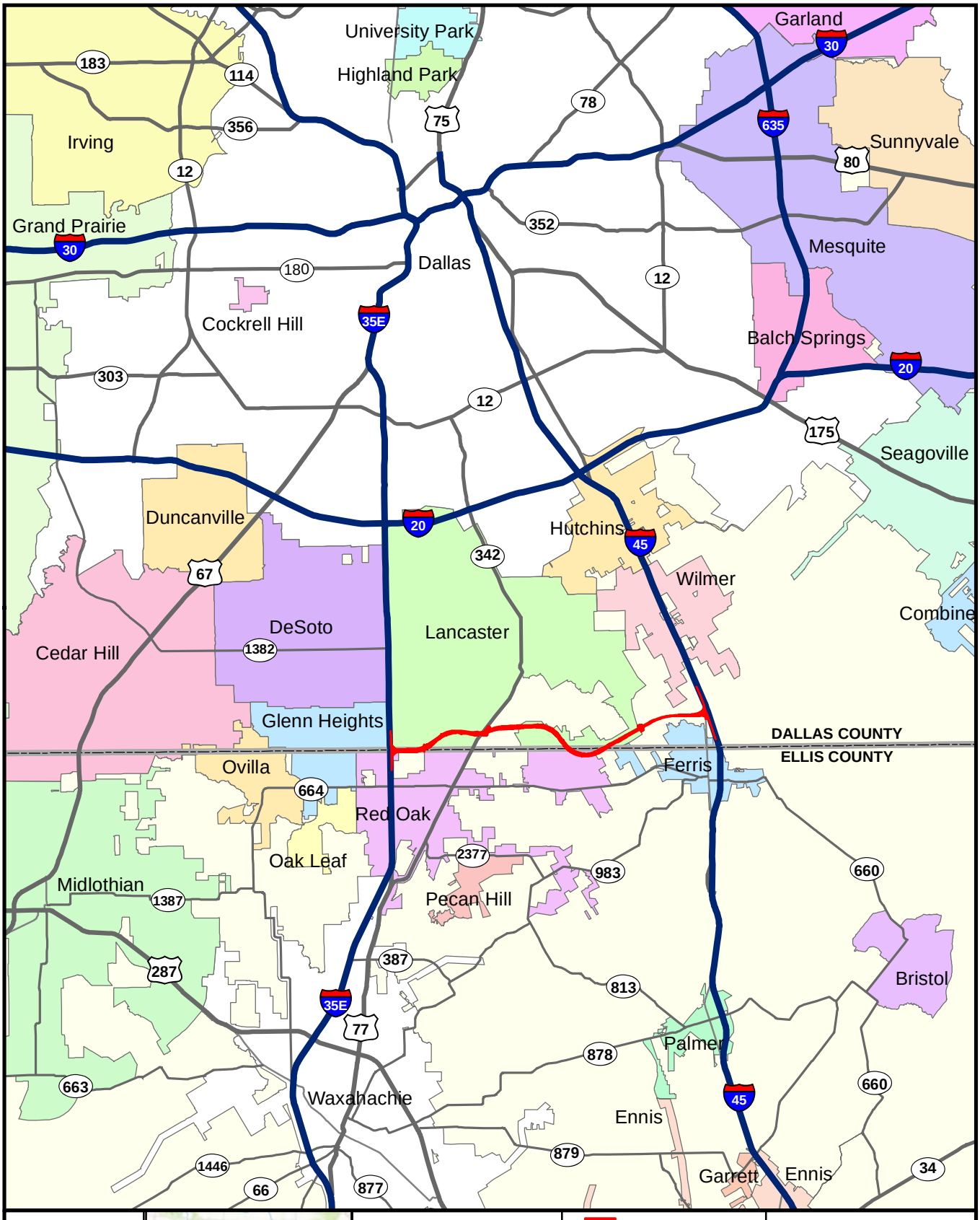
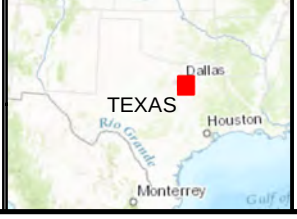
Attachment 1

Figure 1 – Vicinity Map
Figure 2 – Location Map
Figures 8a and 8b – Potential Suitable Habitat for Special Status Terrestrial Species
Figure 9 – Potential Habitat for Freshwater Mussels





0 2 4

Miles

- Project Location
- Interstate Highway
- US Highway
- State Highway
- Farm to Market Road
- Other Road
- County Boundary

Figure 1
Project Vicinity Map

Loop 9: I-35E to I-45
Dallas & Ellis Counties, Texas
CSJ: 2964-10-005

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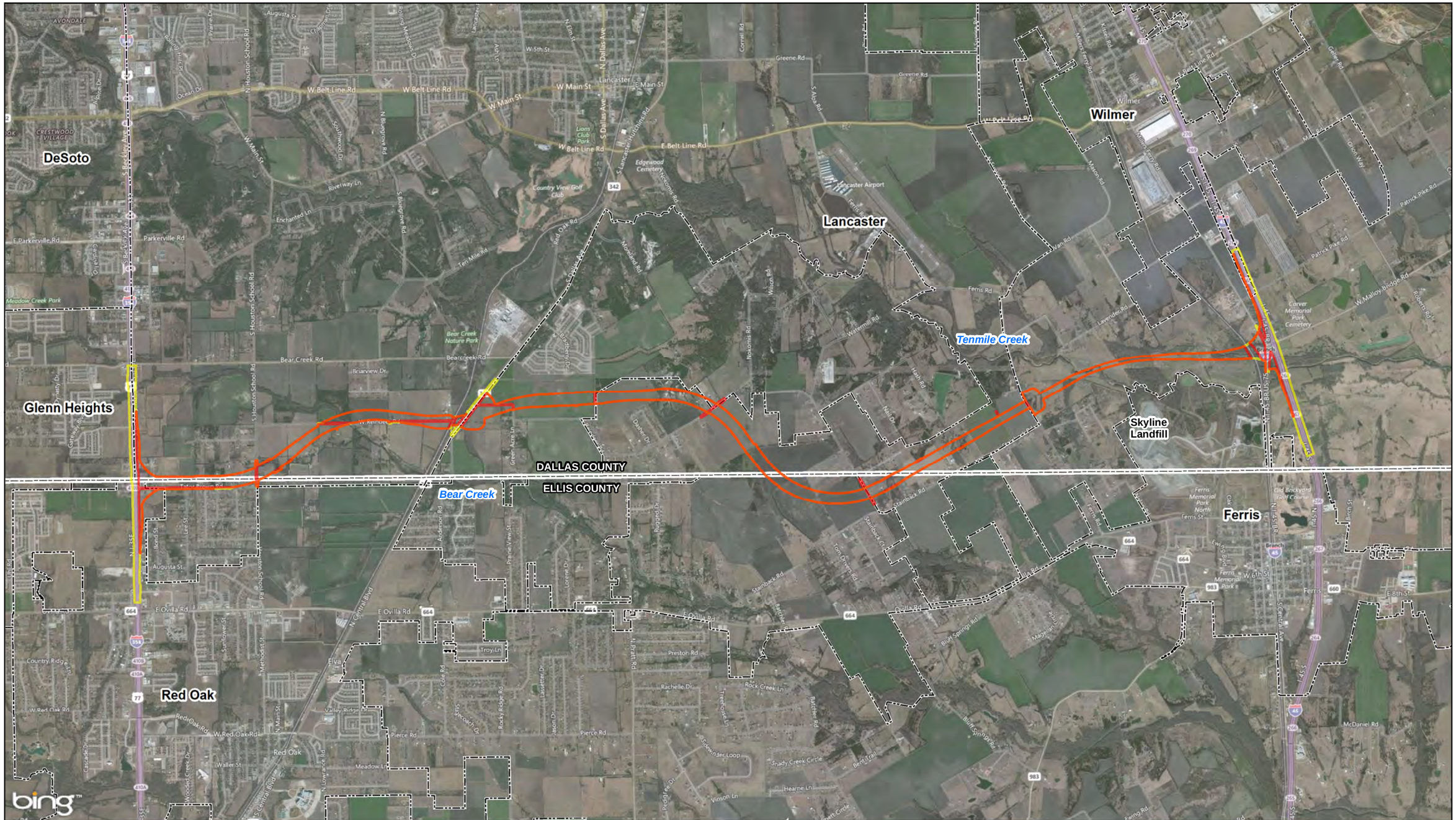
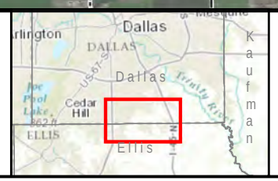
Date: 3/28/2017



Loop 9 SOUTHEAST	**Dallas and Ellis Counties**		0 2,000 4,000 Feet 0 0.25 0.5 Miles	Proposed Right of Way Construction Limits County Boundary City Limit	**Figure 2** **Location Map** **Loop 9: From I-35E to I-45** **Dallas and Ellis Counties, Texas** **CSJ: 2964-10-005**

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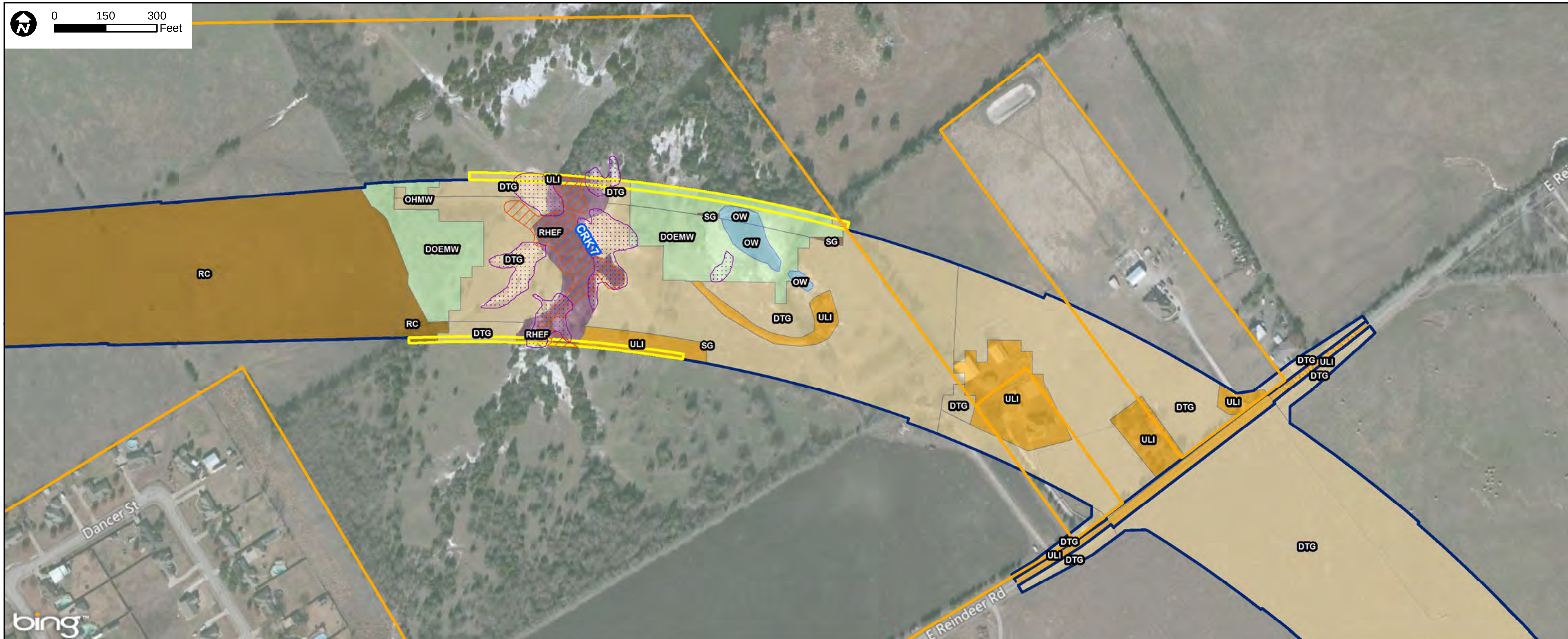
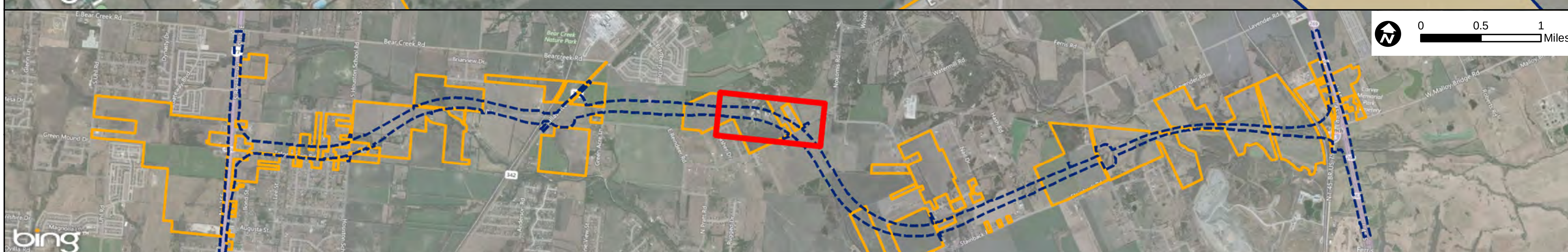
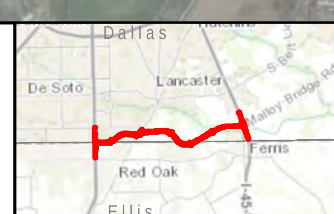




Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties



- Proposed ROW
- Proposed Easement
- Construction Limits
- Right of Entry Approved
- Hall's prairie clover Habitat
- Warnock's coral-root Habitat
- Blackland Prairie: Disturbance or Tame Grassland (DTG)
- Central Texas: Riparian Hardwood / Evergreen Forest (RHEF)
- Edwards Plateau: Deciduous Oak / Evergreen Motte and Woodland (DOEMW)
- Edwards Plateau: Oak / Hardwood Motte and Woodland (OHMW)
- Edwards Plateau: Savanna Grassland (SG)
- Open Water (OW)
- Row Crops (RC)
- Urban Low Intensity (ULI)

EMST data source: TPWD, 2014

Figure 8a
Potential Suitable Habitat for Special Status Terrestrial Species within the Project Area

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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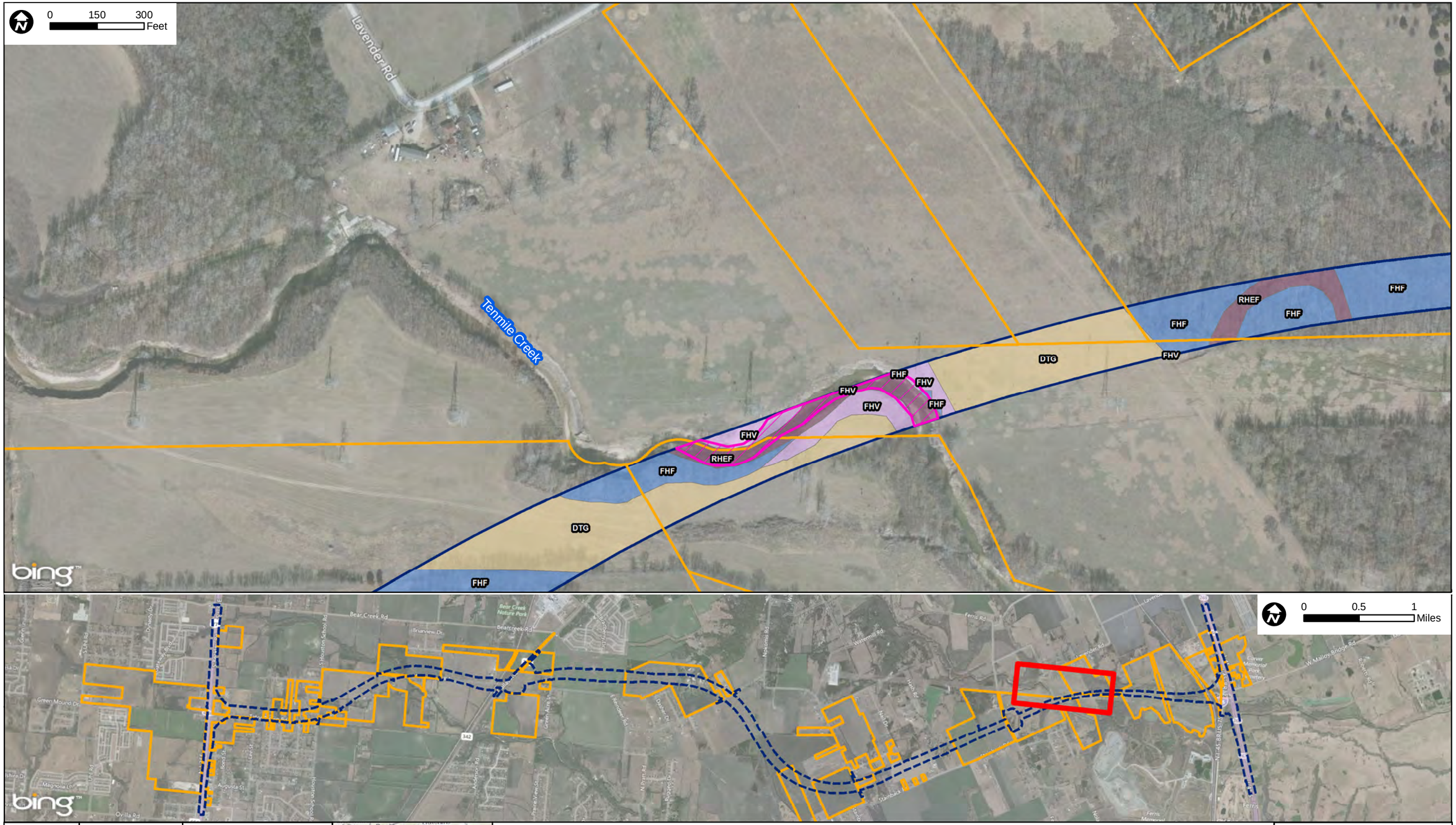
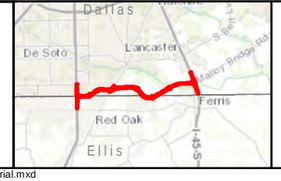
Date: 3/28/2017





Loop 9 Southeast

Texas Department of Transportation

Dallas and Ellis Counties

- Proposed ROW
- Proposed Drainage Easement
- Construction Limits
- Right of Entry Approved
- Potential Habitat for Interior Least Tern
- Blackland Prairie: Disturbance or Tame Grassland (DTG)
- Central Texas: Floodplain Hardwood Forest (FHF)
- Central Texas: Floodplain Herbaceous Vegetation (FHV)
- Central Texas: Riparian Hardwood / Evergreen Forest (RHEF)

EMST data source: TPWD, 2014

Figure 8b
Potential Suitable Habitat for Special Status Terrestrial Species within the Project Area

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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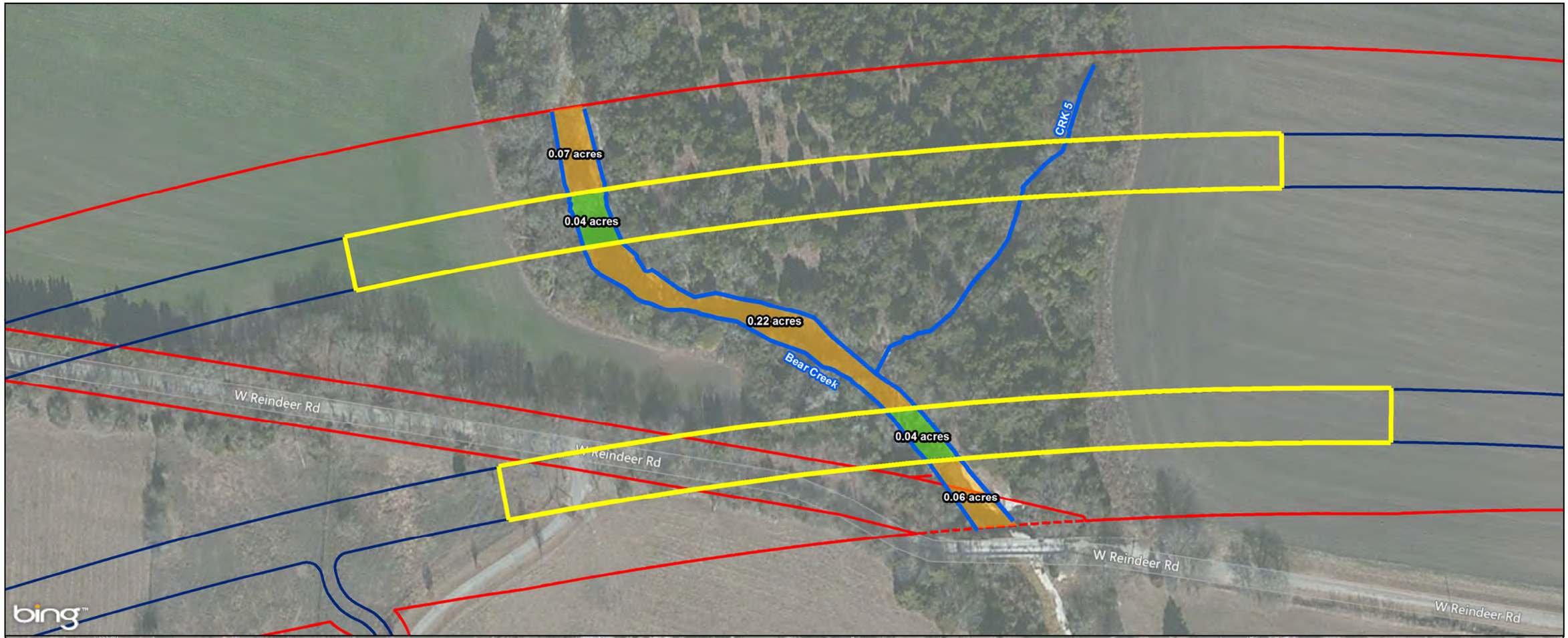
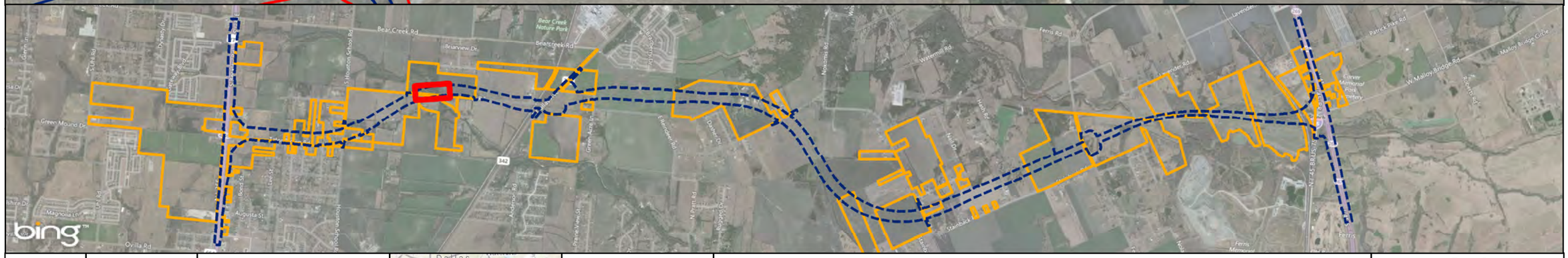
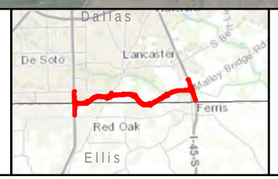
Date: 3/28/2017







0 0.01 0.02
Miles
0 50 100
Feet

- Construction Limits
- Proposed ROW
- Edge of Pavement
- Edge of Bridge Section
- Stream
- Potential Mussel Habitat
- Potentially Impacted Mussel Habitat

Dallas and Ellis Counties

Figure 9
Potential Habitat for Freshwater Mussels within the Project Area

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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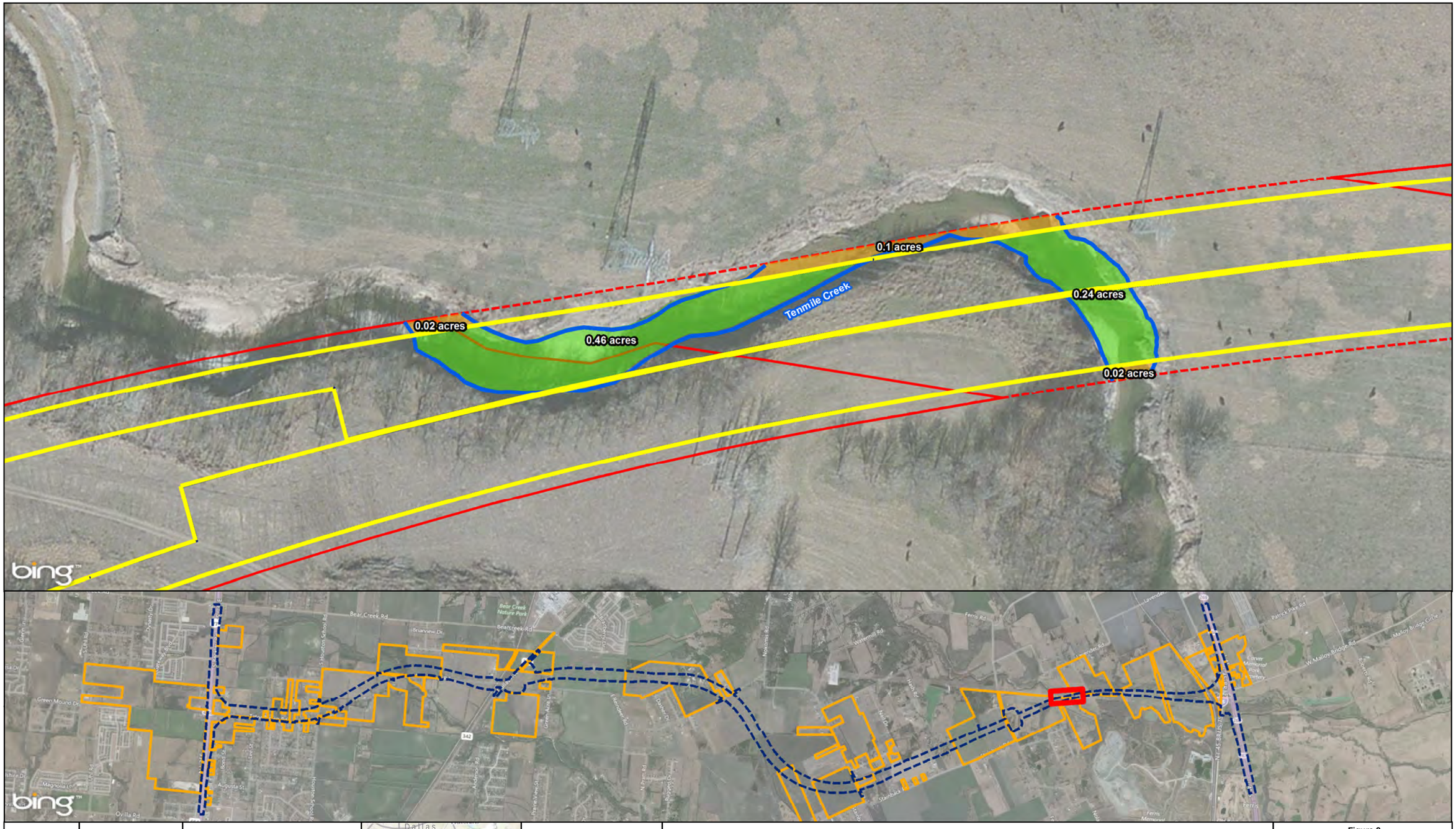
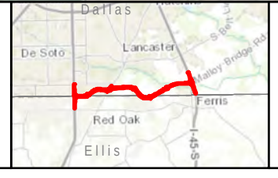
Date: 3/28/2017





Dallas and Ellis Counties

0 0.01 0.02
Miles

0 50 100
Feet

- Construction Limits
- Proposed ROW
- Edge of Pavement
- Edge of Bridge Section
- Stream
- Potential Mussel Habitat
- Potentially Impacted Mussel Habitat

Figure 9
Potential Habitat for Freshwater Mussels within the Project Area

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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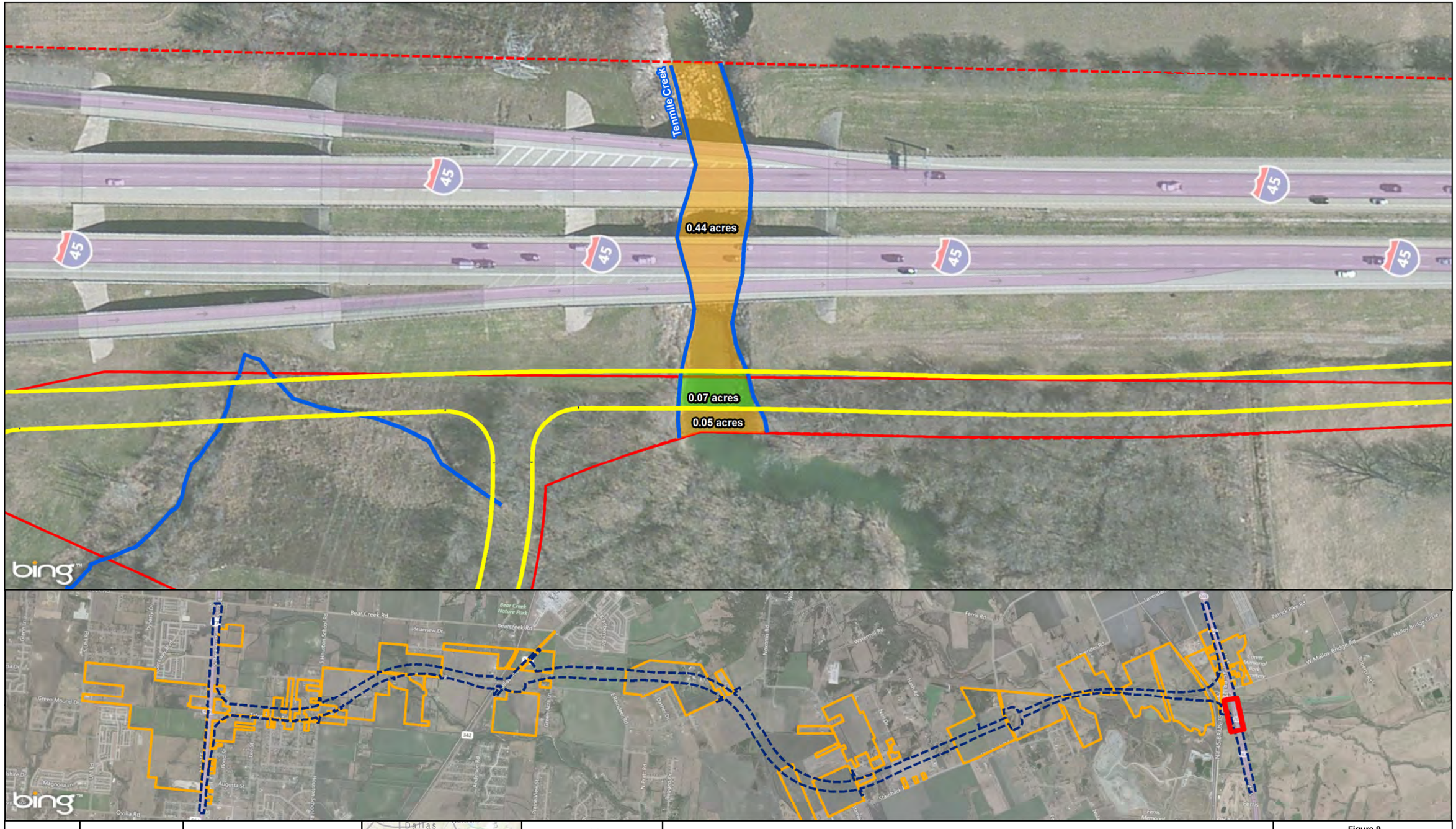
Date: 3/28/2017



Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties

Figure 9
Potential Habitat for Freshwater Mussels within the Project Area

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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Date: 3/28/2017

Attachment 2

Texas Parks & Wildlife Department, Dallas and Ellis Counties Lists of Rare Species
IPaC Trust Resources Report
USFWS Official Species List

Last Revision: 12/30/2016 10:08:00 AM

DALLAS COUNTY

BIRDS

		Federal Status	State Status
American Peregrine Falcon	*Falco peregrinus anatum*	DL	T

year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Arctic Peregrine Falcon	*Falco peregrinus tundrius*	DL	

migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Bald Eagle	*Haliaeetus leucocephalus*	DL	T

found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Black-capped Vireo	*Vireo atricapilla*	LE	E

oak-juniper woodlands with distinctive patchy, two-layered aspect; shrub and tree layer with open, grassy spaces; requires foliage reaching to ground level for nesting cover; return to same territory, or one nearby, year after year; deciduous and broad-leaved shrubs and trees provide insects for feeding; species composition less important than presence of adequate broad-leaved shrubs, foliage to ground level, and required structure; nesting season March-late summer

Golden-cheeked Warbler	*Setophaga chrysoparia*	LE	E

juniper-oak woodlands; dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer

Henslow's Sparrow	*Ammodramus henslowii*		

wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking

Interior Least Tern	*Sterna antillarum athalassos*	LE	E

subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony

Peregrine Falcon	*Falco peregrinus*	DL	T

both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, F.p. tundrius is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.

DALLAS COUNTY

BIRDS

		Federal Status	State Status
Piping Plover	*Charadrius melodus*	LT	T

wintering migrant along the Texas Gulf Coast; beaches and bayside mud or salt flats

Red Knot	*Calidris canutus rufa*	T

Red knots migrate long distances in flocks northward through the contiguous United States mainly April-June, southward July-October. A small plump-bodied, short-necked shorebird that in breeding plumage, typically held from May through August, is a distinctive and unique pottery orange color. Its bill is dark, straight and, relative to other shorebirds, short-to-medium in length. After molting in late summer, this species is in a drab gray-and-white non-breeding plumage, typically held from September through April. In the non-breeding plumage, the knot might be confused with the omnipresent Sanderling. During this plumage, look for the knot's prominent pale eyebrow and whitish flanks with dark barring. The Red Knot prefers the shoreline of coast and bays and also uses mudflats during rare inland encounters. Primary prey items include coquina clam (Donax spp.) on beaches and dwarf surf clam (Mulinia lateralis) in bays, at least in the Laguna Madre. Wintering Range includes- Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kennedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore.

Sprague's Pipit	*Anthus spragueii*

only in Texas during migration and winter, mid September to early April; short to medium distance, diurnal migrant; strongly tied to native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.

Western Burrowing Owl	*Athene cunicularia hypugaea*

open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

White-faced Ibis	*Plegadis chihi*	T

prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats

Whooping Crane	*Grus americana*	LE	E

potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties

Wood Stork	*Mycteria americana*	T

forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960

INSECTS

		Federal Status	State Status
Black Lordithon rove beetle	*Lordithon niger*		

historically known from Texas

DALLAS COUNTY

MAMMALS

Federal Status State Status

Cave myotis bat *Myotis velifer*

colonial and cave-dwelling; also roosts in rock crevices, old buildings, carports, under bridges, and even in abandoned Cliff Swallow (Hirundo pyrrhonota) nests; roosts in clusters of up to thousands of individuals; hibernates in limestone caves of Edwards Plateau and gypsum cave of Panhandle during winter; opportunistic insectivore

Plains spotted skunk *Spilogale putorius interrupta*

catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

MOLLUSKS

Federal Status State Status

Louisiana pigtoe *Pleurobema riddellii* T

streams and moderate-size rivers, usually flowing water on substrates of mud, sand, and gravel; not generally known from impoundments; Sabine, Neches, and Trinity (historic) River basins

Sandbank pocketbook *Lampsilis satura* T

small to large rivers with moderate flows and swift current on gravel, gravel-sand, and sand bottoms; east Texas, Sulfur south through San Jacinto River basins; Neches River

Texas heelsplitter *Potamilus amphichaenus* T

quiet waters in mud or sand and also in reservoirs. Sabine, Neches, and Trinity River basins

Texas pigtoe *Fusconaia askewi* T

rivers with mixed mud, sand, and fine gravel in protected areas associated with fallen trees or other structures; east Texas River basins, Sulphur River, Cypress Creek, Sabine through Trinity rivers as well as San Jacinto River

REPTILES

Federal Status State Status

Alligator snapping turtle *Macrochelys temminckii* T

perennial water bodies; deep water of rivers, canals, lakes, and oxbows; also swamps, bayous, and ponds near deep running water; sometimes enters brackish coastal waters; usually in water with mud bottom and abundant aquatic vegetation; may migrate several miles along rivers; active March-October; breeds April-October

Texas garter snake *Thamnophis sirtalis annectens*

wet or moist microhabitats are conducive to the species occurrence, but is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August

Texas horned lizard *Phrynosoma cornutum* T

open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September

DALLAS COUNTY

REPTILES

		Federal Status	State Status
Timber rattlesnake	*Crotalus horridus*		T

swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil or black clay; prefers dense ground cover, i.e. grapevines or palmetto

PLANTS

		Federal Status	State Status

Glass Mountains coral-root *Hexalectris nitida*

GLOBAL RANK: G3; Apparently rare in mixed woodlands in canyons in the mountains of the Brewster County, but encountered with regularity, albeit in small numbers, under Juniperus ashei in woodlands over limestone on the Edwards Plateau, Callahan Divide and Lampasas Cutplain; Perennial; Flowering June-Sept; Fruiting July-Sept

Glen Rose yucca *Yucca necopina*

Texas endemic; grasslands on sandy soils and limestone outcrops; flowering April-June

Hall's prairie clover *Dalea hallii*

GLOBAL RANK: G3; In grasslands on eroded limestone or chalk and in oak scrub on rocky hillsides; Perennial; Flowering May-Sept; Fruiting June-Sept

Osage Plains false foxglove *Agalinis densiflora*

GLOBAL RANK: G3; Most records are from grasslands on shallow, gravelly, well drained, calcareous soils; Prairies, dry limestone soils; Annual; Flowering Aug-Oct

Plateau milkvine *Matelea edwardsensis*

GLOBAL RANK: G3 ; Occurs in various types of juniper-oak and oak-juniper woodlands; Perennial; Flowering March-Oct; Fruiting May-June

Texas milk vetch *Astragalus reflexus*

GLOBAL RANK: G3; Grasslands, prairies, and roadsides on calcareous and clay substrates; Annual; Flowering Feb-June; Fruiting April-June

Tree dodder *Cuscuta exaltata*

GLOBAL RANK: G3; Parasitic on various Quercus, Juglans, Rhus, Vitis, Ulmus, and Diospyros species as well as Acacia berlandieri and other woody plants; Annual; Flowering May-Oct; Fruiting July-Oct

Warnock's coral-root *Hexalectris warnockii*

in leaf litter and humus in oak-juniper woodlands on shaded slopes and intermittent, rocky creekbeds in canyons; in the Trans Pecos in oak-pinyon-juniper woodlands in higher mesic canyons (to 2000 m [6550 ft]), primarily on igneous substrates; in Terrell County under Quercus fusiformis mottes on terrraces of spring-fed perennial streams, draining an otherwise rather xeric limestone landscape; on the Callahan Divide (Taylor County), the White Rock Escarpment (Dallas County), and the Edwards Plateau in oak-juniper woodlands on limestone slopes; in Gillespie County on igneous substrates of the Llano Uplift; flowering June-September; individual plants do not usually bloom in successive years

Last Revision: 12/30/2016 10:08:00 AM

ELLIS COUNTY

AMPHIBIANS

		Federal Status	State Status
Southern Crawfish Frog	*Lithobates areolatus areolatus*		

The Southern Crawfish Frog can be found in abandoned crawfish holes and small mammal burrows. This species inhabits moist meadows, pasturelands, pine scrub, and river flood plains. This species spends nearly all of its time in burrows and only leaves the burrow area to breed. Although this species can be difficult to detect due to its reclusive nature, the call of breeding males can be heard over great distances. Eggs are laid and larvae develop in temporary water such as flooded fields, ditches, farm ponds and small lakes. Habitat: Shallow water, Herbaceous Wetland, Riparian, Temporary Pool, Cropland/hedgerow, Grassland/herbaceous, Suburban/orchard, Woodland – Conifer.

BIRDS

		Federal Status	State Status
American Peregrine Falcon	*Falco peregrinus anatum*	DL	T

year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in US and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Arctic Peregrine Falcon	*Falco peregrinus tundrius*	DL	

migrant throughout state from subspecies' far northern breeding range, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.

Bald Eagle	*Haliaeetus leucocephalus*	DL	T

found primarily near rivers and large lakes; nests in tall trees or on cliffs near water; communally roosts, especially in winter; hunts live prey, scavenges, and pirates food from other birds

Golden-cheeked Warbler	*Setophaga chrysoparia*	LE	E

juniper-oak woodlands; dependent on Ashe juniper (also known as cedar) for long fine bark strips, only available from mature trees, used in nest construction; nests are placed in various trees other than Ashe juniper; only a few mature junipers or nearby cedar brakes can provide the necessary nest material; forage for insects in broad-leaved trees and shrubs; nesting late March-early summer

Henslow's Sparrow	*Ammodramus henslowii*		

wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking

Interior Least Tern	*Sterna antillarum athalassos*	LE	E

subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also know to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc); eats small fish and crustaceans, when breeding forages within a few hundred feet of colony

ELLIS COUNTY

BIRDS

		Federal Status	State Status
Peregrine Falcon	*Falco peregrinus*	DL	T

both subspecies migrate across the state from more northern breeding areas in US and Canada to winter along coast and farther south; subspecies (F. p. anatum) is also a resident breeder in west Texas; the two subspecies' listing statuses differ, F.p. tundrius is no longer listed in Texas; but because the subspecies are not easily distinguishable at a distance, reference is generally made only to the species level; see subspecies for habitat.

Red Knot	*Calidris canutus rufa*	T	

Red knots migrate long distances in flocks northward through the contiguous United States mainly April-June, southward July-October. A small plump-bodied, short-necked shorebird that in breeding plumage, typically held from May through August, is a distinctive and unique pottery orange color. Its bill is dark, straight and, relative to other shorebirds, short-to-medium in length. After molting in late summer, this species is in a drab gray-and-white non-breeding plumage, typically held from September through April. In the non-breeding plumage, the knot might be confused with the omnipresent Sanderling. During this plumage, look for the knot's prominent pale eyebrow and whitish flanks with dark barring. The Red Knot prefers the shoreline of coast and bays and also uses mudflats during rare inland encounters. Primary prey items include coquina clam (Donax spp.) on beaches and dwarf surf clam (Mulinia lateralis) in bays, at least in the Laguna Madre. Wintering Range includes- Aransas, Brazoria, Calhoun, Cameron, Chambers, Galveston, Jefferson, Kennedy, Kleberg, Matagorda, Nueces, San Patricio, and Willacy. Habitat: Primarily seacoasts on tidal flats and beaches, herbaceous wetland, and Tidal flat/shore.

Sprague's Pipit	*Anthus spragueii*		

only in Texas during migration and winter, mid September to early April; short to medium distance, diurnal migrant; strongly tied to native upland prairie, can be locally common in coastal grasslands, uncommon to rare further west; sensitive to patch size and avoids edges.

Western Burrowing Owl	*Athene cunicularia hypugaea*		

open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows

White-faced Ibis	*Plegadis chihi*		T

prefers freshwater marshes, sloughs, and irrigated rice fields, but will attend brackish and saltwater habitats; nests in marshes, in low trees, on the ground in bulrushes or reeds, or on floating mats

Whooping Crane	*Grus americana*	LE	E

potential migrant via plains throughout most of state to coast; winters in coastal marshes of Aransas, Calhoun, and Refugio counties

Wood Stork	*Mycteria americana*		T

forages in prairie ponds, flooded pastures or fields, ditches, and other shallow standing water, including salt-water; usually roosts communally in tall snags, sometimes in association with other wading birds (i.e. active heronries); breeds in Mexico and birds move into Gulf States in search of mud flats and other wetlands, even those associated with forested areas; formerly nested in Texas, but no breeding records since 1960

ELLIS COUNTY

MAMMALS

		Federal Status	State Status
Plains spotted skunk	*Spilogale putorius interrupta*		

catholic; open fields, prairies, croplands, fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie

Red wolf	*Canis rufus*	LE	E

extirpated; formerly known throughout eastern half of Texas in brushy and forested areas, as well as coastal prairies

MOLLUSKS

		Federal Status	State Status
Louisiana pigtoe	*Pleurobema riddellii*		T

streams and moderate-size rivers, usually flowing water on substrates of mud, sand, and gravel; not generally known from impoundments; Sabine, Neches, and Trinity (historic) River basins

Sandbank pocketbook	*Lampsilis satura*		T

small to large rivers with moderate flows and swift current on gravel, gravel-sand, and sand bottoms; east Texas, Sulfur south through San Jacinto River basins; Neches River

Texas heelsplitter	*Potamilus amphichaenus*		T

quiet waters in mud or sand and also in reservoirs. Sabine, Neches, and Trinity River basins

Texas pigtoe	*Fusconaia askewi*		T

rivers with mixed mud, sand, and fine gravel in protected areas associated with fallen trees or other structures; east Texas River basins, Sulphur River, Cypress Creek, Sabine through Trinity rivers as well as San Jacinto River

REPTILES

		Federal Status	State Status
Alligator snapping turtle	*Macrochelys temminckii*		T

perennial water bodies; deep water of rivers, canals, lakes, and oxbows; also swamps, bayous, and ponds near deep running water; sometimes enters brackish coastal waters; usually in water with mud bottom and abundant aquatic vegetation; may migrate several miles along rivers; active March-October; breeds April-October

Texas garter snake	*Thamnophis sirtalis annectens*		

wet or moist microhabitats are conducive to the species occurrence, but is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August

Texas horned lizard	*Phrynosoma cornutum*		T

open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September

Timber rattlesnake	*Crotalus horridus*		T

ELLIS COUNTY

REPTILES

Federal Status State Status

swamps, floodplains, upland pine and deciduous woodlands, riparian zones, abandoned farmland; limestone bluffs, sandy soil or black clay; prefers dense ground cover, i.e. grapevines or palmetto

PLANTS

Federal Status State Status

Hall's prairie clover *Dalea hallii*

GLOBAL RANK: G3; In grasslands on eroded limestone or chalk and in oak scrub on rocky hillsides; Perennial; Flowering May-Sept; Fruiting June-Sept

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

Project information

NAME

Loop 9

LOCATION

Dallas and Ellis counties, Texas

DESCRIPTION

Ten mile west to east corridor connecting I-35E and I-45 north of Red Oak and Ferris, Texas. CSJ No. 2964-10-005

Local office

Arlington Ecological Services Field Office

(817) 277-1100
(817) 277-1129

2005 Ne Green Oaks Blvd
Suite 140
Arlington, TX 76006-6247

http://www.fws.gov/southwest/es/arlingtontexas/
http://www.fws.gov/southwest/es/EndangeredSpecies/lists/

Endangered species

This resource list is for informational purposes only and should not be used for planning or analyzing project level impacts.

Section 7 of the Endangered Species Act **requires** Federal agencies to *"request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action"* for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Review section in IPaC or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by creating a project and making a request from the Regulatory Review section.

Listed species[1] are managed by the Endangered Species Program of the U.S. Fish and Wildlife Service.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Black-capped Vireo Vireo atricapilla **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/5716	Endangered
Golden-cheeked Warbler (=wood) Dendroica chrysoparia **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/33	Endangered
Least Tern Sterna antillarum **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/8505	Endangered
Piping Plover Charadrius melodus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/6039	Threatened
Red Knot Calidris canutus rufa **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane Grus americana There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/758	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service[3]. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

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

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The migratory birds species listed below are species of particular conservation concern (e.g. Birds of Conservation Concern) that may be potentially affected by activities in this location, not a list of every bird species you may find in this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the AKN Histogram Tools and Other Bird Data Resources.

NAME	SEASON(S)
Bald Eagle Haliaeetus leucocephalus http://ecos.fws.gov/ecp/species/1626	Wintering
Bell's Vireo Vireo bellii http://ecos.fws.gov/ecp/species/9507	Breeding
Dickcissel Spiza americana	Breeding
Fox Sparrow Passerella iliaca	Wintering
Harris's Sparrow Zonotrichia querula	Wintering
Hudsonian Godwit Limosa haemastica	Migrating
Lark Bunting Calamospiza melanocorys	Wintering
Le Conte's Sparrow Ammodramus leconteii	Wintering
Least Bittern Ixobrychus exilis http://ecos.fws.gov/ecp/species/6175	Breeding
Little Blue Heron Egretta caerulea	Breeding
Loggerhead Shrike Lanius ludovicianus http://ecos.fws.gov/ecp/species/8833	Year-round
Mccown's Longspur Calcarius mccownii http://ecos.fws.gov/ecp/species/9292	Wintering
Mississippi Kite Ictinia mississippiensis	Breeding
Orchard Oriole Icterus spurius	Breeding
Painted Bunting Passerina ciris	Breeding
Prothonotary Warbler Protonotaria citrea	Breeding
Red-headed Woodpecker Melanerpes erythrocephalus	Year-round
Rufous-crowned Sparrow Aimophila ruficeps http://ecos.fws.gov/ecp/species/9718	Year-round
Rusty Blackbird Euphagus carolinus	Wintering
Scissor-tailed Flycatcher Tyrannus forficatus	Breeding
Short-eared Owl Asio flammeus http://ecos.fws.gov/ecp/species/9295	Wintering

Sprague's Pipit Anthus spragueii Wintering
http://ecos.fws.gov/ecp/species/8964

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

Landbirds:

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the Northeast Ocean Data Portal. The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf. The models resulting from this project are being used in a number of decision-support/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the Northeast Ocean Data Portal, which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

Landbirds:

The Avian Knowledge Network (AKN) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest,survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the Migratory Bird Programs AKN Histogram Tools webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North, Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

Atlantic Seabirds:

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

Facilities

Wildlife refuges

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

THERE ARE NO REFUGES AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

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

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Arlington Ecological Services Field Office
2005 NE GREEN OAKS BLVD, SUITE 140
ARLINGTON, TX 76006
PHONE: (817)277-1100 FAX: (817)277-1129
URL: www.fws.gov/southwest/es/arlingtontexas/;
www.fws.gov/southwest/es/EndangeredSpecies/lists/

Consultation Code: 02ETAR00-2017-SLI-0720 March 01, 2017
Event Code: 02ETAR00-2017-E-01310
Project Name: Loop 9

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

To Whom It May Concern:

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

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under section 7(a)(1) of the Act, Federal agencies are directed to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Under and 7(a)(2) and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether their actions may affect threatened and endangered species and/or designated critical habitat. A Federal action is an activity or program authorized, funded, or carried out, in whole or in part, by a Federal agency (50 CFR 402.02).

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

After evaluating the potential effects of a proposed action on federally listed species, one of the

following determinations should be made by the Federal agency:

1. *No effect* - the appropriate determination when a project, as proposed, is anticipated to have no effects to listed species or critical habitat. A "no effect" determination does not require section 7 consultation and no coordination or contact with the Service is necessary. However, the action agency should maintain a complete record of their evaluation, including the steps leading to the determination of affect, the qualified personnel conducting the evaluation, habitat conditions, site photographs, and any other related information.
2. *May affect, but is not likely to adversely affect* - the appropriate determination when a proposed action's anticipated effects are insignificant, discountable, or completely beneficial. Insignificant effects relate to the size of the impact and should never reach the scale where "take" of a listed species occurs. Discountable effects are those extremely unlikely to occur. Based on best judgment, a person would not be able to meaningfully measure, detect, or evaluate insignificant effects, or expect discountable effects to occur. This determination requires written concurrence from the Service. A biological evaluation or other supporting information justifying this determination should be submitted with a request for written concurrence.
3. *May affect, is likely to adversely affect* - the appropriate determination if any adverse effect to listed species or critical habitat may occur as a direct or indirect result of the proposed action, and the effect is not discountable or insignificant. This determination requires formal section 7 consultation.

The Service recommends that candidate species, proposed species, and proposed critical habitat be addressed should consultation be necessary. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:
http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

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

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (
http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

For additional information concerning migratory birds and eagle conservation plans, please contact the Service's Migratory Bird Office at 505-248-7882.

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

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: Loop 9

Official Species List

Provided by:

Arlington Ecological Services Field Office
2005 NE GREEN OAKS BLVD
SUITE 140
ARLINGTON, TX 76006
(817) 277-1100
http://www.fws.gov/southwest/es/arlingtontexas/
http://www.fws.gov/southwest/es/EndangeredSpecies/lists/

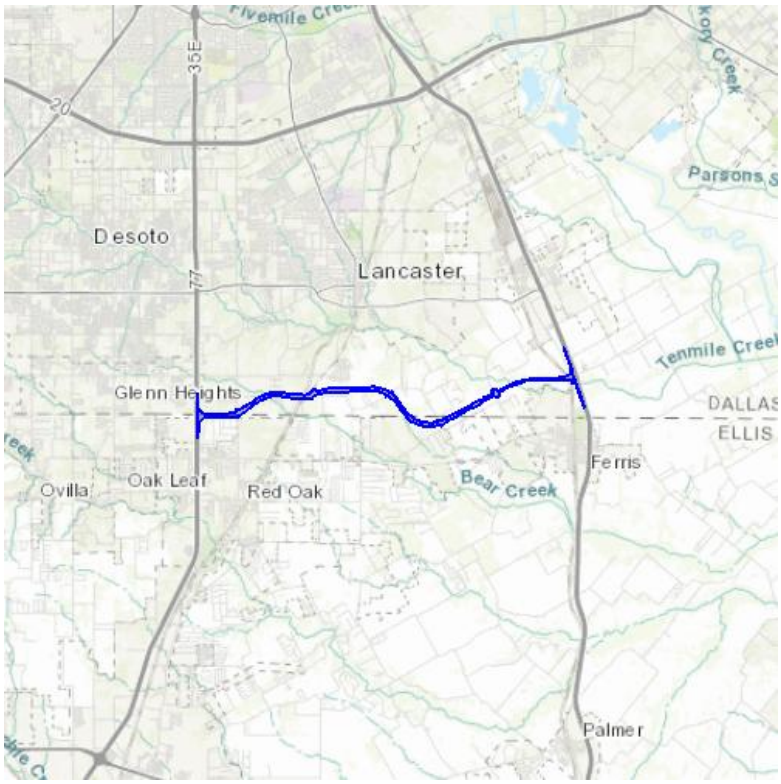
Consultation Code: 02ETAR00-2017-SLI-0720
Event Code: 02ETAR00-2017-E-01310

Project Type: TRANSPORTATION

Project Name: Loop 9
Project Description: Ten mile west to east corridor connecting I-35E and I-45 north of Red Oak and Ferris, Texas. CSJ No. 2964-10-005

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

Project Location Map:



Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Dallas, TX | Ellis, TX

Endangered Species Act Species List

There are a total of 6 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 3 of these species should be considered only under certain conditions. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	Status	Has Critical Habitat	Condition(s)
Black-Capped Vireo *(Vireo atricapilla)* Population: Wherever found	Endangered		
golden-cheeked warbler *(Dendroica chrysoparia)* Population: Wherever found	Endangered		
Least tern *(Sterna antillarum)* Population: interior pop.	Endangered		Wind Energy Projects
Piping Plover *(Charadrius melodus)* Population: except Great Lakes watershed	Threatened	Final designated	Wind Energy Projects
Red Knot *(Calidris canutus rufa)* Population: Wherever found	Threatened		Wind Energy Projects
Whooping crane *(Grus americana)* Population: Wherever found, except where listed as an experimental population	Endangered	Final designated	

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Attachment 3

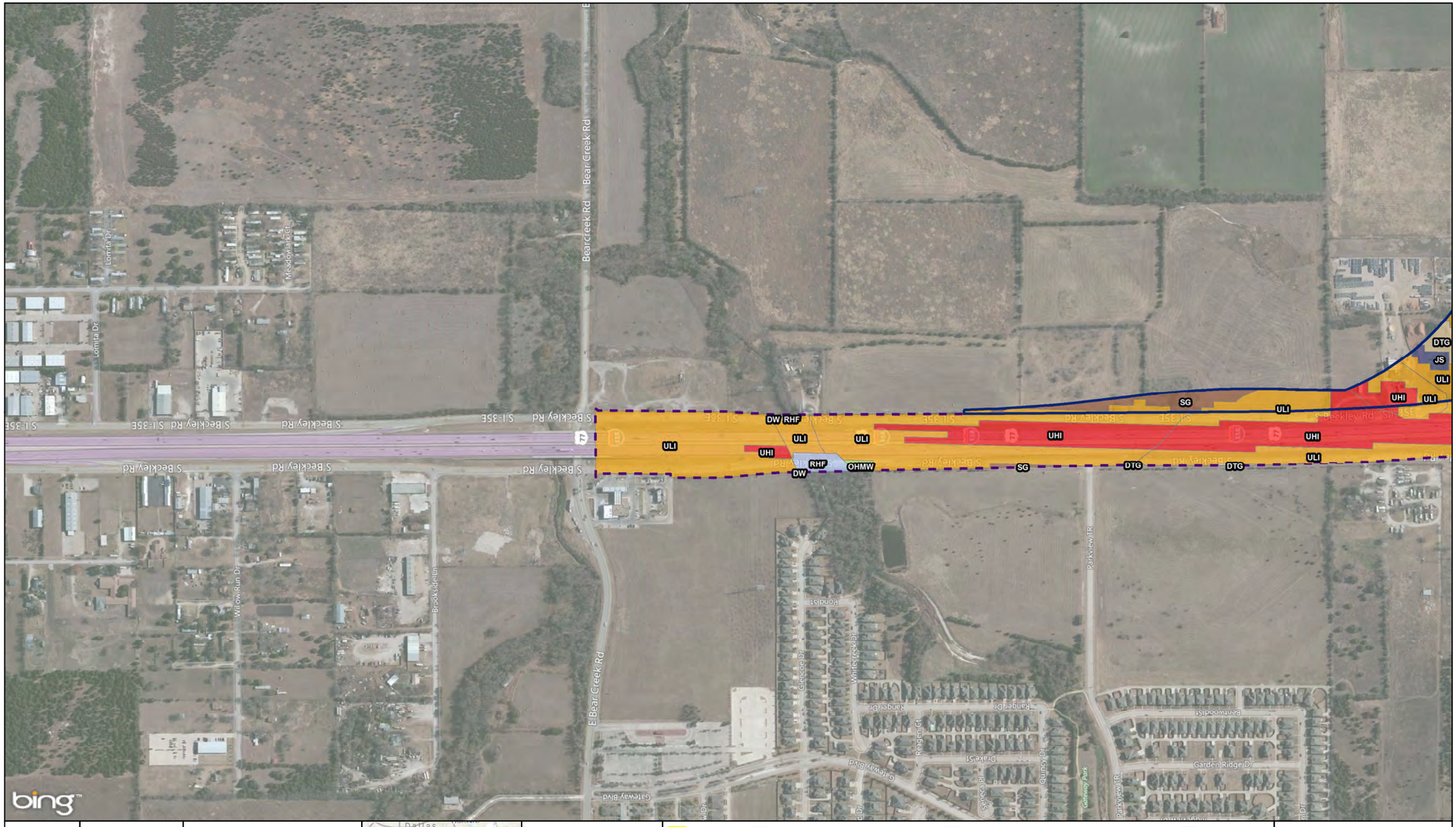
EMST Mapped Vegetation Table
Actual Observed Vegetation Table
Comparison Table of EMST vs Actual Vegetation
Figure 6 – EMST Vegetation Types
Figure 7 – Actual Vegetation Types

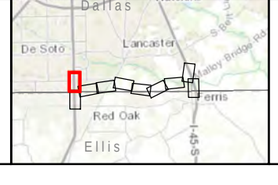
SL 9 Project		
EMST Mapped Vegetation		
Vegetation Community	**MOU Type**	**Acres**
Row Crops	Agriculture	103.82
Row Crops	Agriculture	32.63
Row Crops	Agriculture	15.09
Row Crops	Agriculture	2.51
	Agriculture Total	**154.05**
Blackland Prairie: Disturbance or Tame Grassland	Disturbed Prairie	148.66
Blackland Prairie: Disturbance or Tame Grassland	Disturbed Prairie	46.08
Blackland Prairie: Disturbance or Tame Grassland	Disturbed Prairie	8.59
Native Invasive: Deciduous Woodland	Disturbed Prairie	25.34
Native Invasive: Deciduous Woodland	Disturbed Prairie	11.65
Native Invasive: Deciduous Woodland	Disturbed Prairie	31.09
Native Invasive: Juniper Shrubland	Disturbed Prairie	0.21
Native Invasive: Juniper Shrubland	Disturbed Prairie	0.38
Native Invasive: Mesquite Shrubland	Disturbed Prairie	1.15
Native Invasive: Mesquite Shrubland	Disturbed Prairie	0.86
Native Invasive: Mesquite Shrubland	Disturbed Prairie	0.03
	Disturbed Prairie Total	**274.04**
Central Texas: Floodplain Hardwood Forest	Floodplain	0.12
Central Texas: Floodplain Hardwood Forest	Floodplain	33.01
Central Texas: Floodplain Hardwood Forest	Floodplain	14.35
Central Texas: Floodplain Herbaceous Vegetation	Floodplain	5.62
Central Texas: Floodplain Herbaceous Vegetation	Floodplain	15.22
	Floodplain Total	**68.32**
Central Texas: Riparian Deciduous Shrubland	Riparian	0.07
Central Texas: Riparian Hardwood / Evergreen Forest	Riparian	0.03
Central Texas: Riparian Hardwood / Evergreen Forest	Riparian	1.96
Central Texas: Riparian Hardwood / Evergreen Forest	Riparian	0.55

Central Texas: Riparian Hardwood Forest	Riparian	4.53
Central Texas: Riparian Hardwood Forest	Riparian	0.90
Central Texas: Riparian Herbaceous Vegetation	Riparian	3.49
Central Texas: Riparian Herbaceous Vegetation	Riparian	0.34
Central Texas: Riparian Herbaceous Vegetation	Riparian	0.20
Central Texas: Riparian Herbaceous Vegetation	Riparian	0.00
	Riparian Total	**12.07**
Edwards Plateau: Deciduous Oak / Evergreen Motte and Woodland	Edwards Plateau Savannah, Woodland, and Shrubland	1.83
Edwards Plateau: Oak / Hardwood Motte and Woodland	Edwards Plateau Savannah, Woodland, and Shrubland	6.10
Edwards Plateau: Savanna Grassland	Edwards Plateau Savannah, Woodland, and Shrubland	16.73
	Edwards Plateau Savannah, Woodland, and Shrubland Total	**24.66**
Swamp	Wet Savanna, Swamp, Baygall	0.33
	Wet Savanna, Swamp, Baygall Total	**0.33**
Urban High Intensity	Urban	5.55
Urban High Intensity	Urban	4.71
Urban High Intensity	Urban	13.71
Urban High Intensity	Urban	4.31
Urban Low Intensity	Urban	28.88
Urban Low Intensity	Urban	23.23
Urban Low Intensity	Urban	56.45
Urban Low Intensity	Urban	20.09
Urban Low Intensity	Urban	36.62
	Urban Total	**193.55**
	Total Acreage	**727.02**

SH 9 Project		
Actual Observed Vegetation		
Vegetation Community	**MOU Type**	**Acres**
Row Crops	Agriculture	229.00
Azonal Barren	Agriculture	1.10
	Agricultural Total	**230.10**
Blackland Prairie: Disturbance or Tame Grassland	Disturbed Prairie	179.15
Native Invasive: Deciduous Woodland	Disturbed Prairie	24.68
Native Invasive: Juniper Shrubland	Disturbed Prairie	0.08
	Disturbed Prairie Total	**203.91**
Central Texas: Floodplain Hardwood Forest	Floodplain	19.70
Central Texas: Floodplain Herbaceous Vegetation	Floodplain	16.97
	Floodplain Total	**36.67**
Central Texas: Riparian Deciduous Shrubland	Riparian	0.01
Central Texas: Riparian Hardwood / Evergreen Forest	Riparian	30.59
Central Texas: Riparian Hardwood Forest	Riparian	4.21
Central Texas: Riparian Herbaceous Vegetation	Riparian	3.55
Open Water	Riparian	0.96
	Riparian Total	**39.32**
Edwards Plateau: Deciduous Oak / Evergreen Motte and Woodland	Edwards Plateau Savannah, Woodland, and Shrubland	4.16
Edwards Plateau: Oak / Hardwood Motte and Woodland	Edwards Plateau Savannah, Woodland, and Shrubland	0.00
Edwards Plateau: Savanna Grassland	Edwards Plateau Savannah, Woodland, and Shrubland	0.04
	Edwards Plateau Savannah, Woodland, and Shrubland Total	**4.20**
Urban High Intensity	Urban	59.13
Urban Low Intensity	Urban	153.69
	Urban Total	**212.82**
	Total Acreage	**727.02**

SL 9 Project		
Comparison Table of EMST vs Actual Vegetation Types		
MOU Type	**EMST (acres)**	**Actual (acres)**
Agriculture	154.05	230.10
Disturbed Prairie	274.04	203.91
Floodplain	68.32	36.67
Riparian	12.07	39.31
Edwards Plateau Savannah, Woodland, and Shrubland	24.66	4.21
Wet Savanna, Swamp, Baygall	0.33	0.00
Urban	193.55	212.82
TOTAL	**727.02**	**727.02**





0 0.05 0.1
Miles

0 250 500
Feet

Proposed Easement
Proposed ROW
Construction Limits

Azonal Barren (AZ)
Blackland Prairie: Disturbance or Tame Grassland (DTG)
Central Texas: Floodplain Hardwood Forest (FHF)
Central Texas: Floodplain Herbaceous Vegetation (FHV)
Central Texas: Riparian Deciduous Shrubland (RDS)
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Edwards Plateau: Savanna Grassland (SG)
Native Invasive: Deciduous Woodland (DW)
Native Invasive: Juniper Shrubland (JS)
Native Invasive: Mesquite Shrubland (MS)
Open Water (OW)
Row Crops (RC)
Swamp (S)
Urban High Intensity (UHI)
Urban Low Intensity (ULI)

EMST data source: TPWD, 2014

Dallas and Ellis Counties

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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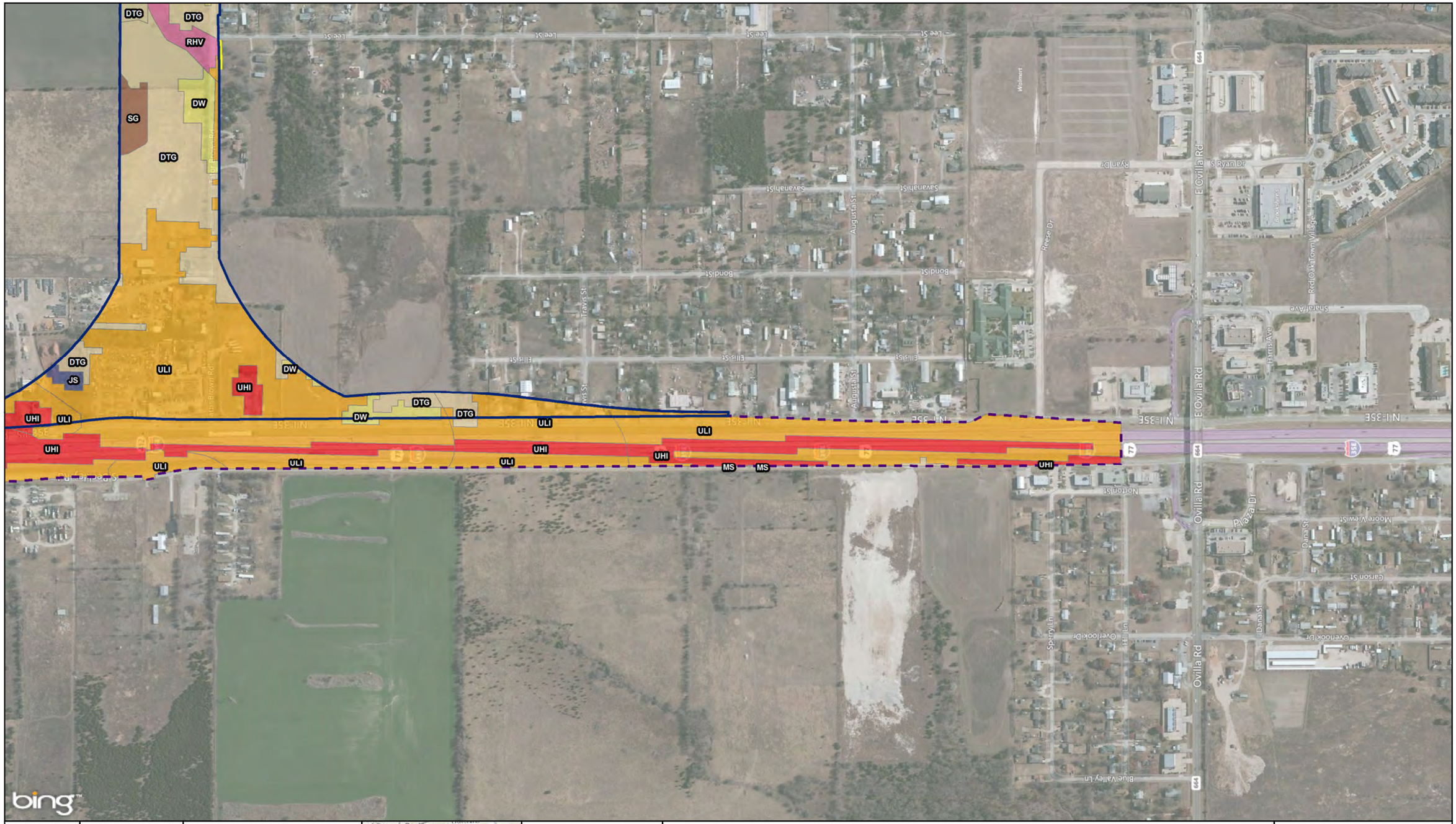

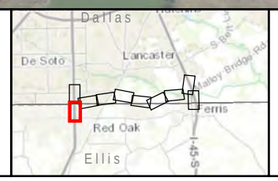

Dallas and Ellis Counties

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Miles

0 250 500
Feet

- Proposed Easement
- Proposed ROW
- Construction Limits
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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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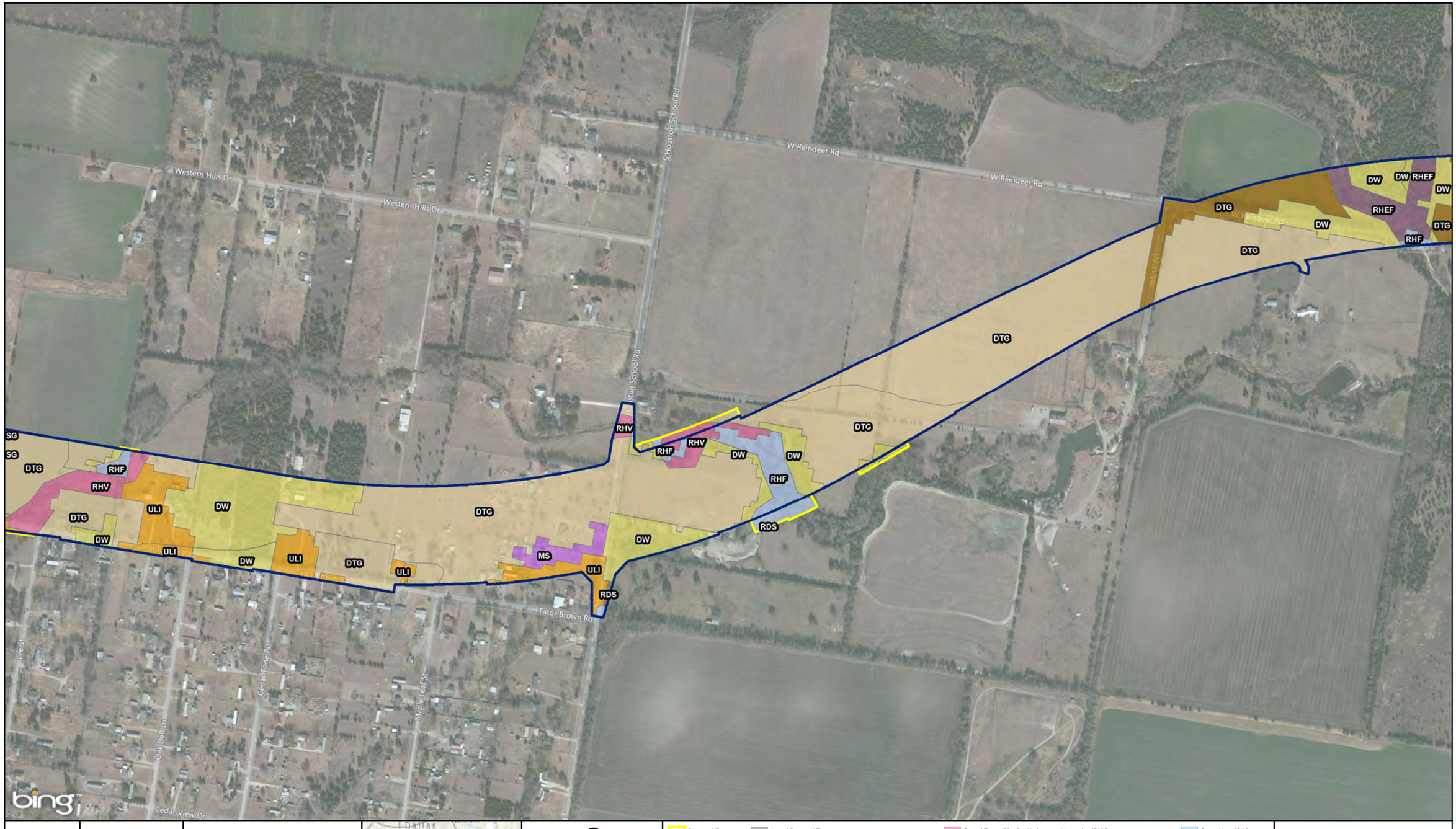

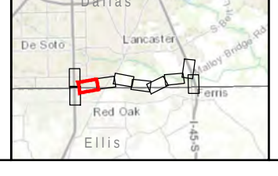

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Miles

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Feet

- Proposed Easement
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EMST data source: TPWD, 2014

Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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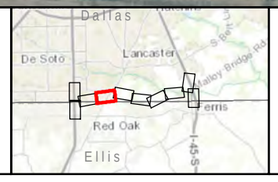

Dallas and Ellis Counties

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Miles

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Feet

- Proposed Easement
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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 4 of 10

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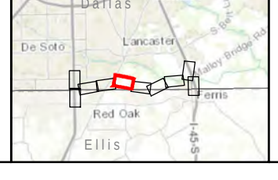

Dallas and Ellis Counties

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Miles

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Feet

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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 5 of 10

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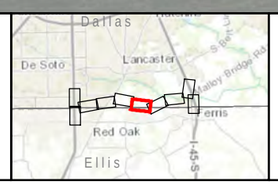
Date: 3/28/2017

Dallas and Ellis Counties



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Miles

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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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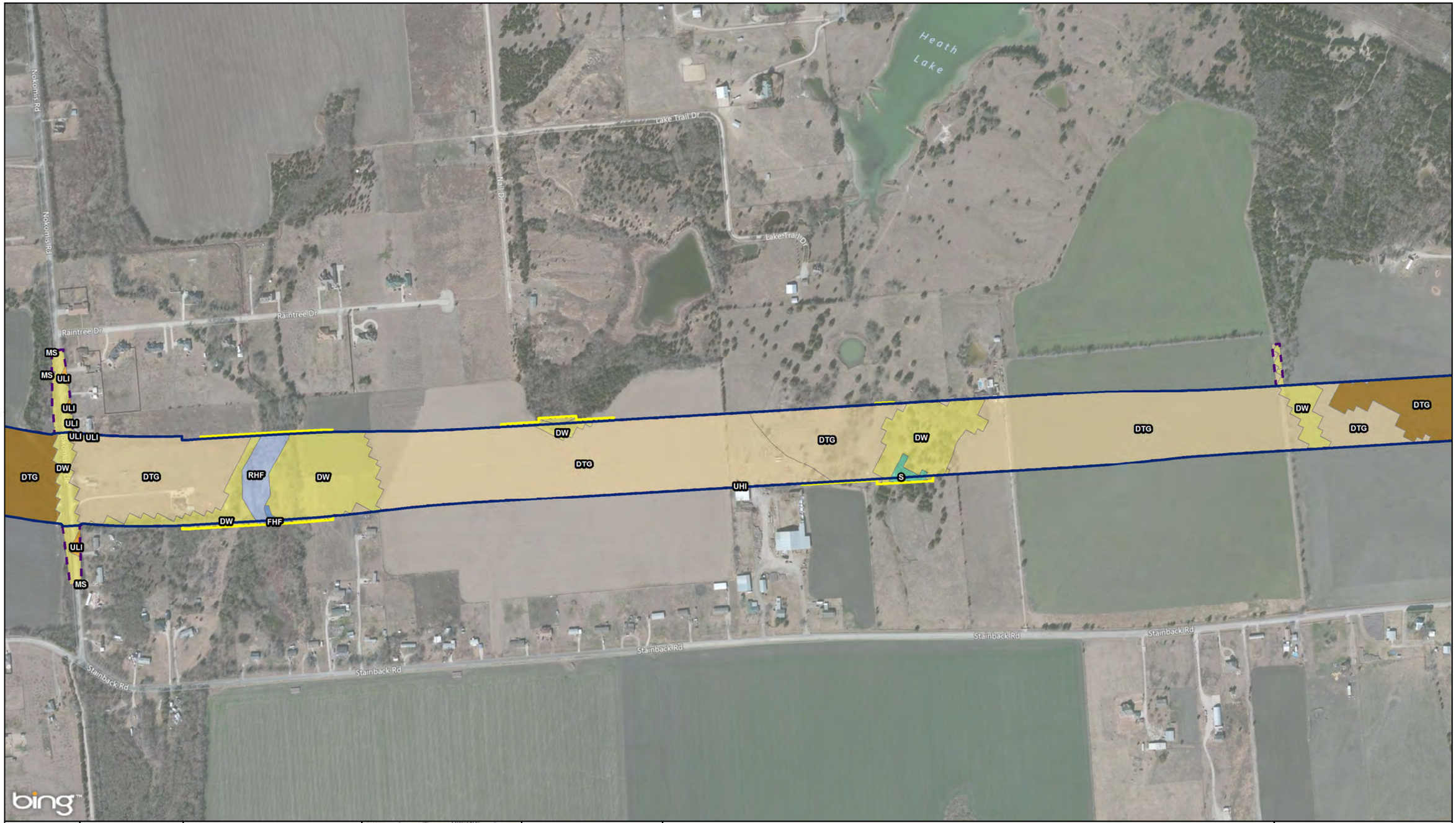

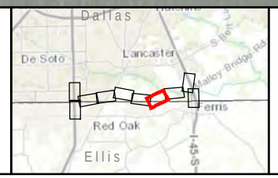

Dallas and Ellis Counties

0 0.05 0.1
Miles

0 250 500
Feet

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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 7 of 10

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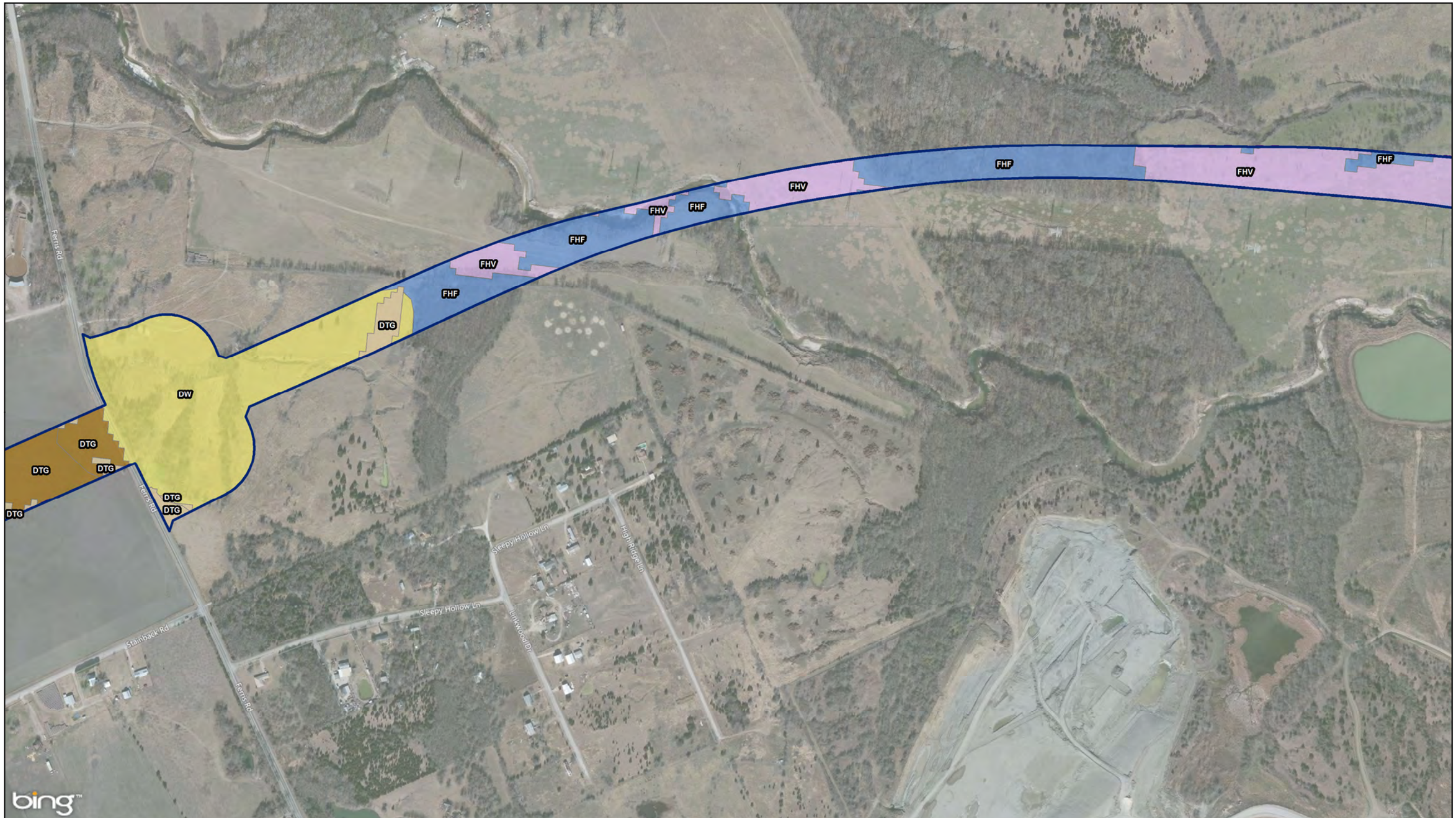

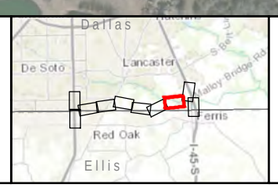

Dallas and Ellis Counties

0 0.05 0.1
Miles

0 250 500
Feet

Proposed Easement
Proposed ROW
Construction Limits

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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 8 of 10

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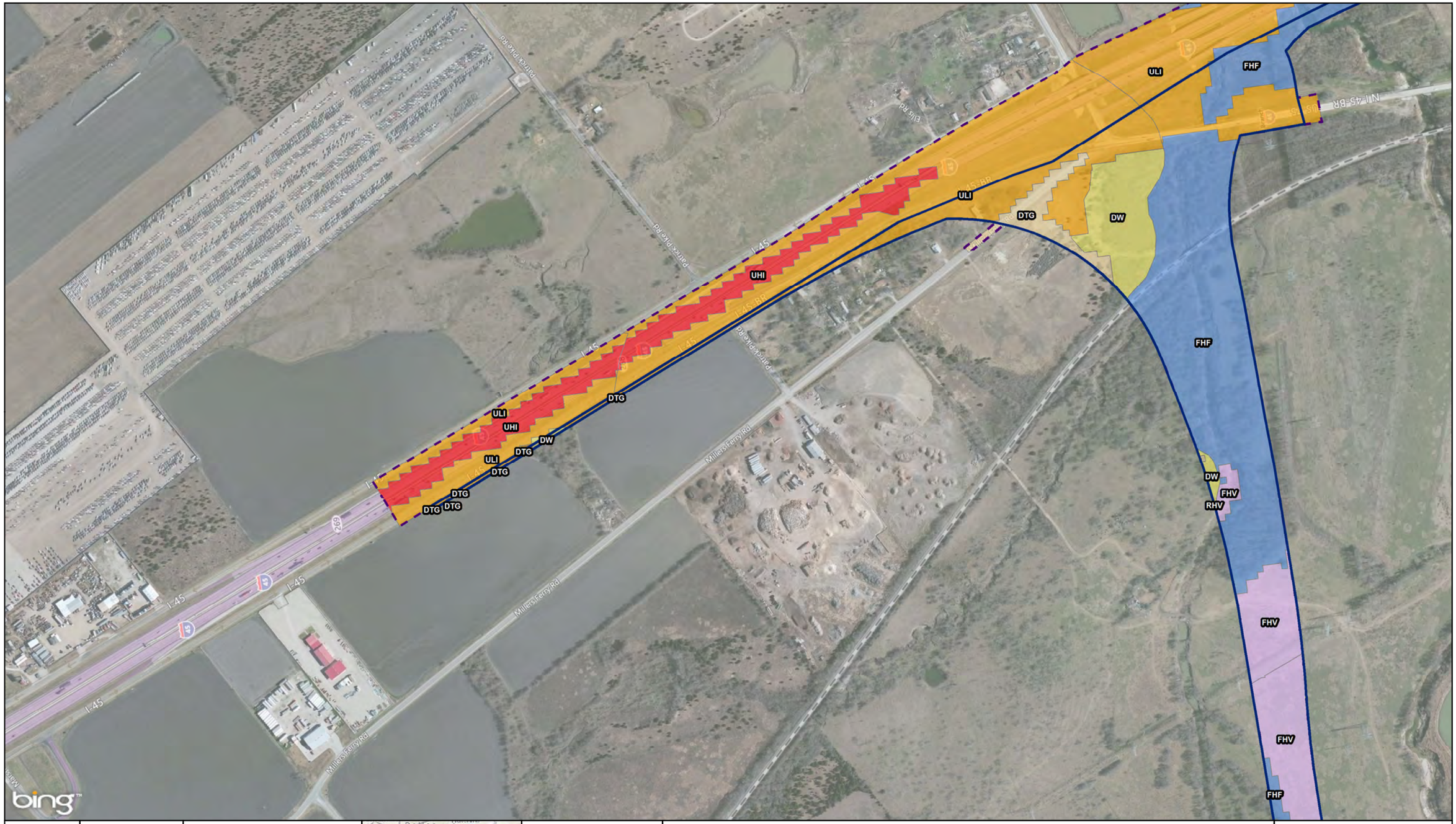

Dallas and Ellis Counties

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Miles

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Feet

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EMST data source: TPWD, 2014

Figure 6
Ecological Mapping System of Texas (EMST) Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

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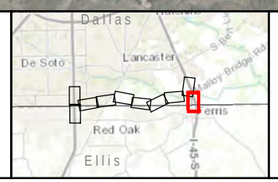
Date: 3/28/2017

Loop 9 SOUTHEAST	Texas Department of Transportation	**Dallas and Ellis Counties**		0 0.05 0.1 Miles 0 250 500 Feet	Proposed Easement Proposed ROW Construction Limits Azonal Barren (AZ) Blackland Prairie: Disturbance or Tame Grassland (DTG) Central Texas: Floodplain Hardwood Forest (FHF) Central Texas: Floodplain Herbaceous Vegetation (FHV) Central Texas: Riparian Deciduous Shrubland (RDS) Central Texas: Riparian Hardwood / Evergreen Forest (RHEF) Central Texas: Riparian Hardwood Forest (RHF) Central Texas: Riparian Herbaceous Vegetation (RHV) Edwards Plateau: Deciduous Oak / Evergreen Motte and Woodland (DOEMW) Edwards Plateau: Oak / Hardwood Motte and Woodland (OHMW) Edwards Plateau: Savanna Grassland (SG) Native Invasive: Deciduous Woodland (DW) Native Invasive: Juniper Shrubland (JS) Native Invasive: Mesquite Shrubland (MS) Open Water (OW) Row Crops (RC) Swamp (S) Urban High Intensity (UHI) Urban Low Intensity (ULI) EMST data source: TPWD, 2014	**Figure 6** **Ecological Mapping System of Texas (EMST) Vegetation Types** **Loop 9: From I-35E to I-45** **Dallas and Ellis Counties, Texas** **CSJ: 2964-10-005** Sheet 10 of 10

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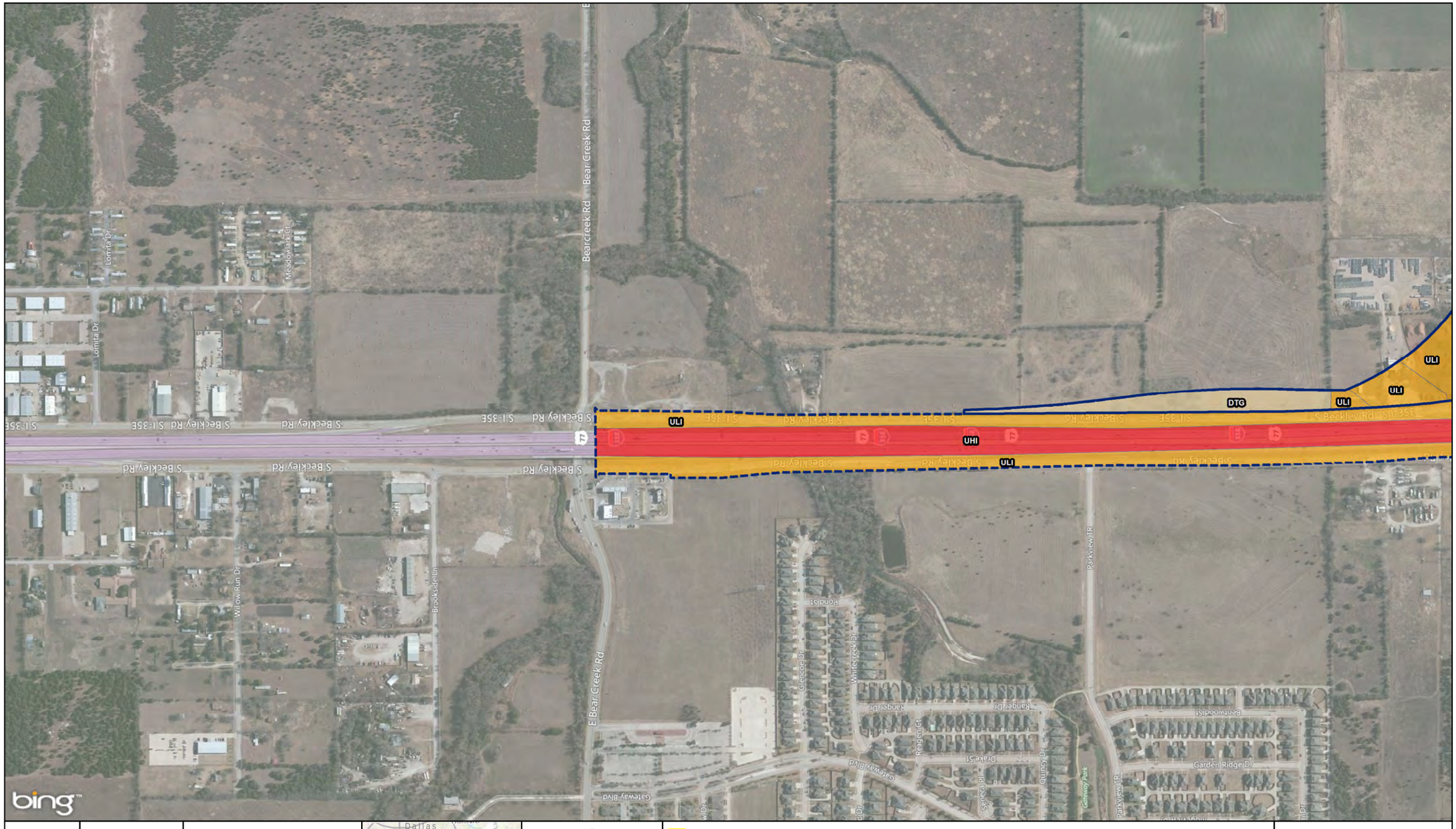

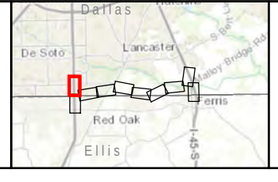

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Miles

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Feet

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Dallas and Ellis Counties

Figure 7
Actual Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 1 of 10

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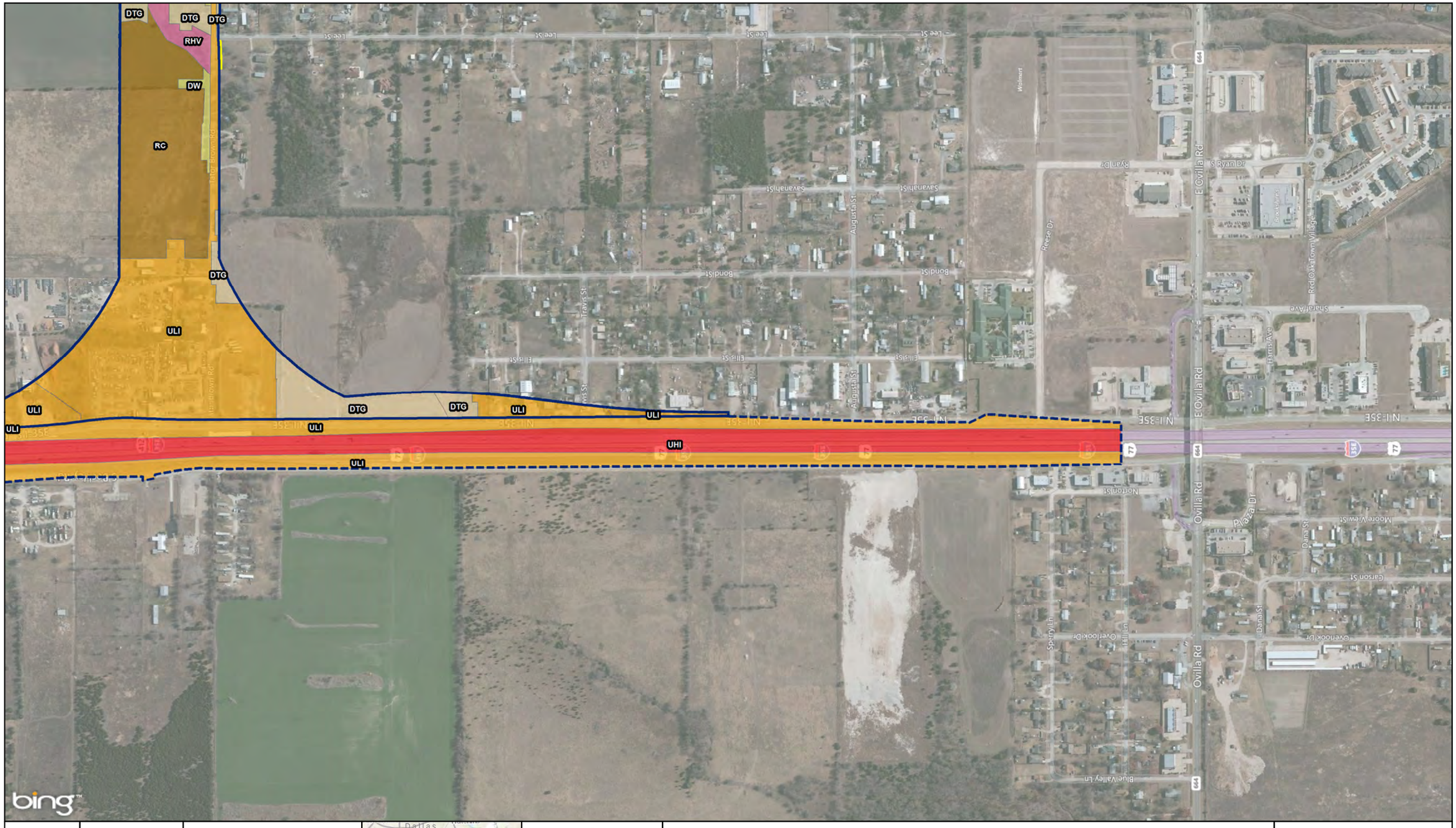
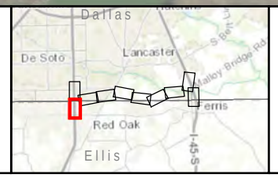


Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties



0 0.05 0.1
Miles

0 250 500
Feet

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Figure 7
Actual Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 2 of 10

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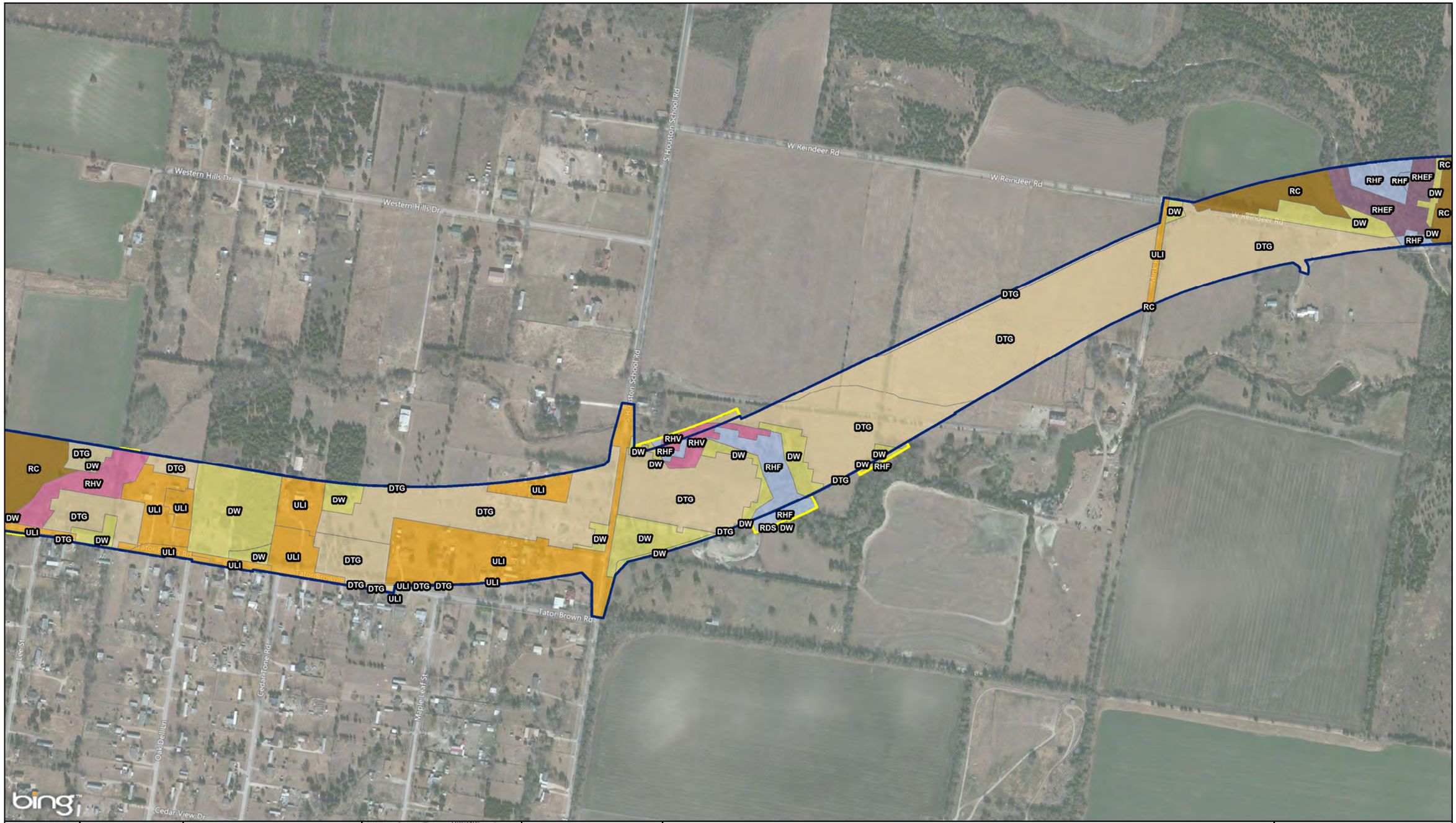

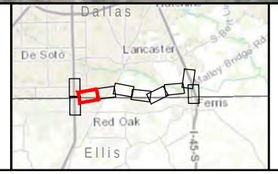

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Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties

Figure 7
Actual Vegetation Types

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 3 of 10

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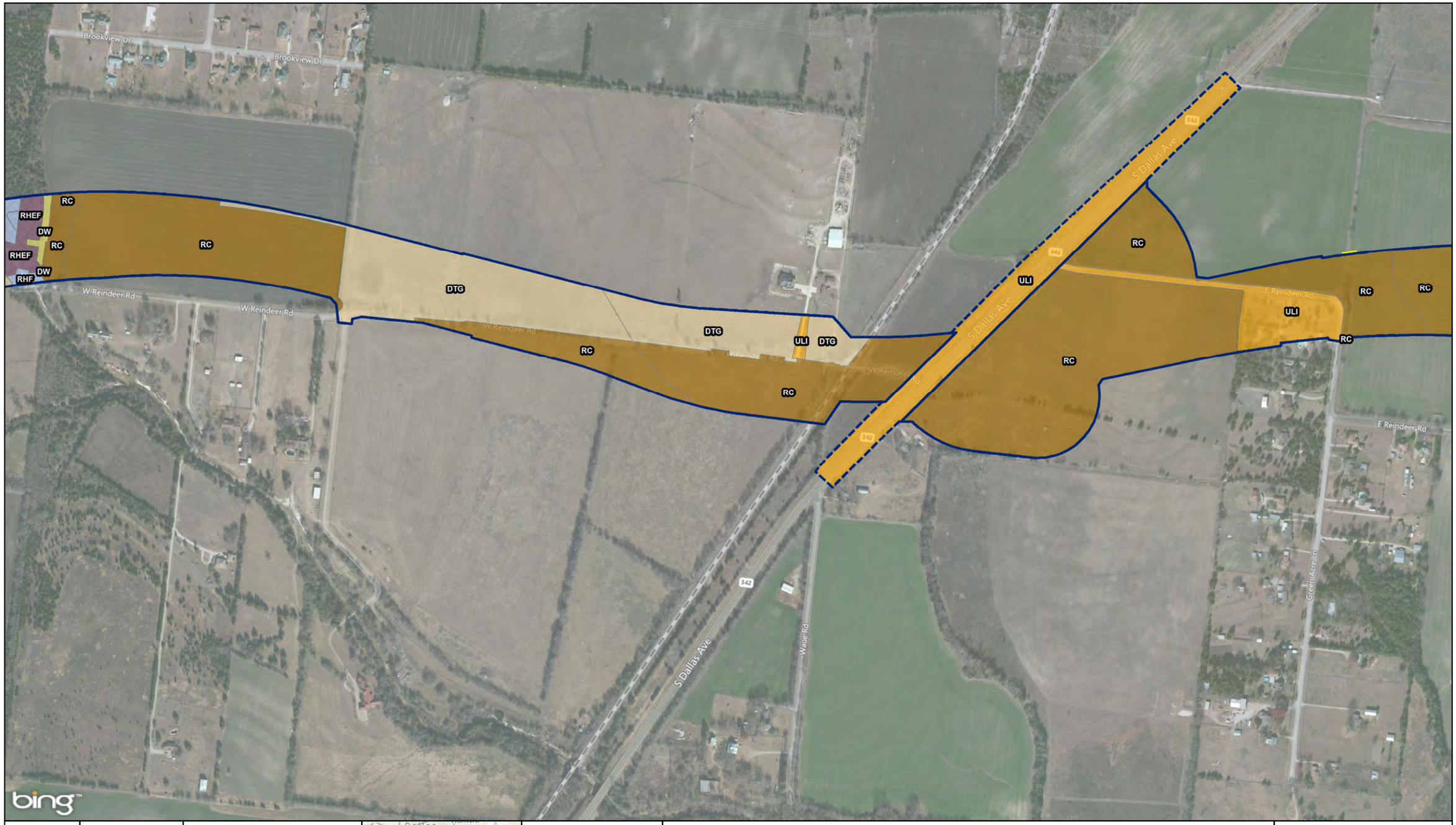

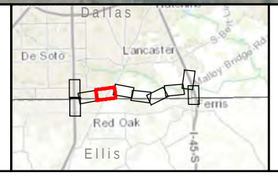

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- Proposed ROW
- Construction Limits
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Dallas and Ellis Counties

Figure 7
Actual Vegetation Types

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CSJ: 2964-10-005

Sheet 4 of 10

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Dallas and Ellis Counties

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Sheet 5 of 10

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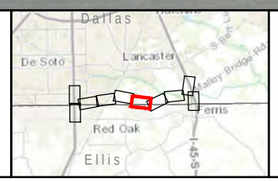

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Dallas and Ellis Counties

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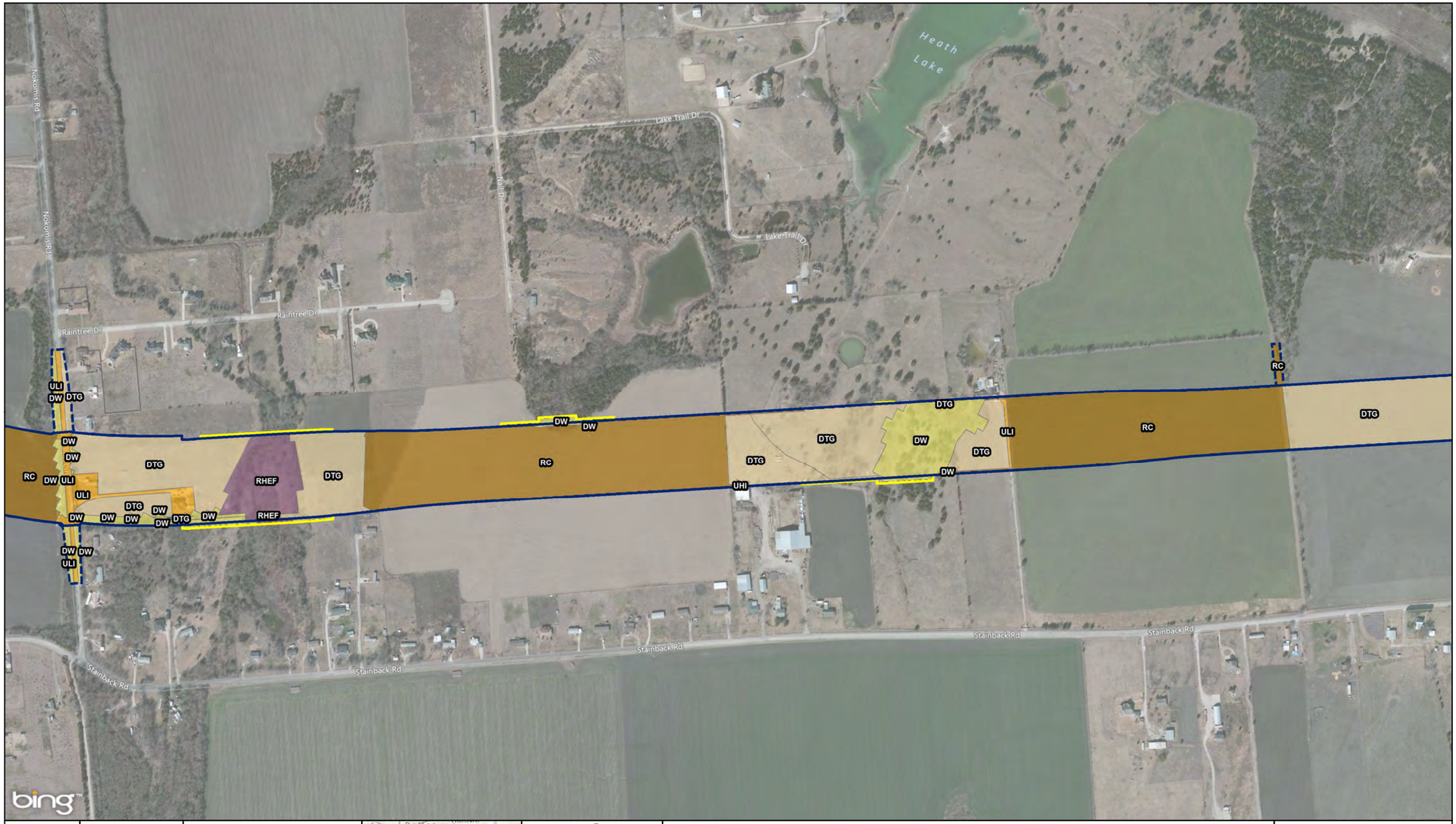

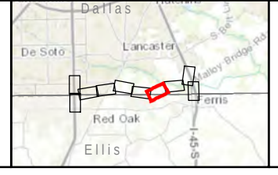

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Texas Department of Transportation

Dallas and Ellis Counties

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Sheet 7 of 10

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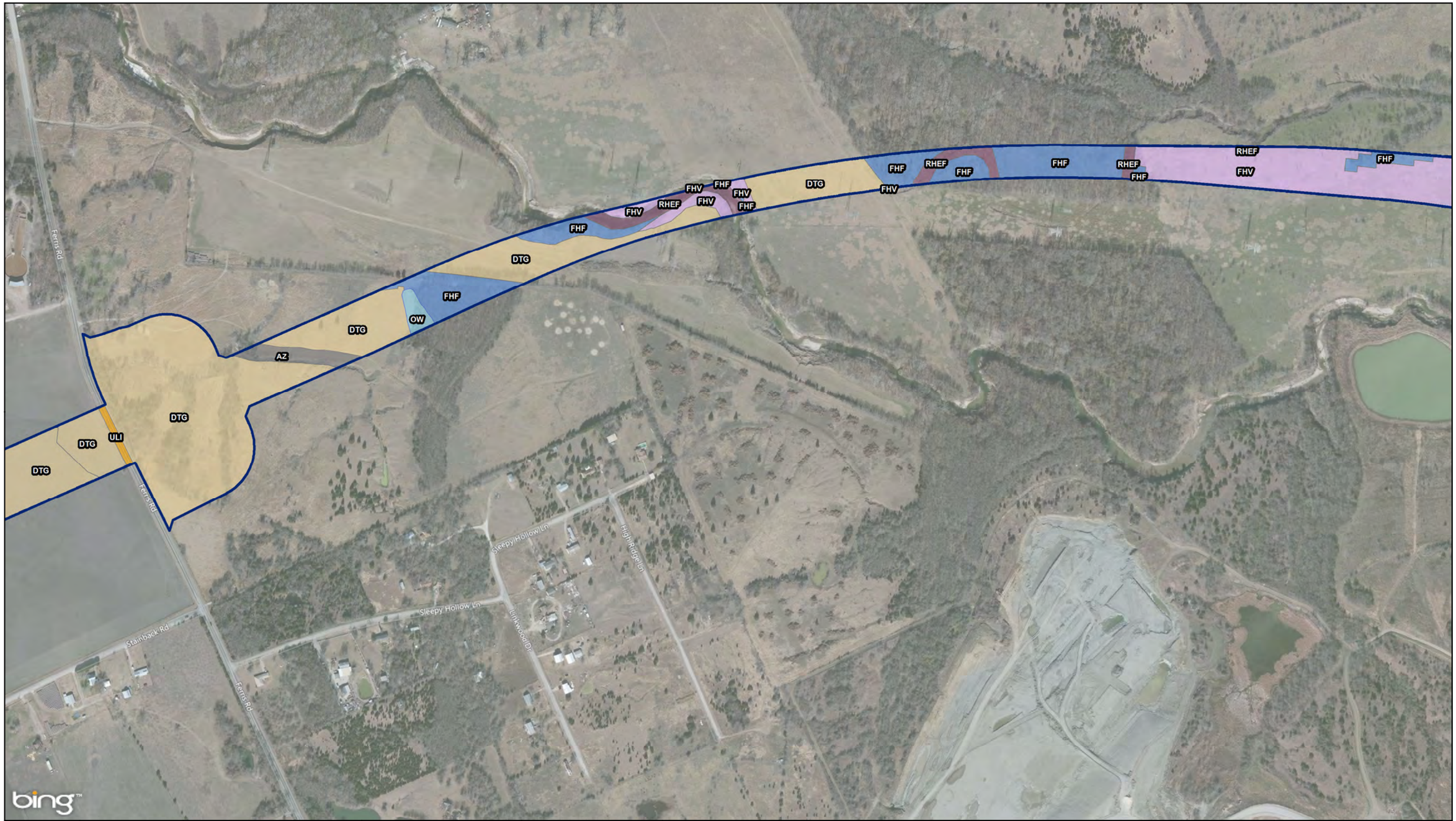

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Texas Department of Transportation

Dallas and Ellis Counties

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Sheet 8 of 10

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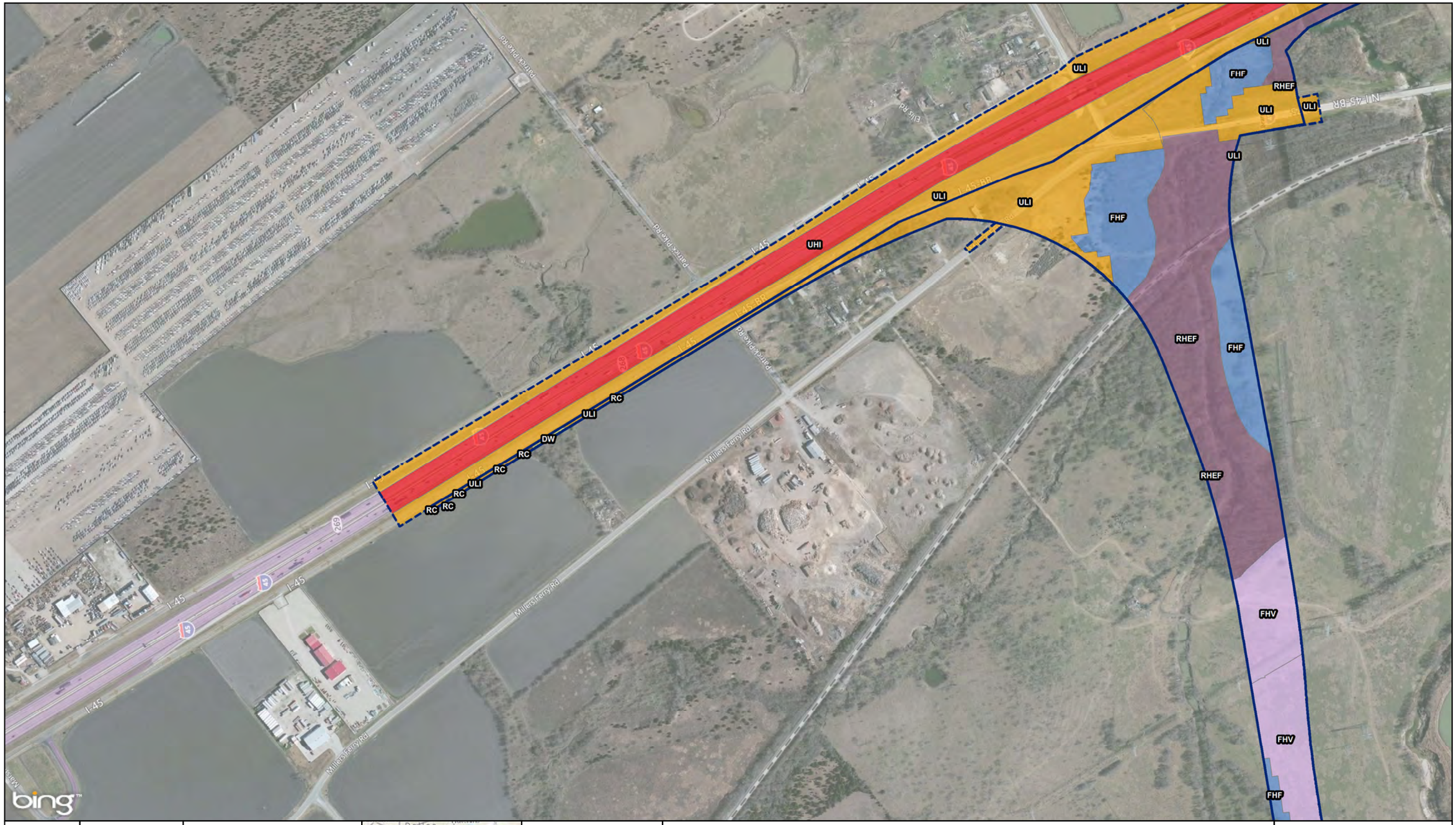
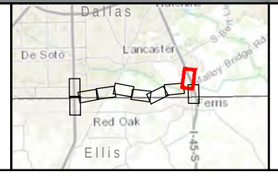


Dallas and Ellis Counties



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Sheet 9 of 10

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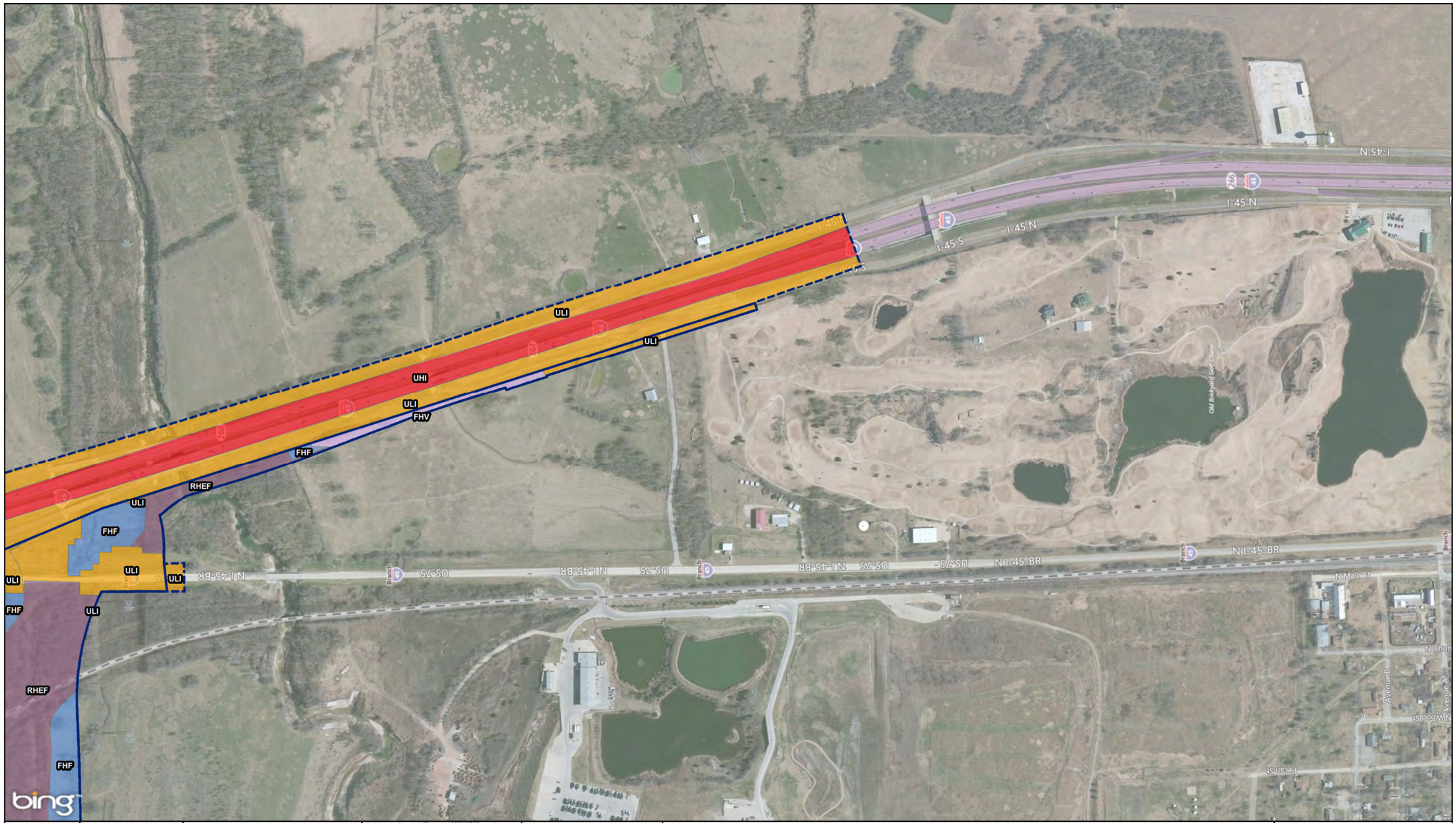

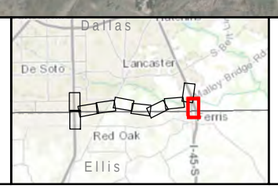

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Sheet 10 of 10

N:\Clients\S_T\TxDOT\Loop_9\geo\figs\Biology Technical Report Maps 20170323\07_Vegetation_Actual.mxd

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Attachment 4

Representative Project Area Photographs

Photograph 1: Typical Row Crops vegetation community within or adjacent to the proposed project area (initially mapped as Blackland Prairie: Disturbance or Tamed Grassland via EMST).

Photograph 2: Typical Blackland Prairie: Disturbance or Tame Grassland vegetation community within or adjacent to the proposed project area (initially mapped as Central Texas: Floodplain Herbaceous Vegetation via EMST).

Photograph 3: Typical Urban Low Intensity vegetation community within or adjacent to the proposed project area (initially mapped as Blackland Prairie Disturbance or Tame Grassland via EMST).

Photograph 4: Typical Central Texas: Riparian Hardwood / Evergreen Forest vegetation community within or adjacent to the proposed project area (initially mapped as Urban Low Intensity via EMST).

Photograph 5: Typical Native Invasive: Deciduous Woodland vegetation community within or adjacent to the proposed project area (initially mapped as Urban Low Intensity via EMST).

Photograph 6: Typical Central Texas: Floodplain Hardwood Forest vegetation community within or adjacent to the proposed project area (initially mapped as Native Invasive: Deciduous Woodland via EMST).

Photograph 7: Typical Central Texas: Floodplain Herbaceous Vegetation community within or adjacent to the proposed project area (initially mapped as Urban Low Intensity via EMST).

Photograph 8: Typical Central Texas: Riparian Hardwood Forest vegetation community within or adjacent to the proposed project area (initially mapped as Native Invasive: Deciduous Woodland via EMST).

Photograph 9: Typical Native Invasive: Juniper Shrubland vegetation community within or adjacent to the proposed project area (initially mapped as Native Invasive: Juniper Shrubland via EMST).

Photograph 10: Typical Open Water vegetation community within or adjacent to the proposed project area (initially mapped as Edwards Plateau: Savanna Grassland via EMST).

Photograph 11: Typical Central Texas: Riparian Deciduous Shrubland vegetation community within or adjacent to the proposed project area (initially mapped as Native Invasive: Deciduous Woodland via EMST).

Photograph 12: Typical Central Texas: Riparian Herbaceous Vegetation vegetation community within or adjacent to the proposed project area (initially mapped as Central Texas: Floodplain Herbaceous Vegetation via EMST).

Photograph 13: Typical Azonal: Barren vegetation community within or adjacent to the proposed project area (initially mapped as Native Invasive: Deciduous Woodland via EMST).

Photograph 14: Mature oak-juniper stands with associated early successional vegetation community.

Photograph 15: Mature oak-juniper stands with associated early successional vegetation community.

Photograph 16: Suitable habitat for interior least tern within or adjacent to the proposed project area showing a section of Tenmile Creek with shallow water and exposed sandbars.

Photograph 17: Suitable habitat for interior least tern within or adjacent to the proposed project area showing a section of Tenmile Creek with shallow water and exposed sandbars.

Photograph 18: Recorded habitat for Hall's prairie clover within the proposed project area showing grasslands on eroded limestone or chalk near oak scrubland.

Photograph 19: Specimens of Hall's Prairie Clover (*Dalea hallii*) located on limestone outcroppings within the proposed project area adjacent to the Riparian Hardwood/Evergreen Forest vegetation type.

Photograph 20: Specimens of Hall's Prairie Clover (*Dalea hallii*) located on limestone outcroppings within the proposed project area adjacent to the Riparian Hardwood/Evergreen Forest vegetation type.

Photo 21: Farmland with oak-juniper forest in the background, facing northwest from W. Reindeer Rd. Eastern redcedar (*Juniperus virginiana*) is identifiable in the foreground.

Photo 22: Oak-juniper forest, facing west from Brookview Drive. Eastern redcedar is the dominant species at this location, and the only juniper species observed.

Photo 23: Farmland with oak-juniper forest in the background, viewed facing northwest from E. Reindeer Rd. Eastern redcedar is present only as an understory component at this location.

Photo 24: Farmland with oak-juniper forest in the background, viewed facing northwest from E. Reindeer Rd. Eastern redcedar is present only as an understory component at this location and appears to be mainly young trees along the forest margin.

Photo 25: Oak-juniper forest viewed from Dallas Avenue near Malloy Bridge Rd, facing southwest. Eastern redcedar present along the forest margin.

Photo 26: Oak forest viewed from North Central Street, south of Malloy Bridge Road, facing west.

Photo 27: Oak forest habitat, facing northwest from North Central Street just north of the electric transmission line crossing.

Photo 28: Eastern redcedar samples taken during field surveys. Samples were positively identified as eastern redcedar.

Attachment 5

Texas Natural Diversity Database EOID List and Results

State Loop 9 Project – TXNDD EOID List				
EOID Number	**Common Name**	**Species Name**	**Listing Status**	**Buffer Zone**
11074	*Dalea hallii*	Hall's Prairie Clover	SGCN	1.5 miles
3327	*Vireo atricapilla*	Black-capped Vireo	FE	10 miles
3734	*Vireo atricapilla*	Black-capped Vireo	FE	10 miles
3522	*Vireo atricapilla*	Black-capped Vireo	FE	10 miles
7284	*Sterna antillarum athalassos*	Interior Least Tern	FE	10 miles
2874	*Sterna antillarum athalassos*	Interior Least Tern	FE	10 miles
12360	*Pleurobema riddellii*	Louisiana Pigtoe	ST	10 miles
10990	*Dalea hallii*	Hall's Prairie Clover	SGCN	10 miles
5234	*Hexalectris warnockii*	Warnock's Coral-root	SGCN	10 miles
4082	*Hexalectris nitida*	Glass Mountains Coral-root	SGCN	10 miles
10140	*Matelea edwardsensis*	Plateau Milkvine	SGCN	10 miles
11920	*NA*	Vertisol Blackland Prairie	NA	10 miles
11919	*NA*	Vertisol Blackland Prairie	NA	10 miles
11918	*NA*	Vertisol Blackland Prairie	NA	10 miles
843	*NA*	Cedar Elm-Sugarberry Forest	NA	10 miles
4433	*NA*	Ashe Juniper-Oak Woodland	NA	10 miles
3061	*NA*	Little Bluestem-Indiangrass Grassland	NA	10 miles
588	*NA*	Little Bluestem-Indiangrass Grassland	NA	10 miles
6868	*NA*	Colonial Wading Bird Colony	NA	10 miles
7930	*NA*	Colonial Wading Bird Colony	NA	10 miles
561	*NA*	Colonial Wading Bird Colony	NA	10 miles
1439	*NA*	Colonial Wading Bird Colony	NA	10 miles

From: Texas Natural Diversity Database
To: Barton, Jonathan M
Subject: RE: TXNDD Request - Dallas, Ellis, and Kaufman Counties

Dear Jonathan,

The Texas Natural Diversity Database (TXNDD) staff provides the following information in response to your request for data. Please read this entire message for important information regarding your request, additional data sources, and project review.

Data
The TXNDD includes federal and state listed and tracked Threatened, Endangered, and Rare species. Please note that areas where Element Occurrence (EO) data are absent should not be interpreted as an absence of Threatened, Endangered, and Rare species. Given the small proportion of public versus private land in Texas, the TXNDD does not include a representative inventory of rare resources in the state. Data from the TXNDD do not provide a definitive statement as to the presence, absence, or condition of special species, natural communities, or other significant features within your project area. These data cannot substitute for an on-site evaluation by qualified biologists.

Attached documents
The attached .zip file contains several documents that will guide you in appropriate use, restrictions, and interpretation of TXNDD data as well as a reporting form for submitting data to the TXNDD. The .zip file also includes additional supplemental documents. Below is a list of the files in the attached folder:

* Shapefile (eo_[last name of requestor]_yyyymmdd.zip) of the Threatened, Endangered and Rare species Element Occurrences made from information the TXNDD presently has available for the requested quad(s) (or within the requested county/by requested species when applicable).

* EO Report (eoreport_[last name of requestor]_yyyymmdd.pdf) of the EOs in the shapefile mentioned above. The EO Report includes more detailed information about each EO than what is contained in the attribute table of the shapefile. Link the information in the shapefile to the information in the EO Report by EO ID. Note that if the number of records in your request area is large, this report may not be included; however, if, in this circumstance, you would like more detailed information about a particular EO, species, or smaller geographic area, you may request those data.

* EO List (eolist_[last name of requestor]_yyyymmdd.pdf) for those requests made by USGS 7.5 minute quadrangles. The EO List is a list of species for which we have records in the database in the USGS 7.5 minute quadrangles surrounding your request area The EO List is to inform you of

federal and state listed and tracked Threatened, Endangered, and Rare species in the area. Note
that the EO list is not included in county requests.

* County List FAQ (County_lists_FAQ_20150415.pdf) produced by the Wildlife Habitat Assessment
Program provides information about the County List Application.

* TXNDD Information document (txndd_information.docx) that includes a background of the
TXNDD, a description of past and current spatial methodology employed, and an explanation of
correct interpretation of the data. Global and subnational (state) conservation ranks are also
explained in this document as are the shapefile attributes and EO report sections.

* TXNDD Reporting Form (txndd_reporting_form.doc) for reporting observations of tracked
elements to the Texas Natural Diversity Database. To submit data, fill out this form and send it
to TexasNatural.DiversityDatabase@tpwd.texas.gov. Note that you can also submit data in the
form of an Excel spreadsheet or written report.

Project Review, Rare Species County Lists, Project Planning, and BMPs
This email cannot substitute for an environmental review of your project by TPWD. For information on
project review and to access the county lists of protected species and species of greatest conservation
need with potential to occur in the county, please visit the Wildlife Habitat Assessment (WHAB) website
at http://tpwd.texas.gov/huntwild/wild/wildlife_diversity/habitat_assessment/. The WHAB website
includes several resources to consider while planning your project to minimize impacts to fish and
wildlife resources, including information /guidelines on Wind Energy projects, Transmission Line
projects, Communication Towers, and Karst Zones (Travis, Williamson, and Bexar Counties).

Ecologically Significant Stream Segments
If your information request area contains known ecologically significant stream segments, the data can
be obtained at
http://tpwd.texas.gov/landwater/water/conservation/water_resources/water_quantity/sigsegs/index.phtml

Critical Habitat
If your information request area contains federally designated critical habitat, the data can be obtained
at http://ecos.fws.gov/crithab/.

TPWD Managed Areas
We are no longer providing Managed Area shapefiles and associated Managed Area Reports. To obtain
shapefiles for Wildlife Management Areas and State Park Boundaries, please visit the Texas Parks and
Wildlife Department GIS Data Download page (https://tpwd.texas.gov/gis/data/).

Thank-you,
Laura Dugan, PhD
Texas Parks & Wildlife Department

Texas Natural Diversity Database Manager
4200 Smith School Rd., Austin, TX 78744
O: (512) 389-8731
F: (512) 389-4599
laura.dugan@tpwd.texas.gov

*Support Wildlife Diversity: Order a conservation license plate! *

From: Barton, Jonathan M [mailto:Jonathan.Barton@atkinsglobal.com]
Sent: Wednesday, November 09, 2016 2:11 PM
To: Texas Natural Diversity Database <TexasNatural.DiversityDatabase@tpwd.texas.gov>

Subject: TXNDD Request - Dallas, Ellis, and Kaufman Counties

Greetings,

I would like to request the TXNDD data for the entirety of Dallas, Ellis, and Kaufman Counties for the proposed construction of a new highway in southern Dallas County and northern Ellis County. The projects are not focused on any particular species so please list any and all entries that come up in the search. Let me know if any additional information is needed and I will get it to you as quickly as possible.

Thanks,

Jonathan M. Barton, CESSWI
Senior Scientist, EcoSciences Central

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Email: jonathan.barton@atkinsglobal.com | Web: www.atkinsglobal.com | Careers: www.atkinsglobal.com/careers

Element Occurrence Record

Scientific Name: Dalea hallii
Occurrence #: 5
Eo Id: 10990
Common Name: Hall's prairie clover
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G3
State Rank: S3
Federal Status:

Location Information:

Directions

2 mi W of Cedar Hill.

Survey Information:

First Observation: 1949-09-25
Survey Date:
Last Observation: 1949-09-25
Eo Type:
Eo Rank: H
Eo Rank Date: 2006-12-07
Observed Area:

Comments:

General Description: On barren areas in Austin Chalk.

Comments: Complete label citation: 2 mi W of Cedar Hill, rare on barren areas in Austin Chalk, 25 Sep 1949, B. L. Turner 1485 (BRIT/SMU).

Protection Comments:

Management Comments:

Data:

EO Data: 1949: Described by collector as rare.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Turner, B.L. (1485). 1949. BRIT/SMU.

Specimen:

Turner, B.L. (1485). 1949. BRIT/SMU. (S49TURSMTXUS)

Element Occurrence Record

Scientific Name: Dalea hallii **Occurrence #:** 6 **Eo Id:** 11074

Common Name: Hall's prairie clover **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

2 mi SSW of Lancaster.

Survey Information:

First Observation: 1948-09-26 **Survey Date:** **Last Observation:** 1948-09-26

Eo Type: **Eo Rank:** H **Eo Rank Date:** 2006-12-07

Observed Area:

Comments:

General Description: Gravelly soil, chalk slope.

Comments: Complete label citation: 2 mi SSW of Lancaster, gravelly soil, chalk slope, 26 Sep 1948, L. H. Shinners 10464 (BRIT/SMU).

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Shinners, L.H. (10464). 1948. BRIT/SMU.

Specimen:

Shinners, L.H. (10464). 1948. BRIT/SMU. (S48SHISMTXUS)

Element Occurrence Record

Scientific Name: Hexalectris nitida **Occurrence #:** 8 **Eo Id:** 4082

Common Name: Glass Mountains coral-root **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

GREENHILLS ENVIRONMENTAL CENTER

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1986

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

Southern Methodist University Herbarium. 1986. B. O'Kennon #862, Specimen # ? SMU.

Element Occurrence Record

Scientific Name: Hexalectris warnockii
Occurrence #: 5
Eo Id: 5234
Common Name: Warnock's coral-root
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G2G3
State Rank: S2
Federal Status:

Location Information:

Directions

GREENHILLS ENVIRONMENTAL CENTER

Survey Information:

First Observation:
Survey Date:
Last Observation: 1986
Eo Type:
Eo Rank:
Eo Rank Date:
Observed Area:

Comments:

General Description:

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Specimen:

Southern Methodist University Herbarium. 1986. B. O'Kennon #861, Specimen # ? SMU.

Element Occurrence Record

Scientific Name: Juniperus ashei-quercus spp. series **Occurrence #:** 16 **Eo Id:** 4433

Common Name: Ashe Juniper-oak Series **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:**

Global Rank: G4 **State Rank:** S4 **Federal Status:**

Location Information:

Directions

SLOPES ALONG EAST BOUNDARY OF CEDAR HILL SP

Survey Information:

First Observation: **Survey Date:** 1989-11-10 **Last Observation:** 1989-11-10

Eo Type: **Eo Rank:** C **Eo Rank Date:** 1989-11-10

Observed Area:

Comments:

General Description: BRUSHY WOODLAND, MODERATE TO LOW DIVERSITY; PATCHES OF POST OAK DOMINATE SMALL ERODING SHALE AREAS

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 2

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. CEDAR HILL STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

Specimen:

Element Occurrence Record

Scientific Name: Matelea edwardsensis **Occurrence #:** 13 **Eo Id:** 10140

Common Name: Plateau milkvine **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: **TX Protection Status:**

Global Rank: G3 **State Rank:** S3 **Federal Status:**

Location Information:

Directions

Cedar Hill State Park.

Survey Information:

First Observation: 19-- **Survey Date:** 19-- **Last Observation:** 19--

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: Note that this is the only broadleaf milkvine reported from this park. Matelea reticulata was not reported from Dallas County by Diggs, Lipscomb & O'Kennon (1999). See photos and story in: Woodward, W. 1999. Fire to flower. Texas Parks & Wildlife Magazine, November 1999, pp 26-29.

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Baldon, P. 1995. Cedar Hill State Park, Dallas County, Texas: preliminary checklist of vascular plants. March 1995 draft. Texas Parks and Wildlife Department, Austin, Texas.

Specimen:

Element Occurrence Record

Scientific Name: Onychoprion fuscatus **Occurrence #:** 31 **Eo Id:** 7284

Common Name: Interior Least Tern **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G4T2Q **State Rank:** S1B **Federal Status:** LE

Location Information:

Directions

GRAVEL MINE NEAR BELT LINE AND POST OAK ROADS IN SOUTHEAST DALLAS, EAST OF I-45

Survey Information:

First Observation: 2000-08-04 **Survey Date:** **Last Observation:** 2000-08-04

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: GRAVEL MINE

Comments: SEE REPORT (U01BOY01TXUS) FOR MORE DETAILS; HIGH PROBABILITY THAT THESE BIRDS ARE THE SAME ONES OR OF THE SAME COLONY AS THOSE OBSERVED AT SOUTHSIDE WASTEWATER TREATMENT PLANT CA. 2 AIR MILES NORTHEAST OF GRAVEL MINE (SEE OCCURRENCE 032)

Protection Comments:

Management Comments:

Data:

EO Data: 4 AUGUST 2000, FIVE ADULTS AND FOUR FLEDGLINGS OBSERVED

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

BOYLAN, JEANETTE. 2001. RESULTS OF THE 2000 INTERIOR LEAST TERN MONITORING PROJECT AT THE SOUTHSIDE WASTEWATER TREATMENT PLANT IN DALLAS.

Specimen:

Element Occurrence Record

Scientific Name: Onychoprion fuscatus
Occurrence #: 32 **Eo Id:** 2874
Common Name: Interior Least Tern
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status: E
Global Rank: G4T2Q **State Rank:** S1B
Federal Status: LE

Location Information:

Directions

SOUTHSIDE WASTEWATER TREATMENT PLANT, SOUTHEAST DALLAS, JUST EAST OF TRINITY RIVER

Survey Information:

First Observation: 1992 **Survey Date:** **Last Observation:** 2000-08-28
Eo Type: **Eo Rank:** **Eo Rank Date:**
Observed Area:

Comments:

General Description: WASTEWATER TREATMENT PLANT

Comments: MONITORING PROJECT BEGAN FOR THIS SITE IN 1998; MONITORS ARE VOLUNTEERS FROM THE DALLAS COUNTY AUDUBON SOCIETY AND THE DALLAS ZOO; OTHER BIRDS OBSERVED (HIGHEST NUMBER SEEN ON ANY PARTICULAR DAY): WOOD STORKS (150), WHITE-FACED IBIS (25), WHITE IBIS (4), GREEN HERONS (4), ROSEATE SPOONBILLS, BLACK TERNS, AND COMMON MOORHENS; THE REPORT (U01BOY01TXUS) CONTAINS DAILY OBSERVATIONS FROM MAY-AUGUST 2000 INCLUDING OBSERVERS, WEATHER, AND NUMBER OF ADULTS AND EGGS/CHICKS

Protection Comments:

Management Comments:

Data:

EO Data: IN 1998 AND 1999 CA. 4 CHICKS PRODUCED; 30 MAY 2000 BREEDING COLONY DISCOVERED IN MONOFILL (AREA OF PLANT WHERE SLUDGE IS MIXED WITH SAND), HIGHEST NUMBER OF ADULTS SEEN WAS 21 WITH 4-6 NESTS, AFTER SEVERAL HEAVY RAINS TERNS ABANDONED THIS NEST SITE; 23 JUNE 2000 TERNS OBSERVED COURTING IN FIELD A; JUNE-JULY 2000 TERNS SELDOM SEEN, SO SEARCH AREA EXPANDED, OBSERVED POSSIBLE NESTING AT GRAVEL MINE SOUTHWEST OF PLANT (SEE OCCURRENCE 031); 28 AUGUST 2000 TWO JUVENILES AND 6 SUBADULTS OBSERVED FLYING AND FISHING OVER, AND LOAFING ON A SANDBAR IN PULICH POND

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

BOYLAN, JEANETTE. 2001. RESULTS OF THE 2000 INTERIOR LEAST TERN MONITORING PROJECT AT THE SOUTHSIDE WASTEWATER TREATMENT PLANT IN DALLAS.

REID, JEFFERY A. 1993. MEMO TO USFWS FIELD SUPERVISOR RE: ABANDONMENT OF BALD EAGLE NEST ON RAY ROBERTS RESERVOIR (INCLUDES MAPS FOR BALD EAGLE AND INTERIOR LEAST TERN NESTING LOCALITIES). MAY 3, 1993.

Specimen:

Element Occurrence Record

Scientific Name: Pleurobema riddellii **Occurrence #:** 22 **Eo Id:** 12360

Common Name: Louisiana Pigtoe **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** T

Global Rank: G1G2 **State Rank:** S1 **Federal Status:**

Location Information:

Directions

Mussels were relocated to a site in the Trinity River approx. 0.2 miles upstream of the SH 12 bridge in Dallas. The directions were created by database staff.

Survey Information:

First Observation: 2013-08-12 **Survey Date:** 2013-08-21 **Last Observation:** 2013-08-21

Eo Type: **Eo Rank:** E **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: 12-21 August 2013: In total 756 mussels (rare and common species) were relocated to this site.

Protection Comments:

Management Comments:

Data:

EO Data: 12-21 August 2013: A total of 2 live mussels were collected upstream from one site, marked, and relocated to this site.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Texas Dept. of Transportation. 2014. Relocation of rare and state-listed mussel species; bridge replacement over the Trinity River at IH 30 and IH 35 in downtown Dallas, Dallas County, Texas. CSJ: 1068-04-116. 22 January 2014.

Specimen:

Element Occurrence Record

Scientific Name: Rookery
Occurrence #: 336 **Eo Id:** 5782
Common Name:
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G5 **State Rank:** SNR
Federal Status:

Location Information:

Directions

WOODED LOT AT CITY OF SEAGOVILLE; EASTERN EDGE

Survey Information:

First Observation: 1979 **Survey Date:** **Last Observation:** 1983
Eo Type: **Eo Rank:** **Eo Rank Date:**
Observed Area:

Comments:

General Description: HACKBERRY AND CEDAR ELM TREES, 5 METERS

Comments: COLONY NUMBER 555-051

Protection Comments:

Management Comments:

Data:

EO Data: NESTING COLONY OF THE YELLOW-CROWNED NIGHT-HERON

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

TEXAS COLONIAL WATERBIRD SOCIETY AND TEXAS PARKS & WILDLIFE DEPARTMENT. 1981-1985. TEXAS COLONIAL WATERBIRD CENSUS SUMAMRY.

Mullins, L.M. ET.AL. 1982. An atlas and census of Texas waterbird colonies, 1973-1980. Texas Colonial Waterbird Society.

Specimen:

Element Occurrence Record

Scientific Name: Rookery
Occurrence #: 468 **Eo Id:** 561
Common Name:
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G5 **State Rank:** SNR
Federal Status:

Location Information:

Directions

PORTIONS OF DALLAS HUNTING AND FISHING CLUB LAKE AND LANCASTER CLUB LAKE, AS WELL AS ADJACENT STRETCH OF TRINITY RIVER, EAST-SOUTHEAST OF HUTCHINS

Survey Information:

First Observation: 1981 **Survey Date:** **Last Observation:** 1981
Eo Type: **Eo Rank:** **Eo Rank Date:**
Observed Area:

Comments:

General Description: NESTS NOT SUBJECT TO FLOODING

Comments: COLONY NUMBER 555-059

Protection Comments:

Management Comments:

Data:

EO Data: NESTING COLONY OF THE CATTLE EGRET

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

TEXAS COLONIAL WATERBIRD SOCIETY AND TEXAS PARKS & WILDLIFE DEPARTMENT. 1981-1985. TEXAS COLONIAL WATERBIRD CENSUS SUMAMRY.

Specimen:

Element Occurrence Record

Scientific Name: Rookery
Occurrence #: 469 **Eo Id:** 7930
Common Name:
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G5 **State Rank:** SNR
Federal Status:

Location Information:

Directions

BOTH SIDES OF HIGHWAY 45/75 AT RED OAK CREEK, NORTH OF PALMER

Survey Information:

First Observation: 1981 **Survey Date:** **Last Observation:** 1990
Eo Type: **Eo Rank:** **Eo Rank Date:**
Observed Area:

Comments:

General Description:

Comments: COLONY NUMBER 555-060

Protection Comments:

Management Comments:

Data:

EO Data: NESTING COLONY OF THE GREAT EGRET, SNOWY EGRET, LITTLE BLUE HERON, CATTLE EGRET, BLACK-CROWNED NIGHT-HERON

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Martin, Catrina. 1991. Texas Colonial Waterbird Census Summary - 1990. Compiled for Texas Parks & Wildlife Dept. and Texas Colonial Waterbird Society. 13 March 1991.

Specimen:

Element Occurrence Record

Scientific Name: Rookery
Occurrence #: 474 **Eo Id:** 1439
Common Name:
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G5 **State Rank:** SNR
Federal Status:

Location Information:

Directions

INTERSECTION OF SIMPSON STUART AND BONNIE VIEW ROADS INCLUDING FIVEMILE CREEK TRIBUTARY AND SEVERAL PONDS, WEST-NORTHWEST OF HUTCHINS

Survey Information:

First Observation: 1988 **Survey Date:** **Last Observation:** 1990
Eo Type: **Eo Rank:** **Eo Rank Date:**
Observed Area:

Comments:

General Description:

Comments: COLONY NUMBER 555-065

Protection Comments:

Management Comments:

Data:

EO Data: NESTING COLONY OF THE GREAT EGRET, SNOWY EGRET, LITTLE BLUE HERON, CATTLE EGRET, BLACK-CROWNED NIGHT-HERON

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Martin, Catrina. 1991. Texas Colonial Waterbird Census Summary - 1990. Compiled for Texas Parks & Wildlife Dept. and Texas Colonial Waterbird Society. 13 March 1991.

TEXAS COLONIAL WATERBIRD SOCIETY AND TEXAS PARKS & WILDLIFE DEPARTMENT. 1986-1989. TEXAS COLONIAL WATERBIRD CENSUS SUMMARY. SPECIAL ADMINISTRATIVE REPORTS.

Element Occurrence Record

Scientific Name: Rookery
Occurrence #: 477 **Eo Id:** 6868
Common Name:
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G5 **State Rank:** SNR
Federal Status:

Location Information:

Directions

AT FISH HATCHERIES NORTH OF LOG CABIN ROAD, SOUTH OF KLEBERG

Survey Information:

First Observation: 1990 **Survey Date:** **Last Observation:** 1990
Eo Type: **Eo Rank:** **Eo Rank Date:**
Observed Area:

Comments:

General Description:

Comments: COLONY NUMBER 555-068

Protection Comments:

Management Comments:

Data:

EO Data: NESTING COLONY OF THE GREAT EGRET, SNOWY EGRET, LITTLE BLUE HERON, CATTLE EGRET, WHITE-FACED IBIS

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

Martin, Catrina. 1991. Texas Colonial Waterbird Census Summary - 1990. Compiled for Texas Parks & Wildlife Dept. and Texas Colonial Waterbird Society. 13 March 1991.

Specimen:

Element Occurrence Record

Scientific Name: Schizachyrium scoparium - Sorghastrum nutans - Andropogon gerardii - Bifora americana Vertisol Grassland
Occurrence #: 28 **Eo Id:** 11918
Common Name: Vertisol Blackland Prairie
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G1G2 **State Rank:** SNR
Federal Status:

Location Information:

Directions

The site is located approximately 3.5 air miles northwest of Seagoville, and 6.0 air miles almost directly south of Mesquite, surrounded by Seagoville Road to the north, South Belt Line Road to the west, and U.S. Highway 175/CF Hawn Freeway to the south. The directions were created by database staff.

Survey Information:

First Observation: 2009-03-21 **Survey Date:** 2009-03-21 **Last Observation:** 2009-03-21
Eo Type: **Eo Rank:** E **Eo Rank Date:** 2009-03-21
Observed Area:

Comments:

General Description: See the Composition Tab for other species within the area.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 21 March 2009: One plant community site of poor quality grass species; Forb species are low quality; Exotic species are present; Woody cover is 1-5 percent horticulture trees.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:
Andropogon gerardii	Herb (field)	Y	Graminoid	SFID:25754
Bifora americana	Herb (field)	Y	Flowering forb	SFID:25754
Schizachyrium scoparium	Herb (field)	Y	Graminoid	SFID:25754
Sorghastrum nutans	Herb (field)	Y	Graminoid	SFID:25754

Reference:

Citation:

Native Prairies Association of Texas. 2011. Tallgrass prairie survey project that includes shapefiles, excel files, documents, images, and protocol for multiple counties in Texas (2000-2013).

Specimen:

Element Occurrence Record

Scientific Name: Schizachyrium scoparium - Sorghastrum nutans - Andropogon gerardii - Bifora americana Vertisol Grassland
Occurrence #: 29 **Eo Id:** 11919
Common Name: Vertisol Blackland Prairie
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G1G2 **State Rank:** SNR
Federal Status:

Location Information:

Directions

The site is located approximately 2.0 air miles southwest of Hutchins, and 2.5 air miles northeast of Lancaster, on the east side of Lancaster Hutchins Road. The directions were created by database staff.

Survey Information:

First Observation: 2009-03-14 **Survey Date:** 2009-03-14 **Last Observation:** 2009-03-14
Eo Type: **Eo Rank:** E **Eo Rank Date:** 2009-03-14
Observed Area:

Comments:

General Description: 14 March 2009: This site is noted as having a stream. See the Composition Tab for other species within the area.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 14 March 2009: One plant community site of poor quality grass species; Forb species are less than 5 percent medium quality, and in low abundance; Exotic species are present; Woody cover is 51-75 percent.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:
Andropogon gerardii	Herb (field)	Y	Graminoid	SFID:25753
Bifora americana	Herb (field)	Y	Flowering forb	SFID:25753
Bothriochloa laguroides	Herb (field)	Y	Graminoid	SFID:25753
Juniperus virginiana	Tree (canopy & subcanopy)	Y	Needle-leaved tree	SFID:25753
Nassella leucotricha	Herb (field)	Y	Graminoid	SFID:25753
Schizachyrium scoparium	Herb (field)	Y	Graminoid	SFID:25753
Sorghastrum nutans	Herb (field)	Y	Graminoid	SFID:25753

Reference:

Citation:

Native Prairies Association of Texas. 2011. Tallgrass prairie survey project that includes shapefiles, excel files, documents, images, and protocol for multiple counties in Texas (2000-2013).

Specimen:

Element Occurrence Record

Scientific Name: Schizachyrium scoparium - Sorghastrum nutans - Andropogon gerardii - Bifora americana Vertisol Grassland
Occurrence #: 30 **Eo Id:** 11920
Common Name: Vertisol Blackland Prairie
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G1G2 **State Rank:** SNR
Federal Status:

Location Information:

Directions

The site is located approximately 4.0 air miles almost directly south of Duncanville, 3.5 air miles directly west of Desoto, and 2.0 air miles east of Cedar Hill, on the north side of Belt Line Road/FM 1382. The directions were created by database staff.

Survey Information:

First Observation: 2009-03-21 **Survey Date:** 2009-03-21 **Last Observation:** 2009-03-21
Eo Type: **Eo Rank:** E **Eo Rank Date:** 2009-03-21
Observed Area:

Comments:

General Description: 21 March 2009: There is a small stream that runs through the site. See the Composition Tab for other species within the area.

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: 21 March 2009: One plant community site of unknown quality grass species; Forb species are poor quality; Exotic species are present; Woody cover is greater than 75 percent.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:
Andropogon gerardii	Herb (field)	Y	Graminoid	SFID:25751
Bifora americana	Herb (field)	Y	Flowering forb	SFID:25751
Juniperus virginiana	Tree (canopy & subcanopy)	Y	Needle-leaved tree	SFID:25751
Schizachyrium scoparium	Herb (field)	Y	Graminoid	SFID:25751
Sorghastrum nutans	Herb (field)	Y	Graminoid	SFID:25751

Reference:

Citation:

Native Prairies Association of Texas. 2011. Tallgrass prairie survey project that includes shapefiles, excel files, documents, images, and protocol for multiple counties in Texas (2000-2013).

Specimen:

Element Occurrence Record

Scientific Name: Schizachyrium scoparium-sorghastrum nutans series
Occurrence #: 27 **Eo Id:** 588
Common Name: Little Bluestem-indiangrass Series
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G2 **State Rank:** S2
Federal Status:

Location Information:

Directions

FERRIS, 20 MILES SOUTH OF DALLAS, THEN ONE MILE EAST OF IH-45 ON 660, ON SOUTH SIDE OF 660

Survey Information:

First Observation: 1985 **Survey Date:** 1985-07-12 **Last Observation:** 1985-07-12
Eo Type: **Eo Rank:** C **Eo Rank Date:**
Observed Area: 1.00

Comments:

General Description: A SMALL, MOSTLY NATIVE MEADOW, WITH A LOT OF JOHNSONGRASS

Comments:

Protection Comments:

Management Comments:

Data:

EO Data:

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

DIAMOND, D. D. 1985. FIELD TRIP TO NORTH TEXAS JULY 10- 12, 1985.

BURLESON, MICKEY. 1984. FILES OF MICKEY BURLESON, 1984.

Specimen:

Element Occurrence Record

Scientific Name: Schizachyrium scoparium-sorghastrum nutans series
Occurrence #: 31 **Eo Id:** 3061
Common Name: Little Bluestem-indiangrass Series
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G2 **State Rank:** S2
Federal Status:

Location Information:

Directions

AT THE END OF A DEAD END ROAD IN CEDAR HILL STATE PARK OFF BELT LINE ROAD

Survey Information:

First Observation: 1984 **Survey Date:** 1989-11-10 **Last Observation:** 1989-11-10
Eo Type: **Eo Rank:** BC **Eo Rank Date:**
Observed Area:

Comments:

General Description: UNBROKEN SOD WITH MANY NATIVE SPECIES AND SOME INVASION OF JOHNSONGRASS IN PATCHES

Comments: ONLY FAIR CONDITION; MADGE GATLIN ALSO KNOWS HOW TO GET TO THIS SITE

Protection Comments:

Management Comments: ACTIVE MANAGEMENT REQUIRED TO REDUCE MESQUITE COVER - BURN?

Data:

EO Data: DESCRIPTION AND PRELIMINARY PLANT LIST FOR ONE PORTION OF OCCURRENCE IN DLI REPORT, SITE 1

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. CEDAR HILL STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

RISKIND, DAVID H. 1984. FILES OF DAVID RISKIND.

Element Occurrence Record

Scientific Name: Ulmus crassifolia-celtis laevigata series
Occurrence #: 25 **Eo Id:** 843
Common Name: Cedar Elm-sugarberry Series
Track Status: Track all extant and selected historical EOs
Identification Confirmed: Y - Yes
TX Protection Status:
Global Rank: G2G3 **State Rank:** S4
Federal Status:

Location Information:

Directions

TERRACES ALONG JOHN PENN BRANCH, BOTH SIDES OF OLD ROUTE 1382, CA. THREE-QUARTER MILE NORTHEAST OF ENTRANCE TO CEDAR HILL SP

Survey Information:

First Observation: **Survey Date:** 1989-11-10 **Last Observation:** 1989-11-10
Eo Type: **Eo Rank:** C **Eo Rank Date:** 1989-11-10
Observed Area:

Comments:

General Description: DECIDUOUS BOTTOMLAND FOREST WITH BURR OAK, CEDAR ELM, SUGARBERRY; CORALBERRY COMMON IN UNDERSTORY

Comments:

Protection Comments:

Management Comments:

Data:

EO Data: DESCRIPTION AND PLANT LIST IN DLI REPORT, SITE 3

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

TEXAS PARKS & WILDLIFE DEPARTMENT. 1990. CEDAR HILL STATE PARK. SUMMARY OF REPRESENTATIVE PLANT COMMUNITIES.

Specimen:

Element Occurrence Record

Scientific Name: Vireo atricapilla **Occurrence #:** 8 **Eo Id:** 3327

Common Name: Black-capped Vireo **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G3 **State Rank:** S2B **Federal Status:** LE

Location Information:

Directions

GREENHILLS ENVIRONMENTAL CENTER

Survey Information:

First Observation: 1984 **Survey Date:** 1985 **Last Observation:** 1985

Eo Type: **Eo Rank:** A **Eo Rank Date:**

Observed Area:

Comments:

General Description: DWARF WOODLAND; JUNIPER, OAK, SUMAC WITH WELL VEGETATED SHRUB LAYERS

Comments: THREATENED BY HABITAT MODIFICATION AND COWBIRD PARASITISM.

Protection Comments: LEGALLY PROTECTED MIGRANT BIRD - ADEQUATE.

Management Comments: DO NOT GRAZE OR BROWSE HABITAT.

Data:

EO Data: INSECTIVOROUS, FOLIAGE GLEANING VIREO. NEST 0.5 TO 1 METER HIGH IN BRUSH AT END OF LIMB. HIGH FIDELITY TO NEST TERRITORY BY MATED PAIRS. NESTING SUCCESSFUL.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

MARSHALL, J. T., R. B. CLAPP AND J. A. GRZYBOWSKI. 1984. INTERIM STATUS REPORT: VIREO ATRICAPILLUS WOODHOUSE, BLACK-CAPPED VIREO. USF& WS, ALBUQUERQUE, NM.

RISKIND, DAVID, PH.D. TEXAS PARKS AND WILDLIFE DEPARTMENT 4200 SMITH SCHOOL ROAD AUSTIN, TEXAS 78744 PH-512/479-4897 (WORK)

MARSHALL, J. T., R. B. CLAPP AND J. A. GRZYBOWSKI. 1985. STATUS REPORT: VIREO ATRICAPILLUS WOODHOUSE (BLACK-CAPPED VIREO). REPORT TO USF& WS, ALBUQUERQUE, NEW MEXICO. 48pp.

Element Occurrence Record

Scientific Name: Vireo atricapilla **Occurrence #:** 14 **Eo Id:** 3734

Common Name: Black-capped Vireo **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G3 **State Rank:** S2B **Federal Status:** LE

Location Information:

Directions

IMMEDIATELY BELOW THE RADIO TOWER, DALLAS COUNTY, JUST NORTH OF KINGSWOOD AND JUST SOUTH OF TELEVISION ANTENNAE, STATION KRLD

Survey Information:

First Observation: **Survey Date:** **Last Observation:** 1984-SUMM

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description: JUNIPER-OAK WOODLAND

Comments: SITE BEARS FURTHER EXAMINATION & PERHAPS FIELD VERIFICATION.

Protection Comments:

Management Comments:

Data:

EO Data: NO DATA AVAILABLE AS TO NUMBERS OF INDIVIDUALS, SUCCESS OF BREEDING ACTIVITY OR CONDITION OF HABITAT.

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

STANFORD, GEOFFREY. 1985-01-31. TELEPHONE CONVERSATION WITH DR. STANFORD, DIRECTOR OF THE GREENHILLS ENVIRONMENTAL CENTER, ON 31 JAN. 1985 AT 10:00 A.M., PH-214/296-1955. 7575 WHEATFIELD ROAD, DALLAS, TX 75249.

Specimen:

Element Occurrence Record

Scientific Name: Vireo atricapilla **Occurrence #:** 63 **Eo Id:** 3522

Common Name: Black-capped Vireo **Track Status:** Track all extant and selected historical EOs

Identification Confirmed: Y - Yes **TX Protection Status:** E

Global Rank: G3 **State Rank:** S2B **Federal Status:** LE

Location Information:

Directions

ON FM 1382 ABOUT 1.6 MILES SOUTH OF INTERSECTION OF 1382 AND IH-20 ON WEST-SOUTHWEST FACING SLOPE ON EAST SIDE OF ROAD; SOUTHWEST DALLAS COUNTY

Survey Information:

First Observation: 1985 **Survey Date:** 1993-04-26 **Last Observation:** 1993-05-04

Eo Type: **Eo Rank:** **Eo Rank Date:**

Observed Area:

Comments:

General Description:

Comments: FOR SALE, ALTHOUGH SITE IS PROBABLY NOT DEVELOPABLE, ADJACENT AREAS ARE DEVELOPABLE; ONLY ONE PAIR FOUND ON RTC PROPERTY, NONE FOUND AT ADJACENT GREENHILLS ENVIRONMENTAL CENTER

Protection Comments:

Management Comments:

Data:

EO Data: TWO BLACK-CAPPED VIREOS LOCATED ALONG EAST BOUNDARY OF TRACT A; POSSIBLY ONE MALE WAS MATED

Community Information:

Scientific Name:	Stratum:	Dominant:	Lifeform:	Composition Note:

Reference:

Citation:

TURNER, PAUL D. 1993. ASSESSMENT OF THE OCCURRENCE OF AN ENDANGERED SPECIES, THE BLACK-CAPPED VIREO, AT MOUNTAIN CREEK ASSET. REOMS # 613198762, FOR THE RESOLUTION TRUST CORPORATION. MAY 1993.

Attachment 6

Natural Resource Conservation Service Determination and Correspondence
Soils and Prime Farmland Maps

Patterson, Susan K

From: Patterson, Susan K
Sent: Thursday, January 19, 2017 4:32 PM
To: micki.yoder@tx.usda.gov
Cc: Mash, Lisa R
Subject: TxDOT Loop 9: I-35E to I-45, Dallas and Ellis Counties, Tx
Attachments: Loop9_NRCS Coordination_03 20 15.pdf; Loop9_UpdatedPrimeFarmland_01 19 17.pdf; Loop9_PrimeFarmland_01 19 17.pdf; Loop9_PrimeFarmlandacres_01 19 17.xlsx

Hi Micki – You provided an evaluation for the Loop 9 project in 2015 (see attached). At that time, TxDOT was evaluating four different alignment alternatives. A final decision has been made on the alignment and it is currently being evaluated in the Environmental Assessment. The alignment has shifted some since the evaluation in 2015 so we have provided an updated map and evaluation form for your use. Please let me know if you any questions or need additional information.

Thank you -

Susan Patterson
Sr. Transportation Planner

ATKINS

17220 Katy Freeway, Building 1, Suite 200, Houston, TX 77094 **|** Tel: 281.529.4285 **|** Mobile: 936.933.5793
Email: susan.patterson@atkinsglobal.com | Web: www.atkinsglobal.com | Careers: www.atkinsglobal.com/careers

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*	Date Of Land Evaluation Request 1/19/17
Name of Project Loop 9: I-35E to I-45	Federal Agency Involved TxDOT
Proposed Land Use new location highway (10 miles)	County and State Dallas and Ellis Counties, TX
PART II *(To be completed by NRCS)*	Date Request Received By NRCS / Person Completing Form:

Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)* YES ☐ NO ☐		Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount of Farmland As Defined in FPPA Acres: %	
Name of Land Evaluation System Used	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	486.70			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	718.60			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide Important or Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)				

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)	11			
2. Perimeter In Non-urban Use	(10)	9			
3. Percent Of Site Being Farmed	(20)	6			
4. Protection Provided By State and Local Government	(20)	0			
5. Distance From Urban Built-up Area	(15)	2			
6. Distance To Urban Support Services	(15)	2			
7. Size Of Present Farm Unit Compared To Average	(10)	2			
8. Creation Of Non-farmable Farmland	(10)	5			
9. Availability Of Farm Support Services	(5)	5			
10. On-Farm Investments	(20)	10			
11. Effects Of Conversion On Farm Support Services	(10)	10			
12. Compatibility With Existing Agricultural Use	(10)	6			
TOTAL SITE ASSESSMENT POINTS	160	68	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	0	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	68	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	68	0	0	0

Site Selected: Attached Figure	Date Of Selection 2016	Was A Local Site Assessment Used? YES ☐ NO ☑

Reason For Selection:

Final alignment minimized impacts to residential and commercial displacements, wildlife habitat, wetlands and floodplains.

Name of Federal agency representative completing this form: Susan Patterson, Atkins	Date: 1/19/17

(See Instructions on reverse side)

Form AD-1006 (03-02)

United States Department of Agriculture

Natural Resources
Conservation Service

State Office

101 S. Main Street
Temple, TX 76501
Voice 254.742.9800
Fax 254.742.9819

January 25, 2017

ATKINS
17220 Katy Freeway, Building 1, Suite 100
Houston, Texas 77094

Attention: Susan Patterson, Sr. Transportation Planner

Subject: TxDOT Loop 9: I-35E to I-45, Dallas and Ellis Counties, TX Project NEPA/FPPA Evaluation

We have reviewed the information provided in your correspondence dated January 19, 2017 concerning the proposed highway construction located Dallas and Ellis Counties, Texas. This review is part of the National Environmental Policy Act (NEPA) evaluation for the Federal Highway Administration (FHA). We have evaluated the proposed site as required by the Farmland Protection Policy Act (FPPA).

The urban areas intersecting the proposed project boundary are considered "land committed to urban development" due to its location within the city limits of Red Oak and Lancaster, Texas. For these reasons, these areas are exempt from provisions of FPPA and were not evaluated in the site assessment [(Part VI) of the Farmland Conversion Impact Rating for Corridor Type Projects form (CPA-106)].

The remaining proposed corridor contains soils classified as Prime Farmland and we have completed the CPA-106 for the proposed sites in Dallas and Ellis County, separately. The combined ratings for the Dallas and Ellis County sites are **128** and **152**, respectively. The FPPA law states that sites with a rating less than 160 will need no further consideration for protection and no additional evaluation is necessary. We encourage the use of accepted erosion control methods during the construction of this project.

If you have any questions, please contact me at 254.742.9836 or by email at carlos.villarreal@tx.usda.gov.

Sincerely,

Carlos J. Villarreal
NRCS Soil Scientist

Attachment: Form CPA-106 – Dallas County, Texas
Form CPA-106 – Ellis County, Texas

U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

NRCS-CPA-106
(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I *(To be completed by Federal Agency)*	3. Date of Land Evaluation Request 1/20/17	4. Sheet 1 of 2
1. Name of Project Loop 9 Project	5. Federal Agency Involved Federal Highway Administration	
2. Type of Project New location highway	6. County and State Dallas County, Texas	
PART II *(To be completed by NRCS)*	1. Date Request Received by NRCS 1/20/17	2. Person Completing Form Carlos J. Villarreal
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES ☐ NO ☐		4. Acres Irrigated 3262 / Average Farm Size 100
5. Major Crop(s) cotton, corn, small grains	6. Farmable Land in Government Jurisdiction Acres: 83754 % 14	7. Amount of Farmland As Defined in FPPA Acres: 120506 % 21
8. Name Of Land Evaluation System Used NCCPI	9. Name of Local Site Assessment System None	10. Date Land Evaluation Returned by NRCS 1/24/17

PART III *(To be completed by Federal Agency)*	Alternative Corridor For Segment Dallas County			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly	405			
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0			
C. Total Acres In Corridor	405			
PART IV *(To be completed by NRCS) Land Evaluation Information*				
A. Total Acres Prime And Unique Farmland	157			
B. Total Acres Statewide And Local Important Farmland	12			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0.003			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	45			
PART V *(To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)*	50			
PART VI *(To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))* — Maximum Points				
1. Area in Nonurban Use — 15	9			
2. Perimeter in Nonurban Use — 10	9			
3. Percent Of Corridor Being Farmed — 20	15			
4. Protection Provided By State And Local Government — 20	20			
5. Size of Present Farm Unit Compared To Average — 10	10			
6. Creation Of Nonfarmable Farmland — 25	10			
7. Availablility Of Farm Support Services — 5	5			
8. On-Farm Investments — 20	0			
9. Effects Of Conversion On Farm Support Services — 25	0			
10. Compatibility With Existing Agricultural Use — 10	0			
TOTAL CORRIDOR ASSESSMENT POINTS — 160	78	0	0	0
PART VII *(To be completed by Federal Agency)*				
Relative Value Of Farmland (From Part V) — 100	50	0	0	0
Total Corridor Assessment (From Part VI above or a local site assessment) — 160	78	0	0	0
TOTAL POINTS *(Total of above 2 lines)* — 260	128	0	0	0

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?
Corr A	405 ac	JAN 2017	YES ☐ NO ☑

5. Reason For Selection: Dallas Co.

Susan Patterson, Atkins
Signature of Person Completing this Part: DATE 1-24-17

NOTE: Complete a form for each segment with more than one Alternate Corridor

Clear Form

U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

NRCS-CPA-106
(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I *(To be completed by Federal Agency)*	3. Date of Land Evaluation Request 1/20/17	4. Sheet 2 of 2
1. Name of Project: Loop 9 Project	5. Federal Agency Involved: Federal Highway Administration	
2. Type of Project: New location highway	6. County and State: Ellis County, Texas	
PART II *(To be completed by NRCS)*	1. Date Request Received by NRCS 1/20/17	2. Person Completing Form: Carlos J. Villarreal
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES ☐ NO ☐		4. Acres Irrigated: 2175 / Average Farm Size: 209
5. Major Crop(s): cotton, corn, small grains	6. Farmable Land in Government Jurisdiction: Acres: 473860 % 78	7. Amount of Farmland As Defined in FPPA: Acres: 279792 % 46
8. Name Of Land Evaluation System Used: NCCPI	9. Name of Local Site Assessment System: None	10. Date Land Evaluation Returned by NRCS: 1/25/17 Ellis

PART III *(To be completed by Federal Agency)*	Alternative Corridor For Segment Dallas County			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly	59			
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0			
C. Total Acres In Corridor	59			
PART IV *(To be completed by NRCS) Land Evaluation Information*				
A. Total Acres Prime And Unique Farmland	59			
B. Total Acres Statewide And Local Important Farmland	0			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0.0002			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	25			
PART V *(To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)*	76			
PART VI *(To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))* — Maximum Points				
1. Area in Nonurban Use (15)	9			
2. Perimeter in Nonurban Use (10)	7			
3. Percent Of Corridor Being Farmed (20)	15			
4. Protection Provided By State And Local Government (20)	20			
5. Size of Present Farm Unit Compared To Average (10)	0			
6. Creation Of Nonfarmable Farmland (25)	10			
7. Availablility Of Farm Support Services (5)	5			
8. On-Farm Investments (20)	0			
9. Effects Of Conversion On Farm Support Services (25)	0			
10. Compatibility With Existing Agricultural Use (10)	0			
TOTAL CORRIDOR ASSESSMENT POINTS (160)	66	0	0	0
PART VII *(To be completed by Federal Agency)*				
Relative Value Of Farmland (From Part V) (100)	76	0	0	0
Total Corridor Assessment (From Part VI above or a local site assessment) (160)	66	0	0	0
TOTAL POINTS *(Total of above 2 lines)* (260)	152	0	0	0

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?
Corr A	59 ac Ellis Co.	Jan 2017	YES ☐ NO ☑

5. Reason For Selection:

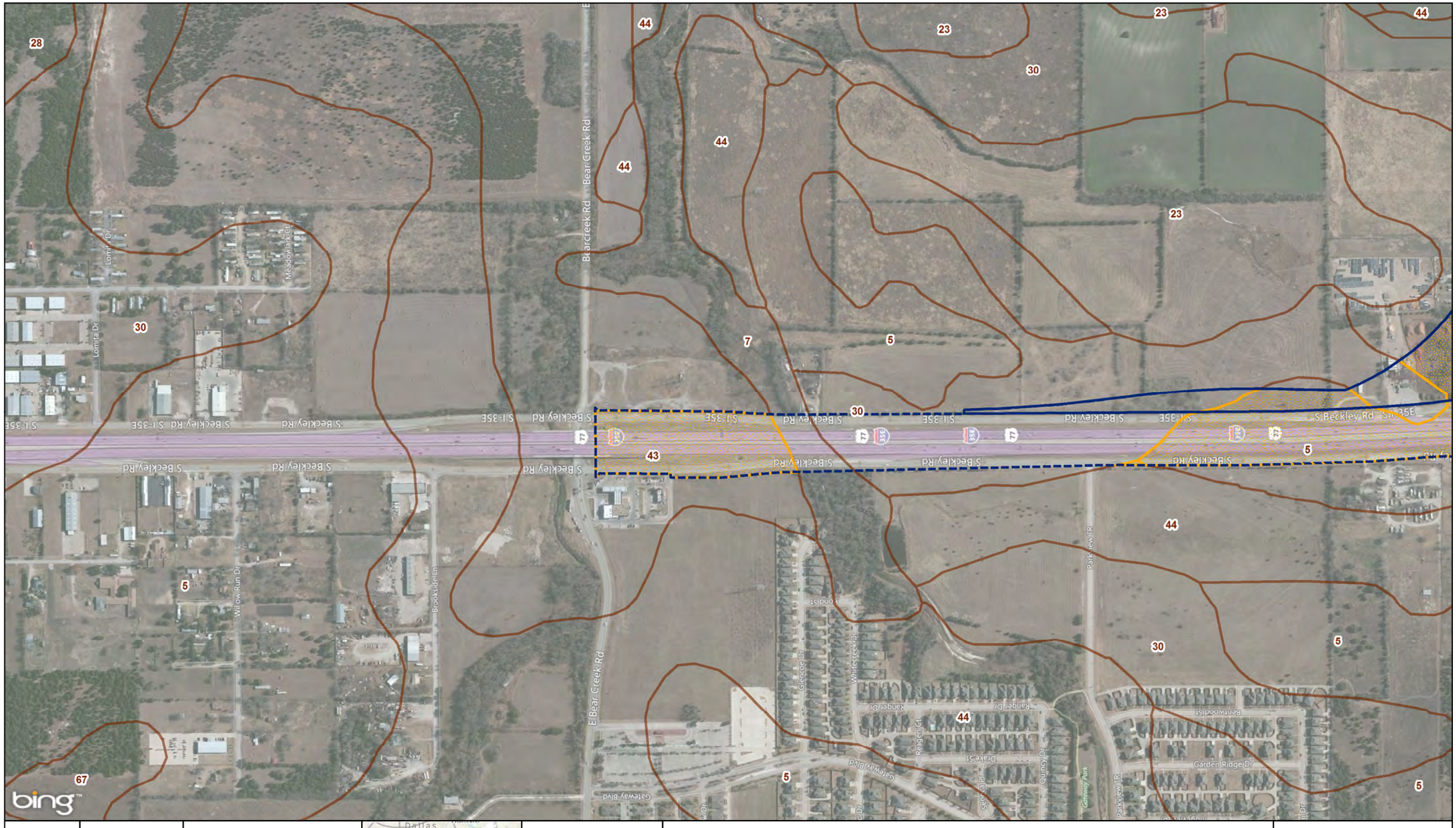
Susan Patterson, Atkins

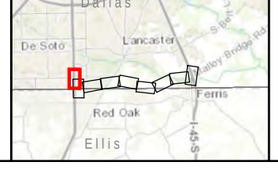
Signature of Person Completing this Part: DATE 1-24-17

NOTE: Complete a form for each segment with more than one Alternate Corridor

Clear Form

Loop 9: I-35E to I-45			
Dallas and Ellis Counties, TX			
Prime Farmland Soils Within the Total Project Area			
Map Unit Symbol	**Map Unit Name**	**Farmland**	**Acres**
42	Heiden clay, 2 to 5 percent slopes, eroded	All areas are prime farmland	32.02
43	Houston Black clay, 0 to 1 percent slopes	All areas are prime farmland	77.32
44	Houston Black clay, 1 to 3 percent slopes	All areas are prime farmland	163.38
46	Lewisville silty clay, 1 to 3 percent slopes	All areas are prime farmland	1.94
5	Austin silty clay, 1 to 3 percent slopes	All areas are prime farmland	85.02
AuB	Austin silty clay, 1 to 3 percent slopes	All areas are prime farmland	49.51
HaB	Houston Black clay, 1 to 3 percent slopes	All areas are prime farmland	77.51
		TOTAL	**486.70**
		Total Existing ROW	182.44
		Total Proposed ROW	541.23
		Total Project Area	**727.02**
		% of Project Area w/prime farmland	49%





Dallas and Ellis Counties

0 0.05 0.1
Miles

0 250 500
Feet

Permanent Drainage Easement
Proposed ROW
Construction Limits
Prime Farmland*
Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 1 of 10

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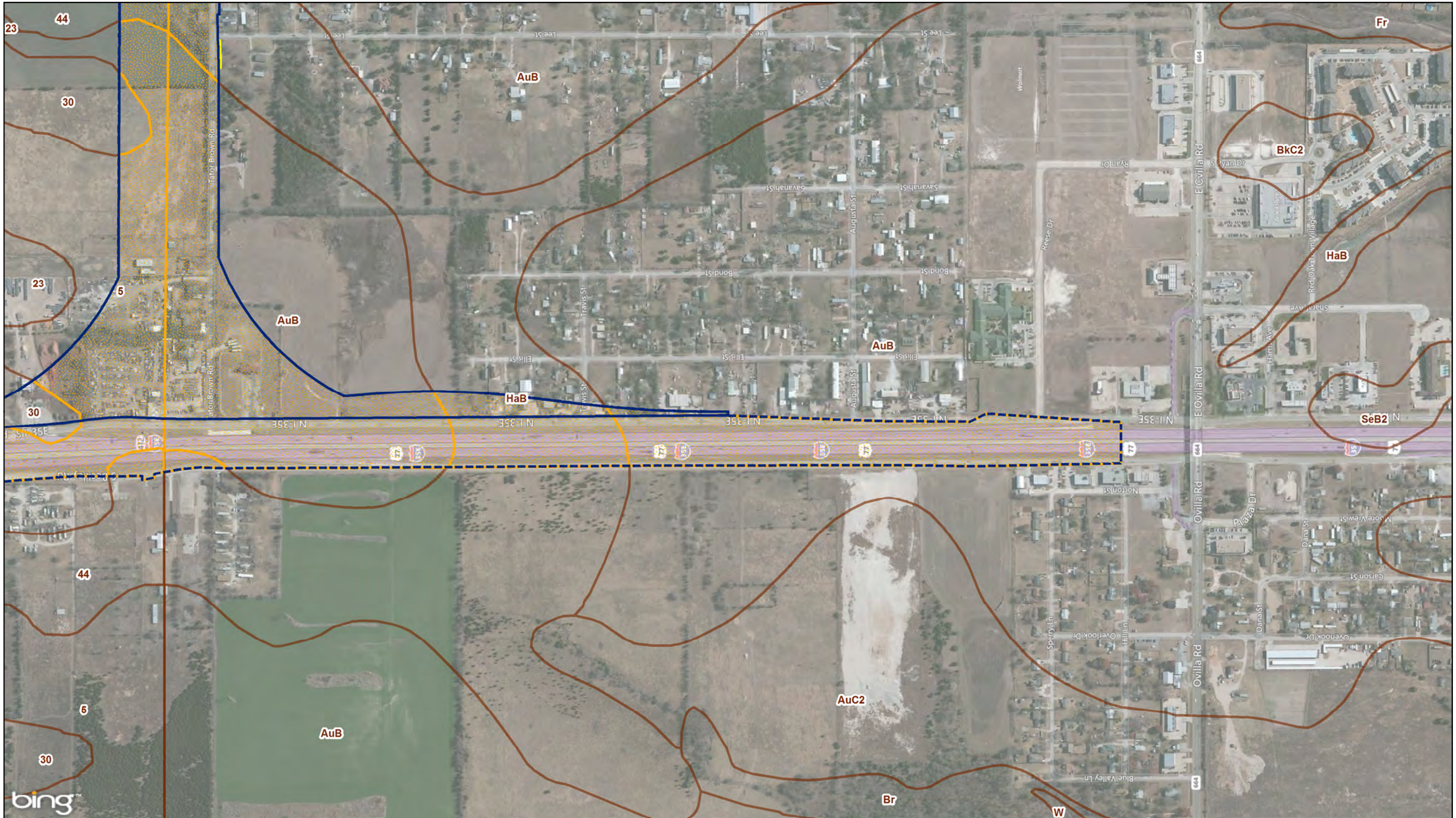

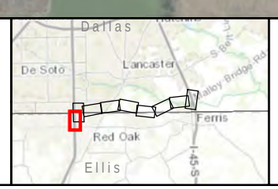

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Miles

0 250 500
Feet

Permanent Drainage Easement
Proposed ROW
Construction Limits

Prime Farmland*
Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Dallas and Ellis Counties

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 2 of 10

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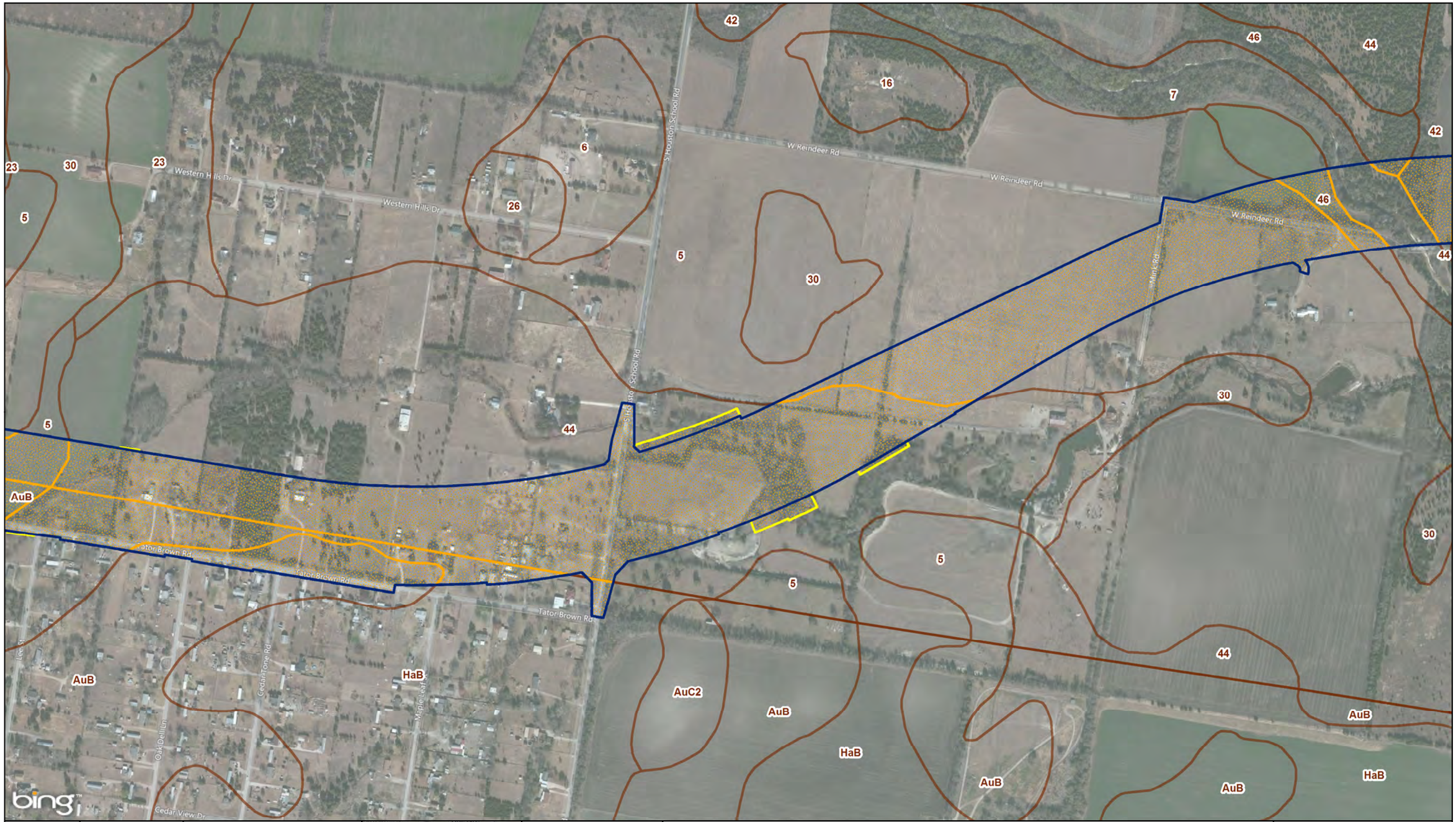

Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties

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Miles

0 250 500
Feet

- Permanent Drainage Easement
- Proposed ROW
- Construction Limits
- Prime Farmland*
- Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 3 of 10

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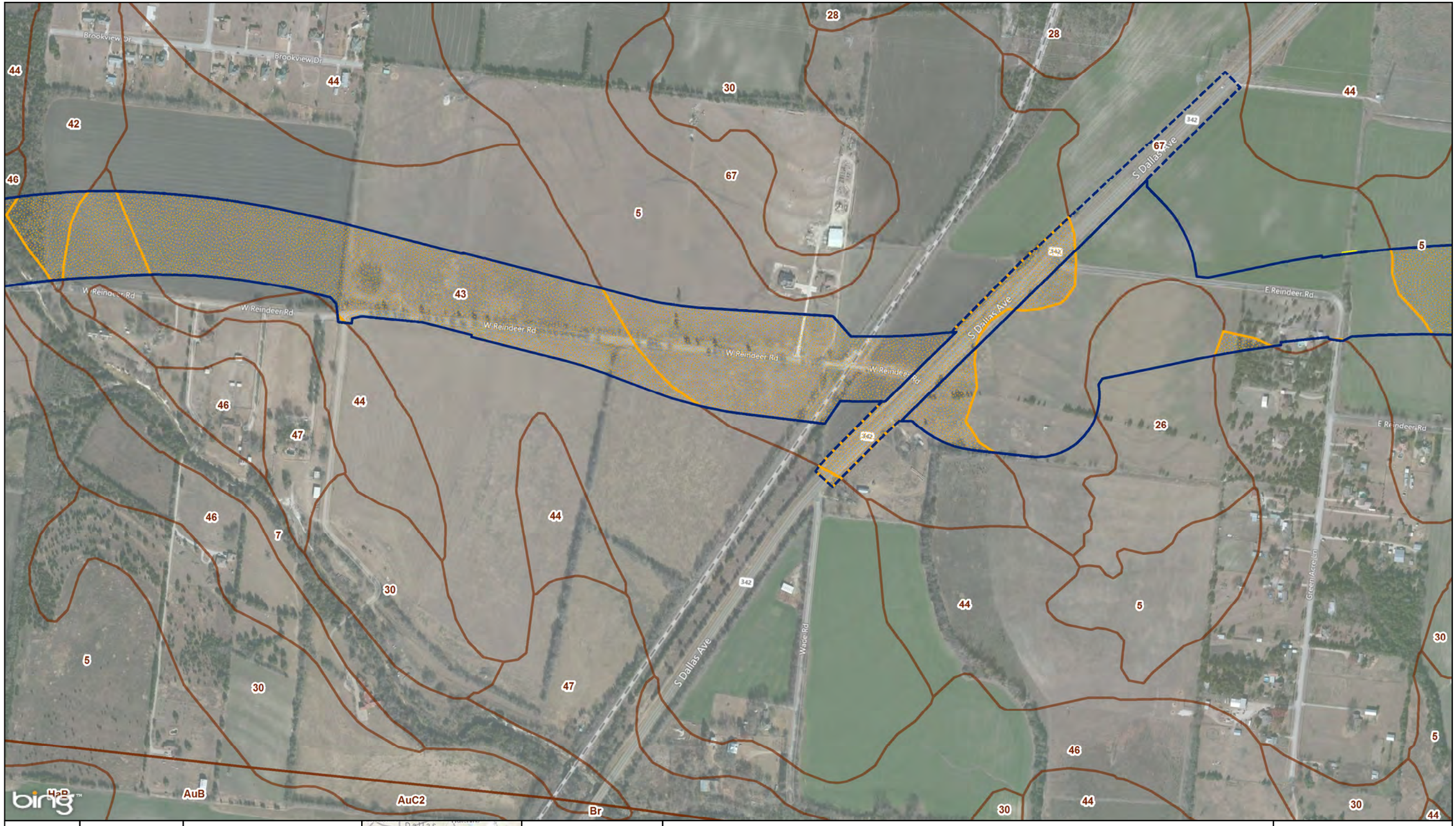
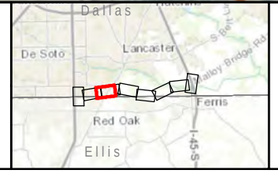


Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties



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Miles

0 250 500
Feet

- Permanent Drainage Easement
- Proposed ROW
- Construction Limits
- Prime Farmland*
- Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 4 of 10

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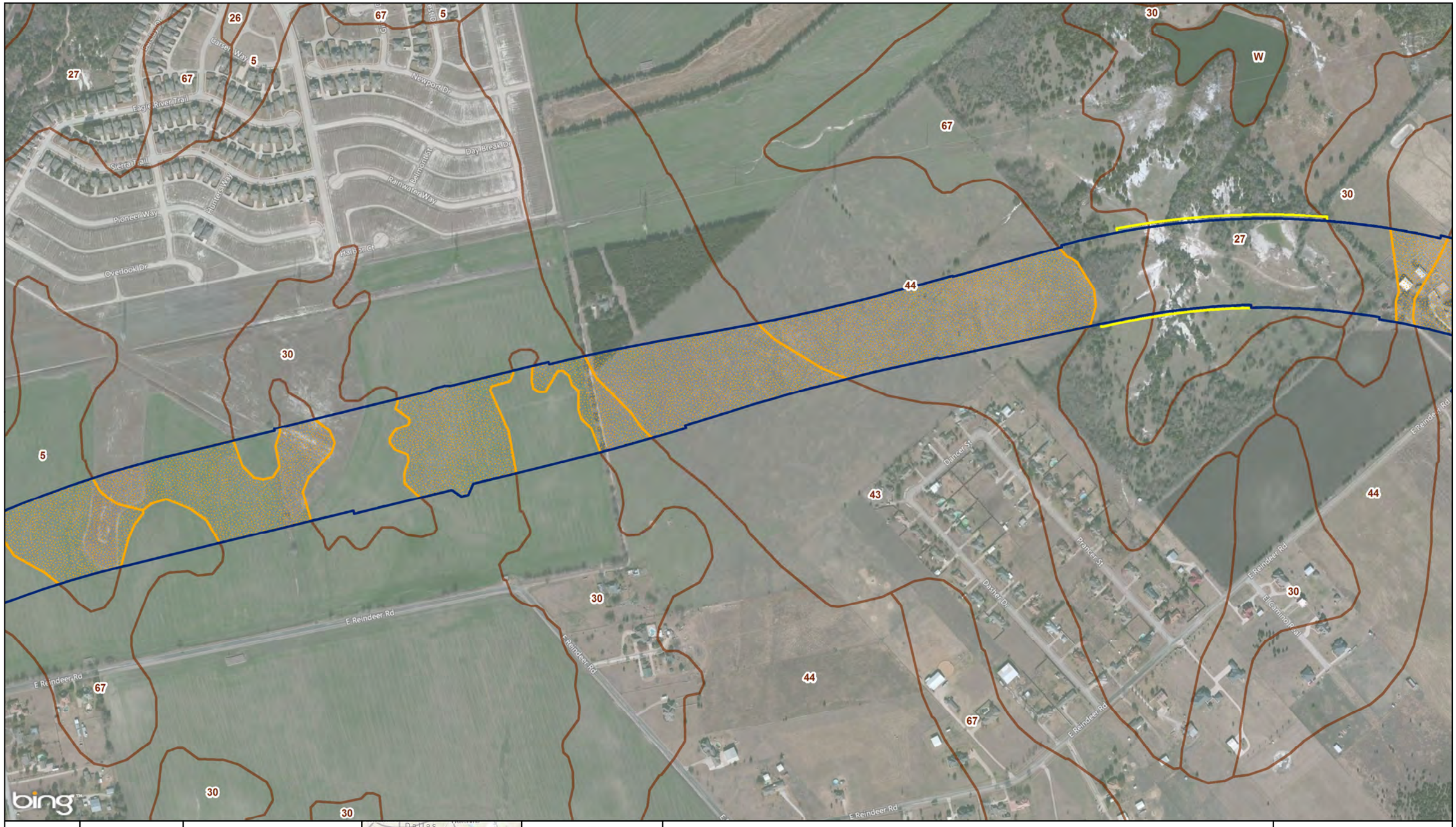
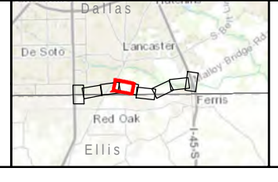


Loop 9 SOUTHEAST

Texas Department of Transportation

Dallas and Ellis Counties



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Miles

0 250 500
Feet

- Permanent Drainage Easement
- Proposed ROW
- Construction Limits
- Prime Farmland*
- Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 5 of 10

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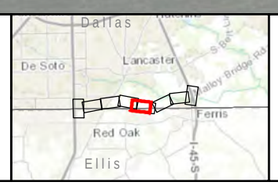

Dallas and Ellis Counties

0 0.05 0.1
Miles

0 250 500
Feet

- Permanent Drainage Easement
- Proposed ROW
- Construction Limits
- Prime Farmland*
- Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 6 of 10

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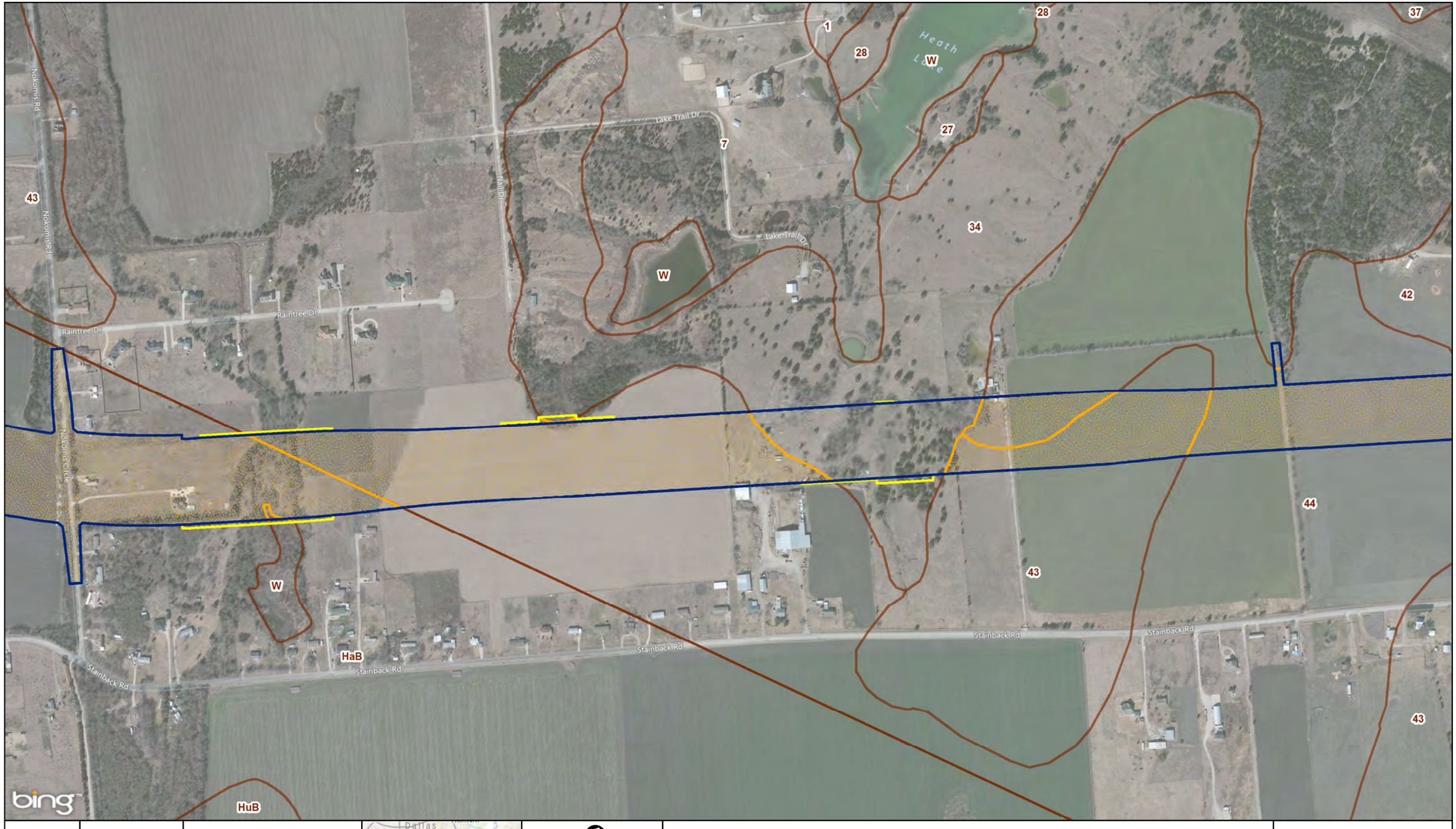
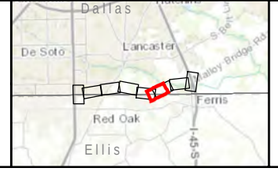


Dallas and Ellis Counties



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Miles

0 250 500
Feet

Permanent Drainage Easement
Proposed ROW
Construction Limits
Prime Farmland*
Soil

*Outside US Census-identified Urbanized Areas

Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 7 of 10

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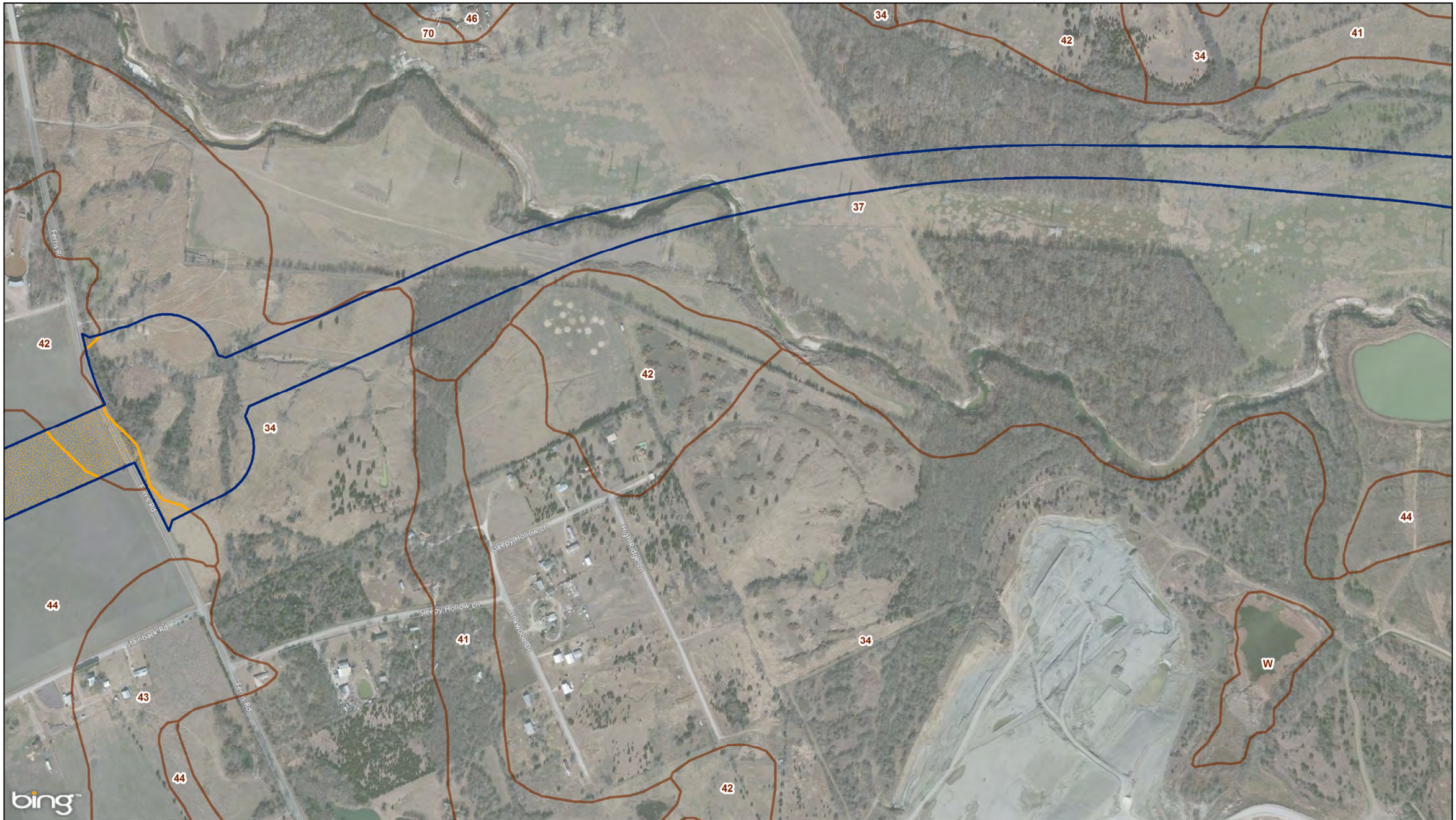
Date: 1/17/2017



Dallas and Ellis Counties

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Miles

0 250 500
Feet

- Permanent Drainage Easement
- Proposed ROW
- Construction Limits
- Prime Farmland*
- Soil

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Soils & Prime Farmland data source: USDA SSURGO, 2009

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 8 of 10

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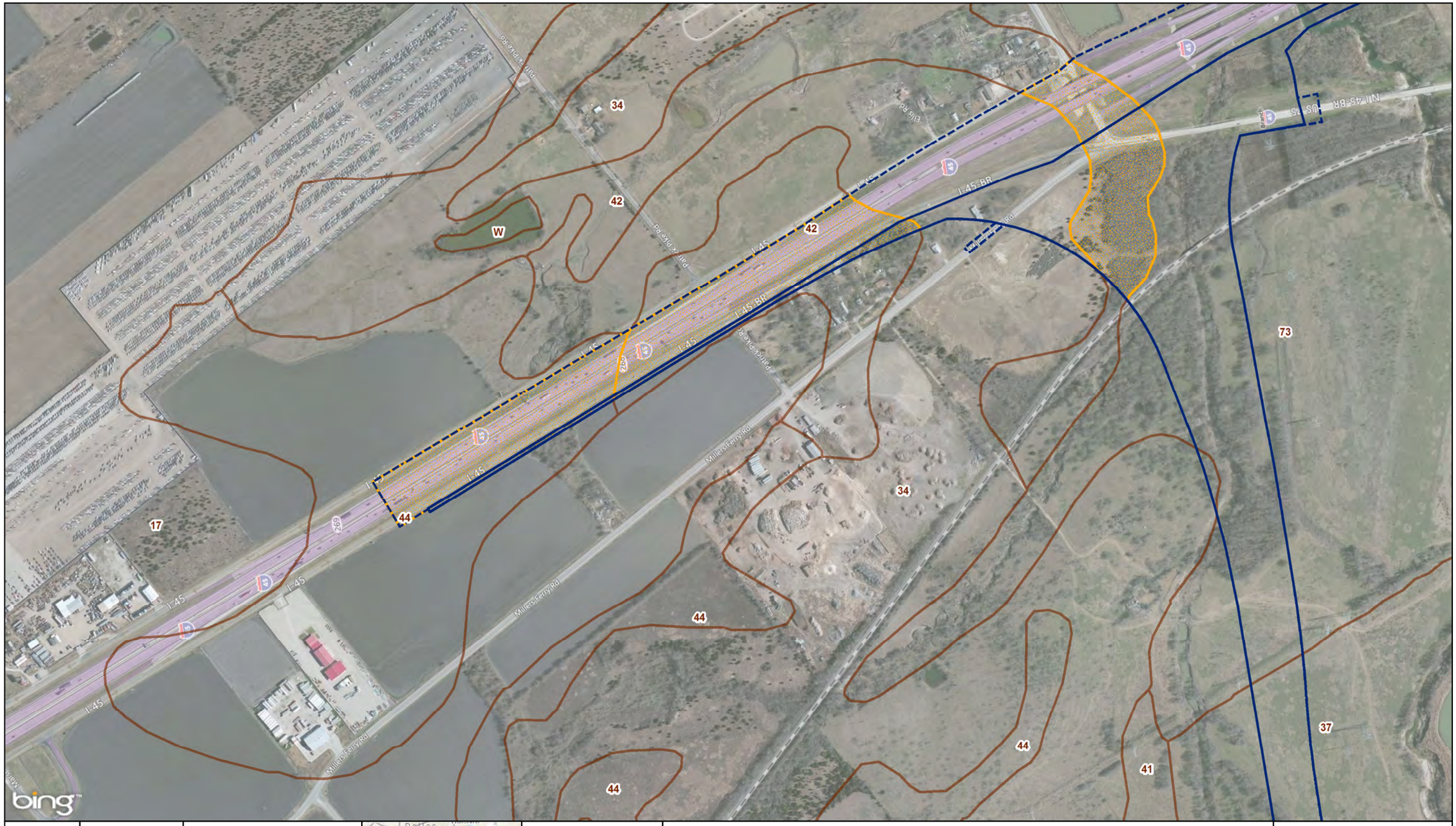

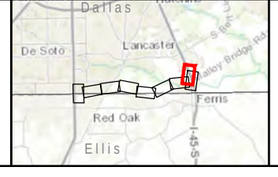

0 0.05 0.1
Miles

0 250 500
Feet

Permanent Drainage Easement
Proposed ROW
Construction Limits
Prime Farmland*
Soil

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Dallas and Ellis Counties

Soils and Prime Farmland

Loop 9: From I-35E to I-45
Dallas and Ellis Counties, Texas
CSJ: 2964-10-005

Sheet 9 of 10

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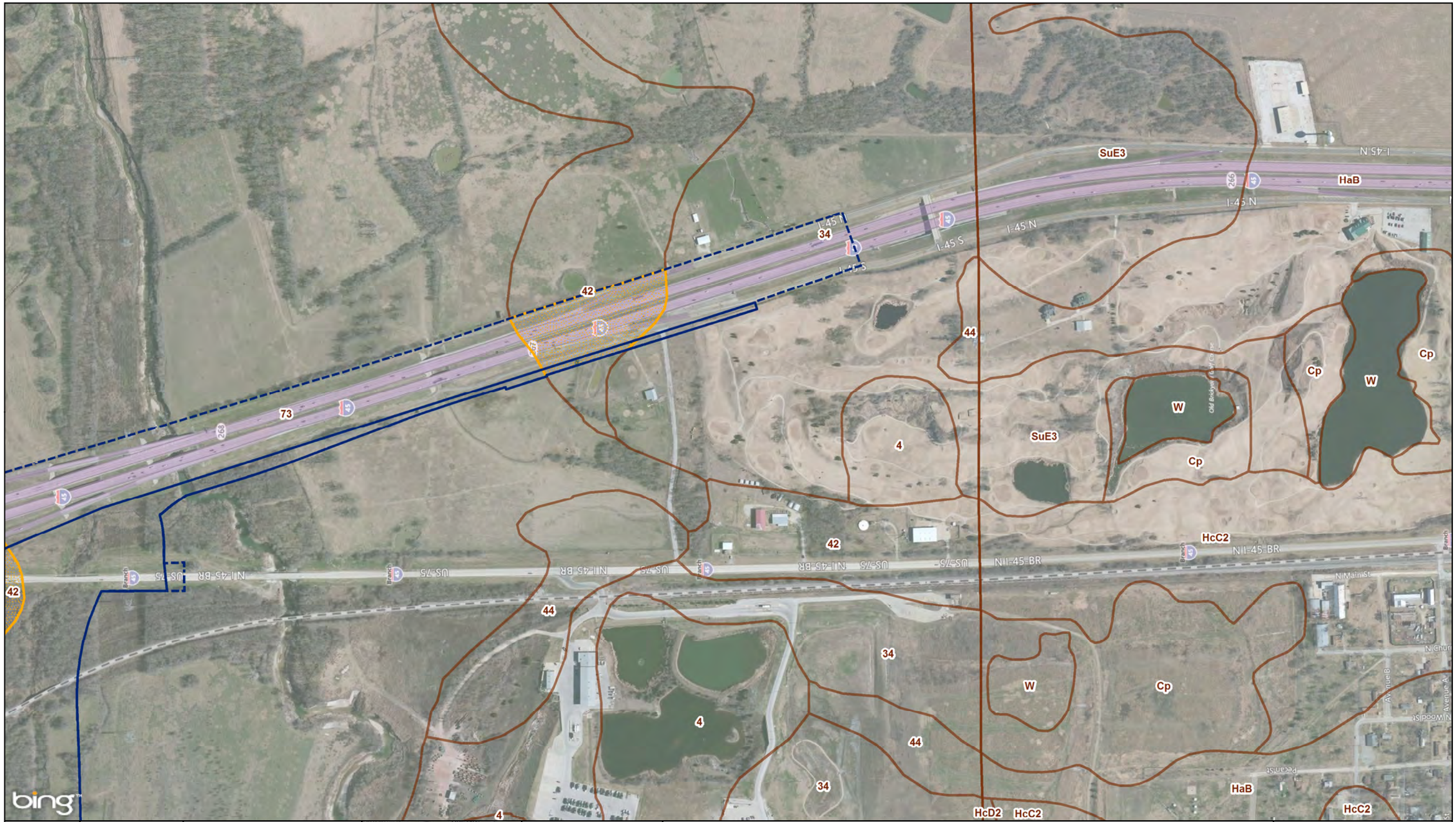
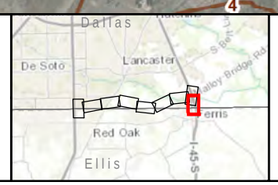
Date: 1/17/2017



Loop 9 SOUTHEAST	Texas Department of Transportation	**Dallas and Ellis Counties**		0 0.05 0.1 Miles 0 250 500 Feet	Permanent Drainage Easement Proposed ROW Construction Limits Prime Farmland* Soil *Outside US Census-identified Urbanized Areas Soils & Prime Farmland data source: USDA SSURGO, 2009	**Soils and Prime Farmland** **Loop 9: From I-35E to I-45** **Dallas and Ellis Counties, Texas** **CSJ: 2964-10-005** **Sheet 10 of 10**

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Date: 1/17/2017