No Further Work	Ellis
280	220460	No Access	No Further Work	Ellis
281	224084	No Access	Survey Recommended	Ellis
282	225517	Survey Completed	No Further Work	Ellis
283	242701	No Access	Survey Recommended	Ellis
285	244383	No Access	No Further Work	Ellis
287	251354	Survey Completed	No Further Work	Ellis

Parcel ID	CAD Account #, Property ID	Survey Status	Recommendation	County
288	270466	No Access	Survey Recommended	Ellis
289	271612	No Access	No Further Work	Ellis
290	271613	No Access	No Further Work	Ellis
0.Alt 4	65144112510070100	No Access	Survey Recommended	Dallas
1.Alt 4	65013304510050000	No Access	Survey Recommended	Dallas
10.Alt 4	65013505510010100	No Access	No Further Work	Dallas
11.Alt 4	65092574010030000	No Access	Survey Recommended	Dallas
12.Alt 4	65144112510070000	No Access	Survey Recommended	Dallas
13.Alt 4	65144112510310000	No Access	Survey Recommended	Dallas
14.Alt 4	65013505510070000	Survey Completed	No Further Work	Dallas
15.Alt 4	65013505510170000	No Access	No Further Work	Dallas
16.Alt 4	65013304510100000	No Access	Survey Recommended	Dallas
17.Alt 4	16006500040150000	Survey Completed	No Further Work	Dallas
18.Alt 4	65013304510040000	No Access	Survey Recommended	Dallas
19.Alt 4	65092574010050000	No Access	Survey Recommended	Dallas
2. Alt 4	65013304510080000	No Access	Survey Recommended	Dallas
20.Alt 4	65013304510080500	No Access	Survey Recommended	Dallas
21.Alt 4	65013304510020000	No Access	Survey Recommended	Dallas
22.Alt 4	65013505510070100	No Access	Survey Recommended	Dallas
23.Alt 4	65013505510140000	No Access	No Further Work	Dallas
24.Alt 4	65013304510010000	No Access	No Further Work	Dallas
25.Alt 4	65013606010030000	Survey Completed	No Further Work	Dallas
26.Alt 4	160155800A0010000	No Access	Survey Recommended	Dallas
27.Alt 4	65013304510060000	Survey Completed	No Further Work	Dallas
28.Alt 4	65092574010050100	No Access	Survey Recommended	Dallas
3.Alt 4	65108503510030000	No Access	Survey Recommended	Dallas
4.Alt 4	65013505510240000	No Access	No Further Work	Dallas
5.Alt 4	65013304510080200	Survey Completed	No Further Work	Dallas
6.Alt 4	65121829010150000	No Access	Survey Recommended	Dallas
7.Alt 4	65092574010010000	No Access	Survey Recommended	Dallas
8.Alt 4	65144112510130000	Survey Completed	No Further Work	Dallas
9.Alt 4	65013505510300200	Survey Completed	No Further Work	Dallas

This report was written on behalf of the Texas Department of Transportation by:



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Austin, Texas 78737