

Final Environmental Assessment

FM 664, Dallas District

Project limits: From United States Highway (US) 287 to Westmoreland Road

CSJ Numbers: 1051-01-038 and 1051-01-052

Ellis County, Texas

September 2020

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

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List of Abbreviations and Acronyms

ACHP Advisory Council for Historic Preservation

ACT Antiquities Code of Texas
ACS American Community Survey
ADA American with Disabilities Act

ADT Average Daily Traffic AOI Area of Interest

APE Area of Potential Effects
BMP Best Management Practice

CALF Closed and Abandoned Landfill Inventory

CRTB Cross Timbers

CEQ Council on Environmental Quality
CFR Code of Federal Regulations
CIA Community Impacts Assessment

CO Carbon Monoxide CWA Clean Water Act

CGP Construction General Permit
EA Environmental Assessment
EIS Environmental Impact Statement

EJ Environmental Justice
ETJ Extraterrestrial Jurisdiction

EO Executive Order

EPA U.S. Environmental Protection Agency

ESA Endangered Species Act

FAA Federal Aviation Administration FHWA Federal Highway Administration FIRM Flood Insurance Rate Map

FM Farm-to-Market

FPPA Farmland Policy Protection Act
FONSI Finding of No Significant Impact

GLO General Land Office

IBWC International Boundary & Water Commission
IHWCA Industrial Hazardous Waste Corrective Action Site

ISA Initial Site Assessment LBP Lead-Based Paint

LF Linear Feet

LEP Limited English Proficiency

LWCF Land and Water Conservation Fund MOU Memorandum of Understanding

MS4 Municipal Separate Storm Sewer System

MSAT Mobile Source Air Toxics

MTP Metropolitan Transportation Plan NAAQS National Ambient Air Quality Standard

NAC Noise Abatement Criteria

NCTCOG North Central Texas Council of Governments

NEPA National Environment Policy Act NHPA National Historic Preservation Act

NOI Notice of Intent

NRCS Natural Resources Conservation Service

List of Acronyms (continued)

NRHP National Register of Historic Places

NWP Nationwide Permit

OHWM Ordinary High Water Mark
PA Programmatic Agreement

PALM Potential Archeological Liability Map

PCN Preconstruction Notification

PM Particulate Matter
PWC Parks and Wildlife Code

PS&E Plans, Specifications, and Estimates

PSL Project Specific Location
PST Petroleum Storage Tank
RCB Reinforced Concrete Box
RCP Reinforced Concrete Pipe

RCRAGR06 Resource Conservation & Recovery Act Generator

ROE Right of Entry ROW Right of Way

RSA Resource Study Area

RTHL Recorded Texas Historic Landmark
SAL State Archeological Landmark

SEMS Superfund Enterprise Management System

SEMSEARCH Superfund Enterprise Management System Archival Site Inventory

SGCN Species of Greatest Conservation Need

SH State Highway

SHPO State Historic Preservation Officer

SOC Species of Concern

STIP State Transportation Improvement Plan SW3P Storm Water Pollution Prevention Plan

TBPR Texas Blackland Prairies

TFRLCP Texas Farm & Ranch Land Conservation Program TCEQ Texas Commission on Environmental Quality

TERP Texas Emissions Reduction Plan
THC Texas Historical Commission

TIP Transportation Improvement Program

TMDL Total Maximum Daily Loads

TPDES Texas Pollutant Discharge Elimination System

TPWD Texas Parks and Wildlife Department

TSS Total Suspended Solids

TxDOT Texas Department of Transportation TXNDD Texas Natural Diversity Database

US United States

USACE U.S. Army Corps of Engineers

USCG U.S. Coast Guard

USFWS U.S. Fish and Wildlife Service

VPD Vehicles per Day

1.0 Introduction

The Texas Department of Transportation (TxDOT) Dallas District Office proposes the widening of existing Farm-to-Market (FM) 664 from United States (US) 287 to Westmoreland Road in Ellis County, Texas. This would include widening approximately 8.08 miles of FM 664. The proposed project would reconstruct, realign and widen this section of FM 664 from a 2-lane rural roadway to a 4-lane urban roadway (ultimate 6-lanes) with a raised median. See **Appendix A** for the Project Location Map.

This Environmental Assessment (EA) evaluates the social, economic, and environmental impacts of the proposed project and determines whether such impacts warrant preparation of an Environmental Impact Statement (EIS). The planning process for this project follows TxDOT and Federal Highway Administration (FHWA) environmental policies and procedures in compliance with the National Environmental Policy Act (NEPA). The EA was made available for public review and TxDOT considered all comments received. As a result, TxDOT has determined that there are no significant adverse effects as a result of the proposed project. A Finding of No Significant Impact (FONSI), will be prepared, signed, and be made available to the public.

2.0 Project Description

2.1 Existing Facility

The existing FM 664 facility between US 287 in Waxahachie and Westmoreland Road in Ovilla, Texas mostly consists of two undivided 11-foot (ft) wide lanes and 3-ft wide shoulders within an existing right-of-way (ROW) width that varies between 80 ft and 100 ft. There is an existing bridge over Red Oak Creek, and there are ditches along both sides of the roadway to provide surface drainage as well as culverts crossing along the existing roadway at multiple locations. Stormwater runoff within the limits is conveyed through an open ditch drainage system. The facility is intersected by four major collectors, including Marshall Road, Bob White Road and FM 1387 in Waxahachie, and Shiloh Road in Ovilla, and other minor collectors and local roads. Existing posted speed limits are 30 miles per hour (mph) at school zones, and 45 to 55 mph in other sections of the corridor. Refer to **Appendix B** for the project photos, **Appendix C** for the Schematics, and **Appendix D** for the existing typical sections.

2.2 Proposed Facility

The proposed project consists of the reconstruction, realigning, and widening of FM 664 from US 287 to Westmoreland Road for approximately 8.08 miles. Improvements would include the expansion of the current 2-lane rural roadway to a 4-lane urban roadway (ultimate 6-lanes) with a raised median to provide additional capacity and improve safety. Improvements would consist of 12-foot-wide travel lanes, and 14-foot-wide outside shared-use lanes, 6-foot sidewalks with American Disabilities Act (ADA) curb ramps in both directions. Other improvements would include eliminating 90-degree turns along FM 664 between FM 1387 and Marshall Road. The proposed design speed is 40 mph. The existing ROW width would increase with the proposed project to the typical 150-foot ROW footprint. The proposed project is anticipated to require 87.18 acres of additional ROW and 0.61 acre of proposed easement. Refer to Appendix C for the schematic and Appendix D for the proposed typical sections.

Federal regulations require that federally funded transportation projects have logical termini. 23CFR 771.111(f)(i). Simply stated, this means that a project must have rational beginning and endpoints. Those endpoints may not be created simply to avoid proper analysis of environmental impacts.

Logical termini for the proposed improvements to FM 664 are from US 287 (westbound frontage road) to Westmoreland Road. The reasons for the logical termini are as follows:

- US 287 This is an access-controlled freeway with entrance and exit ramps to/from FM 664. The
 existing conditions, constraints, and roadway configuration are distinctly different between the
 north and south side of US 287. Also, south of US 287 there is a future feasibility study to be
 prepared by other which is reason it was intentionally excluded from this project by using US 287
 as the southern limit.
- Westmoreland Road FM 664 "connects" into Westmoreland Road where FM 664 ends. FM 664 does continue further east though the configuration is a current construction project that would widen the existing road from 2 lanes to 6-lanes divided for the next segment of FM 664 which extends approximately 3.1 miles to the east from where FM 664 intersects into Westmoreland Road.

Federal regulations require that a project have independent utility and be a reasonable expenditure even if no other transportation improvements are made in the area. 23CFR 771.111 (f) (2). This means a project must be able to provide benefit by itself, and that the project not compel further expenditures to make the project useful. Stated another way, a project must be able to satisfy its purpose and need with other projects being built.

Within the logical termini, FM 664 is of independent utility because the proposed improvements can be accomplished without additional improvements in the proposed project area. The project limits encompass the entire length of the project in which construction would take place and account for transitions into the existing roadway. Because the project stands alone, it cannot and does not irretrievably commit federal funds for other future transportation projects.

Federal law prohibits a project from restricting consideration of alternatives for other reasonably foreseeable transportation improvements. 23 CFR 771.111(f)(3). This means that a project must not dictate or restrict any future roadway alternatives. As proposed, the FM 664 project would in no way limit consideration of improvements, or alternatives for construction of such improvements, in adjoining sections of FM 664. For this reason, the proposed project does not foreclose consideration of alternatives for other reasonably foreseeable transportation improvements.

3.0 Purpose and Need

3.1 Need

The proposed project is needed because the existing FM 664 within the project limits (a) fails to meet current safety design standards (including no sidewalks for pedestrian traffic) and has hazardous 90-degree turns, and (b) is inadequate to meet current and future traffic volumes, resulting in congestion and reduced mobility.

3.2 Supporting Facts and/or Data

According to the U.S. Census Bureau, the Census 2000 for the total population of Ellis County was 111,360. In 2010, the Census reported a total population of 149,610, an increase of 34 percent over the 10-year period. The U.S. Census Bureau's Annual Population Estimate shows the 2018 population for Ellis County to be 179,436, an increase of 19.9 percent over the previous eight years. According to the Ellis County's Thoroughfare Plan (updated presentation on December 2018), Ellis County is

projecting a population of 333,954 by the year of 2045. This would be a growth of 86 percent from the 2018 population.

Traffic volumes continue to increase as a result of area population growth and associated development. The demand along FM 664 within the project limits has grown substantially over the years and is expected to grow from 9,095 daily volumes in 2018 to 28,739 daily volumes in 2045; an increase of 116 percent. From 2014 to 2017, there have been 641 traffic collisions along FM 664 and is being considered a high crash corridor by Ellis County.

3.3 Purpose

The purpose of the proposed project is to reduce traffic congestion on the existing roadways; to improve operations of the roadway; to increase mobility (including pedestrian and bicycle accommodations); and, to provide improved connectivity to the area.

4.0 Alternatives

This section discusses the following alternatives (1) Build Alternative, (2) No-Build Alternative, and (3) Preliminary Alternatives Considered but Eliminated from Further Consideration.

4.1 Build Alternative

Approximately 87.18 acres of new ROW and 0.61 acre of proposed permanent drainage easements would be required for the Build Alternative. The Build Alternative would meet the proposed project's purpose and need by providing a north-south roadway to meet traffic demand and connect local traffic to other roadways. These proposed improvements would allow the roadway to meet current design standards.

The major design features of the proposed project include:

- The construction of an additional lane in each direction of FM 664 with curb and gutter. The
 proposed design would include 14-foot wide outside lanes designed as a shared-use lane for
 vehicles and bicycles. The construction would also include six-foot wide sidewalks throughout
 the length of the project.
- The Build Alternative meets applicable vertical design criteria. It provides desirable sight distance as well as desirable geometry along the length of the proposed project.

The proposed project is consistent with local and regional land use and transportation plans and policies in the area. It would improve mobility and provide improved system connectivity in the proposed project area. FM 664 improvements would increase the capacity and driver delay would decrease. Safety for pedestrians by adding sidewalks, and drivers (by removing 90 degree turns) should also improve with the proposed project.

4.2 No-Build Alternative

Under the No-Build Alternative, the proposed FM 664 project would not be constructed. The No-Build Alternative would not require the conversion of approximately 87.18 acres of new ROW and 0.61 acre of easements from existing land uses to transportation use (ROW) nor would other project-related impacts occur. The No-Build Alternative would not aid in traffic demand and local traffic management. Consequently, the anticipated mobility benefits of the proposed project would not be realized. For this reason, the No-Build Alternative does not meet the need and purpose for the proposed improvements

and is not the recommended alternative. However, the No-Build Alternative was carried forward for further analysis.

4.3 Preliminary Alternatives Considered but Eliminated from Further Consideration

Reconfiguring two curves was considered at two locations. However, these two options impacted more property and included displacements. The proposed build alternative avoids these additional impacts.

5.0 Affected Environment and Environmental Consequences

In support of this EA, the following technical documentation was prepared:

- Air Quality Technical Report
- Archeological Background Study
- Report for Archeological Survey
- Surface Water Analysis Form
- Tier 1 Site Assessment
- Species Analysis Form
- Species Analysis Spread Sheet
- Community Impacts Assessment Technical Report Form
- Hazardous Materials Initial Site Assessment
- Project Coordination Request for Historical Studies Project
- Historic Resources Survey Report
- Checklist for Section 4(f) De minimis
- Letter for Official with Jurisdiction Notification to Pursue De Minimis
- Indirect and Cumulative Impacts Analysis
- Traffic Noise Analysis Technical Report
- Waters of the U.S. Delineation Report

The technical reports and documents may be inspected and copied upon request at the TxDOT Dallas District Office, 4777 E. Highway 80, Mesquite, Texas 75150.

The following sub-sections identify the environmental consequence of the Build and No-Build Alternative on each resource.

5.1 Right-of-Way/Displacements

Build Alternative: The Build Alternative would require the acquisition of approximately 87.18 acres of new ROW and 0.61 acre of permanent drainage easements (**Appendix C**). The proposed project would potentially displace one residential and one commercial property. The total area of additional ROW and easements needed for the proposed project is 87.79 acres.

The ROW acquisition would be limited to those properties required for roadway construction. Encroachment-alteration effects could include the loss of developable land for light industrial use. The following are the avoidance, minimization, or compensatory mitigation features or mitigations conducted/analyzed for the Build Alternative:

• Potential displacements were minimized by avoiding impacts to structures where possible and using available vacant or open land where practicable. Constraints were mapped and used in

the planning process to avoid important resources such as places of worship, public facilities, and other various resources.

• ROW acquisition would be conducted in accordance with the Federal Uniform Relocation and Real Property Acquisition Policy Act of 1970 (Uniform Act).

No-Build Alternative: Under the No-Build Alternative, no project-related ROW would be acquired.

5.2 Land Use

Developed and undeveloped lands are present within the proposed project area. Developed land includes single-family residences, retail, commercial, public facilities, city parks, and places of worship. These properties contain structures consisting of homes, farm buildings, commercial and retail structures, storage buildings/structures, schools, churches, and other structures. Undeveloped lands comprise vacant (not utilized), agriculture (ranch and pasture), woodlands, fence row vegetation, and streams. **Appendix C** shows the proposed project corridor.

The proposed project crosses six streams comprising a tributary to Irving Branch, South Grove Creek and two of its tributaries, and Red Oak Creek and one of its tributaries. A review of Federal Emergency Management Act (FEMA) Floodplain Insurance Rate Maps (FIRMs) indicate that the majority of the project area is outside the 100-year floodplain. A small portion along Red Oak Creek is situated within the 100-year floodplain. Stream crossings and the 100-year floodplain are identified on **Figures 1 and 4** in **Appendix F**.

Build Alternative: The land use changes associated with the proposed project do not conflict with the goals of the Cities of Waxahachie and Ovilla's Comprehensive *Plan*, would not delay or interfere with any other planned improvements, and are consistent with applicable laws; therefore, no mitigation is warranted.

No-Build Alternative: Under the No-Build Alternative, the additional ROW and easements would not be obtained and there would be no land use impacts from the proposed project.

5.3 Farmlands

The project location lies within the Dallas-Fort Worth-Arlington, TX Urbanized Area, and more specifically, crosses through the urban areas of Ovilla and Waxahachie. The majority but not all of the project location is located within these urban areas. Many of the adjacent parcels currently used for agriculture are included in areas labeled as urban.

The U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) Web Soil Survey was used to determine the soil types present within the proposed project area. Soils determined to be within the existing and proposed ROW, and proposed easements are listed in **Table 1** (see **Figure 2** in **Appendix F**).

Table 1: Soil Types within the Proposed Project Area

Map Unit Name	Farmland Classification	Acres in AOI	Percent of AOI
Austin silty clay, 1 to 3 percent slopes	Farmland of statewide importance	91.2	47.7%
Austin silty clay, 2 to 5 percent slopes, moderately eroded	Not prime farmland	4.6	2.4%
Austin silty clay, 5 to 8 percent slopes, moderately eroded	Not prime farmland	2.2	1.2%
Whitewright and Austin soils, 2 to 5 percent slopes eroded	Not prime farmland	0.1	0.0%
Broken alluvial land, rarely flooded	Not prime farmland	2.7	1.4%
Eddy gravelly clay loam, 1 to 3 percent slopes	Not prime farmland	4.9	2.6%
Eddy soils, 3 to 8 percent slopes, eroded	Not prime farmland	11.4	5.9%
Eddy soils, 8 to 20 percent slopes	Not prime farmland	1.4	0.7%
Frio silty clay, 0 to 1 percent slopes, frequently flooded	Not prime farmland	1.5	0.8%
Frio silty clay, 0 to 1 percent slopes, occasionally flooded	Not prime farmland	1.2	0.7%
Houston Black clay, 1 to 3 percent slopes	All areas are prime farmland	62.9	32.9%
Stephen-Eddy complex, 1 to 3 percent slopes, eroded	Not prime farmland	3.5	1.8%
Stephen-Eddy complex, 2 to 5 percent slopes	Not prime farmland	1.3	0.7%
Stephen silty clay, 1 to 4 percent slopes	Not prime farmland	2.3	1.2%
	Total	191.2	100.0%

Source: NRCS Web Soil Survey, https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (accessed 12/11/19.)

Build Alternative: The Farmland Conversion Impact Rating for Corridor Type Projects was completed on October 28, 2019 and scored 62 (0 on Part IV) for Ellis County. The NRCS has identified the proposed corridor as containing areas of Prime Farmland. Because the project scored 62, two points beyond the 60-point threshold, coordination was triggered. Correspondence with the USDA/NCRS in November 2019 resulted in an exemption for the project, as it was within land committed to urban development due to its location within the city limits/urbanized area of Waxahachie and Dallas/Fort Worth Metroplex. Refer to the supporting coordination documentation in **Appendix G.**

Farmland impacts would not be limited to areas directly adjacent to the existing FM 664 project corridor. Certain areas of FM 664 would be realigned to eliminate dangerous 90 degree turns and would result in the division or separation of limited existing agricultural land. The majority of farmlands would continue to function as they do under existing conditions; therefore, encroachment-alteration effects stemming from farmland impacts are not significant as a result of the Build Alternative.

It is not possible to fully mitigate for the loss of agricultural acreage without bringing non-farmed land into production.

Observations made during the site reconnaissance on August 14, 2019, November 20, 2019, and December 24, 2019, revealed that active agricultural lands exist adjacent to the proposed project.

No-Build Alternative: Under the Build Alternative, the additional ROW would not be obtained and there would be no FM 664 related farmland impacts.

5.4 Utility Relocation

It is reasonably foreseeable that utilities will have to be relocated as a result of this project. The impacts resulting from removal of any utilities from within existing highway ROW have been considered as part of the project impacts under each of the resource area subheadings within this environmental assessment. Additionally, if utilities will be re-located within highway right-of-way, then the impacts resulting from re-installation of the utilities within highway right-of-way has also been considered as part of the project impacts under each of the resource area subheadings within this environmental assessment. To the extent that the owner of any displaced utility determines to re-install the displaced utility at a location outside of highway ROW, such location will be determined by the owner of the utility subject to the rules and policies governing the utility relocation process.

Build Alternative:

Required utility adjustments would occur prior to or during construction of the proposed project. Efforts would be made to minimize construction-related delays and to ensure emergency responders are aware of road conditions and lane closures. Given that both issues are limited to the construction phase and would be confined to the project area, encroachment-alteration effects are not applicable. The adjustments and relocation of any utilities would be managed so that no substantial interruptions would occur.

No-Build Alternative: Under the No-Build Alternative there would be no project-related impacts to utilities.

5.5 Bicycle and Pedestrian Facilities

Build Alternative: Bicycle and pedestrian facilities would be constructed as part of the proposed project in accordance with:

TxDOT's policy for bicycle and pedestrian accommodation and federal policy statement on Bicycle and Pedestrian Accommodations Regulations and Recommendations by the U.S. Department of Transportation signed on March 11, 2010.

- Bicycle traffic would be accommodated with 14-foot wide outside shared-use lanes with two-foot wide outside curb offsets. Six-foot wide ADA-compliant sidewalks would be included along the entire project limit (Appendix C Schematics and Appendix D Typical Sections).
- There is the potential for the proposed project area to experience changes in the mode(s) of transportation utilized by area residents and changes in traffic volumes. The introduction of new bike/pedestrian facilities in the immediate area may encourage people to pursue alternative modes of transportation. With improved access to bike/pedestrian facilities, people may have more desire to visit or use local services and facilities.

The addition of bicycle and pedestrian facilities is a positive benefit; therefore, mitigation is not warranted.

No-Build Alternative: Under the No-Build Alternative, bicycle and pedestrian facilities would not be constructed.

5.6 Community Impacts

Build Alternative: A detailed discussion of the community impacts can be found in the *Community Impacts Assessment Technical Report Form* for the proposed project.

The proposed project is anticipated to reduce travel times through the removal of 90 degree turns, with realignments over new locations with more gradual turns, and added travel lanes widening the project to four lanes with added turn lanes at median breaks. The inclusion of raised medians in the proposed project would require motorists to make U-turns at median breaks to access certain locations where median breaks are not available, reducing travel times, though general improvements and are anticipated to offset these delays. Access would be improved for non-motorists, through the inclusion of shared use paths and sidewalks. Raised medians and shared use paths would improve safety for motorists, bicyclists and pedestrians.

Proposed median break locations may impact the cohesion of homes and retail along the project corridor, but these median breaks are subject to change during the Plans, Specifications and Estimates (PS&E) phase of the project. The safety provided by raised medians would help to offset potential impacts of median break locations, overall improving community cohesion and access.

The proposed project may result in two displacements, one residential and one commercial. There is available undeveloped residential and commercial property within a reasonable distance of the displacements, though there are not available existing developments of comparable value. Alternatively, each of these would be able to rebuild on their remaining land after ROW acquisition.

Minimal adverse impacts to community cohesion would occur as the proposed project is primarily on existing roadways, and displacements are not widespread. Where the proposed project is on new locations, agricultural areas would be most affected, with certain areas being separated making them likely unusable. These would likely be the largest impacts to cohesion and impacts as residential areas would be minimal, with increases to cohesion likely with the inclusion of shared use paths and sidewalks.

No-Build Alternative: Under the No-Build Alternative, there would be no impacts to the community associated with the proposed project.

Environmental Justice

Refer to the *Community Impacts Assessment Technical Report Form* for the locations of the Environmental Justice (EJ – low income) blocks, (minority population greater than 50%) and the census data obtained from the American FactFinder.

EJ populations occur within the Community Impacts Assessment (CIA) study area. There are 30 out of 486 census blocks within the CIA study area that contain 50 percent or more minorities, with populations within these census blocks ranging from 1 to 136 people. Of these 30 census blocks, 23 have populations of approximately 10 or fewer, and two census blocks have populations estimated to be over 100, with the combined population of all EJ census blocks being 594, 3.5 percent of the total CIA study area population. There are no EJ census block groups within the CIA study area. Four EJ census blocks are adjacent to the project (See **Figure 3** in **Appendix F**).

The 2020 Department of Health and Human Services (DHHS) poverty level for a family of four is \$26,200.00. No geographies show a median household income below the DHHS poverty level. Median income in the study area within census block groups ranges from \$70,809 to \$141,818 and within census tracts ranges from \$89,559 to \$108,304 (See **Figure 3** in **Appendix F**).

Build Alternative: The proposed project would be consistent with Executive Order (EO) 12898.

Disproportionately high and adverse impacts on any minority or low-income populations are not anticipated; therefore, mitigation measures for EJ populations were not considered. There are only four EJ census blocks adjacent to the project out of 486 and displacements do not occur in them. Any adverse impacts would be equally shared between EJ populations and non-EJ populations.

No-Build Alternative: Under the No-Build Alternative, there would be no impact, adverse or beneficial, to EJ populations.

Limited English Proficiency

A detailed discussion of the Limited English Proficiency (LEP) can be found in the *Community Impacts* Assessment Technical Report Form for the proposed project.

Based on census data for LEP populations, the total recorded population (age 5 years and over) for the CIA study area is 18,350. Of the 18,350 people, 599, or 3.3 percent are LEP. The languages that LEP persons likely speak in the CIA study area are predominantly Spanish, but also include Asian and Pacific Island, Indo-European and Other languages (See **Figure 3** in **Appendix F**).

No signage in non-English languages was observed within the study area during the windshield surveys conducted in August, November, and December 2019.

Build Alternative: Reasonable steps have been and would continue to be taken to ensure LEP persons have meaningful access to the programs, services, and information TxDOT provides. Persons who have special communication or accommodation needs, or need an interpreter, have been, and will continue to be encouraged to contact the TxDOT Dallas District Public Information Office for assistance. Therefore, the requirements of EO 13166, pertaining to LEP, appear to be satisfied.

LEP populations would realize the same benefits as non-LEP populations: reduced congestion and improved mobility. The improved mobility and reduced congestion would allow for more efficient travel through the surrounding area. No adverse encroachment-alteration effects LEP populations are anticipated.

The legal notice for the March 5, 2019 public meeting was published in the Spanish language newspaper, *Al Día*, as well as two English language newspapers. Accommodations for LEP persons during public involvement have included, and would continue to include, providing bilingual (English/Spanish) public notices, placing public notice display ads in English and Spanish newspapers, and having Spanish-speaking staff present at public involvement events. In addition, the public involvement notices state that accommodations for other non-English languages would be provided if requested ahead of the meeting.

The previously discussed accommodations would be repeated for the public hearing.

No-Build Alternative: Under the No-Build Alternative, there would be no impacts to LEP populations as a result of the implementation of the proposed project.

5.7 Visual/Aesthetics Impacts

Build Alternative: FM 664 is an existing undivided two-lane roadway with one-foot wide shoulders and no bicycle/pedestrian facilities. Vegetation in the ROW consists primarily of maintained grasses with

minimal tree cover at some of the stream crossings Aesthetic enhancement of the existing roadway is minimal. The Build Alternative would have minimal effect on the overall aesthetic quality along the project area. Visual impacts resulting from the Build Alternative would include roadway widening. Because this is a change from the existing condition, the viewsheds of existing residences and business facilities would be directly impacted. However, these impacts would not be considered as being detrimental to business operations. Landscaping would not be included as a part of the proposed project.

The proposed project may incorporate safety lighting, which could be considered as a positive effect for visual and aesthetic qualities for the proposed pedestrian and bicycle accommodations. During final design, the design of light fixtures would be completed. Local, state, and federal requirements would be reviewed during design and designation of additional lighting required for this project. The roadway lighting system could consist of low-impact, downward directional lighting to minimize impacts to adjacent properties.

Where reasonable and feasible, mitigation measures that would result in beneficial visual and aesthetic impacts may be programmed for this project. These measures may include aesthetic enhancements, such as lighting, and/or decorative details. Aesthetics treatments would be developed during final design and incorporated into the project design as appropriate.

No-Build Alternative: The No-Build Alternative would not result in FM 664 project-related visual impacts along the existing corridor as the proposed improvements would not be constructed.

5.8 Cultural Resources

Evaluation of impacts to cultural resources has been conducted under Section 106 of the National Historic Preservation Act in accordance with the Programmatic Agreement among FHWA, TxDOT, the Texas State Historic Preservation Officer (SHPO) and the Advisory Council on Historic Preservation (ACHP) Regarding the Implementation of Transportation Undertakings. Cultural resources are structures, buildings, archeological sites, districts (a collection of related structures, buildings, and/or archeological sites), cemeteries and objects. Both federal and state laws require consideration of cultural resources during project planning. At the federal level, NEPA and the National Historic Preservation Act (NHPA) of 1966, among others, apply to transportation projects such as this one. In addition, state laws such as the Antiquities Code of Texas apply to these projects. Compliance with these laws often requires consultation with the Texas Historical Commission (THC)/SHPO and/or federally recognized tribes to determine the project's effects on cultural resources. Review and coordination of this project followed approved procedures for compliance with federal and state laws.

5.8.1 Archeology

The purpose of the archeological investigation is to conduct an inventory or determine the presence/absence of archeological resources (36 Code of Federal Regulations [CFR] 800.4) and to evaluate identified resources for their eligibility for inclusion on the National Register of Historic Places (NRHP), per Section 106 (36 CFR 800) of the NHPA of 1966, as amended, or as a designated state archeological landmark (SAL) under the Antiquities Code of Texas (13 Texas Administrative Code 26.12).

Between November 18 and 21, 2019, TxDOT-certified archeologists conducted an intensive archeological survey with shovel testing and backhoe trenching of approximately 8.08 miles of FM 664 between US 287 and Westmoreland Road in Ellis County, Texas. The survey found one archeological site within the Area of Potential Effect (APE). A draft report of investigations was submitted to TxDOT in December of 2019.

Prior to fieldwork, the THC's Archeological Sites Atlas was consulted to identify previous work, documented, and potential archeological sites within and surrounding the APE. Research focused on the identification of archeological sites, sites listed as SALs, Recorded Texas Historic Landmarks (RTHLs), sites listed on the NRHP, cemeteries, and previously conducted archeological surveys within one kilometer (0.62 mile) of the APE.

The search identified five previously conducted surveys and three archeological sites, two cemeteries (each with a historical marker), and three additional historical markers within a kilometer of the APE. Of the five previous surveys within a kilometer of the project area, three overlap with the current APE. Two of the overlapping surveys have no information listed on the THC Atlas. The other was performed in July of 2014 for TxDOT. Of the three previously recorded archeological sites within a kilometer of the APE, only one, 41EL258, overlaps the APE. No information for site 41EL258 was available in the THC Atlas, other than that it is ineligible for NRHP. However, no evidence of the site at the mapped locations was encountered and maintains the prior recommendation of not eligible for NRHP and SAL listings.

For this project. TxDOT has conducted a survey. The enclosed report of investigations has more details regarding this work. The following bullets summarize the identification efforts.

- The investigations reported here concern portions of the APE that did not warrant survey and portions of the APE that were accessible during survey.
- Archeology personnel undertook a survey and identified 41EL281, a historic (early 20th century)
- farmstead within the APE (recommended not eligible).
- Identified archeological sites that are not eligible for inclusion in the NRHP and/or that do not
 warrant formal designation as SALs include: 41EL258 and 41EL28L. Previously recorded site
 41EL258 is mapped as overlapping with the APE but was not relocated during this survey; it is
 recommended not eligible due to the lack of intact archeological deposits within the project ROW.
 Site 41EL281 is an early 20th century farmstead identified by a light artifact scatter detected
 within 16 out of 28 shovel tests. All artifacts were recovered less than 12 cm below the surface.
 The site lacks integrity and sufficient data to contribute important information about local history,
 and Is therefore recommended ineligible.

The proposed project would have direct effects resulting from ground-disturbing construction activities within the APE. Given the results of the identification efforts, TxDOT proposes that the project will have no effect on archeological historic properties as the APE does not contain sites that are eligible for inclusion in the NRHP or that warrant formal designation as SALs.

The project is compliant with Section 106 of the NHPA of 1966 (and subsequent amendments) and the Antiquities Code of Texas (ACT). Section 106 coordination will be conducted in accordance with the terms and conditions of the First Amended Programmatic Agreement (PA) among the FHWA, the THC, the ACHP, and TxDOT, as well as the Memorandum of Understanding (MOU) between TxDOT and the THC.

A TxDOT archeologist has reviewed the report and concurs with the results. The SHPO concurred with this assessment in a letter signed and dated January 23, 2020 (Appendix G). The identification efforts and analysis of effects completed to date are adequate. No further work or consultation is required within the evaluated portions of the APE. Once access is obtained to areas for which access has been denied, TxDOT will complete required investigations and consultation prior to construction. In the event that unanticipated archeological deposits are encountered during construction, work in the immediate area will cease and TxDOT archeological staff will be contacted to initiate post-review discovery procedures under the provisions of the PA and MOU.

Build Alternative: It is not anticipated that the proposed project would result in direct impacts to known archeological resources. In the unlikely event that cultural resources are discovered during construction of the proposed project, TxDOT would immediately initiate cultural resource discovery procedures. All work in the vicinity of the discovery would cease until a specialist from TxDOT and/or the THC could arrive on site and assess the discovery's significance and the need, if any, for additional investigation.

Consultation with federally-recognized Native American tribes was initiated on October 4, 2019 and concluded on October 17, 2019 (within 30 days from the initiation date). No objections or expressions of concern were received. See **Appendix G** for the tribal coordination documentation.

Potential impacts to archeological resources would be limited to the construction phase of the project and confined to the existing and proposed ROW/easements; thus, encroachment-alteration effects would not occur.

Once access is obtained to areas for which access has been denied, TxDOT will make a determination if mitigation would be required. It is not anticipated that the proposed project would result in direct impacts to known archeological resources.

No-Build Alternative: As construction of the proposed project would not occur, there would be no project-related impacts on archaeological resources associated with the No-Build Alternative.

5.8.2 Historic Properties

TxDOT-certified historians surveyed the project APE on October 15 and 16, 2019. It was determined through consultation with the SHPO that the APE for the proposed project is 150 feet beyond the proposed ROW boundaries for existing alignment and within the ROW for areas with no new ROW. The APE includes all parcels of land that are partially or wholly contained within the limits of the APE. The reconnaissance survey of historic-age resources (defined here as all resources built in or before 1978) resulted in the identification of 41 properties with historic-age resources within the project APE. These resources primarily consisted of domestic/residential buildings (37), church property (1) and commercial buildings (3). The majority dated to the latter end of the historic period (1950-1975), nine constructed in the 1950s or early 1960s, and only a handful (6) constructed in the 1900-1930's. Applying the Criteria for Evaluation and the aspects of integrity, project historians recommended that none of the surveyed historic-age properties are eligible for NRHP listing. Survey results and eligibility recommendations have been reviewed by TxDOT historians, and findings have been coordinated with the SHPO/THC. No finding of impacts to historic properties has been determined. See the *Historical Resources Survey Report* for FM 664 for detailed information.

Build Alternative: On January 22, 2020, TxDOT historians determined that there are no historic, non-archeological properties in the APE. Individual project coordination with SHPO is not required (**Appendix G**).

No-Build Alternative: No changes to existing conditions would occur in the No-Build Alternative scenario; therefore, no impacts to historic properties would be anticipated with the No Build Alternative.

5.9 Protected Lands

The proposed project would require ROW from Heritage Park. The park parcel is 3.3 acres (Ellis County property ID 187687). Proposed ROW acquisition from this parcel is a total of 0.15 acre, or 4.5% of the Heritage Park parcel. The improved FM 664 is proposed to be constructed on the southernmost edge

of the Heritage Park parcel. At the particular location in which the 0.15 acre of proposed ROW is required, widening of FM 664 is primarily occurring on the north side of the road. Proposed ROW acquisition at this location would allow adequate space for widening. These improvements would not jeopardize the property's function as a city park. Parking and pedestrian access would not be compromised.

Chapter 26 of the Texas Parks and Wildlife Code (PWC) protects the taking of public land designated and used prior to the arrangement of the project as a park, recreation area, scientific area, wildlife refuge, or historic site. One property in the project area (Heritage Park) would experience direct effects by the proposed project. Therefore, Chapter 26 does apply and would fall under the auspices of Section 4(f).

The proposed project would not use any lands protected by Section 6(f) of the Land and Water Conservation Fund (LWCF) Act. There are no Section 6(f) resources in the project area.

Build Alternative

Historic Properties.

As described in the previous section, no sites of potential historic significance are located adjacent to the proposed project were identified. See Section 5.8.2 - Historic Properties for a summary on historic properties. No finding of impacts to historic properties has been determined. Refer to Section 5.8.2 - Historic Properties for a summary on historic properties. Individual project coordination with SHPO is not required. See **Appendix G** for the coordination documentation.

Parkland

Section 4(f) protects publicly owned land from a public park, recreation area, or wildlife and waterfowl refuge of national, State or local significance, and any land from an historic site of national, State, or local significance. As described above the project would require approximately 0.15 acres of ROW, constituting a use from the Heritage Park. TxDOT and City of Ovilla considered a Section 4(f) de minimis impact determination for impacts to Heritage Park, a designated public park in the City of Ovilla. A Section 4(f) de minimis finding means that the proposed project would not adversely affect the activities, features, or attributes that qualify Heritage Park for protection under Section 4(f). A virtual public hearing was held on July 9th, 2020 to receive comments on the project in general, and on impacts to the Heritage Park specifically. No comments were received on the Park. On September 1, 2020, the Section 4(f) *de minimis* findings for the proposed project was approved. See **Appendix H** for the coordination documentation.

No other Build Alternatives were considered due to the narrow roadway conditions at this location.

No-Build Alternative: As construction of the proposed FM 664 project would not occur, there would be no project-related impacts on Section 4(f), Section (6)f, and PWC Chapter 26 properties associated with the No-Build Alternative.

5.10 Water Resources

5.10.1 Clean Water Act Section 404

This project will involve regulated activity in jurisdictional waters and therefore will require authorization under Section 404 of the Clean Water Act (CWA). The following table shows the waters that are anticipated to be jurisdictional waters in which regulated activity is anticipated to take place. It also indicates whether the impacts are anticipated to be authorized under Section 404 by a non-

reporting nationwide permit (i.e., no pre-construction notification required), or if it is anticipated that a nationwide permit with pre-construction notification, individual permit, letter of permission, or regional general permit will be required.

The proposed project crosses six streams comprising a tributary to Irving Branch, South Grove Creek and two of its tributaries, and Red Oak Creek and one of its tributaries. **Table 2** lists the Waters of the U.S. in the proposed project area, amount of impacts to the water bodies that would result from implementation of the proposed project, and the applicable U.S. Army Corps of Engineers (USACE) permit.

Table 2: Impacts to Waters of the U.S.

					Perma	nent Fill	Tempo	orary Fill		
Crossing No.	Name of Water Body or other location indicator	Approx. OHWM (feet)	Existing Structure	Proposed Work or Structure	Open Waters (acres and linear feet)	Wetlands or other Special Aquatic Sites (acres)	Open Waters (acres and linear feet)	Wetlands or other Special Aquatic Sites (acres)	NWP	PCN (Y/N)
1	Intermittent Tributary to Irving Branch	10	Culvert	Culvert Replacement	270 LF 0.04 acre	-	67 LF 0.02 acre	-	14	No
2	Intermittent Tributary to South Grove Creek	8	Culvert	Culvert Replacement	21 LF 0.01 acre	-	0	-	14	No
3	Intermittent Tributary to South Grove Creek	8	Culvert	Culvert Replacement	83 LF 0.02 acre	-	55 LF 0.01 acre	-	14	No
4	South Grove Creek	10	None	Culvert Installation	158 LF 0.04 acre	-	0	-	14	No
5	Red Oak Creek	45	Bridge	Bridge Installation	0	-	114 LF 0.11 acre	-	14	No
6	Intermittent Tributary to Red Oak Creek	16	None	Culvert Installation	312 LF 0.13 acre	-	0	-	14	Yes

LF - Linear Feet

OWHM - Ordinary High Water Mark

NWP - Nationwide Permit

PCN - Preconstruction Notification

RCP - Reinforced Concrete Pipe

RCB - Reinforced Concrete Box

Impacts to Waters of the U.S. within the proposed project limits would result from the widening of the roadway, which include culvert installation, culvert replacement, paved roadway construction, and bridge column and riprap installation (see **Table 2** and **Figure 4** in **Appendix F**). See the Waters of the U.S. Delineation Report for detailed information and figures.

"The need for an individual permit under Section 404 is not anticipated. If it is later determined that an individual permit under Section 404 is needed, compliance with EPA's Section 404(b)(1) Guidelines will be confirmed prior to submittal of the individual permit application.

Crossings 1 through 6 would be impacted by replacement/installation of culverts and bridge installation from the roadway pavement expansion. These crossings would utilize NWP 14 – *Linear Transportation Projects*. Each of the six crossings have been identified as single and complete projects.

Appropriate measures would be taken to maintain normal downstream flows and minimize flooding. Temporary fills would consist of clean materials and be placed in a manner that would not be eroded by expected high flows. Temporary fills would be removed in their entirety and the affected area returned to preconstruction elevations, and revegetated as appropriate. If the project involves stream modification, stream channel modifications, including bank stabilization, would be limited to the minimum necessary to construct or protect the structure and the immediate vicinity of the project. The activity would comply with all general and regional conditions applicable to NWP 14.

The activities at water crossings 1 through 6 have been identified as single and complete projects as defined in the NWPs because each crossing occurs at a separate and distant location and would therefore be permitted under the same NWP 14.

The proposed project would comply with U.S. Environmental Protection Agency's (EPA) Section 404(b)(1) Guidelines 40 CFR Part 230, allowing the discharge of dredged or fill material only if there is no practicable alternative that would have less adverse effects on the aquatic ecosystem. Since the proposed project would consist of extending an existing facility, and there are no other practicable build alternatives, the discharge of dredged or fill material into Waters of the U.S. is permissible.

Build Alternative: **Table 2** lists the Waters of the U.S. in the proposed project area, amount of impacts to the water bodies that would result from implementation of the proposed project, and the applicable USACE permit. A PCN would be required at Crossing 6 because the impact is greater than 0.10 acre but less than 0.50 acre, and is greater than 300 linear feet (Regional Condition 12). Compensatory mitigation would be required for this project.

The potential for project-related encroachment-alteration effects on Waters of the U.S. would be mitigated through permanent (post-construction) Best Management Practices (BMPs) as described below. To minimize the potential for adverse impacts, BMPs would be regularly inspected and proactively maintained.

No-Build Alternative: As construction of the proposed project would not occur, there would be no project-related impacts on Waters of the U.S. associated with the No-Build Alternative.

5.10.2 Clean Water Act Section 401

For a project that will use a NWP under Section 404 or Section 10, regardless of whether the NWP is non-reporting (i.e., assumed) or reporting (i.e., requires submittal of a PCN), TxDOT complies with Section 401 of the CWA by implementing TCEQ's conditions for NWPs. For projects that require authorization under Section 404 or Section 10 beyond a NWP, TxDOT complies with Section 401 of the CWA by including a Tier I or Tier II checklist (depending upon the amount of disturbance/impact) in the individual permit, letter of permission, or regional general permit application that is submitted to the USACE, and then complying with the conditions of the Tier I or Tier II checklist

General Condition 25 of the NWP Program requires applicants using NWP 14 to comply with Section 401 of the CWA. Compliance with Section 401 requires the use of BMPs to manage water quality on construction sites. General Condition 12 also requires applicants using NWP 14 to use appropriate soil erosion and sedimentation controls.

Build Alternative: The Storm Water Pollution Prevention Plan (SW3P) would include at least one BMP from the 401 Water Quality Certification Conditions for NWPs as published by the Texas Commission on Environmental Quality (TCEQ). These BMPs would address each of the following categories:

- Category I Erosion Control would be addressed by using temporary vegetation, permanent seeding/sodding, and stone outlet structures such as stone riprap.
- Category II Sedimentation Control would be addressed by installing silt fence, rock berms, and mulch filter socks.
- Category III Post-Construction Total Suspended Solids (TSS) control would be addressed by installing vegetative-lined drainage ditches.
- Other approved methods would be substituted if necessary, using one of the BMPs from the identical category.

The potential for project-related encroachment-alteration effects on water quality would be mitigated through permanent (post-construction) BMPs as described above. To minimize the potential for adverse impacts, BMPs would be regularly inspected and proactively maintained.

BMPs would be implemented to ensure that water quality impacts would not be significant; therefore, mitigation is not considered.

No-Build Alternative: As construction of the proposed project would not occur, there would be no project-related impacts on Waters of the U.S. associated with the No-Build Alternative.

5.10.3 Executive Order 11990 Wetlands

Build Alternative: Pursuant to EO 11990 (Protection of Wetlands) and Section 404 of the CWA, field reconnaissance was conducted to identify Waters of the U.S., including wetlands, within the proposed project limits on November 20, 2019. Results of the reconnaissance did not identify wetlands within the project limits.

No-Build Alternative: As construction of the proposed project would not occur, there would be no project-related impacts on wetlands associated with the No-Build Alternative.

5.10.4 Rivers and Harbors Act

This project does not involve work in or over a navigable Water of the U.S.; therefore, Section 10 of the Rivers and Harbors Act does not apply. Likewise, a navigational clearance under the General Bridge Act of 1946, and Section 9 of the Rivers and Harbors Act (administered by the U.S. Coast Guard [USCG]) is not applicable. Coordination with the USCG (for Section 9 and the General Bridge Act) and the USACE (for Section 10) would not be required.

5.10.5 Clean Water Act Section 303(d)

The proposed project is within the Red Oak Creek watershed. However, it is not located within five linear miles of an impaired assessment unit.

5.10.6 Clean Water Act Section 402

Build Alternative: Since Texas Pollutant Discharge Elimination System (TPDES) CGP authorization and compliance (and the associated documentation) occur outside of the environmental clearance process, compliance is ensured by the policies and procedures that govern the design and construction phases of the projects. The Project Development Process Manual and the PS&E Preparation Manual require an SW3P be included in the plans of all projects that disturb one or more acres. The Construction Contract Administration Manual requires that the appropriate CGP authorization documents (Notice of Intent [NOI] or site notice) be completed, posted, and submitted, when required by the CGP, to TCEQ and the Municipal Separate Storm Sewer System (MS4) operator. It also requires that projects be inspected to ensure compliance with the CGP.

The PS&E Preparation Manual requires that all projects include Standard Specification Item 506 (Temporary Erosion, Sedimentation, and Environmental Controls), and the "Required Specification Checklists" require Special Provision 506-003 on all projects that need authorization under the CGP. These documents require the project contractor to comply with the CGP and SW3P and complete the appropriate authorization documents.

The southern half section (from Bob White Lane to US 287 in Waxahachie) of the proposed project is located outside the TxDOT's MS4 boundary area. The proposed project is located within the cities of Ovilla and Waxahachie and Ellis County Extraterrestrial Jurisdiction (ETJ) and would comply with the City of Waxahachie's applicable MS4 requirements.

No-Build Alternative: This alternative would not alter the amount of runoff generated within the proposed project area.

5.10.7 Floodplains

Ellis County and the cities of Ovilla and Waxahachie are participants in the National Flood Insurance Program. The study area is located on Flood Insurance Rate Map (FIRM) Panel Numbers 48139C0050F, 48139C0175F, 48139C0200F and 48139C0190F (effective June 3, 2013). See **Figure 4** in **Appendix F**.

Build Alternative: A review of FEMA FIRMs indicate that the majority of the project area is outside the 100-year floodplain. A small portion along Red Oak Creek is situated within Zone AE (areas subject to inundation by the 1-percent-annual-chance flood event generally determined using approximate methodologies. Because detailed hydraulic analyses have not been performed, no base flood elevations or flood depths are shown. This project is subject to and will comply with federal EO 11988 on Floodplain Management. The department implements this EO on a programmatic basis through its Hydraulic Design Manual. Design of this project will be conducted in accordance with the department's Hydraulic Design Manual. Adherence to the TxDOT Hydraulic Design Manual ensures that this project will not result in a "significant encroachment" as defined by FHWA's rules implementing Executive Order 11988 at 23 CFR 650.105(q).

No-Build Alternative: This alternative would not alter the existing level of roadway encroachments into floodplains.

5.10.8 Wild and Scenic Rivers

The proposed project would not impact any present, proposed, or potential unit of the National Wild and Scenic Rivers System.

5.10.9 Coastal Barrier Resources

The Coastal Barrier Resources Act does not apply.

5.10.10 Coastal Zone Management

The proposed project is not located within the Texas Coastal Management Plan boundary. Therefore, a consistency determination is not required.

5.10.11 Edwards Aguifer

The TCEQ Edwards Aguifer Rules and the EPA Edwards Aguifer MOU do not apply.

5.10.12 International Boundary and Water Commission (IBWC)

This proposed project does not cross or encroach upon the floodway of the IBWC ROW or an IBWC flood control project.

5.10.13 Drinking Water Systems

In accordance with TxDOT's Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges (Item 103, Disposal of Wells), any drinking water wells would need to be properly removed and disposed of during construction of the project.

5.11 Biological Resources

5.11.1 Texas Parks and Wildlife Coordination

A *TxDOT Species Analysis Spreadsheet, Tier 1 Site Assessment Form*, and supporting documents, was completed for the proposed project. It was determined that coordination with the Texas Parks and Wildlife Department (TPWD) was required per the 2013 TPWD-TxDOT MOU because:

- 1) The proposed project required an NWP with PCN from the USACE.
- 2) The proposed project may impact at least 0.10 acre of riparian vegetation, and
- 3) The proposed project disturbs habitat in an area equal to or greater than the area of disturbance indicated in the Threshold Table PA.
- 4) The proposed project may impact remnant vegetation according to NDD and TCAP review, similar to 3) above.
- 5) The proposed project includes more than 200-linear feet of stream channel at single and complete crossings.
- 6) The project is within the range of a state threatened species or SGCN as identified by the TPWD County list of Rare and Protected Species and there is suitable habitat, unless BMPs as defined in this MOU are implemented as provided by a PA.

Items in numbers 1 and 5 are discussed in **Section 5.10.1**, items in numbers 2, 3, and 4 are discussed further in **Section 5.11.2**, and item in number 6 is discussed in **Section 5.11.11**.

Early coordination with TPWD was initiated on April 10, 2020 and completed on May 21, 2020. See **Appendix G** for the coordination documentation. Documentation of the *Biological Resources Technical Report* is maintained in the project file at the TxDOT Dallas District Office.

5.11.2 Impacts on Vegetation

Build Alternative: According to the MOU with TPWD, important remnant vegetation includes 1) rare vegetation communities and 2) those that are suitable habitat for SGCNs. To address the first component, Texas Natural Diversity Database (TXNDD) data obtained from TPWD on December 4, 2019, was reviewed along with the USFWS Official Species List, dated December 4, 2019. The TXNDD

search radii were 1.5 miles and 10 miles from the proposed project. The NDD search revealed no element of occurrence record within 1.5 miles of the proposed project area. The NDD search also revealed 11 element of occurrence records within 10 miles of the proposed project area and consist of two records for the Hall's prairie clover (Dalea hallii), one record for the Cedar elm-sugarberry Series (Ulmus crassifolia-celtis laevigata series), two records for the Vertisol Blackland Prairie (Schizachyrium scoparium - Sorghastrum nutans - Andropogon gerardii - Bifora americana Vertisol Grassland), one record for the Warnock's coral-root (Hexalectris warnockiii), one record for the Ashe juniper-oak Series (Juniperus ashei-quercus spp series), one record for the Glass mountain's coralroot (Hexalectris nitida), and three records for the Black-capped vireo (Vireo atricapilla). These species and plant communities are located outside of the project area and would not be impacted by the proposed project. To address important remnant vegetation's second component, general habitat types of SGCNs that may be impacted by the proposed project include agricultural, forest, grassland, riparian, riverine, savanna/open woodland, shrubland, and woodland. These habitat types are located immediately adjacent to the existing FM 664 corridor, and each includes an edge component. The majority of riparian, riverine, woodland, and forest habitat is located along Red Oak Creek and its tributary, with smaller amounts present at tributary to Irving Branch, South Grove Creek and its tributaries, and smaller culvert crossings. Habitat in an agricultural area is present north of Marshall Road to Old Gate Drive (realignment section of the proposed project). In general, savannah/open woodland, shrubland, and grassland areas are located throughout the project area within rural residential properties, pastures, and areas used for hay production. Developed habitat is located throughout the project area. Impacts to these habitats were quantified, based on the MOU type that best fits vegetation present in the given habitat, by using the Ecological Management Systems of Texas correcting for discrepancies using actual observed vegetation types as discussed below. None of these areas that include habitat for SGCNs are considered rare or remnant vegetation communities.

The proposed project would directly impact the following MOU Type habitats: Edwards Plateau Savannah, Woodland, and Shrubland (3.0 acres); Disturbed Prairie (10.8 acres); Agriculture (34.7 acres); Riparian (3.4 acres); Urban (112.5 acres), and Open Water (0.4 acre). The vegetation impacted by the proposed project fits into the TBPR Ecoregion described in the Threshold Programmatic Agreement (PA) Under the 2013 MOU, 2017 Revision (MOU) (Threshold PA). The approximately 34.7 acres of Agriculture MOU Type habitat disturbance exceeds the 10-acre threshold described in the Threshold PA. The 3.0 aces of impacts to Edwards Plateau Savannah, Woodland, and Shrubland MOU type exceeds the 1-acre threshold described in the Threshold PA. The 10.8-acre impact to the Disturbed Prairie MOU type exceeds the 3-acre threshold described in the Threshold PA. The approximately 3.4 acres of Riparian MOU Type habitat disturbance exceeds the 0.1-acre area of threshold described in the Threshold. The approximately 26.5 acres of Tallgrass Prairie, Grassland MOU Type habitat disturbance exceeds the 2-acre threshold indicated in the Threshold PA. As stated in the Threshold PA, there is no threshold for project impacts to areas classified as the Urban MOU type or areas classified as the Open Water MOU type. Refer to the Vegetation Map (See Figure 5 in Appendix F).

Potential impacts to vegetation would be confined to the existing and proposed ROW and easements; thus, encroachment-alteration effects would not occur. Impacts to vegetation would be avoided or minimized by limiting disturbance to only that which is necessary to construct the proposed project. The removal of native vegetation, particularly mature native trees and shrubs, would be avoided to the greatest extent practicable. TxDOT-approved seed mixes that are in compliance with Executive Memorandum on Beneficial Landscaping would be used in the re-vegetation of disturbed areas.

No-Build Alternative: If the No-Build Alternative were implemented, the proposed project would not be constructed. No effects to vegetation related to the construction of the proposed project would occur.

Existing land use and activities, including routine mowing, would continue to periodically affect vegetation communities.

5.11.3 Executive Order 13112 on Invasive Species

This project is subject to and would comply with EO 13112 on Invasive Species. The department implements the EO on a programmatic basis through its Roadside Vegetation Management Manual and Landscape and Aesthetics Design Manual. Accordingly, seeding and replanting with TxDOT-approved seed mixes containing native species would be done where possible. Soil disturbance would be minimized in the right of way in order to minimized invasive species establishment.

5.11.4 Executive Memorandum on Environmentally and Economically Beneficial Landscaping

This project is subject to and would comply with the federal Executive Memorandum on Environmentally and Economically Beneficial Landscaping, effective April 26, 1994. The department implements this Executive Memorandum on a programmatic basis through its Roadside Vegetation Management Manual and Landscape and Aesthetics Design Manual. Seeding and replanting of disturbed areas with TxDOT-approved seed mixes that are in compliance with Executive Memorandum on Beneficial Landscaping would be done where possible.

5.11.5 Impacts to Wildlife

The proposed project is located in Ellis County. Developed and undeveloped lands are present within the proposed project area. Developed land includes single-family residences, retail, commercial, public facilities, and places of worship. Undeveloped lands comprise vacant (not utilized), agriculture (ranch and pasture), woodlands, fence row vegetation, streams, and ponds. Wildlife species expected to inhabit the proposed project area are likely adapted to both a rural environment as well as an urban, developed environment.

Mammalian species that likely inhabit the area include the coyote (*Canis latrans*), Virginia opossum (*Didelphis virginiana*), raccoon (*Procyon lotor*), and eastern fox squirrel (*Sciurus niger*). Amphibian and reptilian species would also utilize the different available habitats. The species would include various snakes, turtles, lizards, and frogs native to north-central Texas. Examples would be the Texas rat snake (*Elaphe obsolete lindheimen*), red-eared slider (*Trachemys scripta*), western ribbon snake (*Thamnophis proximus*), and the northern cricket frog (*Acris crepitans*). Various waterfowl species could utilize the aquatic habitat. The agricultural fields and pastures still serve as foraging areas for resident and migratory species. The presence of the following wildlife species was observed during field reconnaissance: crayfish (species unknown), eastern fox squirrel, and raccoon. There is suitable habitat present within the proposed project area for State-listed and SGCN species as discussed in **Section 5.11.11**

Build Alternative: Substantial impacts to wildlife are not anticipated. The proposed project is the widening of an existing roadway and therefore, is not newly bisecting continuous wildlife habitat. Terrestrial wildlife that does cross FM 664 would have to travel a greater distance when crossing the widened roadway upon project completion. This would result in their being exposed to predators, people, domestic pets, vehicles, etc. for a greater amount of time. Wildlife that does currently inhabit adjacent urban development and existing roadway structures (culverts, utility poles, etc.) would be temporarily impacted due to potential structural displacements/relocations and roadway structure reconstruction and relocation. It is likely that the impacted wildlife would recolonize the available habitat once construction of the proposed project is complete.

No-Build Alternative: Under the No-Build Alternative, the proposed project would not be constructed; thus, there would be no project-related impacts to wildlife.

5.11.6 Migratory Bird Protections

This project would comply with applicable provisions of the Migratory Bird Treaty Act and Texas Wildlife Code Title 5, Subtitle B, Chapter 64, Birds. It is the department's policy to avoid removal and destruction of active bird nests except through federal or state approved options and FHWA policy. In addition, it is the department's policy to, where appropriate and practicable:

- Use measures to prevent or discourage birds from building nests on Man-made structures within portions of the project area planned for construction, and
- Schedule construction activities outside the typical nesting season.

5.11.7 Fish and Wildlife Coordination Act

All impacts to Waters of the U.S. would be authorized by NWP 14 with a PCN. Therefore, the U.S. Fish and Wildlife Service (USFWS) consider Fish and Wildlife Coordination Act coordination to be complete as part of the NWPs review, which was last authorized and reissued on March 19, 2017.

5.11.8 Bald and Golden Eagle Protection Act of 2007

This project is not within 660 feet of an active or an inactive Bald or Golden Eagle nest. Therefore, no coordination with USFWS is required.

5.11.9 Magnuson-Stevens Fishery Conservation Management Act

There are no tidally influenced waters in Ellis County and the proposed project would not affect essential fish habitat. The Essential Fish Habitat/Magnuson-Stevens Fishery Conservation and Management Act does not apply.

5.11.10 Marine Mammal Protection Act

The project area does not contain suitable habitat for marine mammals.

5.11.11 Threatened, Endangered, and Candidate Species

Build Alternative: The TXNDD data obtained from TPWD on December 4, 2019 was reviewed along with the USFWS Official Species List, dated December 4, 2019. The TXNDD radius search was 1.5 and 10 miles from the proposed project. There were no known element occurrences of state or federally-listed species or managed areas within 1.5 miles of the proposed project area. Suitable habitat was also observed within the proposed project SGCN (as identified on TPWDs Annotated County of Rare Species for Ellis County on March 4, 2020. Based on field investigations conducted on August 4, 2019, November 20, 2019, and December 24, 2019 and as detailed in the *Species Analysis Spreadsheet* and *Species Analysis Form* the following were identified:

Endangered Species Act

The 1973 Endangered Species Act (ESA) provides a means for the conservation of ecosystems upon which threatened and endangered species of fish, wildlife, and plants depend, and to provide a program for endangered and threatened species conservation. Section 7 of the ESA requires Federal agencies to ensure that any action authorized, funded or carried out by them is not likely to jeopardize the continued existence of listed species or modify their critical habitat. According to the USFWS Official Species List, dated December 4, 2019, the following federally protected species may occur or could potentially be affected by the proposed project: Least Tern (Sterna antillarum), Piping Plover (Charadrius melodus), Red Knot (Calidris canutus rufa), and Whooping

Crane (*Grus americana*). USFWS designated Critical Habitat is not present within the proposed project action area.

The Official Species List states that Least Tern, Piping Plover, and Red Knot only need consideration for wind energy projects. For the Piping Plover and Red Knot, there is no suitable habitat present within the action area, such as beaches, sand, algal, or tidal flats, or sparsely vegetated shores and islands of shallow lakes, ponds, rivers, and impoundments. Effects to the Least Tern are not anticipated because there is no suitable habitat present within the action area, such as sand and gravel bars within braided streams and rivers. Therefore, TxDOT has determined that the proposed project would have no effect on Least Tern, Piping Plover, or Red Knot. There is no suitable habitat for the Whooping Crane, such as flooded agricultural fields or ponds, in the action area. Therefore, TxDOT has determined that the proposed project would have no effect on Whooping Crane.

• State-Listed Threatened Species

Suitable habitat was observed within the proposed project area for the following state-listed threatened species: Wood Stork (*Myceteria americana*), sandbank pocketbook (*Lampsillis satura*), Texas heelsplitter (*Potamilus amphicaenus*), alligator snapping turtle (*Macrochelys temminckii*), Texas horned lizard (*Phrynosoma cornutum*), and timber rattlesnake (*Crotalus horridus*). It is not anticipated that the proposed project would result in the 'take' of state-listed threatened species. These species have species-specific BMPs included in the BMP PA. Refer to **Section 8** for BMPs or mitigation strategies that will be used to avoid or minimize impacts to these state-listed threatened species.

• Species of Greatest Conservation Need

Suitable habitat was observed within the proposed project for the following SGCN: Cajun chorus frog (Pseudacris fouquettel), Strecker's chorus frog (Pseudacris streckeri), Woodhouse's toad (Anaxyrus woodhousii), Western Burrowing Owl (Athene cunicularia hypugaea), swamp rabbit (Sylvilagus aquaticus), woodland vole (Microtus pinetorum), long-tailed weasel (Mustela frenata), mink (Neovison vison), eastern spotted skunk (Spilogale putorius), western hog-nosed skunk (Conepatus leuconotus), eastern box turtle (Terrapene carolina), western box turtle (Terrapene ornata), slender glass lizard (Ophisaurus attenuatus), and Texas garter snake (Thamnophis sirtalis annectens). The list of species that do not have species-specific BMPs included in the BMP PA include the following: Cajun chorus frog, Strecker's chorus frog, Woodhouse's toad, swamp rabbit, woodland vole, long-tailed weasel, mink, western hog-nosed skunk, eastern box turtle, western box turtle, and slender glass lizard. TPWD coordination will be required and their BMPs would be developed during the coordination process. Refer to Appendix G for the coordination documentation and to Section 8 for BMPs or mitigation strategies that will be used to avoid or minimize impacts to these SGCN.

No-Build Alternative: Under the No-Build Alternative, the proposed project would not be constructed; thus, there would be no effects to federally listed threatened, endangered, or candidate species.

5.12 Air Quality

For information regarding air quality refer to the Air Quality Technical Report available at the TxDOT Dallas District office.

Build Alternative:

Transportation Conformity

This project is located within an area that has been designated by the Environmental Protection Agency (EPA) as a serious and marginal nonattainment area for the 2008 and 2015 ozone National Ambient

Air Quality Standards (NAAQS) respectively; therefore, transportation conformity rules apply. Conformity for older standards is satisfied by conformity to the more stringent 2008 and 2015 ozone NAAQS.

The proposed project is consistent with the NCTCOG's financially constrained Mobility 2045 and the 2019-2022 TIP, as amended, which were initially found to conform to the TCEQ State Implementation Plan (SIP) by FHWA and FTA on November 21, 2018. Copies of the Mobility Transportation Plan (MTP) and TIP pages are included in **Appendix E**. All projects in the 2019-2022 TIP that are proposed for federal or state funds were initiated in a manner consistent with federal guidelines in Section 450, of Title 23 CFR and Section 613.200, Subpart B, of Title 49 CFR. The total estimated cost of the proposed project is \$108 million. Sources for the funding are Federal (60 percent), State (30 percent), and Local (10 percent).

Hot-Spot Analysis

The project is not located within a carbon monoxide (CO) or particulate matter (PM) nonattainment or maintenance area; therefore, a project level hot spot analysis is not required.

Traffic Air Quality Analysis

Traffic data for the estimated time of completion (ETC) year 2025 and design year 2045 is 26,675 vehicles per day (vpd) and 38,300 vpd, respectively. A prior TxDOT modeling study and previous analyses of similar projects demonstrated that it is unlikely that the CO standard would ever be exceeded as a result of any project with an average annual daily traffic (AADT) below 140,000. The AADT projections for the project do not exceed 140,000 vpd; therefore, a TAQA was not required.

Mobile Source Air Toxics

A qualitative mobile source air toxics (MSAT) assessment has been conducted relative to the Build and No-Build Alternative. As documented in the technical report, all project alternatives may result in increased exposure to MSAT emissions in certain locations although the concentrations and duration of exposure are uncertain. Because of this uncertainty, the health effects from these emissions cannot be estimated. However, on a regional basis, EPA's vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions that, in almost all cases, will cause region-wide MSAT levels to be significantly lower than today.

Congestion Management Process

The proposed project is adding single-occupant vehicle capacity and is a project with FHWA/FTA involvement; therefore, a Congestion Management Process (CMP) analysis is required. The proposed project is within the Dallas-Fort Worth Transportation Management Area (TMA).

A CMP analysis was prepared in accordance to the TxDOT's Standards Operating Procedure for Complying with CMP Requirements and Standard Operating Procedures for Preparing Air Quality Statements. Committed congestion reduction strategies and operational improvements within the study boundary would consist of access management improvements (turn lanes); addition of new lanes; intersection improvements; bicycle and pedestrian facility improvements; and traffic signal improvements. Individual projects are listed in **Table 3**.

Table 3: CMP Projects

<u> </u>						
Operational Improvements in the Travel Corridor						
Location	Туре	Implementation Date				
Interstate Highway 35E From US 77 South to US 77 North	Intersection Improvement	2028				
FM 1387 From Midlothian Parkway to FM 664	Reconstruction, Addition of Lanes	2023				

Source: NCTCOG Transportation Improvement Program Information System. Accessed October 25, 2019.

Construction Air Emissions

During the construction phase of this project, temporary increases in PM and MSAT emissions may occur from construction activities. The primary construction-related emissions of PM are fugitive dust from site preparation, and the primary construction-related emissions of MSAT are diesel particulate matter from diesel powered construction equipment and vehicles.

The potential impacts of particulate matter emissions will be minimized by using fugitive dust control measures contained in standard specifications, as appropriate. The Texas Emissions Reduction Plan (TERP) provides financial incentives to reduce emissions from vehicles and equipment. TxDOT encourages construction contractors to use this and other local and federal incentive programs to the fullest extent possible to minimize diesel emissions. Information about the TERP program can be found at: https://www.tceq.texas.gov/airquality/terp.

However, considering the temporary and transient nature of construction-related emissions, the use of fugitive dust control measures, the encouragement of the use of TERP, and compliance with applicable regulatory requirements, it is not anticipated that emissions from construction of this project will have any significant impact on air quality in the area.

No-Build Alternative: This alternative would result in gradually increasing vehicle miles travelled as traffic volumes increase and traffic congestion worsens within the existing roadway system over time. Actual and predicted trends in both criteria pollutant and MSAT emissions would be expected to continue in the future, regardless of the alternative chosen.

5.13 Hazardous Materials

A Hazardous Materials Initial Site Assessment (ISA) was completed and approved on November 13, 2019 to summarize potential hazardous materials within and adjacent to the project corridor. The ISA included a site reconnaissance and environmental regulatory database search for the project area. The ISA was completed to identify sites or facilities that might pose a potential for hazardous materials impacts to the proposed project. The ISA is maintained in the TxDOT Dallas District project files.

Build Alternative: Based on an evaluation of the sites identified in the environmental regulatory database search, a brief summary of regulated sites of concern within the proposed project limits is provided in **Table 4.** These sites are discussed following the table and site locations are shown on the Hazardous Materials Site Location Map (see **Figure 6** in **Appendix F**).

Table 4: Summary of Regulated Sites of Concern

Map ID*	Site Information	Database	Location Relative to Project		
2	Ovilla Market 3321 Ovilla Road Ovilla, TX 75154	PST Facility ID: 57352 Risk Level: Moderate.	A minor amount of ROW acquisition is required for this site and is in close proximity to the fuel pump islands. Proposed work activity adjacent to this facility includes some excavation. Based on ROW acquisition, proposed work activity, the age of the tanks and close proximity of the tanks and fuel pump island to proposed ROW, this site is considered a moderate environmental risk.		
3	Former Gas Station (currently Ovilla Car Wash) 696 W. Main Street Ovilla, TX 75154 Former Gas Station PST Facility ID: 73130 Risk Level: Low.		ROW acquisition is proposed from the south and east sides of this property. Based on the removal of the tanks, no reported releases and redevelopment of the site, this site is considered a low environmental risk.		
N/A	N/A Tote-A-Way 2 (currently Teachers Who Tutor) 3323 FM 664 Ovilla, TX 75154 Tote-A-Way 2 PST Facility ID: 6 Risk Level: Low.		This site has a minor amount of ROW acquisition proposed. Based on the removal of the tanks, no reported releases, and reuse of the site, this location is considered a low environmental risk.		
PST - Petroleum Storage Tanks *Map ID numbers correspond to those used in the ISA.					

Sources: GeoSearch (May 29, 2019) and Site Survey (November 20, 2019).

The proposed project would also include the demolition of buildings and bridges. Asbestos-containing materials (ACM) and lead-containing paint (LCP) may be present in the structures. Asbestos and LCP inspections, notification, and removal, as applicable, would be addressed prior to demolition in accordance with regulatory requirements. Detailed information about the hazardous materials evaluation conducted for the project can be found in the ISA available for review at the TxDOT Dallas District office.

No-Build Alternative: Under the No-Build Alternative, the proposed project would not be constructed; thus, project-related hazardous materials impacts would not occur.

5.14 Traffic Noise

A traffic noise analysis was prepared in accordance with TxDOT's (FHWA-approved) Traffic Noise Policy (2011). The Traffic Noise Analysis Report (2019), which includes details about the analysis, is available for public review at the TxDOT Dallas District office.

Build Alternative: Existing and predicted traffic noise levels were modeled at representative land use activity areas (receptors) adjacent to the project that might be impacted by traffic noise and would potentially benefit from feasible and reasonable noise abatement.

Modeled noise-sensitive locations were primarily residential, but also included a charter school and its associated baseball field, church, a church playground, and a medical facility gazebo area. The traffic noise analysis determined that out of 48 representative receptors, four were predicted to have noise levels that approach or exceed the FHWA noise abatement criteria or that substantially exceed the existing noise levels; therefore, the proposed project would result in traffic noise impacts (see Figure 7 in Appendix F).

Noise abatement measures were considered and analyzed for each impacted receptor location. Abatement measures, typically noise barriers, must provide a minimum noise reduction, or benefit, at or above the threshold of $5 \, dB(A)$. A barrier is not acoustically feasible unless it reduces noise levels by at least $5 \, dB(A)$ at greater than 50% of first-row impacted receptors and benefits a minimum of two impacted receptors. To be reasonable, the barrier must not exceed the cost reasonableness allowance of \$25,000 square feet per benefited receptor and must meet the noise reduction design goal of $7 \, dB(A)$ for at least one receptor.

Noise barriers were not reasonable and feasible for the impacted representative receivers, and abatement is not proposed for those locations. Additional details regarding the barrier analysis can be found in the *Traffic Noise Analysis Report* (2020). Any subsequent project design changes may require a reevaluation of this preliminary noise barrier proposal. The final decision to construct the proposed noise barrier will not be made until completion of the project design, utility evaluation, and polling of all benefited and adjacent property owners and residents

To avoid noise impacts that may result from future development of properties adjacent to the project, local officials responsible for land use control programs must ensure, to the maximum extent possible, that no new activities are planned or constructed along or within the following predicted (2045) noise impact contours (**Table 5**).

Table 5: Noise Impact Contours in the Project Study Area

Table of Nelso impact contours in the Heject stady Alex							
Operational Improvements in the Travel Corridor							
Limits	Land Use NAC Category	Impact Contour ¹	Distance from Proposed ROW Line				
US 287 to Valley View Drive	B&C	66 dB(A)	55 feet				
US 287 to valley view brive	E	71 dB(A)	15 feet				
Valley View Drive to Marshall Road	B & C	66 dB(A)	35 feet				
valley view brive to Marshall Road	Е	71 dB(A)	Within ROW				
Marshall Road to FM 1387	B & C	66 dB(A)	25 feet				
iviaisiiaii Roau to Fivi 1387	E	71 dB(A)	Within ROW				
FM 1387 to Shiloh Road	B&C	66 dB(A)	20 feet				
T W 1307 to Simon Road	E	71 dB(A)	Within ROW				
Shiloh Road to Westmoreland Road	B&C	66 dB(A)	55 feet				
Sillion Road to Westinoreland Road	Е	71 dB(A)	15 feet				

 $[{]f 1}$ – Impact contours are one dB(A) lower than the NAC per category to reflect impacts that would occur as a result of approaching the NAC for the respective contours.

Noise associated with the construction of the project is difficult to predict. Heavy machinery, the major source of noise in construction, is constantly moving in unpredictable patterns. However, construction normally occurs during daylight hours when occasional loud noises are more tolerable. None of the receptors is expected to be exposed to construction noise for a long duration; therefore, any extended disruption of normal activities is not expected. Provisions will be included in the plans and specifications that require the contractor to make every reasonable effort to minimize construction

noise through abatement measures such as work-hour controls and proper maintenance of muffler systems

A copy of this traffic noise analysis will be available to local officials to assist in future land use planning. On the date of approval of this document (Date of Public Knowledge), FHWA and TxDOT are no longer responsible for providing noise abatement for new development adjacent to the project.

No-Build Alternative: Under the No Build Alternative, the proposed project would not be constructed. If the No Build Alternative were implemented, traffic noise levels would be expected to increase with an associated future increase in traffic volumes.

5.15 Induced Growth

The Council on Environmental Quality (CEQ) defines indirect effects as those caused by the action and occur later in time or farther removed in distance than direct effects but are still reasonably foreseeable. Indirect impacts may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems (40 CFR Section 1508.8).

Build Alternative: An analysis of indirect impacts followed the processes outlined in TxDOT's Indirect Impacts Analysis Guidance (January 2019). Refer to the FM 664 *Indirect and Cumulative Impacts Analysis* Technical Report for a detailed discussion of the indirect effects analysis.

Results of the analysis indicate that there is no potential induced growth to occur within the 25,584.7 acres of Area of Influence (AOI) as a result of the proposed project within the Cities of Waxahachie and Ovilla. No induced growth was indicated in the Cities of Cedar Hill, Glenn Heights, Midlothian, and Oak Leaf. The AOI map is provided as **Figure 8** in **Appendix F**.

Based on the information from the planning departments of the Cities of Ovilla and Waxahachie, planning documents, land use and zoning maps, thoroughfare plans, and population, employment and housing trend data, there is no potential for induced growth. The planning representatives did not believe that the proposed project would create substantial enough changes to drive growth in the area, but it would help to address the already growing transportation demands and general growth trends of the region. Due to the lack of induced growth within the Cities of Waxahachie and Ovilla, the only two cities with borders encompassing the project location, it was not deemed necessary to contact cities further away. The proposed project would not result in any resources being impacted by induced growth impacts.

No-Build Alternative: This alternative would not result in induced growth.

5.16 Cumulative Impacts

The CEQ defines cumulative impacts as those which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time (40 CFR §1508.7). As such, it may be difficult to understand the role that a proposed action may have in contributing to the overall or cumulative impacts to an area or resource.

Build Alternative: An analysis of cumulative impacts followed the processes outlined in TxDOT's Cumulative Impacts Analysis Guidelines (January 2019). Refer to the FM 664 *Indirect and Cumulative Impacts Analysis* Technical Report for a detailed discussion of the cumulative impact analysis.

The Resource Study Area (RSA) totals 43,367.5 acres. A map of the RSA is provided as **Figure 9** in **Appendix F**.

The cumulative impacts on non-urban vegetation and wildlife habitat resulting from the approximately 33.7 acres of direct impacts, 0 acres from induced growth impacts, and 24,666.1 acres of impacts from the past, present, and reasonably foreseeable actions would total approximately 24,699.8 acres. The cumulative impacts to vegetation and wildlife habitat would affect approximately 66 percent of the approximately 37,555.4 acres of non-Urban MOU Habitat-type vegetation within the RSA.

While cumulative impacts would affect approximately 24,699.8 acres of non-Urban MOU Habitat-type vegetation and potential wildlife habitat, it is likely that much of the wildlife that resides in the RSA would migrate to other areas of available non-human-altered habitat such as those protected within floodplain areas near rivers, streams and lakes. In addition, riparian areas are known to be migration corridors for wildlife. It is expected that these areas would not be adversely affected due to municipal protections to riparian resources within floodplains. That is, restrictions on construction within floodplains and tree preservation regulations make it probable that most of the riparian habitat within the RSA would not be subject to widespread removal. Based on the continued availability of protected habitat areas, the potential cumulative impact occurring over a 44-year period, allowing for resource recovery; and assuming appropriate implementation of regulated avoidance, minimization, and mitigation strategies for vegetation and habitat impacts, the proposed project would not contribute to substantial cumulative impacts to the area's vegetation and habitat.

Incorporating parks, open spaces, and riparian corridors around and within developed areas would provide wildlife habitat and shelter. Planting these areas with native fruit or nut-bearing trees and shrubs, and native grain-bearing grasses would provide food for wildlife and would help to mitigate impacts to habitat used by wildlife. This mitigation could be conducted by whoever is responsible for the impact such as a city or a developer. Private development within the associated municipalities within the RSA (Cedar Hill, Glenn Heights, Midlothian, Oak Leaf, Ovilla, and Waxahachie and, to a lesser extent, Ellis and Dallas Counties) would be subject to the laws and ordinances regulating residential, commercial and industrial development set by each municipal government. Examples of municipal government regulations include the City of Waxahachie's Landscape Requirements, and the City of Midlothian's Landscape Requirements and Tree Credits. Mitigation could include mandatory park areas or a limit on lot sizes. State and federal entities protect the quality of water and wildlife habitat in the area and additional development would follow the requirements of state and federal regulations.

The cumulative impact on prime farmland soils subject to the FPPA resulting from the approximately 94.1 acres of direct impacts, 0 acres from induced growth impacts, and 8,506.1 acres of impacts from the previously described other past, present, and reasonably foreseeable actions would total 8,600.2 acres. The cumulative impacts to prime farmland soils subject to the FPPA would affect approximately 77 percent of the approximately 11,195.3 acres of prime farmland soils subject to FPPA within the RSA.

Private developers would not be subject to the FPPA for impacts to prime farmland soils and farmland soils of statewide importance. The Texas Farm and Ranch Lands Conservation Program (TFRLCP), created in 2005, is a grant-making program that provides landowners with financial incentives to conserve their land and productivity through Agricultural Conservation Easements. These easements restrict all future development while allowing the landowner to continue farming or ranching (American Farmland Trust, 2009). The TFRLCP was transferred from the Texas General Land Office (GLO) to TPWD in 2016. Approved grant projects awarded by the Texas GLO range in size from 175 acres to 2,995 acres and by the TPWD range in size from 144 acres to 7,229 acres. This type of program could

be effective mitigation within the Farmland (Soils) RSA. The average farm size in Ellis County is 209 acres.

No-Build Alternative: The implementation of this alternative would not contribute to cumulative impacts in the 43,367.5-acre RSA for vegetation and wildlife habitat and prime farmland soils.

5.17 Construction Phase Impacts

Build Alternative: Depending on required traffic control and phasing, the construction phase of the proposed project, and associated construction impacts, is anticipated to be 24 to 36 months. During the construction phase of the proposed project, there is the potential for noise, dust or light pollution; impacts associated with physical construction activity and other traffic disruptions. These potential impacts are discussed as follows:

Construction Noise – Noise associated with the construction of the project is difficult to predict. Heavy machinery, the major source of noise in construction, is constantly moving in unpredictable patterns. However, construction normally occurs during daylight hours when occasional loud noises are more tolerable. None of the receptors is expected to be exposed to construction noise for a long duration; therefore, any extended disruption of normal activities is not expected. Provisions will be included in the plans and specifications that require the contractor to make every reasonable effort to minimize construction noise through abatement measures such as work-hour controls and proper maintenance of muffler systems.

Fugitive Dust and Air Pollutants – "During the construction phase of this project, temporary increases in particulate matter (PM) and MSAT emissions may occur from construction activities. The primary construction-related emissions of PM are fugitive dust from site preparation, and the primary construction-related emissions of MSAT are diesel particulate matter from diesel powered construction equipment and vehicles. The potential impacts of PM emissions will be minimized by using fugitive dust control measures contained in standard specifications, as appropriate. Considering the temporary and transient nature of construction-related emissions, as well as the mitigation actions to be utilized including compliance with applicable regulatory requirements, it is not anticipated that emissions from construction of this project will have a significant impact on air quality in the area.

Light Pollution – Construction normally occurs during daylight hours; however, construction could occur during the night-time hours to minimize impacts to the traveling public during the daylight hours. Due to the close proximity of residences and businesses to the project, if construction were to occur during the night-time hours, it would be of short duration and would not be conducted late in the evening. Construction during the night-time hours would follow any local policies and ordinances established for construction activities, such as light limitations.

Construction Activity Impacts – Construction activities would be limited to the proposed project footprint. Excessive vibration from construction equipment is not anticipated. If there was excessive vibration from construction equipment, it would be of short duration.

Traffic control plans would be prepared and implemented in coordination with the city and the county. Construction that would require cross street closures would be scheduled so only one crossing in an area is affected at one time. Where detours are required, clear and visible signage for an alternative route would be displayed. In residential areas, major activity would be limited to normal work hours whenever practicable, to avoid noise and related impacts to the local population.

Temporary Lane, Road or Bridge Closures (Including Detours) – Traffic control plans would be prepared and implemented in coordination with the city and the county. Construction that would require cross

street closures would be scheduled so only one crossing in an area is affected at one time. Where detours are required, clear and visible signage for an alternative route would be displayed.

Motorists would be inconvenienced during construction of the project due to lane and cross-street closures; however, these closures would be of short duration and alternate routes would be provided. Residents and businesses in the immediate construction area would be notified in advance of proposed construction activity using a variety of techniques, including signage, electronic media, community newspapers, and other techniques. The proposed project would not restrict access to any existing public or community services, businesses, commercial areas, or employment centers.

No-Build Alternative: This alternative would not result in noise, dust or light pollution; impacts associated with physical construction activity, temporary lane, road closures; and other traffic disruptions associated with construction.

6.0 Agency Coordination

Coordination with the THC, FAA, TCEQ, TPWD, and federally-recognized tribes have occurred under TxDOT's respective MOUs and PA with these agencies/entities. See **Appendix G** for the written coordination exchanges.

7.0 Public Involvement

Public Meeting

A public meeting was held at Waxahachie Civic Center located at 2000 Civic Center Lane, Waxahachie, Texas 75168 on March 5, 20197. The meeting was held in an open house format from 6:00 p.m. to 8:00 p.m. to allow for questions and review of project exhibits. TxDOT and consultant personnel were available to answer questions during the open house. The total registered attendance at the public meeting was 176 persons, which was comprised of six elected official and 152 members of the public. A total of nine project staff members from TxDOT, and nine project consultants also attended. The meeting was held to share information about the project and seek input from area residents. Fifty-one written comments were received at the public meeting. Three comments were received before the Public Meeting. Forty-two written comments were received during the 15-day comment period that ended on May 20, 2019. Primary issues raised at the Public Meeting were noise concerns, additional right-turn lanes recommended, and median openings. A noise analysis was conducted, right-turn lanes are being added at various locations, and median openings will be added where applicable.

The public meeting documentation may be inspected and copied upon request at the TxDOT Dallas District Office.

Public Hearing

The NOA of the Draft EA was published in both English and Spanish in various newspapers that serve the project area, and was also made available online at www.txdot.gov and www.keepitmovingdallas.com. The Draft EA, maps showing the proposed project location and design, and other information regarding the project are on file and available online at http://www.keepitmovingdallas.com/FM664.

An on-line virtual public hearing was held on July 9, 2020 at http://www.keepitmovingdallas.com/FM664. A total of 4,502 persons viewed the project website. Additionally, TxDOT provided an in-person option for individuals wanting to participate in-person rather

than on-line. Attendees at the in-person option were able to view the same presentation delivered in the virtual on-line public hearing, review hard copies of project materials, and leave written comments. The in-person option was be held on Tuesday, July 14, 2020 from 10 a.m. to 2 p.m. and 4 p.m. to 7 p.m. at the TxDOT Area Office in Waxahachie, Ellis County, Texas. Attendance at the in-person option was initially by appointment only. The requirements for the in-person component of the Public Hearing was changed the day of and walk ins were also accepted at the in-person option. In recognition of COVID-19, enhanced safety measures were applied at the in-person option, including a requirement to wear a face mask and follow social distancing. A total of 8 persons signed up for and attended the in-person Public Hearing.

There were 55 commenters from the virtual public hearing. Ten of the comments were for support of the project and 21 comments were opposed. The remaining comments had varying questions regarding the expected timeline, how medians would be determined, how the ROW acquisition works, how will noise impacts be addressed, and a variety of other questions. The virtual public hearing documentation will be available online at http://www.keepitmovingdallas.com/FM664. The Virtual Public Hearing Viewer Analytics Page and Virtual Public Hearing Comment and Response Matrix are included in Appendix I.

A notice of impending construction would be provided to owners of adjoining property and affected local governments and public officials. The notice may be provided via a sign or signs posted in the ROW, mailed notice, printed notice distributed by hand, or notice via website when the recipient has previously been informed of the relevant website address. This notice would be provided after the environmental decision (i.e. FONSI), but before earthmoving or other activities requiring the use of heavy equipment begin.

8.0 Post-Environmental Clearance Activities and Design/Construction Communities

8.1 Post-Environmental Clearance Activities

TxDOT would comply with the requirements of the TCEQ TPDES General Permit No. TxR150000. In order to comply with TPDES General Permit Number TxR150000 for Construction Activities requirements, a NOI would be filed with TCEQ stating that TxDOT would have a SW3P in place during construction of this project. A construction site notice would be posted on the construction site. This SW3P utilizes the temporary control measures as outlined in TxDOT's manual Standard Specifications for the Construction of Highways, Streets, and Bridges.

The Build Alternative is located outside the TxDOT's MS4 boundary area. The proposed project is located within the City of Ovilla and Waxahachie and would comply with their (Phase 4) applicable MS4 requirements.

The proposed project would be compliant with 23 CFR 650 regarding location and hydraulic design of highway encroachments within the floodplains, and the proposed project would comply with EO 11988, Floodplain Management. Local floodplain administrator coordination would be conducted. The placement of temporary or permanent dredge or fill material into potentially jurisdictional Waters of the U.S. at Crossings 1 through 6 would be authorized under NWP 14. A PCN would be required for the proposed project at Crossing 6. The PCN and required fulfillment of required compensatory mitigation will be completed prior to project construction.

8.2 Design/Construction Commitments

1.) Section 401 and 404

Appropriate measures would be taken to maintain normal downstream flows and minimize flooding. Temporary fills would consist of clean materials and be placed in a manner that would not be eroded by expected high flows. Temporary fills would be removed in their entirety and the affected area returned to preconstruction elevations, and revegetated as appropriate. If the project involves stream modification, stream channel modifications, including bank stabilization, would be limited to the minimum necessary to construct or protect the structure and the immediate vicinity of the project. The activity would comply with all general and regional conditions applicable to NWP 14.

General Condition 25 of the NWP Program requires applicants using NWP 14 to comply with Section 401 of the CWA. Compliance with Section 401 requires the use of BMPs to manage water quality on construction sites. General Condition 12 also requires applicants using NWP 14 to use appropriate soil erosion and sedimentation controls.

The SW3P would include at least one BMP from the 401 Water Quality Certification Conditions for NWPs as published by the TCEQ. These BMPs would address each of the following categories:

- Category I Erosion Control would be addressed by using temporary vegetation, blankets/matting, permanent seeding/sodding, and stone outlet structures.
- Category II Sedimentation Control would be addressed by installing silt fence, rock berms, and stabilized construction exits.
- Category III Post-Construction TSS control would be addressed by installing grass swales and vegetative filter strips.

Other approved methods would be substituted if necessary, using one of the BMPs from the identical category.

2.) Cultural Resources

In the unlikely event that cultural resources are discovered during construction of the proposed project, TxDOT would immediately initiate cultural resource discovery procedures. All work in the vicinity of the discovery would cease until a specialist from TxDOT and/or the THC could arrive on site and assess the discovery's significance and the need, if any, for additional investigation.

3.) Vegetation Resources

Impacts to vegetation would be avoided or minimized by limiting disturbance to only that which is necessary to construct the proposed project. The removal of native vegetation, particularly mature native trees and shrubs, would be avoided to the greatest extent practicable. Seeding and replanting with TxDOT-approved seed mixes containing native species would be conducted where possible. Soil disturbance would be minimized in the ROW in order to minimize invasive species establishment

The following fulfills commitments required by EO 13112 and the Executive Memorandum on Beneficial Landscaping and would be included in section IV of the EPIC sheet: Preserve native vegetation to the extent practical. The contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, and 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

4.) Federal Listed, Proposed Threatened, Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds

The implementation of the following BMPs by TxDOT eliminates the need for coordination for potential impacts to these species impacts under section 2.206(i) of the MOU:

Wood Stork and Western Burrowing Owl - Bird BMPs: a) In addition to complying with the Migratory Bird Treaty Act perform the following BMPs: Prior to construction, perform daytime surveys for nests including under bridges and in culverts to determine if they are active before removal. Nests that are active should not be disturbed. b) Do not disturb, destroy, or remove active nests, including ground nesting birds, during the nesting season. c) Avoid the removal of unoccupied, inactive nests, as practicable. d) Prevent the establishment of active nests during the nesting season on TxDOT owned and operated facilities and structures proposed for replacement or repair. e) Do not collect, capture, relocate, or transport birds, eggs, young, or active nests without a permit.

Sandbank pocketbook and Texas heelsplitter - Freshwater Mussel BMPs - a) When work is in the water, survey project footprints for state listed species where appropriate habitat exists. b) When work is in the water and mussels are discovered during surveys, relocate state listed and SGCN mussels under TPWD authorization and implement Water Quality BMPs. c) When work is adjacent to the water, Water Quality BMPs implemented as part of the SW3P for a construction general permit or any conditions of the 401 water quality certification for the project will be implemented.

Water Quality BMPs - In addition to BMPs required for a TCEQ Storm Water Pollution Prevention Plan and/or 401 water quality permits: a) Minimize the use of equipment in streams and riparian areas during construction. When possible, equipment access should be from banks, bridge decks, or barges. b) When temporary stream crossings are unavoidable, remove stream crossings once they are no longer needed and stabilize banks and soils around the crossing.

Alligator snapping turtle - 1) Minimize impacts to wetland and riverine habitats 2) Aquatic Reptile BMPs

Amphibian and Aquatic Reptile BMPs - a) Contractors will be advised of potential occurrence in the project area, and to avoid harming the species if encountered. b) Minimize impacts to wetland, temporary and permanent open water features, including depressions, and riverine habitats. c) Maintain hydrologic regime and connections between wetlands and other aquatic features. d) Use barrier fencing to direct animal movements away from construction activities and areas of potential wildlife-vehicle collisions in construction areas directly adjacent, or that may directly impact, potential habitat for the target species. e) Apply hydromulching and/or hydroseeding in areas for soil stabilization and/or revegetation of disturbed areas where feasible. If hydromulching and/or hydroseeding are not feasible due to site conditions, using erosion control blankets or mats that contain no netting, or only contain loosely woven natural fiber netting is preferred. Plastic netting should be avoided to the extent practicable. f) Project specific locations (PSLs) proposed within stateowned ROW should be located in uplands away from aquatic features. g) When work is directly adjacent to the water, minimize impacts to shoreline basking sites (e.g., downed trees, sand bars, exposed bedrock) and overwinter sites (e.g., brush and debris piles, crayfish burrows) where feasible. h) Avoid or minimize disturbing or removing downed trees, rotting stumps, and leaf litter, which may be refugia for terrestrial amphibians, where feasible. i) If gutters and curbs are part of the roadway design, where feasible install gutters that do not include the side box inlet and include sloped (i.e. mountable) curbs to allow small animals to leave roadway. If this modification to the entire curb system is not possible, install sections of sloped curb on either side of the storm water drain for several feet to allow small animals to leave the roadway. Priority areas for these design recommendations are those with nearby wetlands or other aquatic features. j) For sections of roadway adjacent to wetlands or other aquatic features, install wildlife barriers that prevent climbing. Barriers should terminate at culvert openings in order to funnel animals under the road. The barriers should be of the same length as the adjacent feature or 80 feet long in each direction, or whichever is the lesser of the two. k) For culvert extensions and culvert replacement/installation, incorporate measures to funnel animals toward culverts such as concrete wingwalls and barrier walls with overhangs. I) When riprap or other bank stabilization devices are necessary, their placement should not impede the movement of terrestrial or aquatic wildlife through the water feature. Where feasible, biotechnical streambank stabilization methods using live native vegetation or a combination of vegetative and structural materials should be used.

Texas horned lizard - 1) Avoid harvester ant mounds in the selection of Project Specific Locations (PSLs) where feasible. 2) Terrestrial Reptile BMPs.

Timber (canebrake) rattlesnake, Texas garter snake, slender glass lizard, eastern box turtle, western box turtle - Terrestrial Reptile BMPs: a) Apply hydro-mulching and/or hydroseeding in areas for soil stabilization and/or revegetation of disturbed areas where feasible. If hydromulching and/or hydroseeding are not feasible due to site conditions, utilize erosion control blankets or mats that contain no netting or contain loosely woven, natural fiber netting is preferred. Plastic netting should be avoided to the extent practicable. b) For open trenches and excavated pits, install escape ramps at an angle of less than 45 degrees (1:1) in areas left uncovered. Visually inspect excavation areas for trapped wildlife prior to backfilling. c) Inform contractors that if reptiles are found on project site allow species to safely leave the project area. d) Avoid or minimize disturbing or removing downed trees, rotting stumps, and leaf litter where feasible. e) Contractors will be advised of potential occurrence in the project area, and to avoid harming the species if encountered.

Eastern spotted skunk and western hog-nosed skunk - Contractors will be advised of potential occurrence in the project area, to avoid harming the species if encountered, and to avoid unnecessary impacts to dens.

Cajun chorus frog, Strecker's chorus frog, Woodhouse's toad - Amphibian and Aquatic Reptile BMPs.

Swamp rabbit, woodland vole, long-tailed weasel, and mink - Contractors will be advised of potential occurrence in the project area, and to avoid harming the species if encountered.

5.) Hazardous Materials or Contamination Issues

The proposed project includes the displacement of building structures and replacement of two bridges, FM 664 over Red Oak Creek and W. Main Street over Red Oak Creek Tributary. The building and bridge structures may contain asbestos containing materials. Asbestos inspections, specification, notification, license, accreditation, abatement and disposal, as applicable, would comply with federal and state regulations. Asbestos issues would be addressed during the ROW acquisition process for building structures and prior to construction for two bridge structures.

The building and bridge structures may contain LBP. Further examination of paint-bearing building and bridge structures for LBP would be performed prior to demolition. Any waste materials and construction debris containing LBP would be disposed of according to current disposal regulations of the TCEQ and EPA.

Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per TxDOT Standard Specifications. The contractor would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in

the construction staging area. All construction materials used for this project would be removed as soon as the work schedules permit.

Should hazardous materials/substances be encountered, the TxDOT Dallas District Hazardous Materials Section would be notified and steps would be taken to protect personnel and the environment. If necessary, the plans, specifications, and estimates would include provisions for the appropriate soil and/or groundwater management plans for activities within these areas. The management plans would be initiated in accordance with all applicable federal, state and local regulations.

9.0 Conclusion

Implementation of the proposed project would not result in a significant impact on the human or natural environment; therefore, a FONSI is recommended.

10.0 References

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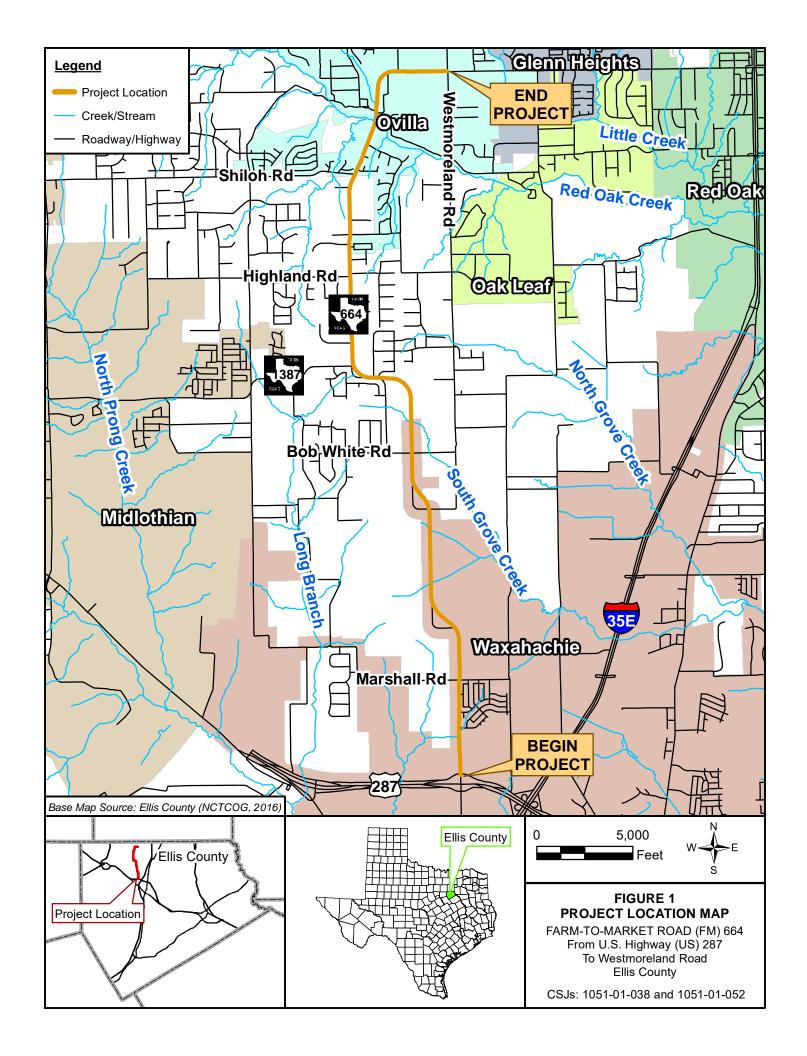
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11.0 Appendices

Appendix A – Project Location Map



Appendix B – Project Photos



Photograph 1: View looking northeast from FM 664 bridge over US 287 at the beginning of the project. Date of photograph: 8/14/19.



Photograph 2: View looking north from FM 664 and its intersection with Valley View Dr, showing a typical residential neighborhood adjacent. Date of photograph: 8/14/19.



Photograph 3: View looking west from FM 664 towards a typical agricultural area. Agricultural areas make up approximately two-thirds of land adjacent to the project. Date of photograph: 8/14/19.



Photograph 4: View looking southwest from S Westmoreland Rd toward FM $\overline{664}$ and the end of the project. Date of photograph: 12/24/19.



Photograph 5: View looking southwest from FM 664 towards the Ovilla Road Christian School (ID 5) at 3251 Ovilla Rd, Red Oak, TX 75154. Date of photograph: 8/14/19.



Photograph 6: View looking east from FM 664 towards Fire House Kids Christian Child Care Center (ID 11) at 3325 Ovilla Rd, Ovilla, TX 75154. Date of photograph: 8/14/19.



Photograph 7: View looking southeast from FM 664 towards Vertical Church (ID 12) at 3325 Ovilla Rd, Ovilla, TX 75154. Date of photograph: 8/14/19.



Photograph 8: View looking south from West Main Street towards Heritage Park (ID 14) at 675 W Main St, Ovilla, TX 75154. Date of photograph: 8/14/19.



Photograph 9: View looking southwest from a parking lot towards the Ovilla Church of Christ (ID 17) at 3420 Ovilla Rd, Ovilla, TX 75154. Date of photograph: 8/14/19.



Photograph 10: View looking west from FM 664 towards the Swagg Programs Non-Profit (ID 28) at 1025 Ovilla Rd, Waxahachie, TX 75167. Date of photograph: 8/14/19.



Photograph 11: View looking northwest from Faith Family Academy – Waxahachie (ID 32) at 701 Ovilla Rd, Waxahachie, TX 75167. Date of photograph: 8/14/19.



Photograph 12: View looking north from a parking lot towards the St. Paul Episcopal Church (ID 34) at 624 Ovilla Rd, Waxahachie, TX 75167. Date of photograph: 8/14/19.



Photograph 13: View looking south from the east ROW of FM 664 toward Crossing 3, an unnamed tributary of South Grove Creek. Date of photograph: 11/20/19.



Photograph 14: View looking southeast from the west ROW of FM 664 toward Crossing 5, Red Oak Creek. Date of photograph: 11/20/19.



Photograph 15: View looking north from Heritage Park, west of FM 664 toward Crossing 6, Red Oak Creek tributary. Date of photograph: 11/20/19.



Photograph 16: View looking north from FM 664 towards an area of dense riparian vegetation seen occasionally, especially surrounding water crossings such as this one, Crossing 2, an unnamed tributary to South Grove Creek. Date of photograph: 8/14/19.



Photograph 17: View looking west at the intersection of Bob While Ln and FM 664, toward an area of riparian vegetation. Date of photograph: 8/14/19.



Photograph 18: View looking south from a parking lot towards the Ovilla Market (Map ID 2), located adjacent east of FM 664 at 3321 Ovilla Rd, Ovilla, TX 75154. Date of photograph: 8/14/19.



Photograph 19: View looking north from a parking lot towards a former gas station (Map ID 3), located just west of FM 664 at 696 W Main St, Ovilla, TX 75154. Date of photograph: 8/14/19.



Photograph 20: View looking south from a parking lot towards the Teachers Who Tutor, formerly Tote-A-Way, located adjacent east of FM 664 at 3323 Ovilla Rd, Red Oak, TX 75154. Date of photograph: 8/14/19.

Appendix C – Schematics

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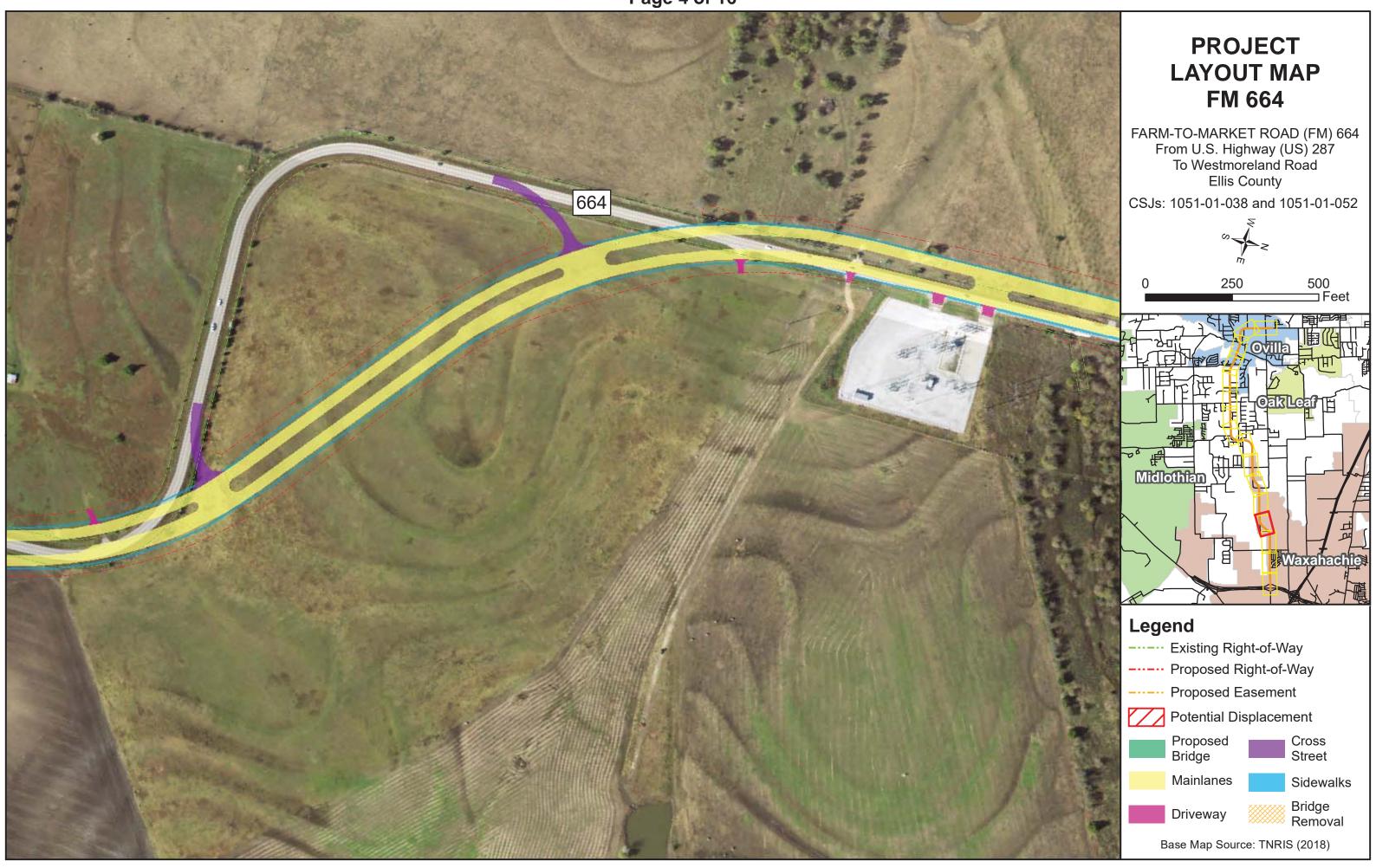
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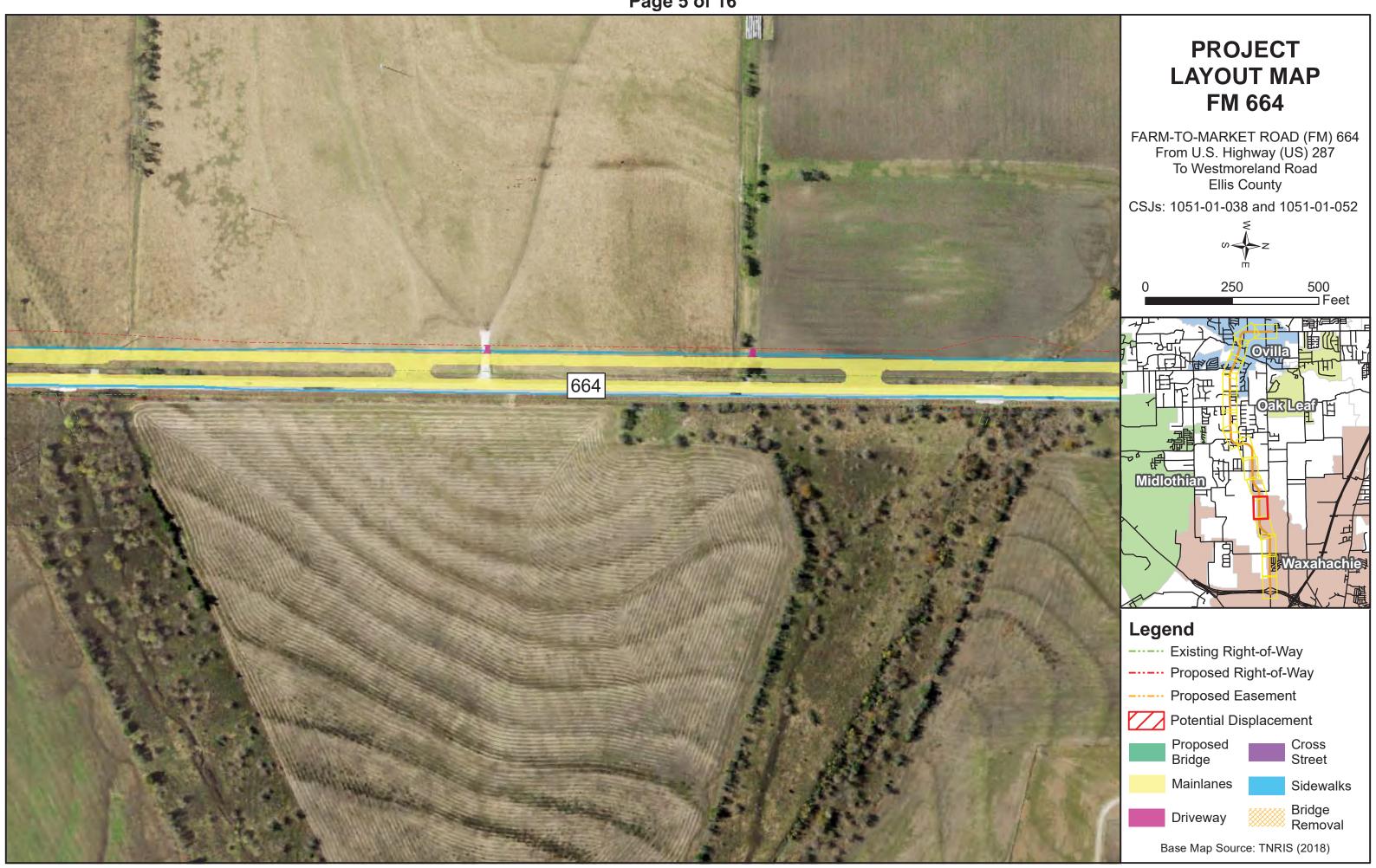
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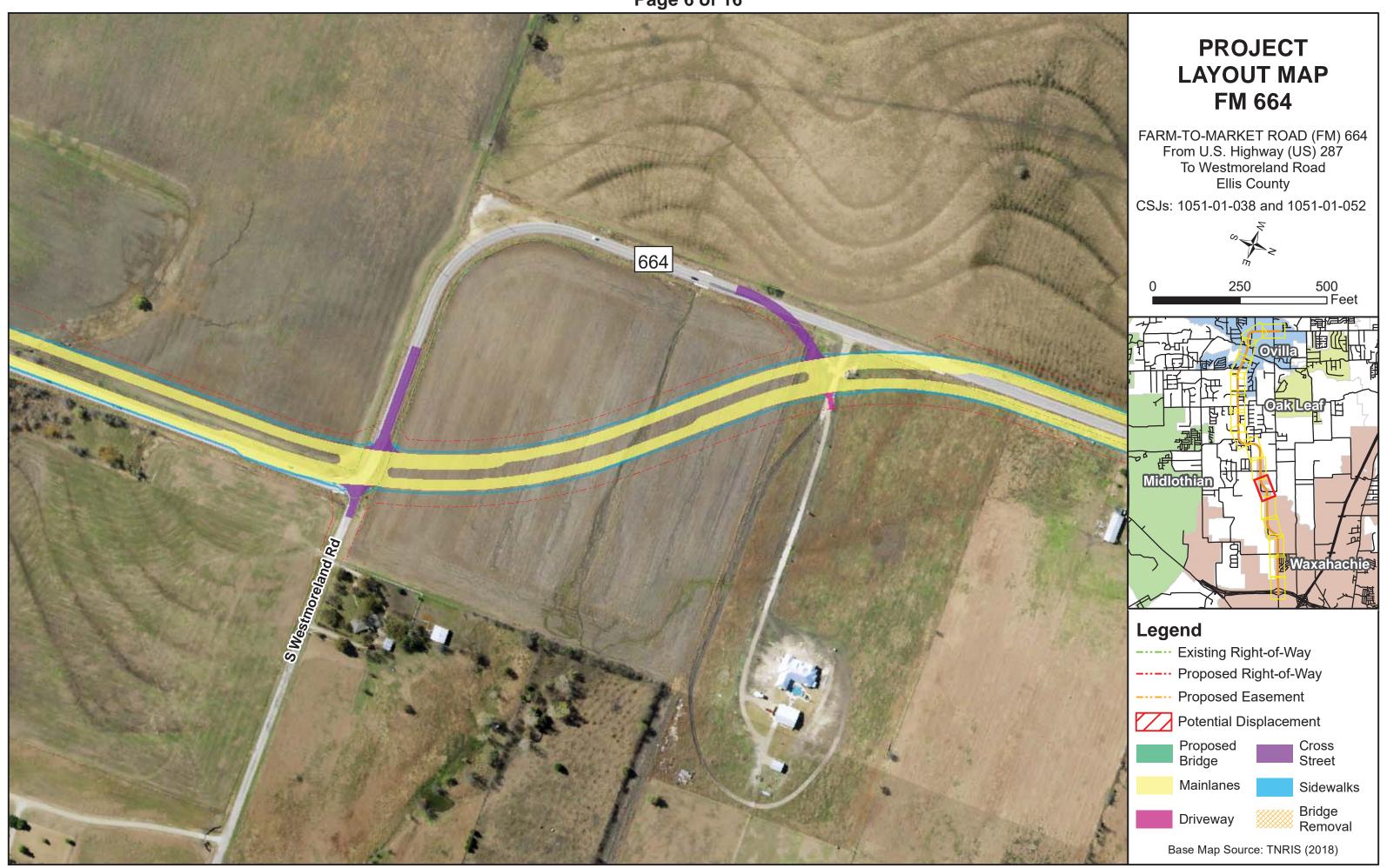
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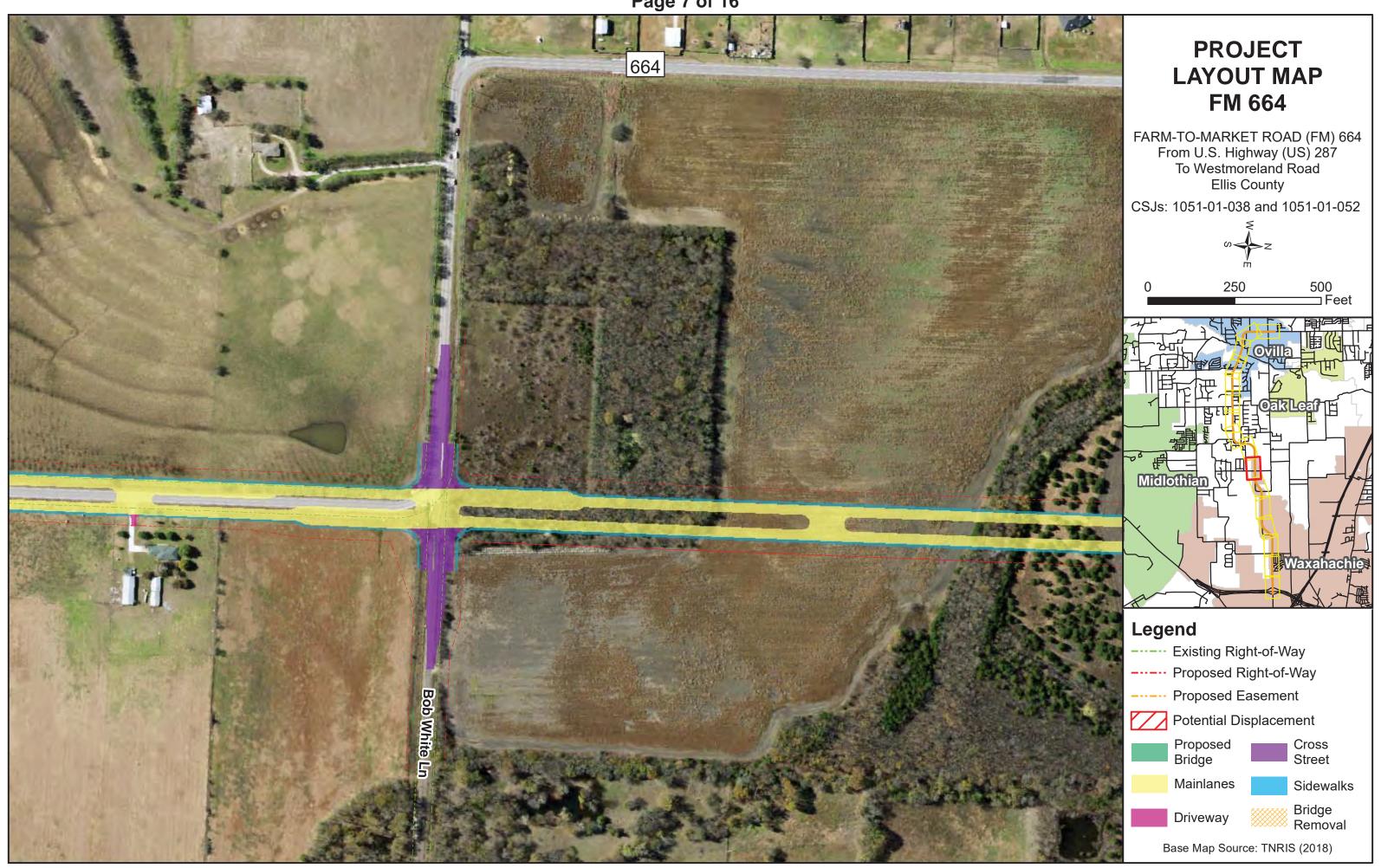
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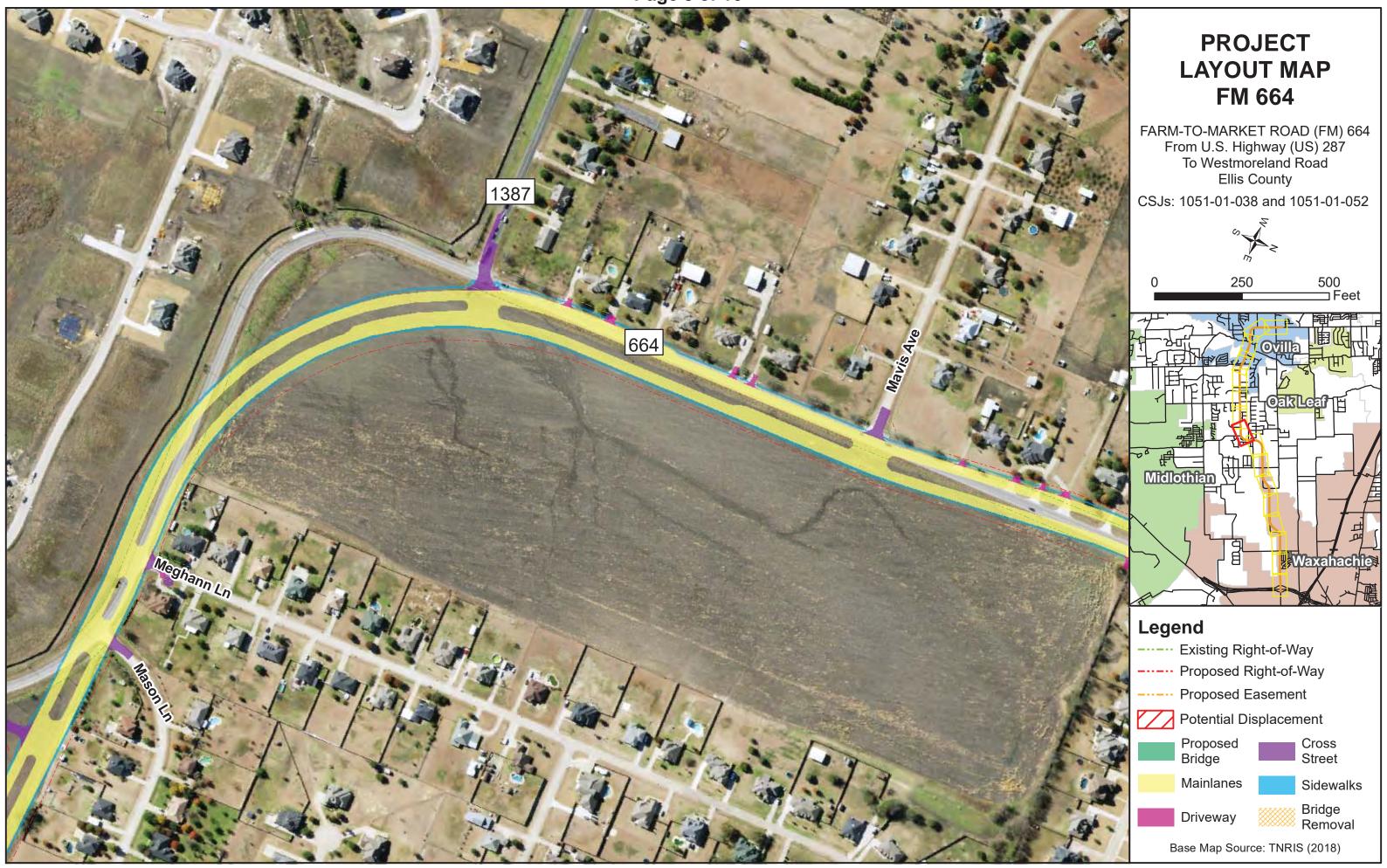
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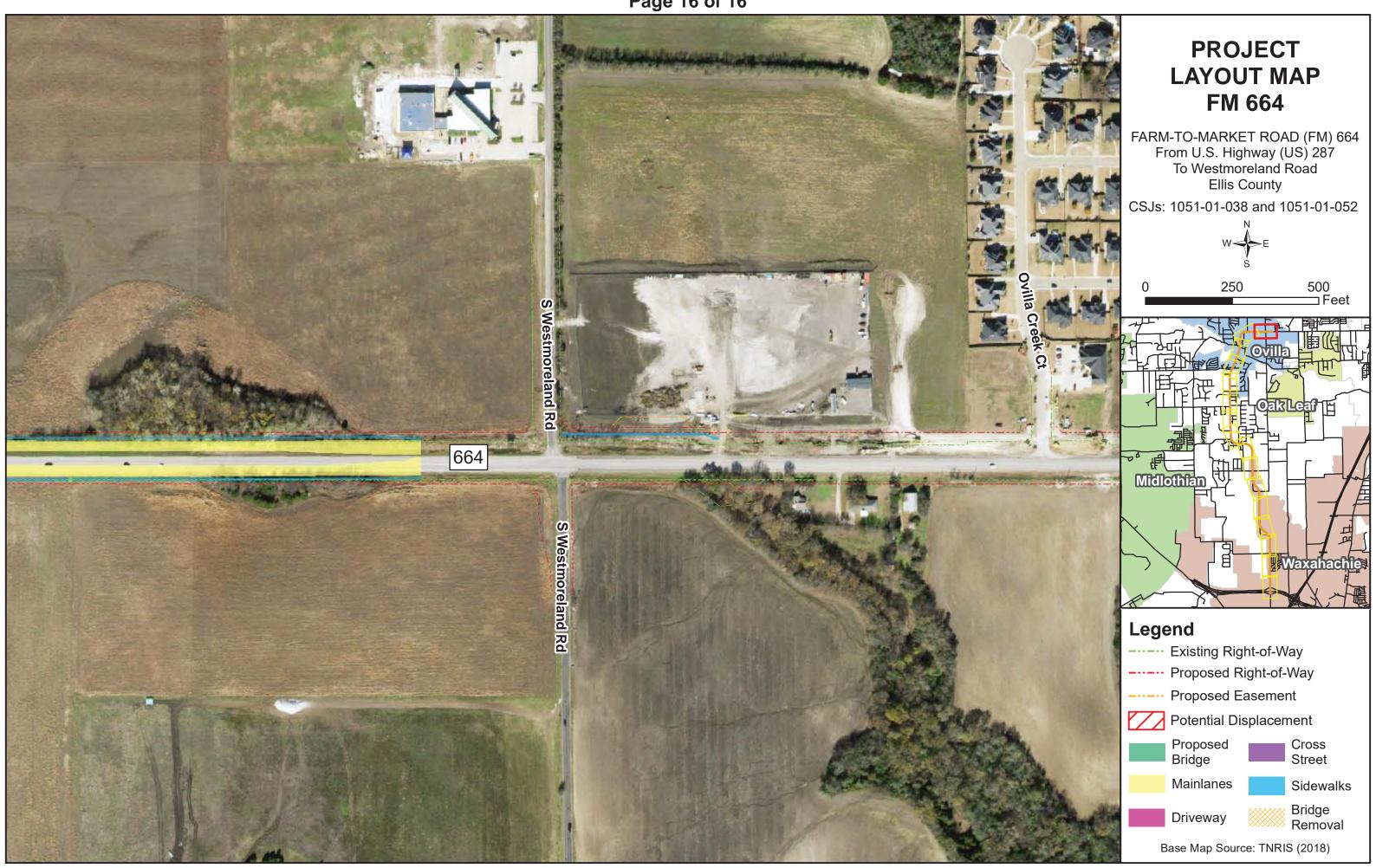
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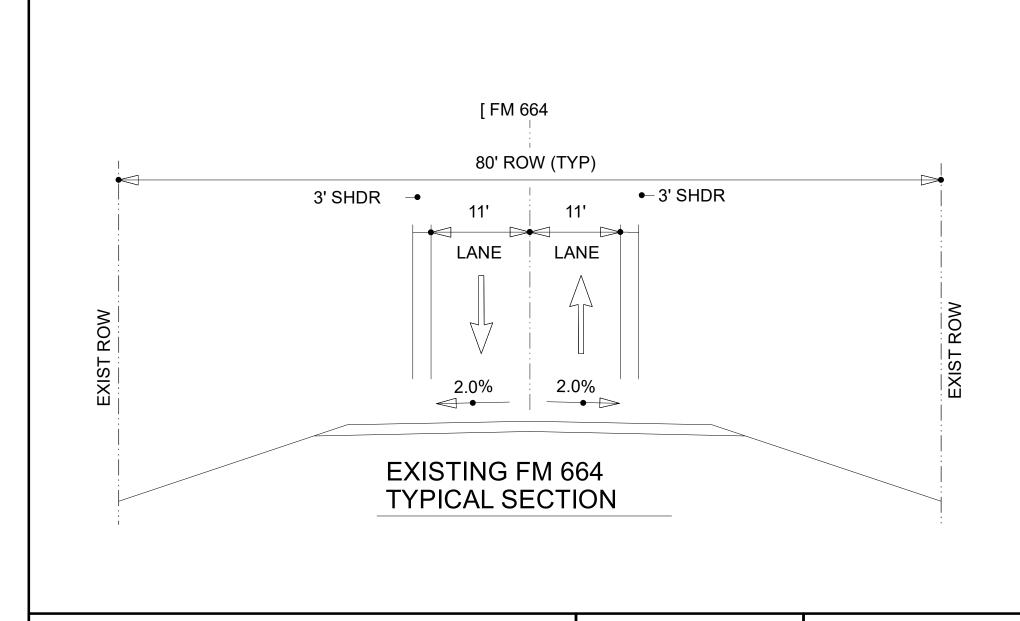
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Appendix D - Typical Sections



FOR REPORT PURPOSES ONLY

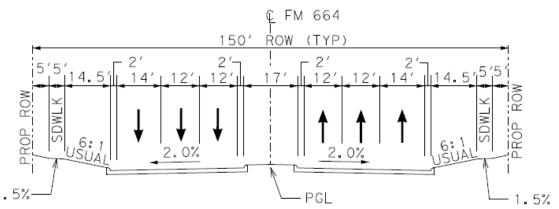
Not for construction, bidding, or permit purposes

Appendix D TYPICAL SECTIONS

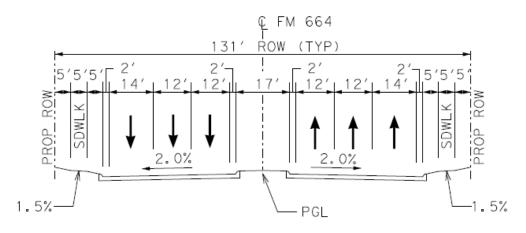
FARM-TO-MARKET ROAD (FM) 664 From U.S. Highway (US) 287 To Westmoreland Road Ellis County

CSJs: 1051-01-038 and 1051-01-052

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PROPOSED TYPICAL SECTION FM664 STA. 411+82 TO 453+59 STA. 507+35 TO 668+00



PROPOSED TYPICAL SECTION FM664 STA. 355+00 TO 411+82 STA. 453+59 TO 507+35

FOR REPORT PURPOSES ONLY

Not for construction, bidding, or permit purposes

Appendix D TYPICAL SECTIONS

FARM-TO-MARKET ROAD (FM) 664 From U.S. Highway (US) 287 To Westmoreland Road Ellis County

CSJs: 1051-01-038 and 1051-01-052

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Appendix E – Plan and Program Excerpts

Mobility 2045 Regionally Significant Arterial Improvements

2.000.000 Delta Service Descripted Proportion Transport No. Delta Popular Transport No. Delta Popular Transport No. Delta Popular Transport No. Delta Transport No.	RSA ID	Agency	County	Facility	From	То	2018*	2020*	2028	2037	2045	YOE Cost
2.24	2.150.375	TxDOT Dallas	Denton	Outer Loop Greenbelt Pkwy **	US 377	Legacy Drive	0	0	2	3/3	N/A	
2,000.000 1,000.000 1,000.0000 1,000.00000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.000000 1,000.0000000 1,000.00000000 1,000.0000000000 1,000.00000000000 1,000.0000000000000000 1,000.000000000000000000000000000000000	2.205.425	TxDOT Dallas	Denton	SH 114 EB/SH 114 WB	County Line Road	West Of FM 156	2	2	2	2/2	2/2	\$33,817,800
2005060 10070 Tables Design 5114 Design Equil 135W 373 375 NA NA NA NA NA NA NA N	2.205.450	TxDOT Dallas	Denton	SH 114	West of FM 156	FM 156	2/2	2/2	2/2	2/2	2/2	\$1,938,600
1.500.00 1.500.00	2.205.475	TxDOT Dallas	Denton	SH 114	FM 156	Double Eagle Blvd	2/2	2/2				
226.55 TAOTO Poles Dentry State 1.05 377 Cast Old 377 2/2 2/2 NA NA NA NA Cast Old 377 State S	2.205.500	TxDOT Dallas	Denton		Double Eagle Blvd							
2.00.000 ToOl Delies Dentary State Care US 377 State	2.205.600		Denton									
2.25.0.0 FisCOI Delies Destro SERIO												
2.25.50 ThOTO Delia Dento Set 170 ° No aroune fixed A. O. Unique fixed A. O. Unique fixed A. O. W. N.			Denton									
2.23.5.50 MODI Delias Dento Set 10 °* A Comriger Road Set 20 10 °* A Comriger Road Set 20 10 °* A Comriger Road Set 20 10 °* A NA NA NA NA NA NA NA			Denton									
1.45 1.45			Denton		Roanoke Road	Jt Ottinger Road						
1.40.000 ToOPT Dallas	2.325.560	TxDOT Dallas	Denton		Jt Ottinger Road	East Of Jt Ottinger Road	3/3			N/A		
1.531.00 DOPT Dallas Demon US 377 Substitution Size F Mod Substitution Size F			Denton			SH 114	2/2	N/A	N/A			
1.531.30			Denton				2	2	2	2/2	2/2	
15-02-130 T-007D Tollab			Denton		North of E Northside Dr		2	2	2	4	6	
1-54-202 T-ODT Callas Denton US-377 South of FM 1830 Curvef coted 2 2 6 6 6 32,788,000	1.523.120	TxDOT Dallas	Denton		S Washington Street		2	2	2	4	6	
1-540-220 MODI Tables Dention US-377 Crawford Road Crawford Road 2 2 4 4 4 5.3350,000	1.523.130	TxDOT Dallas	Denton			US 380	2	2	2	4	6	\$34,399,687
1.540.240 T-0.00 T-	1.540.210	TxDOT Dallas	Denton			South of FM 1830 Country Club Road	2	2	6	6	6	\$37,980,000
1-90-02/09 TAOUT Delias Dentron US 377 SI 1134 Mirabal (resk load) SI 1144 4 4 4 4 4 4 4 4	1.540.220	TxDOT Dallas	Denton	US 377	South of FM 1830	Crawford Road	2	2	2	6	6	\$80,000,000
1.540/250 T.0OTO Dallas Demon US 377 SH 114 North Of Byron Nebon Bivd 4 4 4 4 4 51,040,000	1.540.230	TxDOT Dallas	Denton	US 377	Crawford Road	Marshall Creek Road	2	2	4	4	4	\$133,900,000
1.500 / 1.50	1.540.240	TxDOT Dallas	Denton	US 377	Marshall Creek Road	SH 114	4	4	4	4	4	\$2,536,000
2.25.300 TXOOT Dallas Denton US 380 University Drive Bonnis Brac Street Mislone Street 6 6 6 6 6 5 55,700,000	1.540.250	TxDOT Dallas	Denton	US 377	SH 114	North Of Byron Nelson Blvd	4	4	4	4	4	\$1,040,000
2.225.275 TAOOT Dellus Denton US 380 EAST OF Film Tray Road US 377 272 272 3/3 3/3 33,400,000 2.225.440 TAOOT Dellus Denton US 380 US 377 PORTO Pellus US 380 PORTO Pellus US 380 PORTO Pellus US 380 PORTO Pellus US 380 PORTO PELLUS PORTO Pellus US 380 PORTO PELLUS PORTO Pellus US 380 PORTO PELLUS	1.540.260	TxDOT Dallas	Denton	US 377	North of Byron Nelson Blvd	Parish Lane	2	2	4	4	4	\$12,050,000
2.225.445 TNOOT Dallas Denton US 380 East of Fish Trap Road US 377 2/2 2/3 3/3 3/3 53,340,000 2.225.445 TNOOT Dallas Denton US 380 Potter Shop Road FM 720 4 4 6 6 6 59,438,000 2.225.445 TNOOT Dallas Denton US 380 Potter Shop Road FM 720 4 4 6 6 6 59,438,000 2.225.475 TNOOT Dallas Denton US 380 FM 423 CR 26 4 4 3/3 3/3 3/3 353,270,000 2.225.475 TNOOT Dallas Denton US 380 FM 423 CR 26 4 4 4 3/3 3/3 3/3 352,370,000 2.225.475 TNOOT Dallas Denton Valvey Falvey HI 55W US 377 2 2 4 4 4 517,700 4.480.225 TNOOT Dallas Denton Valvey Falvey HI 55W US 377 2 2 4 4 4 517,700 4.480.225 TNOOT Dallas Denton Valvey Falvey HI 55W US 377 2 2 4 4 4 517,700 4.480.225 TNOOT Dallas Denton Valvey Falvey HI 55W US 377 2 2 4 4 4 517,600 5.276.225 TAOOT Dallas Ellis FM 664 Overlia Road Westmordand Road Delton Westmordand Road Delton Westmordand Road Delton US 380 US 377 US 2 2 4 4 6 6 6 5.276.203 US 370 US 3	2.225.300	TxDOT Dallas	Denton	US 380 University Drive	Bonnie Brae Street	Malone Street	6	6	6	6	6	\$7,456,430
2.225,440	2.225.275	TxDOT Dallas	Denton	US 380	FM 156	IH 35	6	6	6	6	6	\$45,700,000
2.225.445 TAODT Dallas Denton US 380 Potter Shap Road FM 720 FM 423 4 4 6 6 6 5919,480,000	2.225.425	TxDOT Dallas	Denton	US 380	East of Fish Trap Road	US 377	2/2	2/2	3/3	3/3	3/3	\$3,340,000
2225.450	2.225.440	TxDOT Dallas	Denton	US 380	US 377	Potter Shop Road	2/2	2/2	3/3	3/3	3/3	\$760,000
2.25/3.07 TADOT Dallas Denton US 380 FM 423 CR 26 4 4 3/3	2.225.445	TxDOT Dallas	Denton	US 380	Potter Shop Road	FM 720	4	4	6	6	6	\$19,430,000
2,70,300 TADOT Dallas Denton Valley Ridge Buld Mill Street College Street O O A A A S11,770,000	2.225.450	TxDOT Dallas	Denton	US 380	FM 720	FM 423	4	4	6	6	6	\$96,280,000
1.836/225 TXDOT Dallas Ellis E	2.225.475	TxDOT Dallas	Denton	US 380	FM 423	CR 26	4	4	3/3	3/3	3/3	\$32,370,000
1,563,200 1,500	2.267.300	TxDOT Dallas	Denton	Valley Ridge Blvd	Mill Street	College Street	0	0	4	4	4	\$17,770,000
1563.00 TXDOT Dallas Ellis EM 664 Ovilla Road Westmoreland Road Westmoreland Road H 35£ 2	1.430.225	TxDOT Dallas	Denton	Vintage Parkway	IH 35W	US 377	2	2	4	4	4	\$11,344,400
2,710,255 TADOT Dallas Ellis FM 664 Ovlla Road Westmoreland Road H 35E 2 2 6 6 6 6 \$20,000,000 2,710,300 TADOT Dallas Ellis FM 664 H 35E 5 H 342 4 4 6 6 6 6 \$45,100,000 2,710,300 TADOT Dallas Ellis FM 664 H 35E 5 H 342 4 4 6 6 6 6 \$45,100,000 2,710,300 TADOT Dallas Ellis FM 664 SH 342 H 45 2 2 6 6 6 6 \$45,100,000 1,840,650 TADOT Dallas Ellis SH 34 Lake Bardwell Drive SP 437 Clay Street H 35E 2 2 2 6 6 6 6 \$49,1218,140 1,840,750 TADOT Dallas Ellis SH 34 Lake Bardwell Drive SP 437 Clay Street H 35E 2 2 2 2 4 4 5 \$141,087,000 1,840,650 TADOT Dallas Ellis SH 34 Sunridge Drive Sonoma Trail 2 2 2 2 4 4 4 \$15,483,200 1,840,650 TADOT Dallas Ellis SH 34 Sunridge Drive Sonoma Trail 2 2 2 2 4 4 4 \$2,685,650 1,840,725 TADOT Dallas Ellis SH 34 SM 54 SM 54 SM 54 1,840,702 TADOT Dallas Ellis SH 34 FM 1181 Radfwell Drive Sonoma Trail H 45 2 2 2 2 4 4 4 \$2,685,650 1,840,725 TADOT Dallas Ellis SH 34 FM 1181 Radfwell Drive SM 54 1,953,340 TADOT Dallas Ellis SH 34 FM 1181 SM 54 SM 54 1,953,340 TADOT Dallas Ellis SH 34 FM 1181 SM 54 SM 54 1,953,340 TADOT Dallas Ellis SH 34 FM 1181 SM 54 SM 54 1,953,340 TADOT Dallas Ellis SH 342 Ellis SH 34 FM 1183 SM 747 Ellis SM 74 1,580,300 TADOT Dallas Ellis SH 34 FM 1664 US 77 2 2 2 2 4 4 4 \$12,087,060 1,953,400 TADOT Dallas Ellis SH 34 Ellis SH 34 Ellis SH 34 Ellis SH 34 1,200,875 TADOT Dallas Ellis SH 34 Ellis SH 34 Ellis SH 34 Ellis SH 34 1,200,875 TADOT Dallas Ellis SH 34 Ellis SH 34 Ellis SH 34 Ellis SH 34 1,200,875 TADOT Dallas Ellis SH 34 Ellis SH 34 Ellis SH 34 Ellis SH 34 1,200,875 TADOT Dallas Ellis US 77 Ellis Ellis US 7	2.787.250	TxDOT Dallas	Ellis	BU 287 BU 45	Paris Street	IH 45	2	2	4	4	4	\$7,610,800
2,710,250 TNDOT Dellas Ellis FM 664 Mestmoreland Road H 35E 2 2 6 6 6 545,100,000	1.563.200	TxDOT Dallas	Ellis	FM 664 Ovilla Road	Ovilla Main Street	BU 287	2	2	4	4	6	\$100,000,000
2,710,300 TADOT Dallas Ellis FM 664 HI 35E SH 342 HI 45 2	2.710.225	TxDOT Dallas	Ellis	FM 664 Ovilla Road	Westmoreland Road	Ovilla Main Street	2	2	4	4	6	\$20,000,000
2710.325	2.710.250	TxDOT Dallas	Ellis	FM 664	Westmoreland Road	IH 35E	2	2	6	6	6	\$45,100,000
1.840,750 TXDOT Dallas Ellis SH 34 Lake Bardwell Drive SP 437 Clay Street IH 35E 2 2 2 4 4 \$114,037,000 1.840,655 TXDOT Dallas Ellis SH 34 SININGRED Drive Sonoma Trail 2 2 2 2 4 4 \$18,452,600 1.840,0660 TXDOT Dallas Ellis SH 34 Sunnidge Drive Sonoma Trail Sonoma Trail H45 2 2 2 2 4 4 54,882,400 1.840,0660 TXDOT Dallas Ellis SH 34 Sonoma Trail H45 2 2 2 2 4 4 4 54,265,6000 1.840,725 TXDOT Dallas Ellis SH 34 FM 1181 Kaufman Street 2 2 4 4 4 51,205,600 1.840,725 TXDOT Dallas Ellis SH 34 FM 1183 SP 437 Clay Street 2 2 2 4 4 4 51,205,600 1.840,725 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 2 2 2 2 4 4 51,203,000 1.595,340 TXDOT Dallas Ellis SH 342 FM 664 US 77 2 2 2 2 4 4 51,203,000 1.220,875 TXDOT Dallas Ellis US 287 SH 34 H45 US 277 2 2 2 4 4 51,203,2095 1.220,875 TXDOT Dallas Ellis US 77 FM 664 US 77 Ell Street Ferris Avenue FM 66 2 2 4 4 4 \$1,203,2095 1.580,305 TXDOT Dallas Ellis US 77 FM 66 FM 877 2 2 2 4 4 \$1,203,2095 1.580,325 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Atton Hwy North Gate Road FM 167 2 2 2 4 4 \$1,203,200 1.205,275 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 2 2 2 2 4 4 \$1,000,000 1.205,200 TXDOT Fort Worth Hood US 377 FM 66 FM 17 North Gate Road FM 167 2 2 2 2 4 4 \$1,000,000 1.205,200 TXDOT Fort Worth Hood US 377 FM 167 FM	2.710.300	TxDOT Dallas	Ellis	FM 664	IH 35E	SH 342	4	4	6	6	6	\$40,128,140
1.840,650 TXDOT Dallas Ellis SH 34 Sunridge Drive Sunridge Drive Sonoma Trail 2 2 2 4 4 518,452,600 1.840,660 TXDOT Dallas Ellis SH 34 Sunridge Drive Sonoma Trail IH 45 2 2 2 4 4 4 4 4 4 4	2.710.325	TxDOT Dallas	Ellis	FM 664	SH 342	IH 45	2	2	6	6	6	\$192,371,860
1.840.655 TXDOT Dallas Ellis SH 34 Sunridge Drive Sonoma Trail 1.840.660 TXDOT Dallas Ellis SH 34 Sonoma Trail H 45 2 2 2 2 4 4 4 5,265,600 1.840.705 TXDOT Dallas Ellis SH 34 FM 1181 Kaufman Street 2 2 2 4 4 4 5,226,600 1.840.705 TXDOT Dallas Ellis SH 34 FM 1181 Kaufman Street 2 2 2 2 4 4 4 5,220,600 1.840.705 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 2 2 2 2 2 4 4 4 5,234,6000 1.595,400 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 US 77 2 2 2 2 4 4 4 \$12,349,600 1.595,400 TXDOT Dallas Ellis US 287 SH 34 H 45 US 77 2 2 2 2 4 4 4 \$12,349,600 1.598,000 TXDOT Dallas Ellis US 287 SH 34 H 45 Ellis US 287 1.580,300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 2 2 2 4 4 4 4 \$12,02,995 1.590,300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 FM 877 2 2 2 4 4 4 \$12,02,600 1.590,300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 FM 877 2 2 2 4 4 4 \$12,02,600 1.590,300 TXDOT Fort Worth Hood FM 4FM 167 Fall Creek FM 4 Acton Hwy North Gate Road FM 167 2 2 2 2 4 4 4 \$16,000,000 1.205,275 TXDOT Fort Worth Hood FM 4FM 167 Fall Creek North Gate Road FM 167 2 2 2 2 2 4 4 4 \$16,000,000 1.205,275 TXDOT Fort Worth Hood SH 144 Pear Orchard Road North of US 67 2 2 2 2 2 2 4 4 \$24,000,000 1.590,200 TXDOT Fort Worth Hood US 377 Pkypass North of SH 171 Old Granbury Road 0 0 0 2/2 2/2 3/3 3/3 3/3 \$13,900,000 1.590,407 TXDOT Fort Worth Hood US 377 BU 377 BU 377 North of BU 377 SH 167 North of Hood US 377 SH 167 North of Hood US 377 North	1.840.750	TxDOT Dallas	Ellis	SH 34 Lake Bardwell Drive	SP 437 Clay Street	IH 35E	2	2	2	4	4	\$141,087,000
1.840,660 TXDOT Dallas Ellis SH 34 Sonoma Trail IH 45 2 2 2 4 4 \$2,656,600 1.840,700 TXDOT Dallas Ellis SH 34 FM 1181 Kaufman Street 2 2 2 4 4 \$4,840,600 1.890,725 TXDOT Dallas Ellis SH 34 FM 1183 SP 437 Clay Street 2 2 2 4 4 \$4,840,600 1.595,390 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 2 2 2 2 4 4 \$12,349,600 1.20,875 TXDOT Dallas Ellis US 287 SH 34 IH 45 2 2 2 4 4 \$12,349,600 1.20,875 TXDOT Dallas Ellis US 727 B 2 2 4 4 \$12,349,600 1.20,875 TXDOT Dallas Ellis US 77 PM 66 D 2 2 4 4 \$12,249,600 <	1.840.650	TxDOT Dallas	Ellis		FM 2451	Sunridge Drive	2	2	2	4	4	\$18,452,600
1.840.700 TXDOT Dallas Ellis SH 34 FM 1181 Kaufman Street 2 2 4 4 4 51,220,600 1.840.725 TXDOT Dallas Ellis SH 34 FM 1183 SP 437 Clay Street 2 2 2 4 4 54,810,600 1.595,390 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 Loop 9 1.595,400 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 Loop 9 1.202,875 TXDOT Dallas Ellis Loop 9 FM 664 FM 677 Loop 9 1.202,875 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road FM 167 1.202,875 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 Loop 9 1.202,875 TXDOT Fort Worth Hood Loop 9 FM 664 FM 877 Loop 9 Loop 9 1.202,875 TXDOT Fort Worth Hood Loop 9 FM 664 Loop 9 FM 664 FM 877 Loop 9 Loop 9 1.202,875 TXDOT Fort Worth Hood Loop 9 FM 167 Loop 9 Loop 9 FM 167 Loop 9 Loop 9 Loop 9 1.202,875 TXDOT Fort Worth Hood Loop 9 FM 167 Loop 9	1.840.655	TxDOT Dallas	Ellis	SH 34	Sunridge Drive	Sonoma Trail	2	2	2	4	4	\$4,882,400
1.840,725 TXDOT Dallas Ellis SH 34 FM 1183 SP 437 Clay Street 2 2 2 4 4 \$4,810,600 1.595,390 TXDOT Dallas Ellis SH 342 Loop 9 FM 664 US 77 2 2 2 4 4 \$12,343,600 1.250,875 TXDOT Dallas Ellis US 287 SH 34 IH 45 2 2 N/A N/A N/A 1.580,300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 2 2 2 4 4 4 \$21,183,600 1.580,3025 TXDOT Dallas Ellis US 77 FM 66 2 2 2 4 4 4 \$21,183,600 1.580,325 TXDOT Dallas Ellis US 77 FM 66 FM 877 2 2 2 4 4 4 \$50,000 2.745,250 TXDOT Fort Worth Hood FM 4FM 167 Fall Creek FM 660 FM 27 2 2	1.840.660	TxDOT Dallas	Ellis	SH 34	Sonoma Trail	IH 45	2	2	2	4	4	\$2,656,600
1.595.390 TXDOT Dallas Ellis SH 342 SH 664 ST 7500 S	1.840.700	TxDOT Dallas	Ellis	SH 34	FM 1181	Kaufman Street	2	2	4	4	4	\$1,220,600
1.595.400 TXDOT Dallas Ellis SH 342 FM 664 US 77 2 2 2 2 4 4 \$12,032,995 1.202.875 TXDOT Dallas Ellis US 287 SH 34 H 45 2 2 2 N/A N/A N/A 1.580.300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 2 2 2 4 4 4 \$521,183,600 1.580.325 TXDOT Dallas Ellis US 77 Elm Street FM 66 FM 877 2 2 2 4 4 4 \$502,600 2.745.240 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road 2 2 2 2 4 4 \$500,000 2.745.250 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road 2 2 2 2 4 4 \$5,000,000 1.205.275 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road FM 167 2 2 2 2 4 \$4,000,000 1.205.275 TXDOT Fort Worth Hood US 377 Bypass North G 5H 171 Old Granbury Road O O 2/2 2/2 2/2 2/2 577,500,000 1.540.520 TXDOT Fort Worth Hood US 377 Bypass North G 5H 144 FM 51 2/2 2/2 3/3	1.840.725	TxDOT Dallas	Ellis	SH 34	FM 1183	SP 437 Clay Street	2	2	2	4	4	\$4,810,600
1.220.875 TXDOT Dallas Ellis US 287 SH 34 IH 45 2 2 N/A N/A N/A N/A 1.580.300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 2 2 4 4 4 4 \$21,183,600 1.580.325 TXDOT Dallas Ellis US 77 Elm Street FM 66 FM 877 2 2 2 4 4 4 4 \$52,183,600 1.580.325 TXDOT Dallas Ellis US 77 FM 66 FM 877 2 2 2 4 4 4 \$52,183,600 1.580.325 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road 2 2 2 2 4 4 4 \$160,610 1.205.275 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 2 2 2 2 4 4 4 \$56,000,000 1.205.275 TXDOT Fort Worth Hood US 377 Skypass North Gate Road North of US 67 2 2 2 2 2 2 4 \$24,860,000 1.205.275 TXDOT Fort Worth Hood US 377 Skypass North of Sh 111 Old Granbury Road 0 0 0 2/2 2/2 2/2 \$77,500,000 1.540.520 TXDOT Fort Worth Hood US 377 NB/US 377 Sb East of Sh 144 FM 167 N (Temple Hall Hwy) 1.540.450 TXDOT Fort Worth Hood US 377 Sh Bu 377 North of Bu 377 North of Bu 377 1.540.450 TXDOT Fort Worth Hood US 377 FM 167 S (Fall Creek Hwy) FM 167 N (Temple Hall Hwy) 1.540.450 TXDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) 1.540.450 TXDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 1.540.500 TXDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 1.540.500 TXDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 1.540.500 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.500 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.500 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.500 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US 377 Marking Trail Harbor Lakes Drive 1.540.540 TXDOT Fort Worth Hood US					·		2			4	4	
1.580.300 TXDOT Dallas Ellis US 77 Elm Street Ferris Avenue FM 66 FM 66 FM 877 2 2 4 4 4 \$502,600 1.580.325 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 66 FM 877 2 2 4 4 4 \$502,600 2.745.240 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 2 2 2 4 4 \$6,000,000 1.205.275 TXDOT Fort Worth Hood SH 4 FM 167 Fall Creek North Gate Road North of US 67 2							2			-		\$12,032,995
1.580.325 TXDOT Dallas Ellis US 77 FM 66 FM 877 2 2 4 4 4 \$502,600 2.745.240 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road 2 2 2 2 4 4 \$160,610 2.745.250 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 2 2 2 2 4 4 \$6,000,000 1.205.275 TXDOT Fort Worth Hood SH 144 Pear Orchard Road North of US 67 2 <	1.220.875	TxDOT Dallas					2	2	N/A	N/A	N/A	
2.745.240 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek FM 4 Acton Hwy North Gate Road 2 2 2 4 4 \$160,610 2.745.250 TXDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 2 2 2 4 4 \$6,000,000 1.250.200 TXDOT Fort Worth Hood US 377 Bypass North of SH 171 Old Granbury Road 0 0 2/2 3/3 3/3 \$13,900,000 1.540.450 TXDOT Fort Worth Hood US 377 BU 377 North of BU 377 PM 167 N (Temple Hall Hwy) North of BU 377							2	2	4	4	4	
2.745.250 TxDOT Fort Worth Hood FM 4 FM 167 Fall Creek North Gate Road FM 167 2 2 2 4 4 \$6,000,000 1.205.275 TxDOT Fort Worth Hood SH 144 Pear Orchard Road North of US 67 2 2 2 2 2 4 \$24,860,000 1.250.200 TxDOT Fort Worth Hood US 377 NB/US 377 SB East of SH 174 FM 51 2/2 2/2 3/3 3/3 \$13,900,000 1.540.455 TxDOT Fort Worth Hood US 377 BU 377 North of BU 377 2/2 2/2 3/3 3/3 \$13,900,000 1.540.455 TxDOT Fort Worth Hood US 377 BU 377 North of BU 377 2/2 2/2 3/3 3/3 \$53,800,000 1.540.450 TxDOT Fort Worth Hood US 377 FM 167 S (Fall Creek Hwy) FM 167 N (Temple Hall Hwy) 2/2 2/2 3/3 3/3 \$53,800,000 1.540.480 TxDOT Fort Worth Hood US 377 Mustang Trail Ha	1.580.325	TxDOT Dallas	Ellis	US 77	FM 66	FM 877	2	2	4	4	4	\$502,600
1.205.275 TxDOT Fort Worth Hood SH 144 Pear Orchard Road North of US 67 2	2.745.240	TxDOT Fort Worth	Hood	FM 4 FM 167 Fall Creek	FM 4 Acton Hwy	North Gate Road	2	2	2	4	4	\$160,610
1.250.200 TxDOT Fort Worth Hood US 377 Bypass North of SH 171 Old Granbury Road 0 0 2/2 2/2 2/2 2/2 \$77,500,000 1.540.520 TxDOT Fort Worth Hood US 377 NB/US 377 SB East of SH 144 FM 51 2/2 2/2 2/2 3/3 3/3 \$13,900,000 1.540.455 TxDOT Fort Worth Hood US 377 BU 377 North of BU 377 2/2 2/2 4 4 4 4 4 4 4 \$5,169,600 1.540.470 TxDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) FM 167 N (Temple Hall Hwy) 2/2 2/2 3/3 3/3 \$3/3 \$53,800,000 1.540.480 TxDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) Mustang Trail 4 4 4 6 6 6 \$12,161,541 1.540.490 TxDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 2/2 2/2 3/3 3/3 3/3 \$41,392,000 1.540.500 TxDOT Fort Worth Hood US 377 </td <td></td> <td></td> <td>Hood</td> <td></td> <td></td> <td></td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> <td>4</td> <td></td>			Hood				2	2	2	4	4	
1.540.520 TXDOT Fort Worth Hood US 377 NB/US 377 SB East of SH 144 FM 51 2/2 2/2 3/3 3/3 \$13,900,000 1.540.455 TXDOT Fort Worth Hood US 377 BU 377 North of BU 377 2/2 2/2 4 4 4 4 \$5,169,600 1.540.470 TXDOT Fort Worth Hood US 377 FM 167 S (Fall Creek Hwy) FM 167 N (Temple Hall Hwy) 2/2 2/2 3/3 3/3 \$53,800,000 1.540.480 TXDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) Mustang Trail 4 4 4 6 6 6 \$12,161,541 1.540.490 TXDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 2/2 2/2 3/3 3/3 \$41,392,000 1.540.500 TXDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 4 6 6 \$2,465,777 1.540.510 TXDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 <td>1.205.275</td> <td>TxDOT Fort Worth</td> <td>Hood</td> <td>SH 144</td> <td>Pear Orchard Road</td> <td>North of US 67</td> <td>2</td> <td>2</td> <td></td> <td>2</td> <td>4</td> <td>\$24,860,000</td>	1.205.275	TxDOT Fort Worth	Hood	SH 144	Pear Orchard Road	North of US 67	2	2		2	4	\$24,860,000
1.540.455 TxDOT Fort Worth Hood US 377 BU 377 North of BU 377 2/2 2/2 4 4 4 \$5,169,600 1.540.470 TxDOT Fort Worth Hood US 377 FM 167 S (Fall Creek Hwy) FM 167 N (Temple Hall Hwy) 2/2 2/2 3/3 3/3 \$53,800,000 1.540.480 TxDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) Mustang Trail 4 4 4 6 6 \$12,161,541 1.540.500 TxDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 2/2 2/2 3/3 3/3 \$41,392,000 1.540.500 TxDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 6 6 \$2,465,777 1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 FM 51 BU 377 BU 377 2/2 2/2 2/2 2/2 2/2 2/2	1.250.200	TxDOT Fort Worth	Hood	US 377 Bypass	North of SH 171	Old Granbury Road	0	0	2/2	2/2	2/2	\$77,500,000
1.540.470 TxDOT Fort Worth Hood US 377 FM 167 S (Fall Creek Hwy) FM 167 N (Temple Hall Hwy) 2/2 2/2 3/3 3/3 \$53,800,000 1.540.480 TxDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) Mustang Trail 4 4 4 6 6 6 \$12,161,541 1.540.490 TxDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 2/2 2/2 3/3 3/3 \$41,392,000 1.540.500 TxDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 6 6 6 \$2,465,777 1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 FM 51 BU 377 BU 377 2/2 2/2 2/2 2/2 2/2 \$43,107,000 1.540.550 TxDOT Fort Worth Hood US 377 BU 377 Holmes Dr. 1/2 1/2 1/2 1/2 2/	1.540.520	TxDOT Fort Worth	Hood	US 377 NB/US 377 SB					3/3	3/3	3/3	\$13,900,000
1.540.480 TxDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) Mustang Trail 4 4 6 6 \$ 12,161,541 1.540.490 TxDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 2/2 2/2 3/3 3/3 \$41,392,000 1.540.500 TxDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 6 6 \$2,465,777 1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 BU 377 BU 377 BU 377 1/2 1/2 1/2 2/2 2/2 \$800,000 1.540.550 TxDOT Fort Worth Hood US 377 BU 377 Holmes Dr. 1/2 1/2 1/2 1/2 2/2 2/2 \$800,000	1.540.455	TxDOT Fort Worth	Hood		BU 377				•		4	\$5,169,600
1.540.480 TxDOT Fort Worth Hood US 377 FM 167 N (Temple Hall Hwy) Mustang Trail 4 4 6 6 \$ \$12,161,541 1.540.490 TxDOT Fort Worth Hood US 377 Mustang Trail Harbor Lakes Drive 2/2 2/2 3/3 3/3 \$41,392,000 1.540.500 TxDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 6 6 \$2,465,777 1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 BU 377 BU 377 BU 377 Holmes Dr. 1/2 1/2 1/2 2/2 2/2 2/2 \$800,000	1.540.470	TxDOT Fort Worth	Hood	US 377	FM 167 S (Fall Creek Hwy)	FM 167 N (Temple Hall Hwy)	2/2	2/2	3/3	3/3	3/3	\$53,800,000
1.540.500 TxDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 6 6 \$2,465,777 1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 FM 51 BU 377 2/2 2/2 2/2 2/2 \$43,107,000 1.540.550 TxDOT Fort Worth Hood US 377 BU 377 Holmes Dr. 1/2 1/2 1/2 2/2 2/2 \$800,000	1.540.480	TxDOT Fort Worth	Hood	US 377	FM 167 N (Temple Hall Hwy)	Mustang Trail	4					\$12,161,541
1.540.500 TxDOT Fort Worth Hood US 377 Harbor Lakes Drive Old Cleburne Road 4 4 4 6 6 6 \$2,465,777 1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 FM 51 BU 377 BU 377 Holmes Dr. 1/2 1/2 1/2 2/2 2/2 2/2 \$800,000	1.540.490	TxDOT Fort Worth	Hood	US 377	Mustang Trail	Harbor Lakes Drive	2/2	2/2	3/3	3/3	3/3	\$41,392,000
1.540.510 TxDOT Fort Worth Hood US 377 Old Cleburne Road East Of SH 144 2/2 2/2 3/3 3/3 \$5,306,096 1.540.540 TxDOT Fort Worth Hood US 377 FM 51 BU 377 2/2 \$800,000	1.540.500	TxDOT Fort Worth	Hood	US 377	Harbor Lakes Drive	Old Cleburne Road						
1.540.540 TxDOT Fort Worth Hood US 377 FM 51 BU 377 EV 377 <th< td=""><td></td><td></td><td>Hood</td><td></td><td></td><td></td><td>2/2</td><td>2/2</td><td>3/3</td><td>3/3</td><td>3/3</td><td></td></th<>			Hood				2/2	2/2	3/3	3/3	3/3	
1.540.550 TxDOT Fort Worth Hood US 377 BU 377 Holmes Dr. 1/2 1/2 1/2 2/2 \$800,000			Hood									
	1.540.550	TxDOT Fort Worth	Hood	US 377	BU 377	Holmes Dr.	1/2	1/2	1/2	2/2		
					Holmes Dr.	Powell Cemetery Road				4		

^{**}Stage facilities reported as 'N/A' indicate project is no longer classified as an arterial and will be reported in Freeway/Tollway Recommendations listing instead. Note: '2/2' indicates facility operates as couplet.

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STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM NCTCOG MPO - HIGHWAY PROJECTS

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FY 2021

2019-2022 STIP			11/	2019 Revision:	Approved 0	1/29/2020				
DISTRICT	MPO		COUNTY	CSJ	TIP FY	HWY	PHASE	CITY		YOE COST
DALLAS	NCTCO	G	ELLIS	1051-01-038		FM 664	E,ENG,R,AC	Q WAXAHAC	CHIE \$	18,500,000
LIMITS FROM	US 287 IN WAX	KAHACHIE					PROJEC	T SPONSOR TX	DOT-DALLAS	
LIMITS TO								REVISION D	ATE 11/2019	
	RECONSTRUC	T AND WIDEN 2 L	ANE RURAL TO 4	LANE DIVIDED	URBAN RO	ADWAY (U	JLTIMATE 6)	MPO PROJ I		
DESCR	15) (11) 05 511		014/ 014 050 50	E)/0001 ABB B	·			FUNDING CA	T(S) SW PE,SW	ROW
		GINEERING AND F		,						
	JECT COST IN	HE 2019-2022 TIP/S	STIP; REVISE SU	UPE	HISTORY	IZED ELINI	DING BY CATE	CODV/SHADE		
PREL ENG \$	3,500,000	IFORMATION	CATEGORY	FEDERAL	STA		EGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	15,000,000	COST OF	SW PE \$	0 \$			0 \$	0 \$	0 \$	3,500,000
CONSTR \$	45,703,741	APPROVED	SW ROW \$	12,000,000 \$			0 \$	1,500,000 \$	0 \$	15,000,000
CONST ENG \$	2,266,906	PHASES	TOTAL \$	12,000,000 \$			0 \$	1,500,000 \$	0 \$	18,500,000
CONTING \$	909,504	\$ 18,500,000		·						
INDIRECT \$	0									
BOND FIN \$	0									
PT CHG ORD \$	0	-								
TOTAL CST \$	67,380,151									
2019-2022 STIP				2019 Revision:						
DISTRICT	MPO		COUNTY	CSJ	TIP FY	HWY	PHASE	CITY		YOE COST
DALLAS	NCTCO		COLLIN	0918-47-965	2021	US 75	E,ENG	RICHARD		450,000
	W CITY LINE D	BOUND FRONTAG	E ROAD FROM R	ENNER ROAD			PROJEC	T SPONSOR RIC		
		NB FRONTAGE RO	AD BBIDGE OVE	D SDDING CDE	EK TO CON	STDLICT S	SHADED LISE D		ATE 11/2019	
DESCR		ND FRONTAGE RO	DAD BRIDGE OVE	IN SPRING CRE	EK 10 CON	SIRUCIS	SHARED-USE F	FUNDING CA		
		TO THE 2019-202	2 TIP/STIP		PROJECT	90.000 OF	CAT 3 -TDC (M		LIEU OF A LOCA	AL MA
P7								CULATED IN FUN		
TOTAL PRO	JECT COST IN	IFORMATION					DING BY CATE			
PREL ENG \$	450,000		CATEGORY	FEDERAL	STA	TE RI	EGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	25,000	COST OF	5 \$	450,000		0 \$	0 \$	0 \$	0 \$	450,000
CONSTR \$	2,500,000	APPROVED	Other \$	0 \$		0 \$	0 \$	0 \$	0 \$	0
CONST ENG \$	1,250	PHASES \$ 450.000	TOTAL \$	450,000 \$	j	0 \$	0 \$	0 \$	0 \$	450,000
CONTING \$ INDIRECT \$	56,250 0	\$ 450,000								
BOND FIN \$	0									
PT CHG ORD \$	0									
TOTAL CST \$	3,032,500	-								
2019-2022 STIP)	'	11/	2019 Revision:	Approved 0	1/29/2020				
DISTRICT	MPO		COUNTY	CSJ	TIP FY	HWY	PHASE	CITY		YOE COST
DALLAS	NCTCO	G	DALLAS	0918-47-296	2021	VA	С	DALLAS	\$	15,500,000
LIMITS FROM	CIRCUIT TRAIL	CONNECTOR/KA	TY TRAIL EXTEN	ISION FROM KA	TY TRAIL		PROJEC	T SPONSOR DA	LLAS	
LIMITS TO	TRINITY STRA	ND TRAIL						REVISION D	ATE 11/2019	
		TY STRAND TRAI	L TO THE KATY T	RAIL VIA HI LIN	E DRIVE AN	D VICTOR	Y AVEN	MPO PROJ I		
	UE TO HOUST		0 TID/OT'S 1 C 5	U CONTE	DD 0 :===			FUNDING CA	T(S) 3LC,5	
		TO THE 2019-202 BY CITY OF DALLA	,	AL CONTRI	PROJECT					
	DJECT COST IN		10			IZED ELINI	DING BY CATE	GORY/SHAPE		
PREL ENG \$	2,500,000	. CRIMATION	CATEGORY	FEDERAL	STA		EGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	2,000,000	COST OF	3LC \$	0 \$		0 \$	0 \$	0 \$	5,500,000 \$	5,500,000
CONSTR \$	15,500,000	APPROVED	5 \$	8,000,000 \$		0 \$	0 \$	2,000,000 \$	0 \$	10,000,000
CONST ENG \$	621,550	PHASES	TOTAL \$	8,000,000 \$		0 \$	0 \$	2,000,000 \$	5,500,000 \$	15,500,000
CONTING \$	220,100	\$ 15,500,000	'	1		1	'	1	1	
INDIRECT \$	0									
BOND FIN \$	0									
PT CHG ORD \$	0	_								
TOTAL CST \$	18,841,650									

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FY 2019

2019-2022 STIP			07/	2018 Revision:	Approved 0	9/28/2018				
DISTRICT	MPO		COUNTY	CSJ	TIP FY	HWY	PHASE	CITY		YOE COST
DALLAS	NCTCO	G	ELLIS	2964-12-001	2019	SL 9	R,ACQ	VARIOUS	\$	26,000,000
LIMITS FROM	H 35E						PROJEC	T SPONSOR TX	DOT-DALLAS	
	DALLAS COUN								ATE 07/2018	
		TO 2 LANE FROI	NTAGE ROADS (U	ILTIMATE 6) INC	CLUDING IT	S, SIDEWA	ALKS, AND		NUM 54119.3	
	TURN LANES				DD 0 IEOT	DARTOR	DECIONAL 401	FUNDING CA	T(S) S102	
REMARKS P7					HISTORY	PART OF	REGIONAL 10 Y	EAR PLAN		
	JECT COST IN	IFORMATION				PIZED FIIN	IDING BY CATE	GORY/SHARE		
PREL ENG \$	500.000	II OKIMATION	CATEGORY	FEDERAL	STA		REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	26,000,000	COST OF	SW ROW \$	20,800,000			0 \$	2,600,000 \$	0 \$	26,000,000
CONSTR \$	9,014,060	APPROVED	TOTAL \$	20,800,000	. , ,		0 \$	2,600,000 \$	0 \$	26,000,000
CONST ENG \$	441,650	PHASES				1	11		1	
CONTING \$	112,666	\$ 26,000,000								
INDIRECT \$	0									
BOND FIN \$	0									
PT CHG ORD \$	0									
TOTAL CST \$	36,068,376									
2019-2022 STIP			07/	2018 Revision:	Approved 0	9/28/2018				
DISTRICT	MPO		COUNTY	CSJ	TIP FY	HWY	PHASE	CITY		YOE COST
DALLAS	NCTCO	G	ELLIS	1051-01-052	2019	FM 664	E,ENG,R,AC	Q MIDLOTHI	AN \$	6,500,000
LIMITS FROM							PROJEC	T SPONSOR TX	DOT-DALLAS	
	WESTMORELA								ATE 07/2018	
		T AND WIDEN 2 L	ANE RURAL TO 4	LANE DIVIDED	URBAN RO) ADWAY	ULTIMATE 6 L	MPO PROJ I		
DESCR	ANE)								T(S) S102,SBPE	
REMARKS						PART OF	REGIONAL 10 Y	EAR PLAN		
P7	JECT COST IN	IEODMATION			HISTORY	DIZED ELIK	IDING BY CATE	CODVIGUADE		
PREL ENG \$	1,500,000	IFORMATION	CATEGORY	FEDERAL	STA		REGIONAL	LOCAL	LC	TOTAL
ROW PURCH \$	5,000,000	COST OF	SW PE \$	0 9			0 \$	0 \$	0 \$	1,500,000
CONSTR \$	32,145,761	APPROVED	SW ROW \$	4,000,000		000 \$	0 \$	500,000 \$	0 \$	5,000,000
CONST ENG \$	1,533,106	PHASES	TOTAL \$	4,000,000	2,000,	000 \$	0 \$	500,000 \$	0 \$	6,500,000
CONTING \$	615,097	\$ 6,500,000	'	1					1	
INDIRECT \$		Ψ 0,500,000								
	0	0,000,000								
BOND FIN \$	0	0,300,000								
PT CHG ORD \$	0	0,300,000								
	-	- 0,300,000								
PT CHG ORD \$	0	- 0,300,000	02/	2019 Revision:	Approved 0	4/04/2019				
PT CHG ORD \$ TOTAL CST \$	0 0 40,793,964 MPO		COUNTY	CSJ	TIP FY	4/04/2019 HWY	PHASE	CITY		YOE COST
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS	0 0 40,793,964 MPO NCTCO				TIP FY		E,ENG,R,AC	Q VARIOUS	\$	YOE COST 40,000,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM	0 0 40,793,964 MPO NCTCO H 35E	G	COUNTY	CSJ	TIP FY	HWY	E,ENG,R,AC	Q VARIOUS T SPONSOR TX	DOT-DALLAS	
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO	0 0 40,793,964 MPO NCTCO H 35E WEST OF FER	G RIS ROAD	COUNTY	CSJ 1051-01-051	TIP FY 2019	HWY FM 664	E,ENG,R,AC PROJEC	Q VARIOUS T SPONSOR TX REVISION D	DOT-DALLAS ATE 02/2019	
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT	0 0 40,793,964 MPO NCTCO H 35E WEST OF FER	G RIS ROAD	COUNTY	CSJ 1051-01-051	TIP FY 2019	HWY FM 664	E,ENG,R,AC PROJEC	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I	DOT-DALLAS ATE 02/2019 NUM 13035.1	40,000,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR	MPO NCTCO H 35E WEST OF FER RECONSTRUC	G RIS ROAD ET AND WIDEN 2/4	COUNTY ELLIS LANE RURAL RO	CSJ 1051-01-051 DADWAY TO 6 L	TIP FY 2019 ANE DIVIDE	HWY FM 664 ED URBAN	E,ENG,R,AC PROJEC	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102	40,000,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS	MPO NCTCO H 35E WEST OF FER RECONSTRUC	G RIS ROAD T AND WIDEN 2/4 E; REVISE LIMITS	COUNTY	CSJ 1051-01-051 DADWAY TO 6 L	TIP FY 2019 ANE DIVIDE	HWY FM 664 ED URBAN PART OF	E,ENG,R,AC PROJEC	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA (EAR PLAN; R PH	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019	40,000,000 IS FOR
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS	MPO NCTCO H 35E WEST OF FER RECONSTRUC	G RIS ROAD T AND WIDEN 2/4 E; REVISE LIMITS	COUNTY ELLIS LANE RURAL RO	CSJ 1051-01-051 DADWAY TO 6 L	TIP FY 2019 ANE DIVIDE	HWY FM 664 ED URBAN PART OF \$30,000,0	E,ENG,R,AC PROJEC REGIONAL 10 Y 00 FOR ROW; F	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA (EAR PLAN; R PH 1 PHASE IN FY 20	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000	40,000,000 IS FOR 0,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS P7	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI	G RIS ROAD T AND WIDEN 2/2 E; REVISE LIMITS 5.1	COUNTY ELLIS LANE RURAL RO	CSJ 1051-01-051 DADWAY TO 6 L	TIP FY 2019 ANE DIVIDE PROJECT HISTORY	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL	E,ENG,R,AC PROJEC REGIONAL 10 N 00 FOR ROW; F ITIES; RELATEI	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA 'EAR PLAN; R PH PHASE IN FY 20 TO TIP 13035.2	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019	40,000,000 IS FOR 0,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS P7	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN	G RIS ROAD T AND WIDEN 2/2 E; REVISE LIMITS 5.1	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO	CSJ 1051-01-051 DADWAY TO 6 L DDE FROM	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN	E,ENG,R,AC PROJEC REGIONAL 10 N 00 FOR ROW; F ITIES; RELATEI IDING BY CATE	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA 'EAR PLAN; R PI PHASE IN FY 20 D TO TIP 13035.2 GORY/SHARE	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000 /CSJ 1051-03-001	40,000,000 IS FOR 0,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS P7 TOTAL PRO PREL ENG \$	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN 10,000,000	G RIS ROAD T AND WIDEN 2/2 E; REVISE LIMITS 5.1	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO	CSJ 1051-01-051 DADWAY TO 6 L	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN ATE R	E,ENG,R,AC PROJEC REGIONAL 10 N 00 FOR ROW; F ITIES; RELATEI	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA 'EAR PLAN; R PH PHASE IN FY 20 TO TIP 13035.2	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000	40,000,000 IS FOR 0,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS P7	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN	G RIS ROAD T AND WIDEN 2/2 E; REVISE LIMITS 5.1 IFORMATION	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO	CSJ 1051-01-051 DADWAY TO 6 L DDE FROM FEDERAL	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR STA	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN VTE R	E,ENG,R,AC PROJEC REGIONAL 10 Y 00 FOR ROW; R JITIES; RELATEI IDING BY CATE	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA 'EAR PLAN; R PH PHASE IN FY 20 O TO TIP 13035.2 GORY/SHARE LOCAL 0 \$	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000 //CSJ 1051-03-001	40,000,000 IS FOR 0,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS P7 TOTAL PROPREL ENG \$ ROW PURCH \$	0 0 40,793,964 MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN 10,000,000 32,000,000	G RIS ROAD T AND WIDEN 2/2 E; REVISE LIMITS 5.1 IFORMATION COST OF	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO	CSJ 1051-01-051 DADWAY TO 6 L DDE FROM FEDERAL 0	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR 5 10,000, 5 3,000,	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN VTE R 000 \$ 000 \$	E,ENG,R,AC PROJEC REGIONAL 10 \(\) 00 FOR ROW; F ITIES; RELATEI JDING BY CATE REGIONAL 0 \(\)	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA 'EAR PLAN; R PI: PHASE IN FY 20 D TO TIP 13035.2 GORY/SHARE LOCAL	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(5) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000 //CSJ 1051-03-001	40,000,000 IS FOR 0,000 TOTAL 10,000,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS PT TOTAL PROPREL ENG \$ ROW PURCH \$ CONSTR \$	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN 10,000,000 32,000,000 182,391,982	G RIS ROAD T AND WIDEN 2/2 E; REVISE LIMITS 5.1 IFORMATION COST OF APPROVED	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO CATEGORY SW PE \$ SW ROW \$	CSJ 1051-01-051 DADWAY TO 6 L DDE FROM FEDERAL 0 \$ 24,000,000 \$	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR 5 10,000, 5 3,000,	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN VTE R 000 \$ 000 \$	E,ENG,R,AC PROJEC REGIONAL 10 \(\) 00 FOR ROW; F ITIES; RELATE: IDING BY CATE REGIONAL 0 \$ 0 \$	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA FEAR PLAN; R PF PHASE IN FY 20 TO TIP 13035.2 GORY/SHARE LOCAL 0 \$ 3,000,000 \$	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000 /CSJ 1051-03-001 LC 0 \$ 0 \$	40,000,000 IS FOR 0,000 TOTAL 10,000,000 30,000,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO PROJECT DESCR REMARKS PT TOTAL PROPREL ENG \$ ROW PURCH \$ CONSTR \$ CONST ENG \$	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN 10,000,000 32,000,000 182,391,982 5,814,359	G RIS ROAD T AND WIDEN 2/4 E; REVISE LIMITS 5.1 IFORMATION COST OF APPROVED PHASES	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO CATEGORY SW PE \$ SW ROW \$	CSJ 1051-01-051 DADWAY TO 6 L DDE FROM FEDERAL 0 \$ 24,000,000 \$	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR 5 10,000, 5 3,000,	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN VTE R 000 \$ 000 \$	E,ENG,R,AC PROJEC REGIONAL 10 \(\) 00 FOR ROW; F ITIES; RELATE: IDING BY CATE REGIONAL 0 \$ 0 \$	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA FEAR PLAN; R PF PHASE IN FY 20 TO TIP 13035.2 GORY/SHARE LOCAL 0 \$ 3,000,000 \$	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000 /CSJ 1051-03-001 LC 0 \$ 0 \$	40,000,000 IS FOR 0,000 TOTAL 10,000,000 30,000,000
PT CHG ORD \$ TOTAL CST \$ 2019-2022 STIP DISTRICT DALLAS LIMITS FROM LIMITS TO DESCR REMARKS P7 TOTAL PRO PREL ENG \$ ROW PURCH \$ CONSTR \$ CONST ENG \$ CONST ENG \$ INDIRECT \$ BOND FIN \$	MPO NCTCO H 35E WEST OF FER RECONSTRUC REVISE SCOPI 13035 TO 1303 JECT COST IN 10,000,000 32,000,000 182,391,982 5,814,359 2,332,777	G RIS ROAD T AND WIDEN 2/4 E; REVISE LIMITS 5.1 IFORMATION COST OF APPROVED PHASES	COUNTY ELLIS LANE RURAL ROS; CHANGE TIP CO CATEGORY SW PE \$ SW ROW \$	CSJ 1051-01-051 DADWAY TO 6 L DDE FROM FEDERAL 0 \$ 24,000,000 \$	TIP FY 2019 ANE DIVIDE PROJECT HISTORY AUTHOR 5 10,000, 5 3,000,	HWY FM 664 ED URBAN PART OF \$30,000,0 FOR UTIL RIZED FUN VTE R 000 \$ 000 \$	E,ENG,R,AC PROJEC REGIONAL 10 \(\) 00 FOR ROW; F ITIES; RELATE: IDING BY CATE REGIONAL 0 \$ 0 \$	Q VARIOUS T SPONSOR TX REVISION D MPO PROJ I FUNDING CA FEAR PLAN; R PF PHASE IN FY 20 TO TIP 13035.2 GORY/SHARE LOCAL 0 \$ 3,000,000 \$	DOT-DALLAS ATE 02/2019 NUM 13035.1 T(S) SBPE,S102 HASE IN FY 2019 121 IS FOR \$2,000 /CSJ 1051-03-001 LC 0 \$ 0 \$	40,000,000 IS FOR 0,000 TOTAL 10,000,000 30,000,000
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Appendix F - Resource-specific Maps

Figure 1 – Land Use and Community Facilities

Figure 2 - Project Area Soils

Figure 3 – Census Geographies

Figure 4 - Water Resources

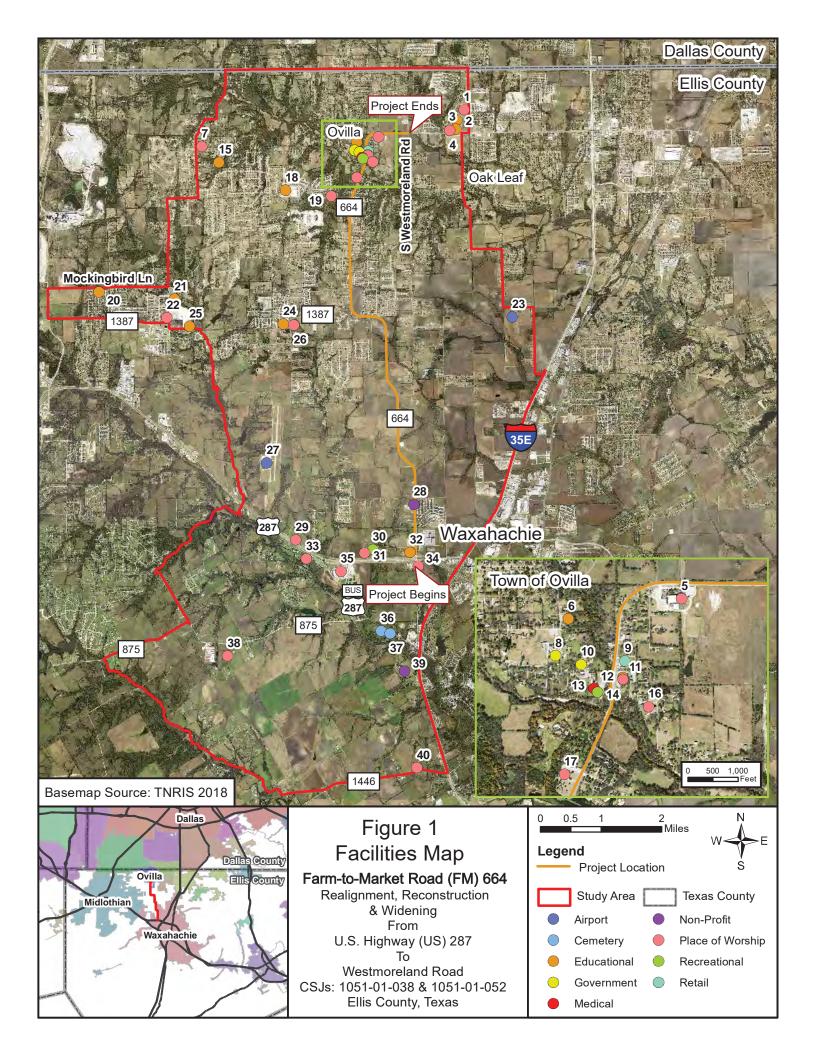
Figure 5 – Observed Vegetation Types

Figure 6 - Hazardous Materials

Figure 7 - Noise Analysis Results

Figure 8 - Indirect Impact Area

Figure 9 - Cumulative Impact Area



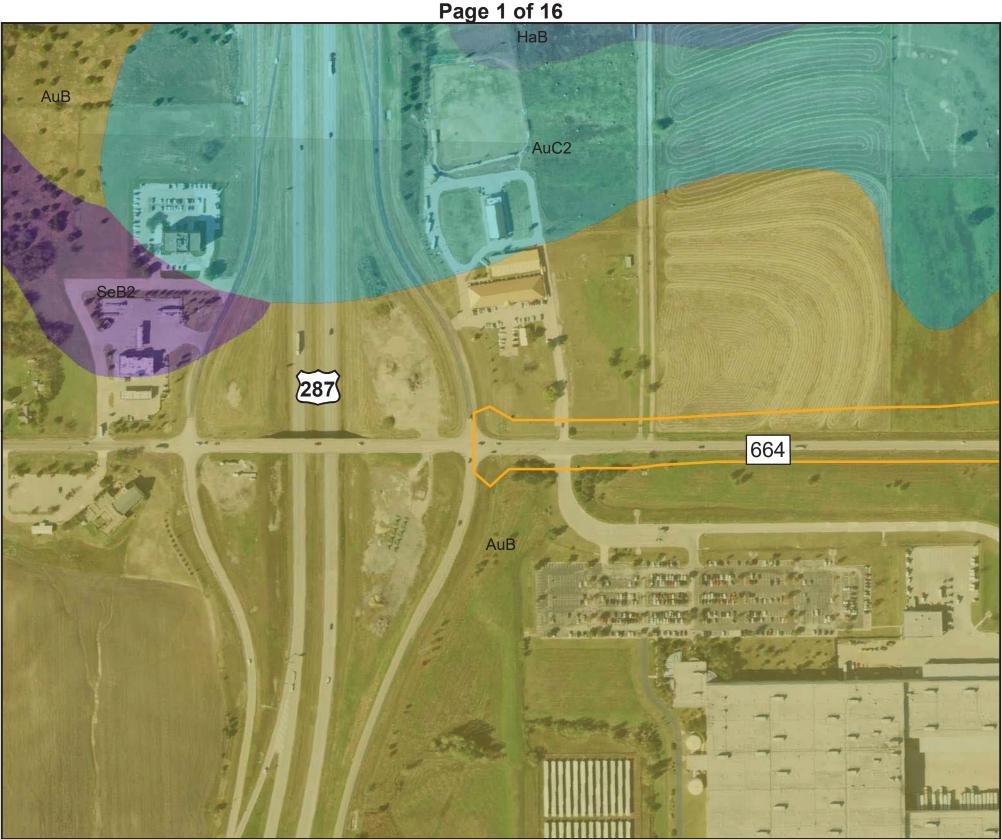


FIGURE 2

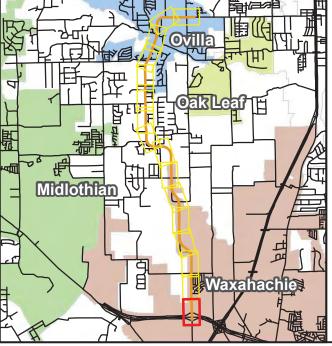
NRCS SOIL MAP FM 664

FARM-TO-MARKET ROAD (FM) 664 From U.S. Highway (US) 287 To Westmoreland Road Ellis County

CSJs: 1051-01-038 and 1051-01-052







Legend

Proposed Project Area

Delineated Streams and Wetland

AuB - Austin silty clay, 1 to 3 percent slopes

AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded

AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded

BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded

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SeB2 - Stephen-Eddy complex, 1 to 3 percent slopes, eroded

SeC2 - - Stephen-Eddy complex, 2 to 5 percent slopes

StB - Stephen silty clay, 1 to 4 percent slopes

W - Water

Page 2 of 16

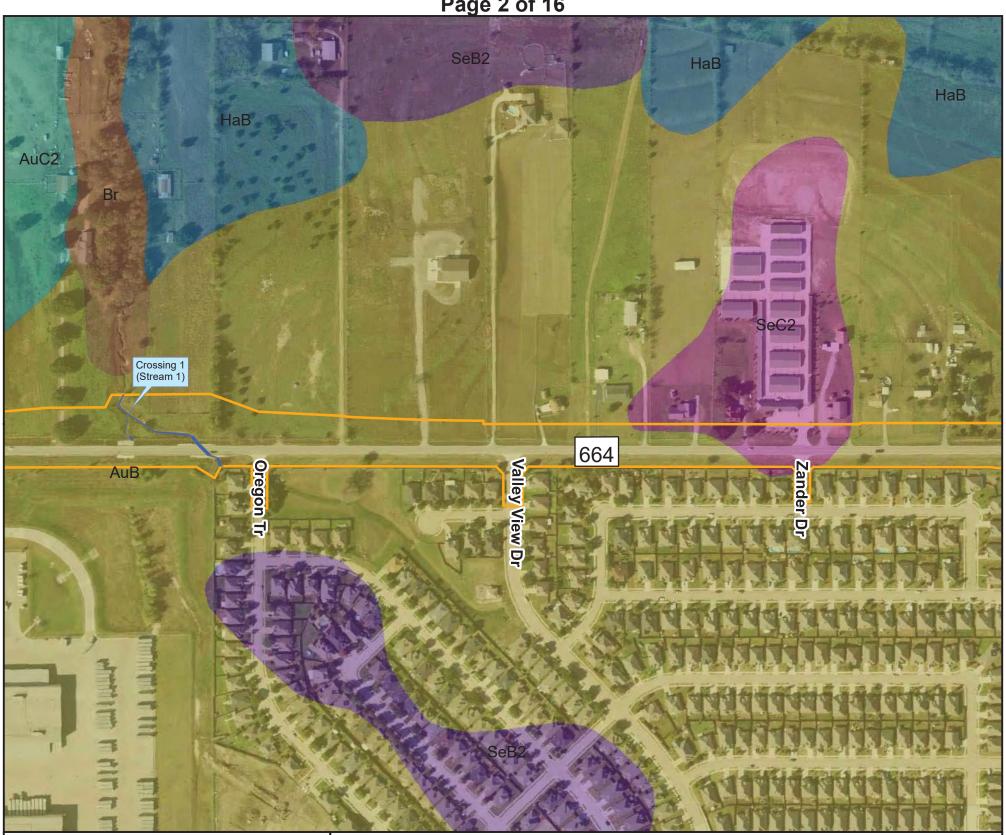


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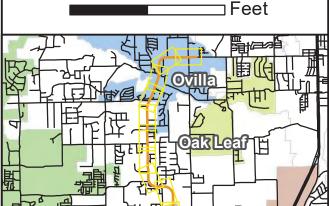


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250

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Midlothian



Legend

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Page 3 of 16



FIGURE 2

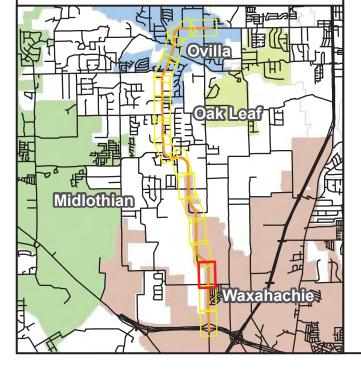
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Page 4 of 16 664 HaB AuB EcB AuC2 FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052 AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded Br - Broken alluvial land, rarely flooded EcB - Eddy gravelly clay loan, 1 to 3 percent slopes 0 250 500 ⊒ Feet EdD2 - Eddy soils, 3 to 8 percent slopes, eroded EdF - Eddy soils, 8 to 20 percent slopes Fr - Frio silty clay, 0 to 1 percent slopes, frequently flooded Fs - Frio silty clay, 0 to 1 percent slopes, occasionally flooded oakleaf H HaB - Houston Black clay, 1 to 3 percent slopes SeB2 - Stephen-Eddy complex, 1 to 3 percent slopes, eroded

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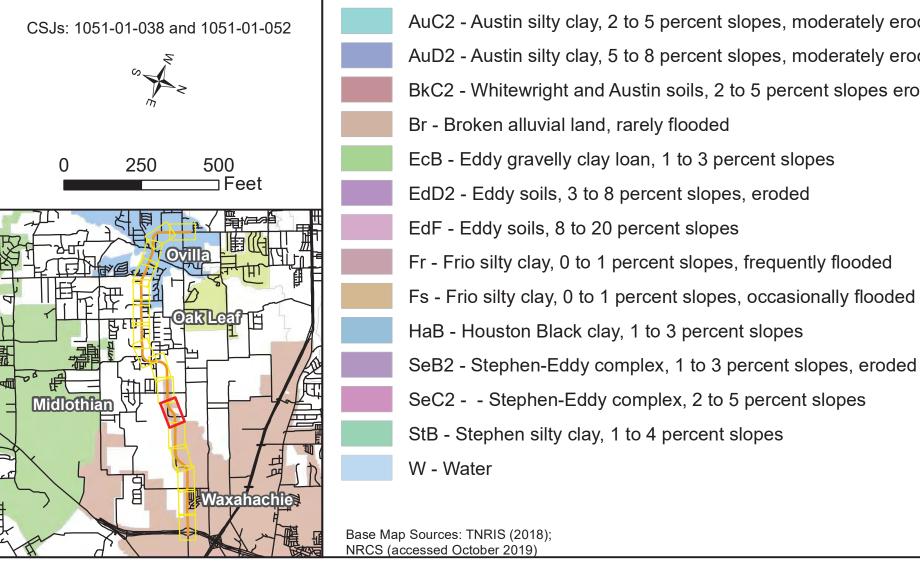
Base Map Sources: TNRIS (2018); NRCS (accessed October 2019)



Midlothian

Page 5 of 16 AuB AuC2 664 Crossing 2 (Stream 2) Crossing 3 (Stream 3) HaB AuB AuB FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052 AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded Br - Broken alluvial land, rarely flooded EcB - Eddy gravelly clay loan, 1 to 3 percent slopes 0 250 500 ⊒ Feet EdD2 - Eddy soils, 3 to 8 percent slopes, eroded EdF - Eddy soils, 8 to 20 percent slopes Fr - Frio silty clay, 0 to 1 percent slopes, frequently flooded Fs - Frio silty clay, 0 to 1 percent slopes, occasionally flooded oakleaf H HaB - Houston Black clay, 1 to 3 percent slopes SeB2 - Stephen-Eddy complex, 1 to 3 percent slopes, eroded Midlothian SeC2 - - Stephen-Eddy complex, 2 to 5 percent slopes StB - Stephen silty clay, 1 to 4 percent slopes W - Water

Page 6 of 16 AuB 664 HaB AuB BkC2 FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052 AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded Br - Broken alluvial land, rarely flooded EcB - Eddy gravelly clay loan, 1 to 3 percent slopes 0 250 500 ⊒ Feet EdD2 - Eddy soils, 3 to 8 percent slopes, eroded EdF - Eddy soils, 8 to 20 percent slopes Fr - Frio silty clay, 0 to 1 percent slopes, frequently flooded Fs - Frio silty clay, 0 to 1 percent slopes, occasionally flooded oakleaf H HaB - Houston Black clay, 1 to 3 percent slopes



Page 7 of 16 664 AuC2 AuB Crossing 4 (Stream 4) Bob White Ln AuB AuB BkC2

FIGURE 2

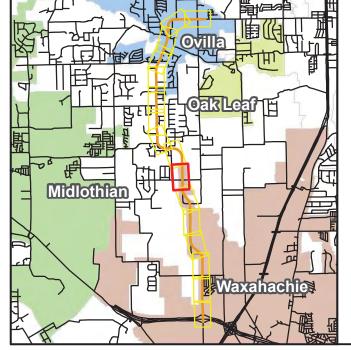
NRCS SOIL MAP FM 664

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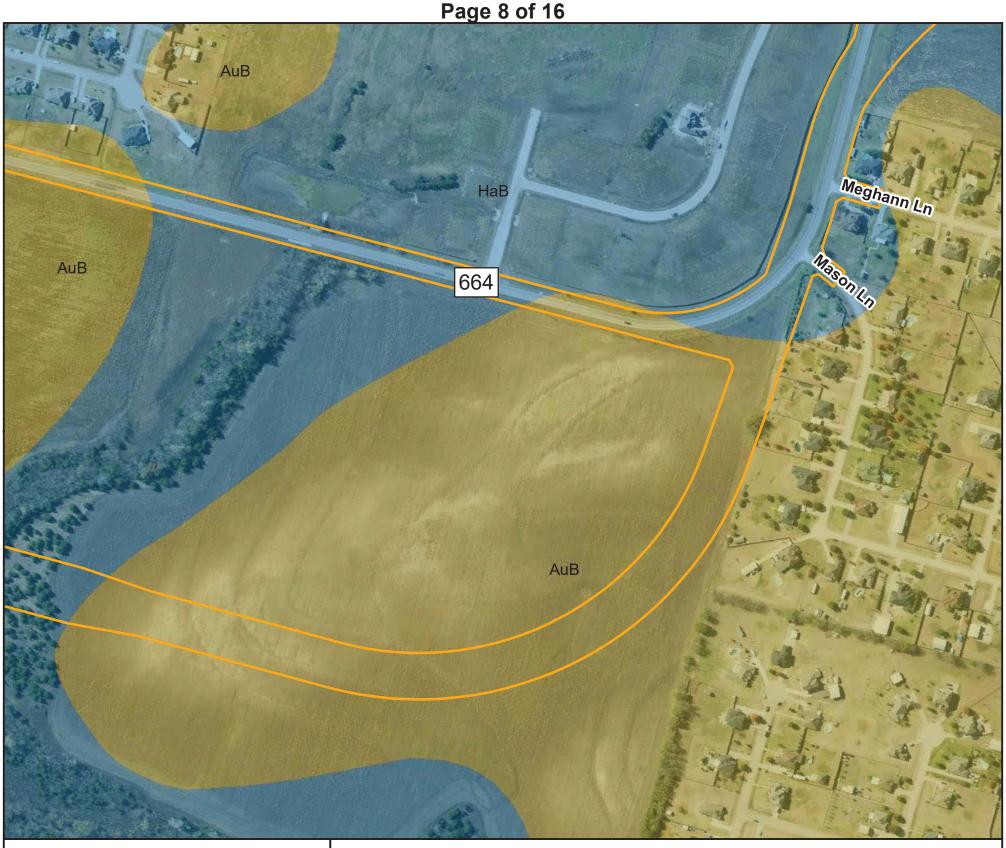


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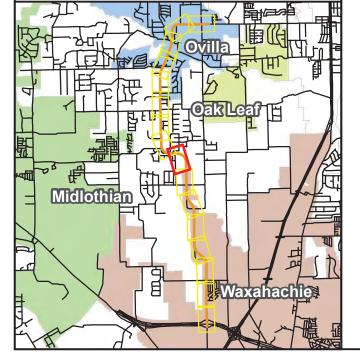
NRCS SOIL MAP FM 664

FARM-TO-MARKET ROAD (FM) 664 From U.S. Highway (US) 287 To Westmoreland Road Ellis County

CSJs: 1051-01-038 and 1051-01-052







Legend

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Page 9 of 16 1387 Meghann L FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052 AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded Br - Broken alluvial land, rarely flooded EcB - Eddy gravelly clay loan, 1 to 3 percent slopes 0 250 500 ⊒ Feet EdD2 - Eddy soils, 3 to 8 percent slopes, eroded EdF - Eddy soils, 8 to 20 percent slopes Fr - Frio silty clay, 0 to 1 percent slopes, frequently flooded Fs - Frio silty clay, 0 to 1 percent slopes, occasionally flooded oakleaf H HaB - Houston Black clay, 1 to 3 percent slopes SeB2 - Stephen-Eddy complex, 1 to 3 percent slopes, eroded Midlothian SeC2 - - Stephen-Eddy complex, 2 to 5 percent slopes StB - Stephen silty clay, 1 to 4 percent slopes

> Base Map Sources: TNRIS (2018); NRCS (accessed October 2019)

W - Water

Page 10 of 16



FIGURE 2

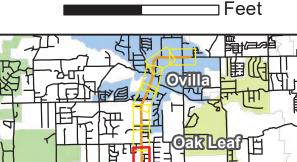
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FARM-TO-MARKET ROAD (FM) 664 From U.S. Highway (US) 287 To Westmoreland Road Ellis County

CSJs: 1051-01-038 and 1051-01-052



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Midlothian

Legend

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Page 11 of 16

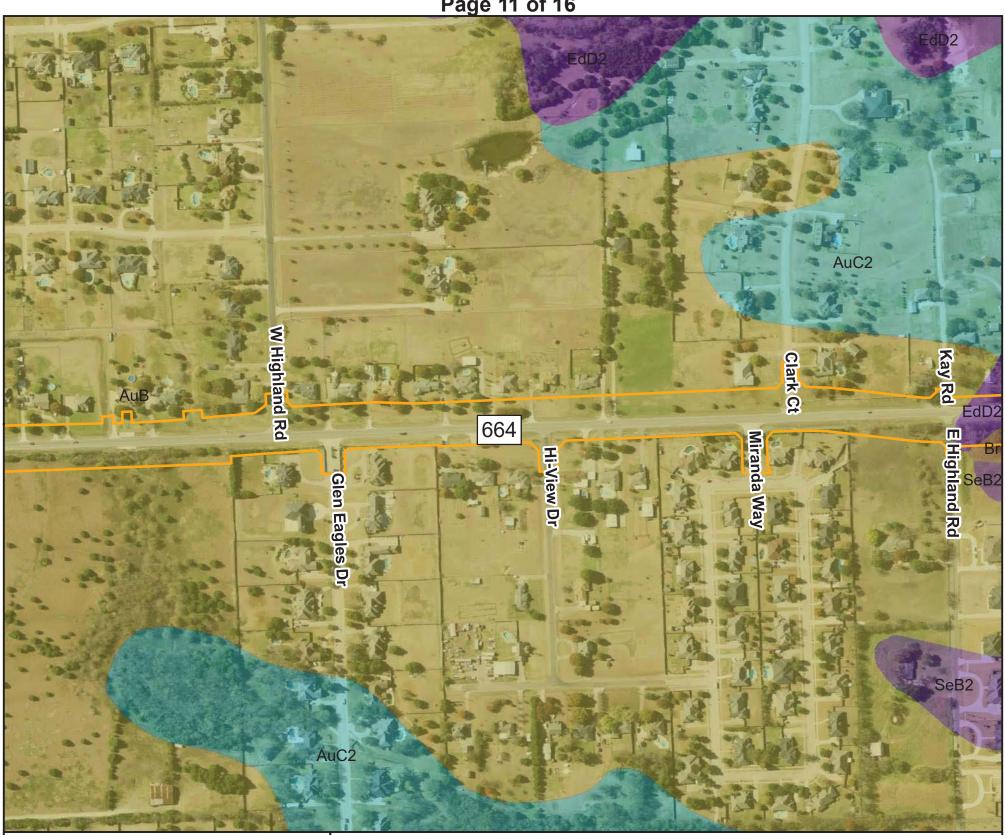


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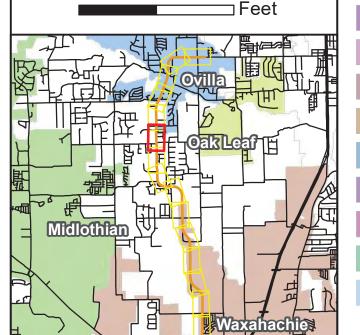
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Legend

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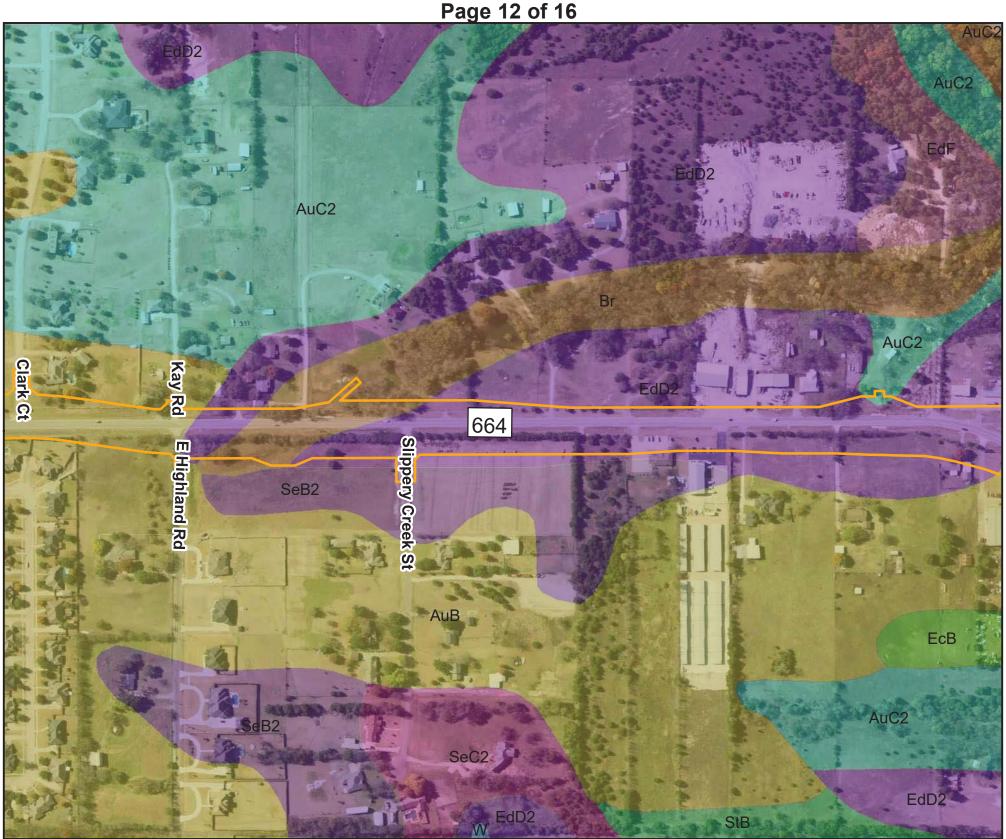


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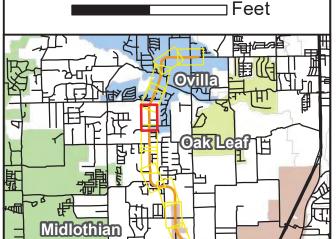
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Legend

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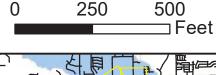
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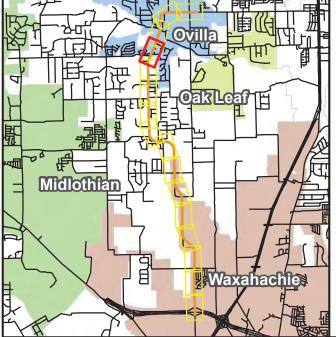
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Page 13 of 16 AuC2 AuB AuC2 Ovilla Rd Oaks Dr 664 FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052







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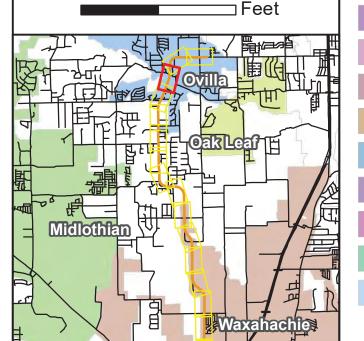
Page 14 of 16 AuB **EcB** Crossing 6 (Stream 6) AuB 664 Crossing 5 (Stream 5) AuB EcB FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052



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OLD - Otephen sinty diay, 1 to 4 percent slope

W - Water

Page 15 of 16 StB AuB HaB 664 AuB BkC2 AuC2 FIGURE 2 Legend **NRCS SOIL MAP** Proposed Project Area FM 664 **Delineated Streams** FARM-TO-MARKET ROAD (FM) 664 and Wetland From U.S. Highway (US) 287 To Westmoreland Road AuB - Austin silty clay, 1 to 3 percent slopes Ellis County AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded CSJs: 1051-01-038 and 1051-01-052 AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded Br - Broken alluvial land, rarely flooded EcB - Eddy gravelly clay loan, 1 to 3 percent slopes 0 250 500 ⊐ Feet EdD2 - Eddy soils, 3 to 8 percent slopes, eroded EdF - Eddy soils, 8 to 20 percent slopes Fr - Frio silty clay, 0 to 1 percent slopes, frequently flooded Fs - Frio silty clay, 0 to 1 percent slopes, occasionally flooded oakleaf H HaB - Houston Black clay, 1 to 3 percent slopes SeB2 - Stephen-Eddy complex, 1 to 3 percent slopes, eroded Midlothian SeC2 - - Stephen-Eddy complex, 2 to 5 percent slopes StB - Stephen silty clay, 1 to 4 percent slopes

> Base Map Sources: TNRIS (2018); NRCS (accessed October 2019)

W - Water

Page 16 of 16

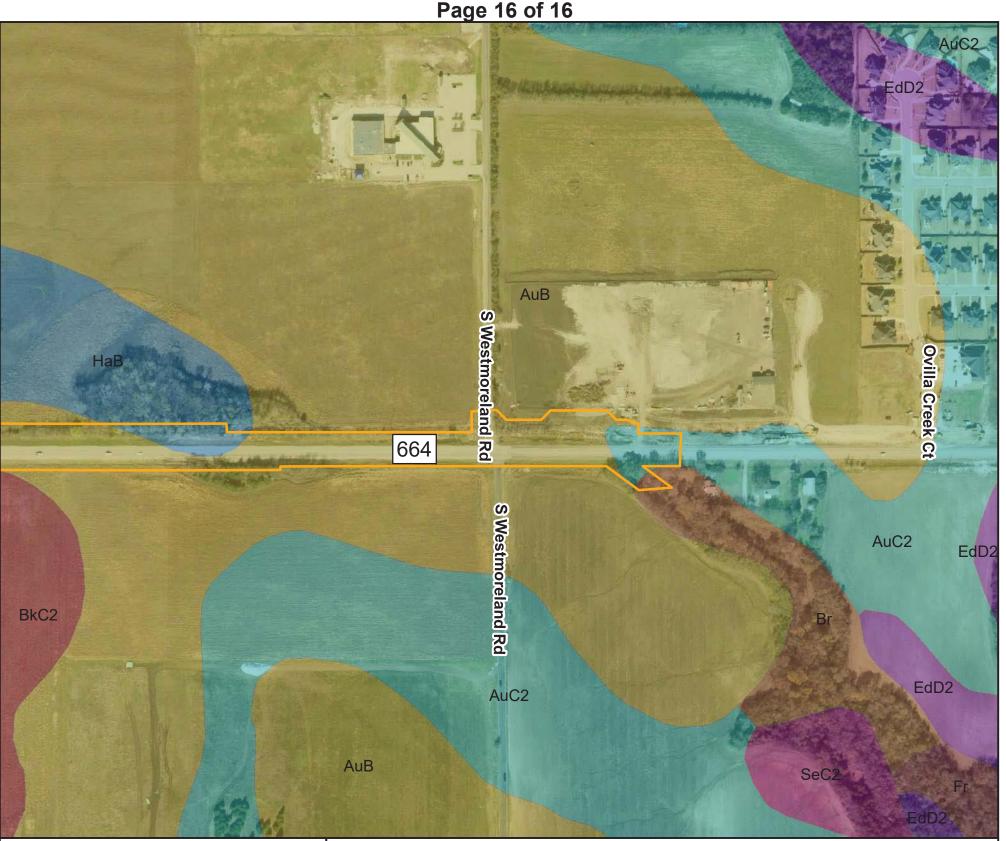


FIGURE 2

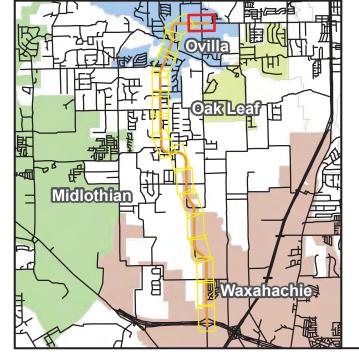
NRCS SOIL MAP FM 664

FARM-TO-MARKET ROAD (FM) 664 From U.S. Highway (US) 287 To Westmoreland Road Ellis County

CSJs: 1051-01-038 and 1051-01-052







Legend

Proposed Project Area

Delineated Streams and Wetland

AuB - Austin silty clay, 1 to 3 percent slopes

AuC2 - Austin silty clay, 2 to 5 percent slopes, moderately eroded

AuD2 - Austin silty clay, 5 to 8 percent slopes, moderately eroded

BkC2 - Whitewright and Austin soils, 2 to 5 percent slopes eroded

Br - Broken alluvial land, rarely flooded

EcB - Eddy gravelly clay loan, 1 to 3 percent slopes

EdD2 - Eddy soils, 3 to 8 percent slopes, eroded

EdF - Eddy soils, 8 to 20 percent slopes

Fr - Frio silty clay, 0 to 1 percent slopes, frequently flooded

Fs - Frio silty clay, 0 to 1 percent slopes, occasionally flooded

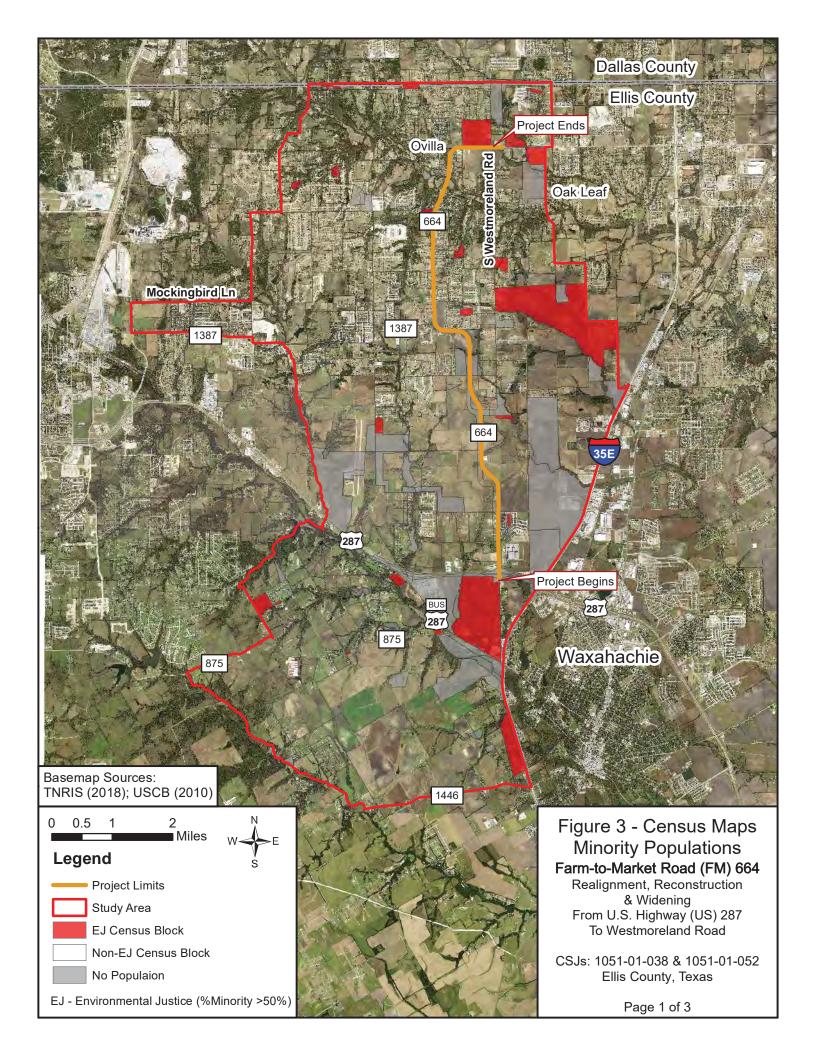
HaB - Houston Black clay, 1 to 3 percent slopes

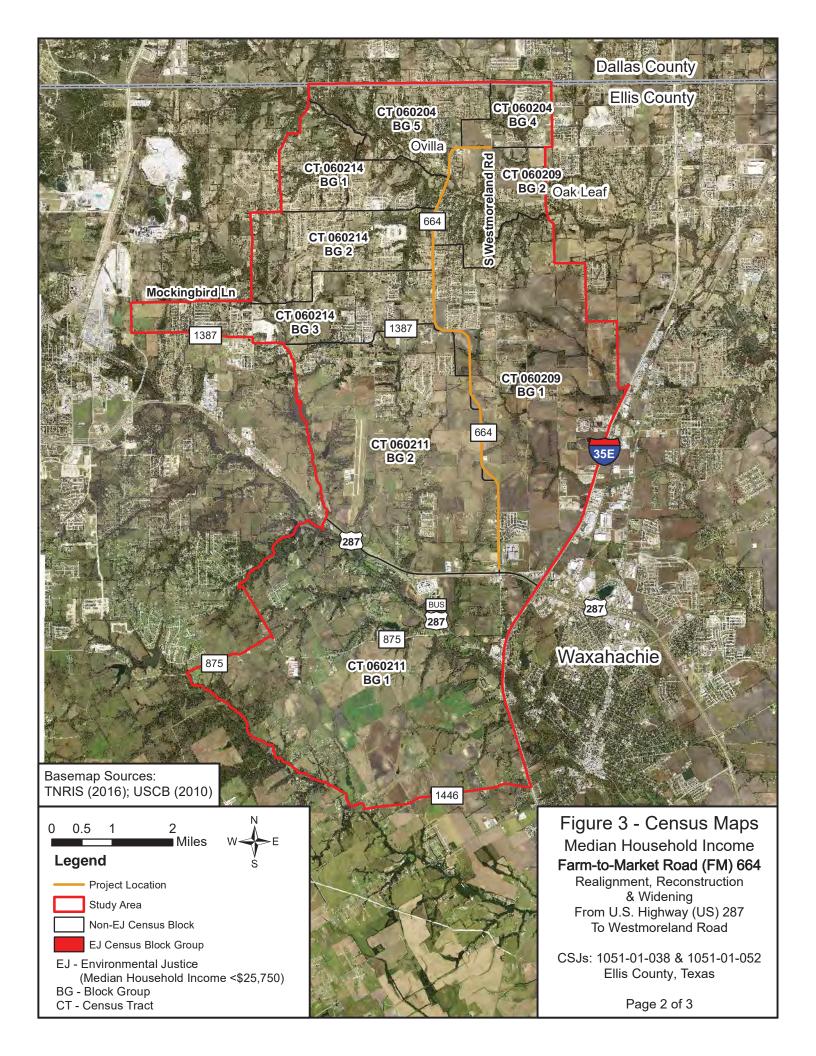
SeB2 - Stephen-Eddy complex, 1 to 3 percent slopes, eroded

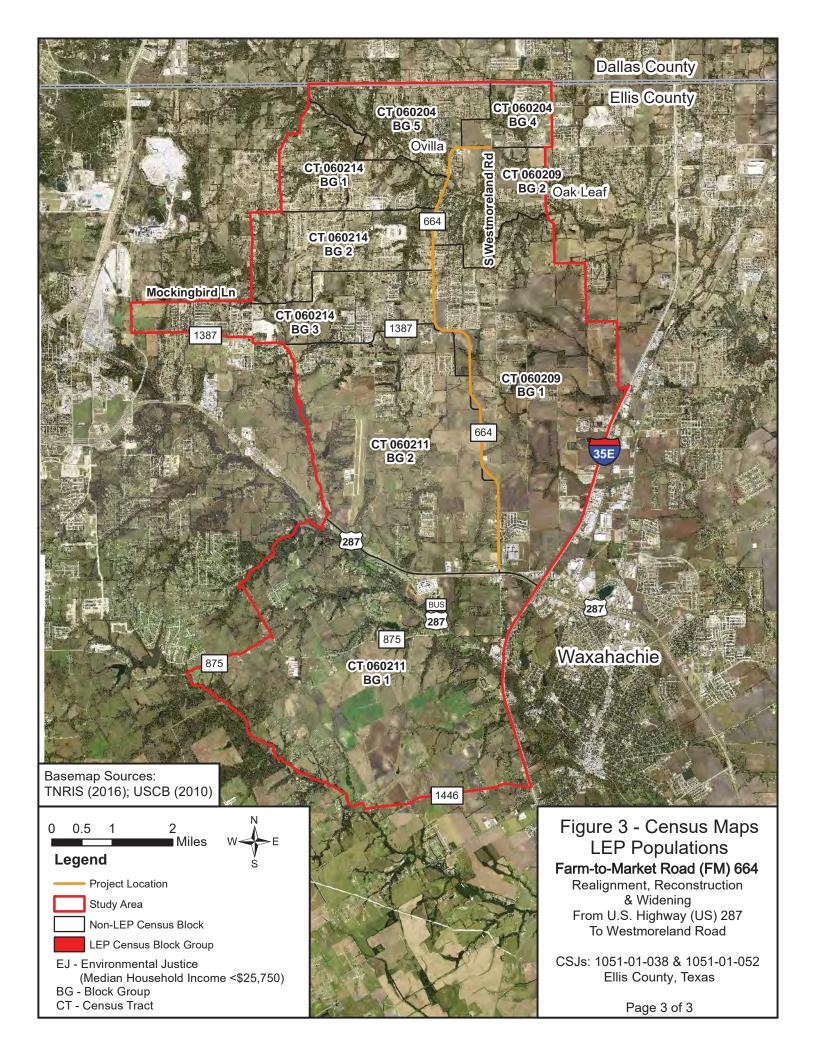
SeC2 - - Stephen-Eddy complex, 2 to 5 percent slopes

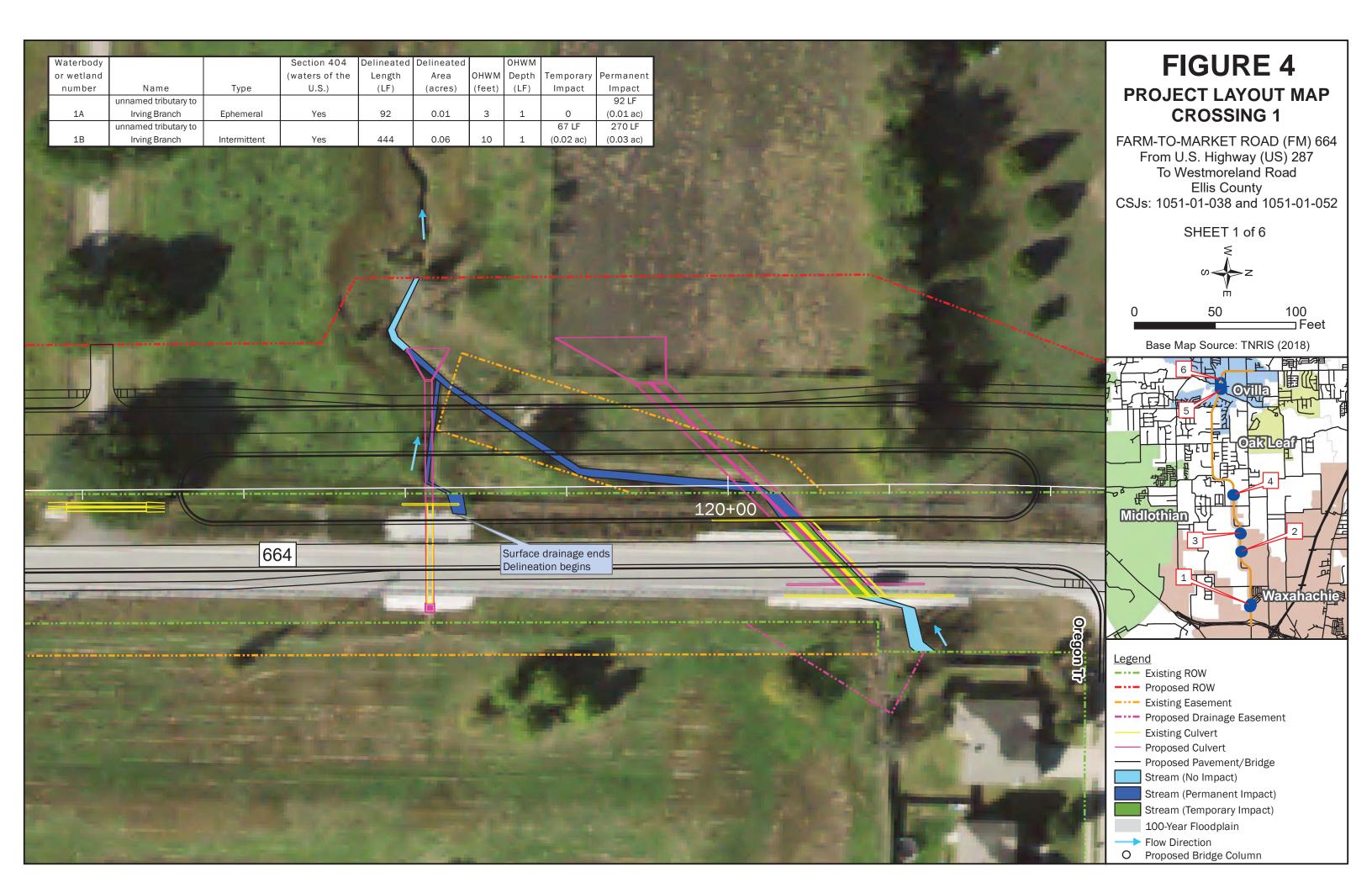
StB - Stephen silty clay, 1 to 4 percent slopes

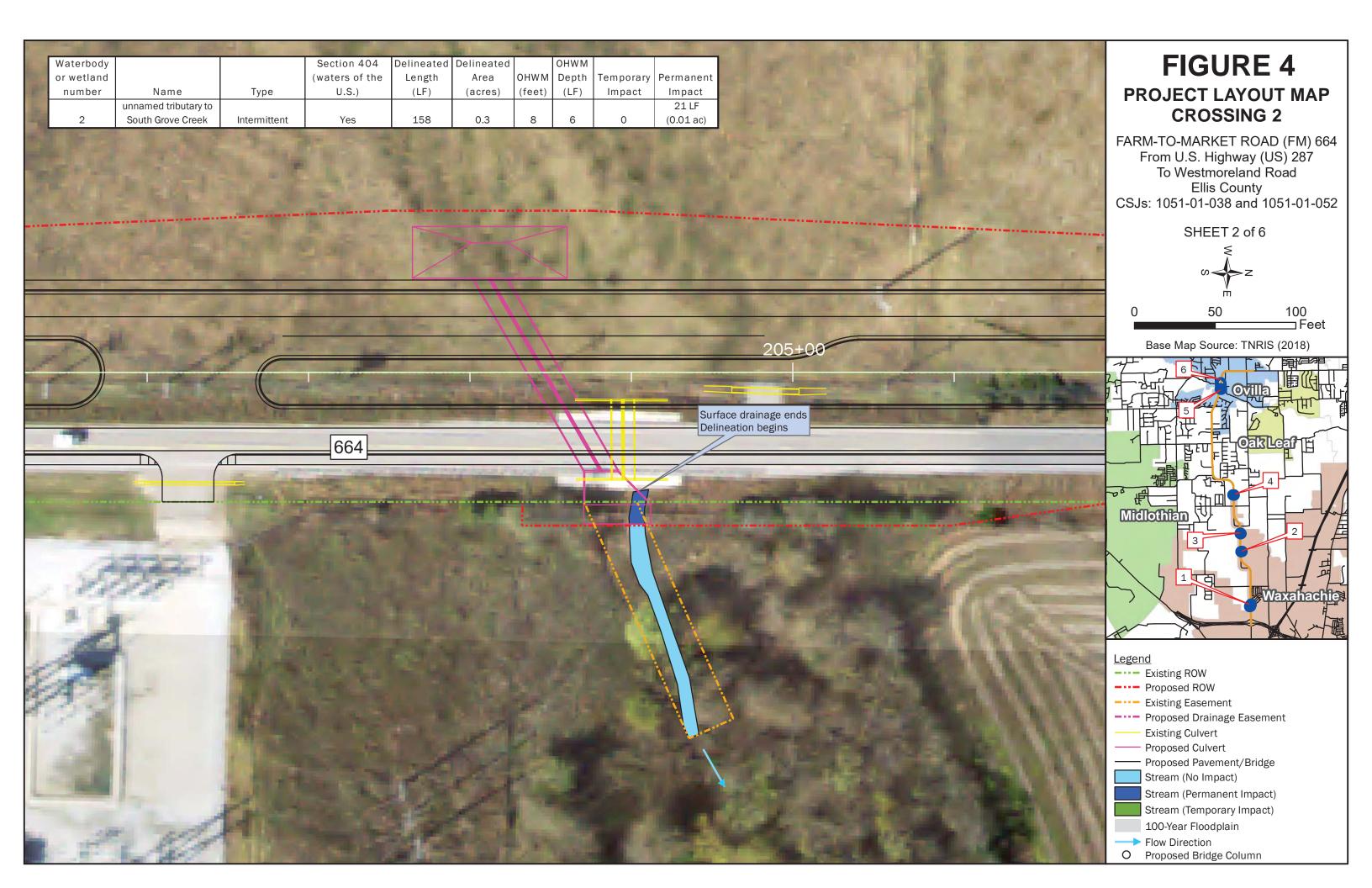
W - Water

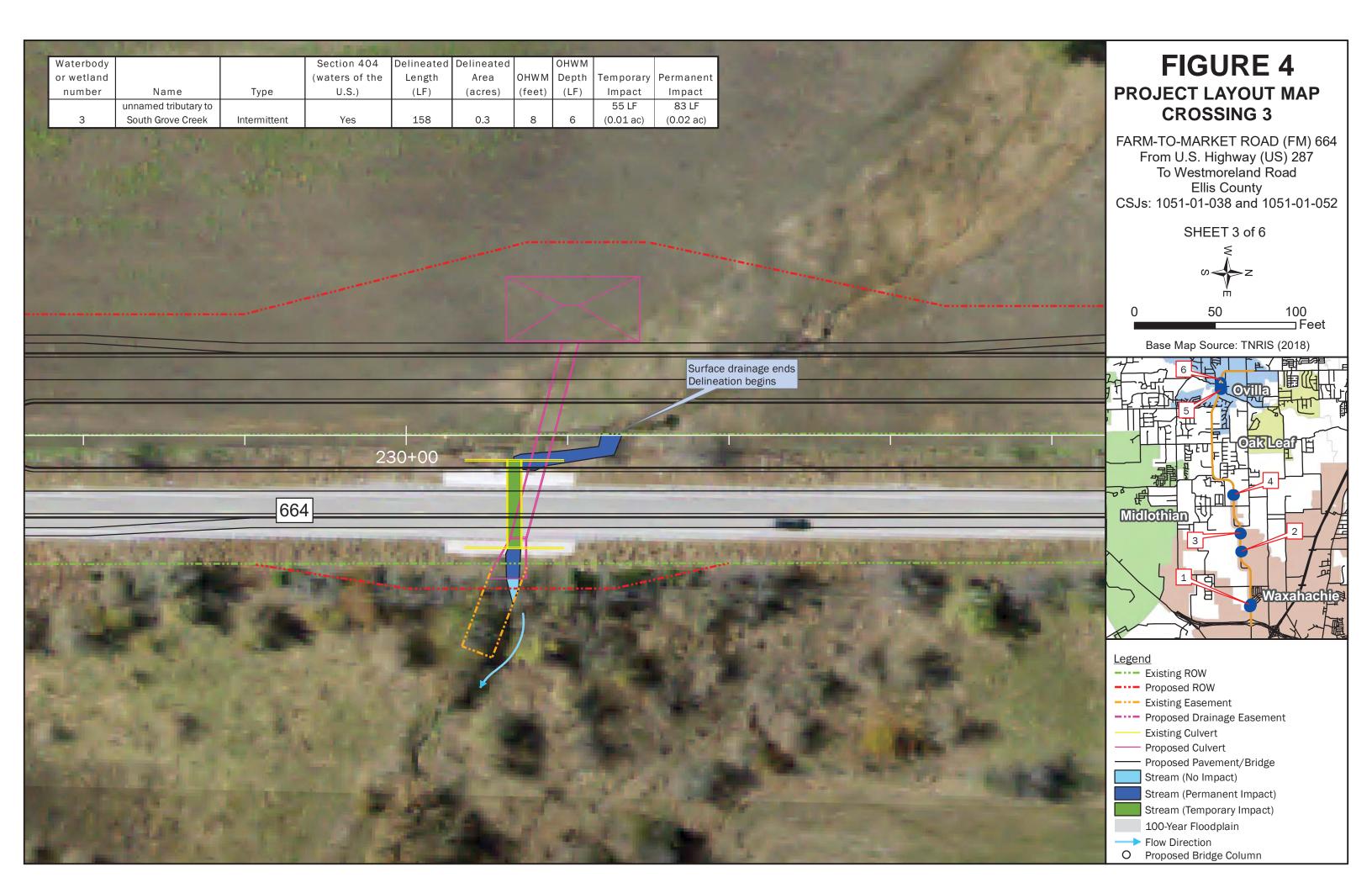


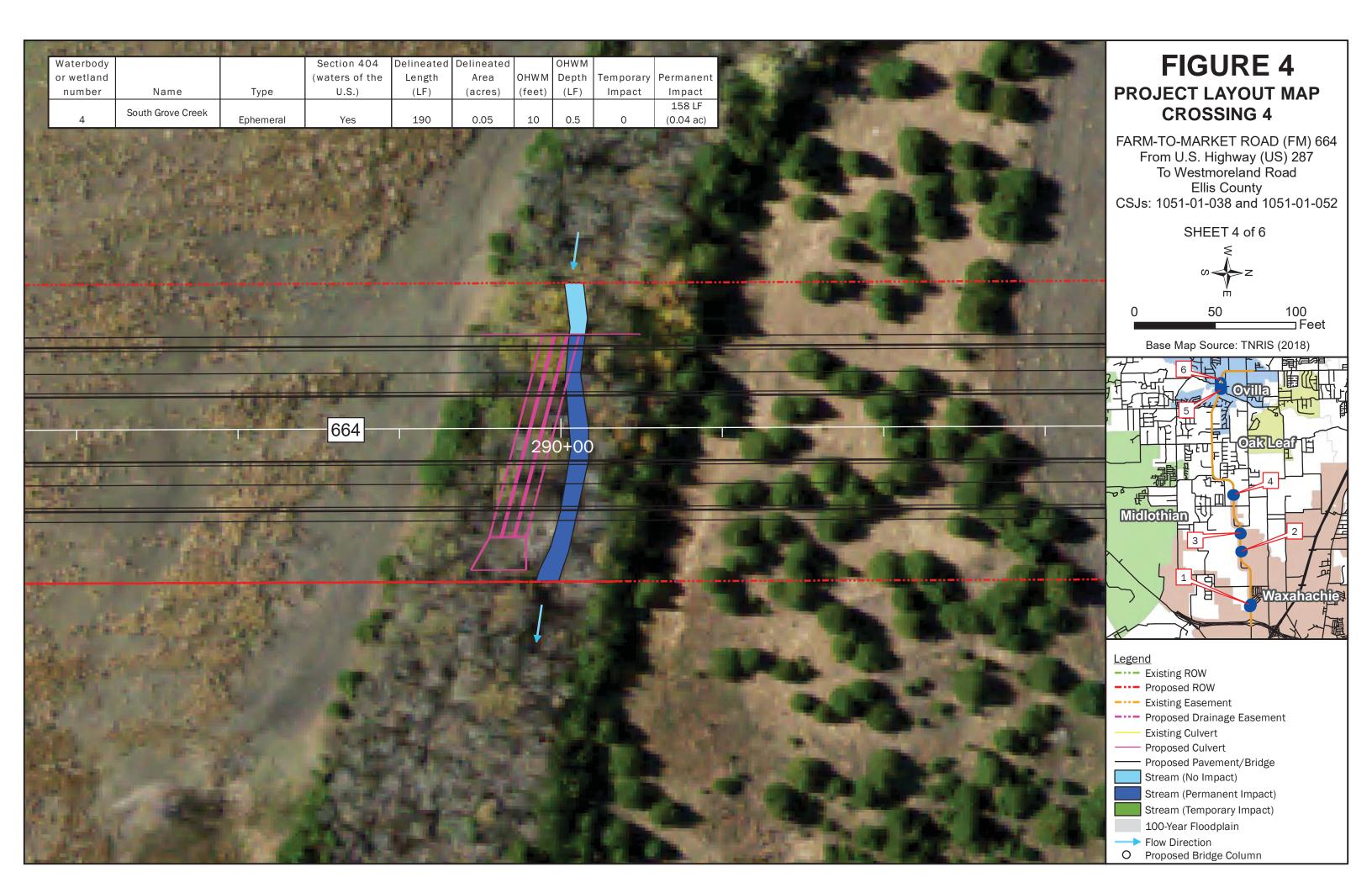


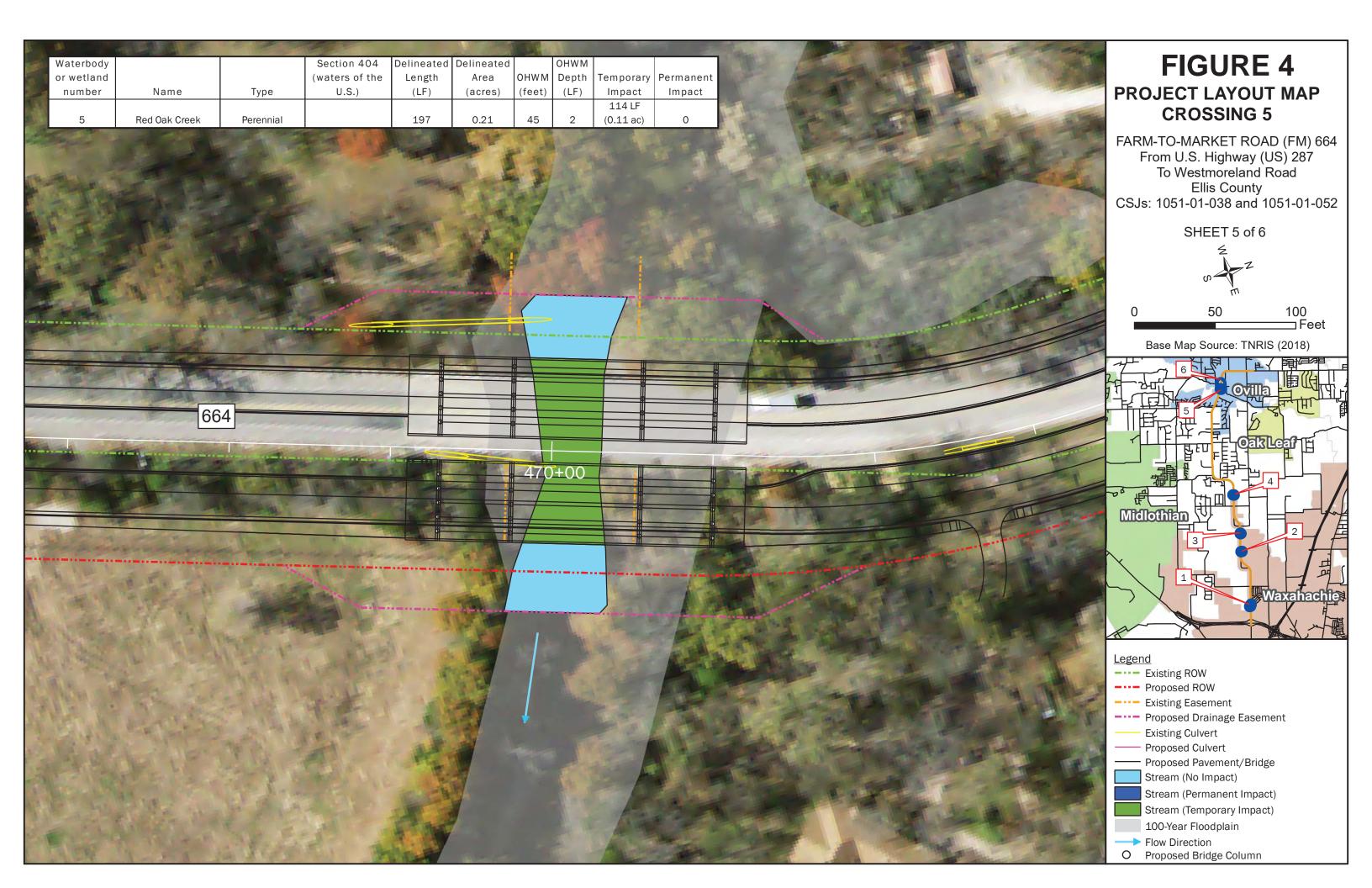


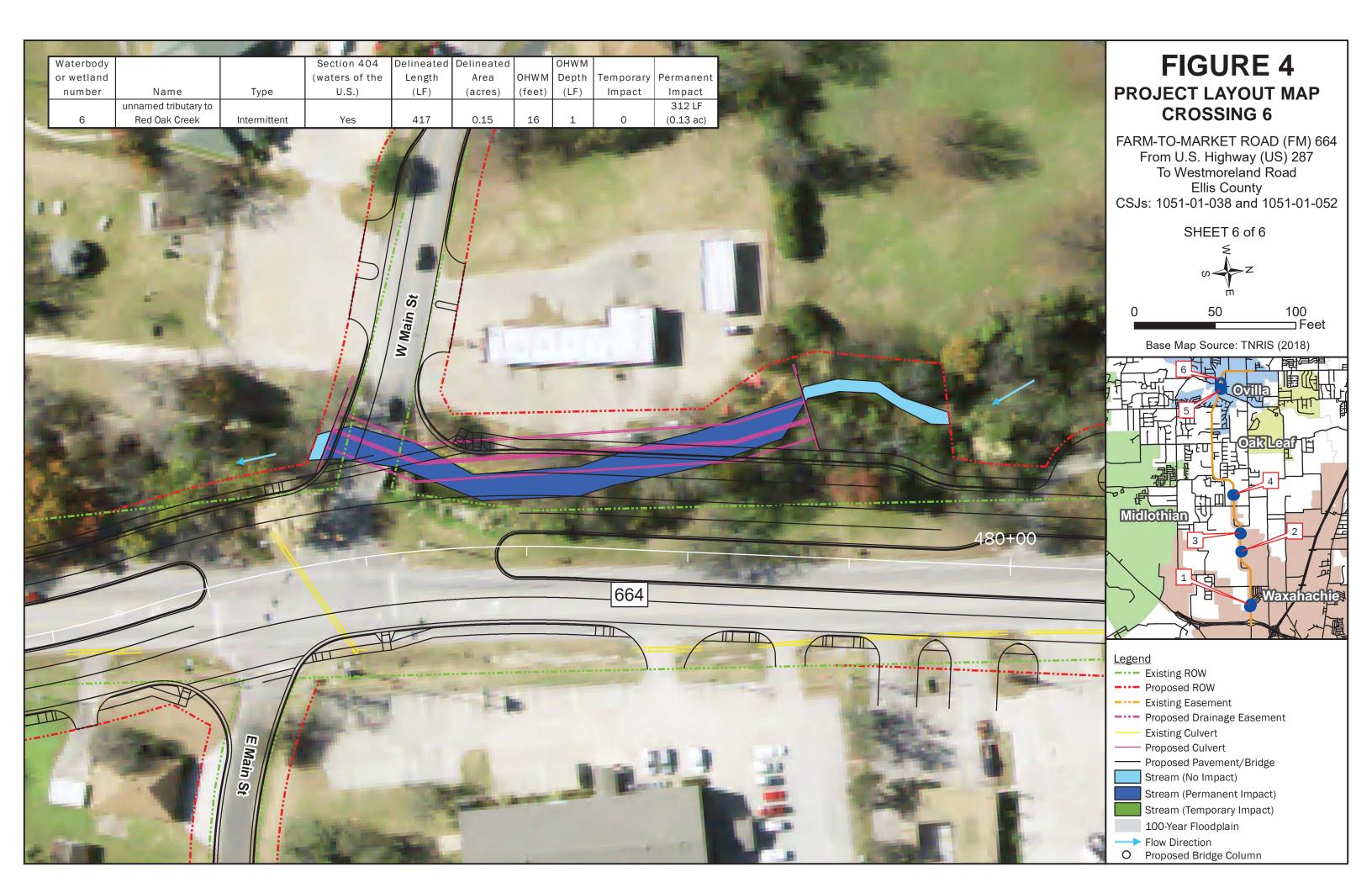












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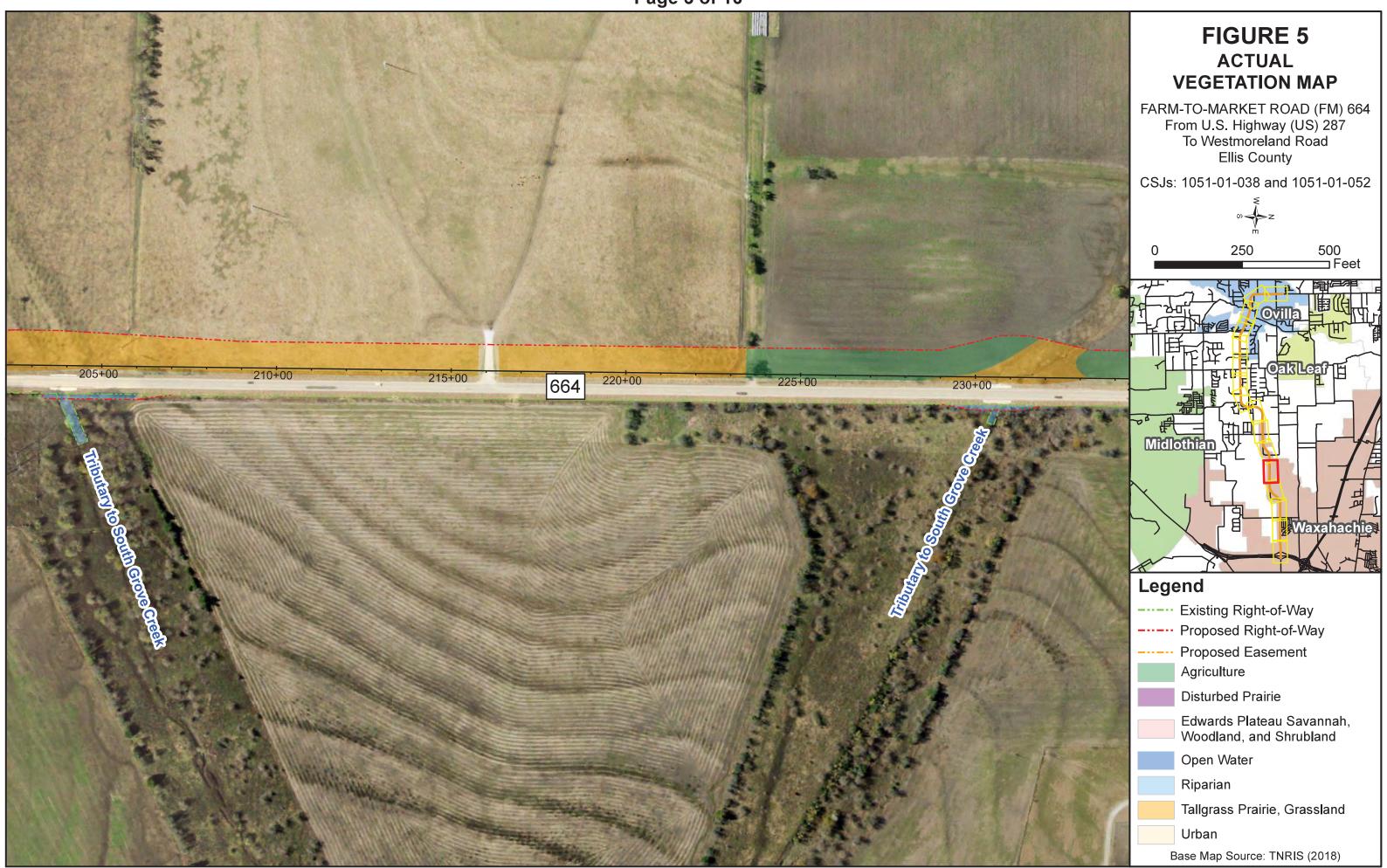
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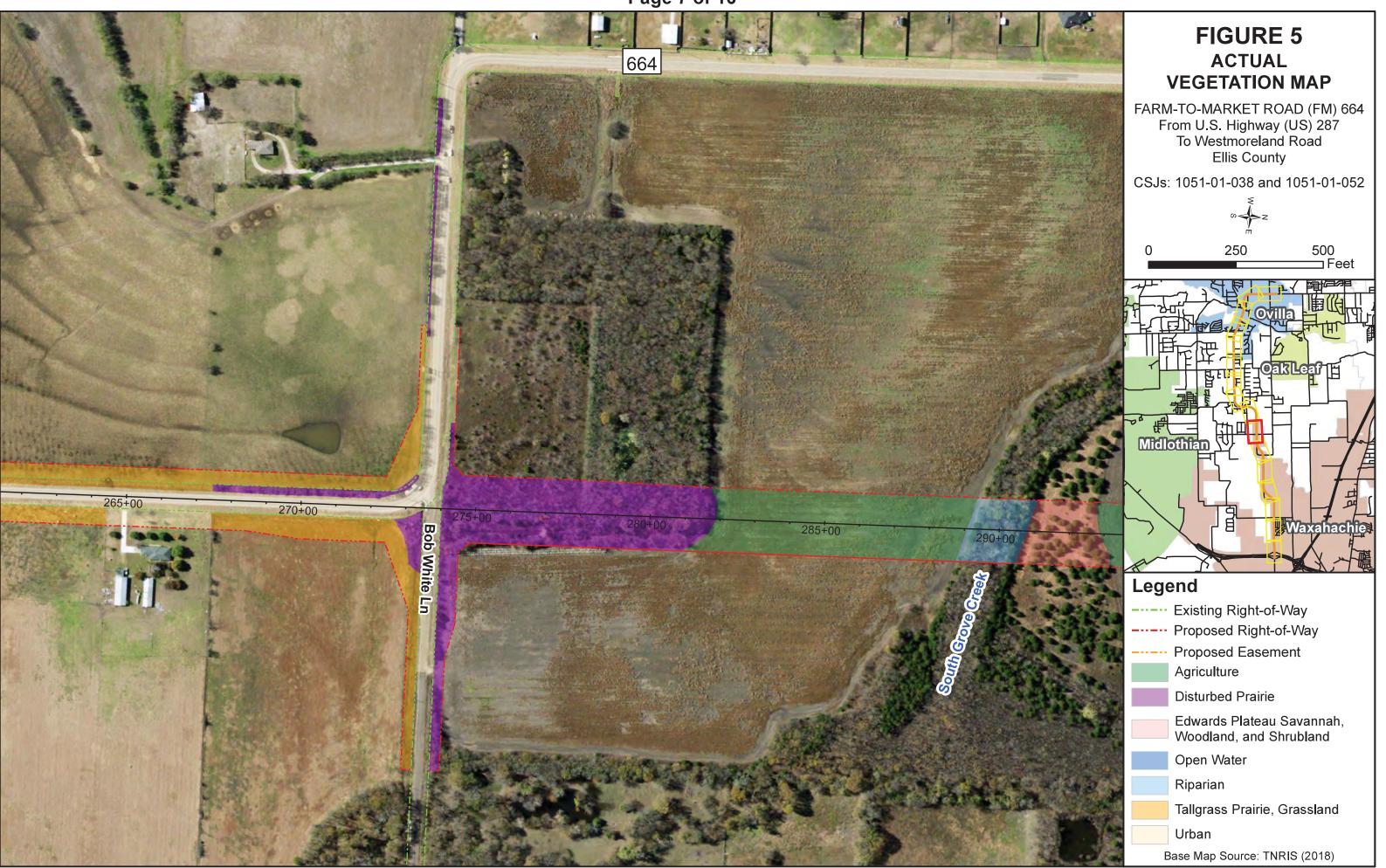
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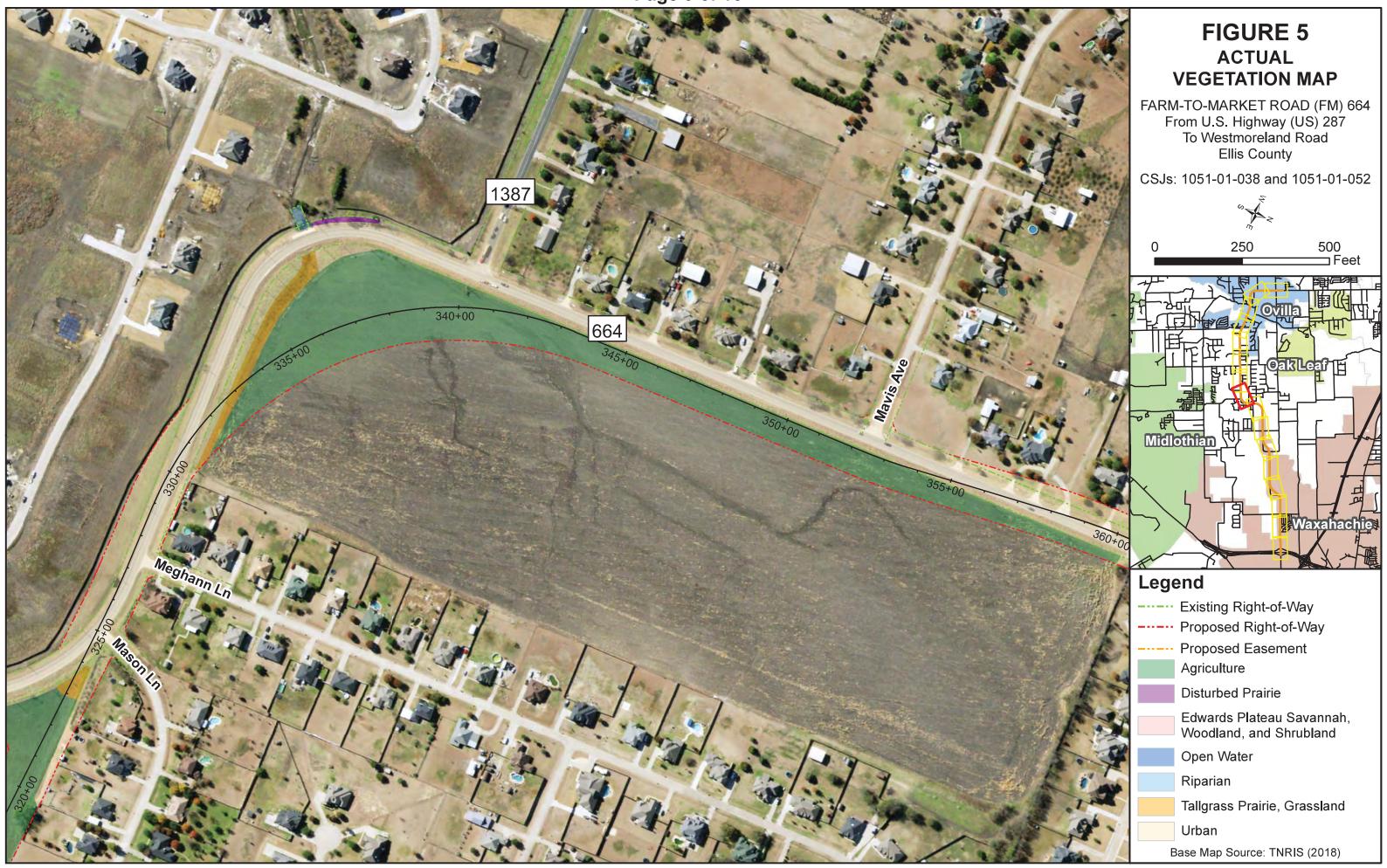
Page 7 of 16



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Page 11 of 16





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Page 14 of 16



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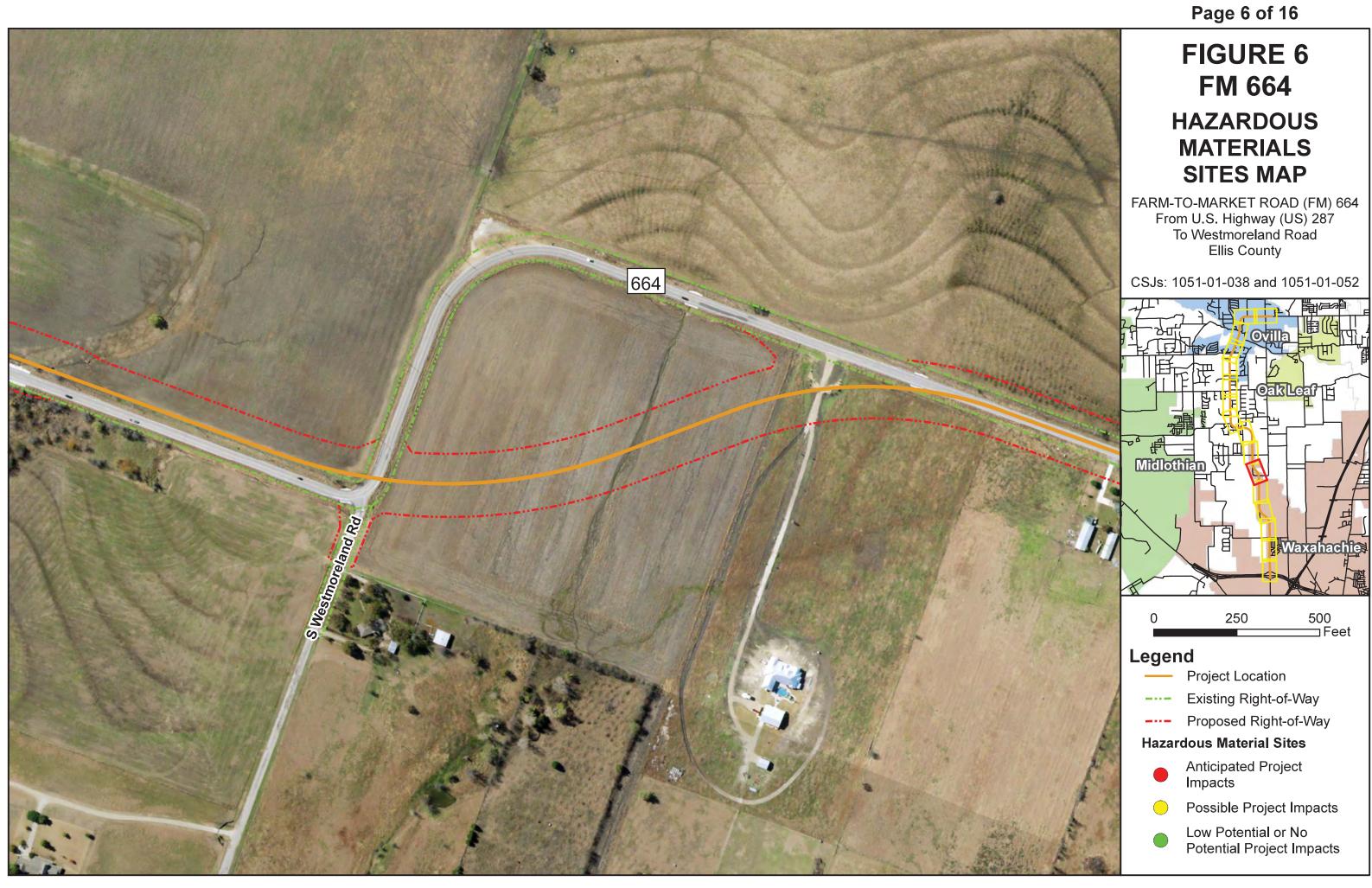






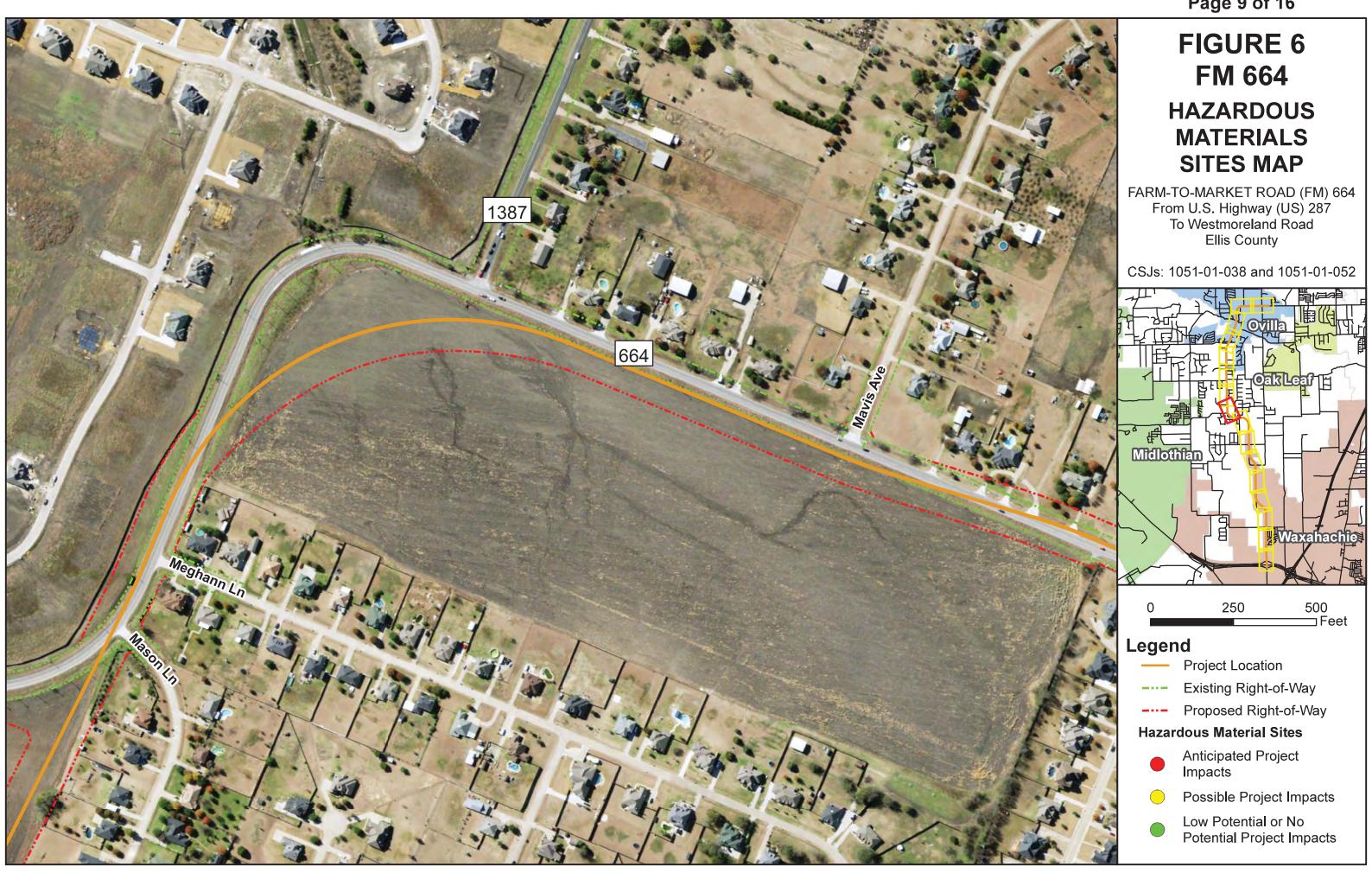














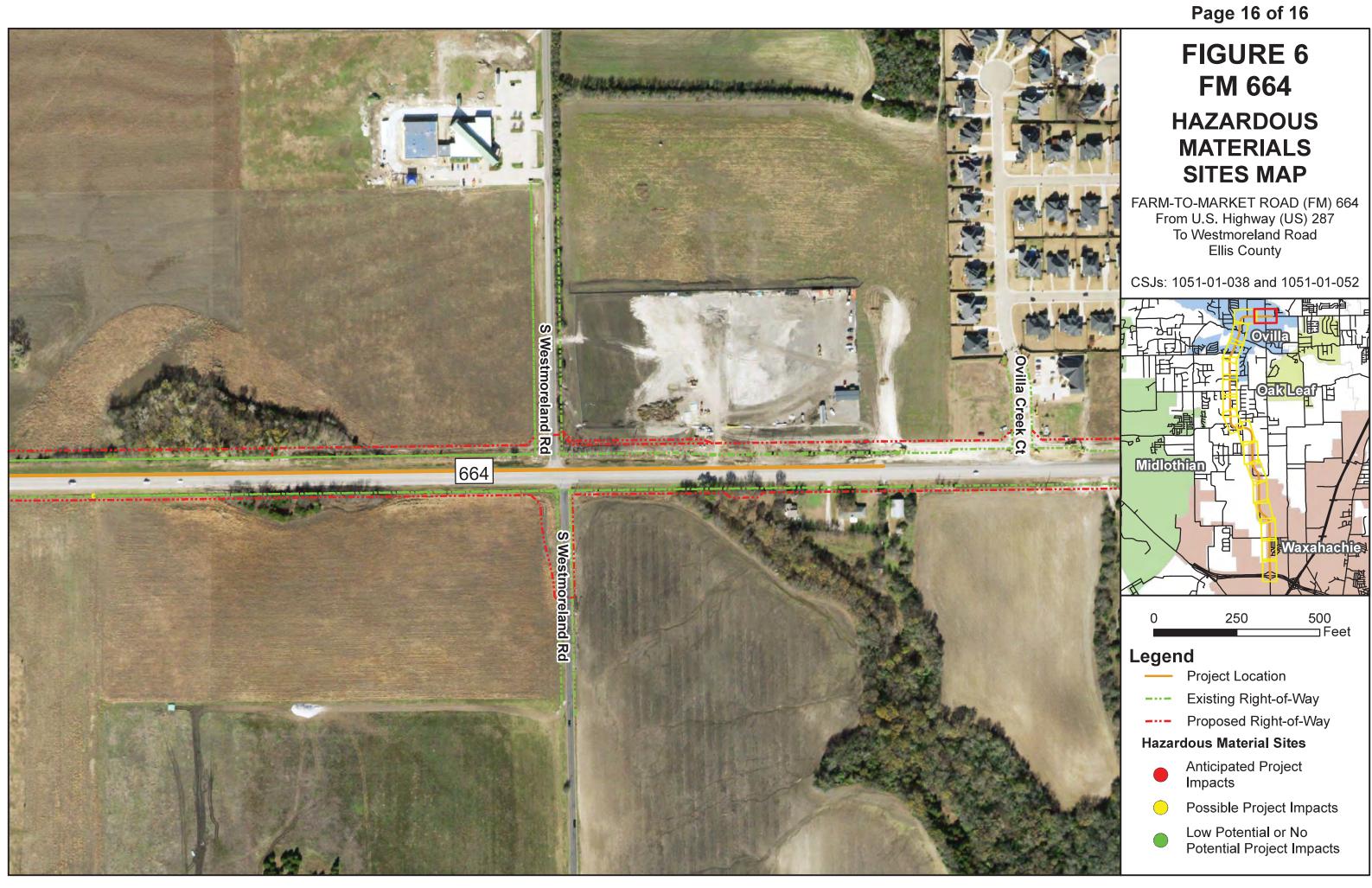


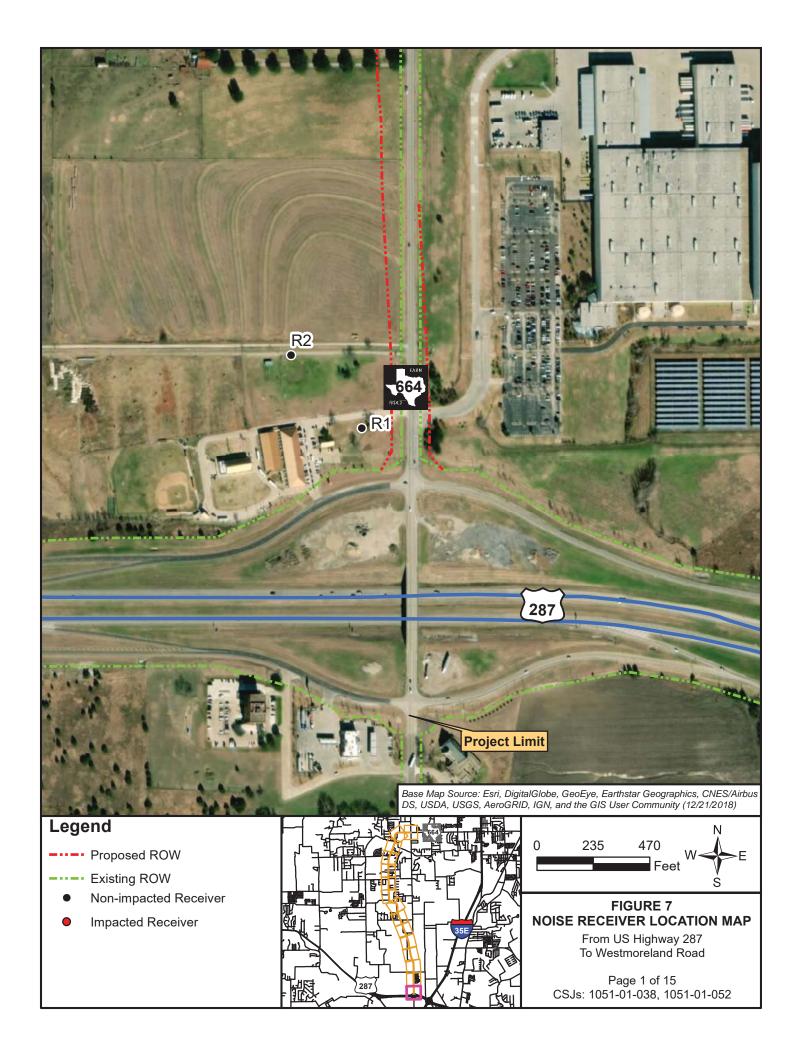


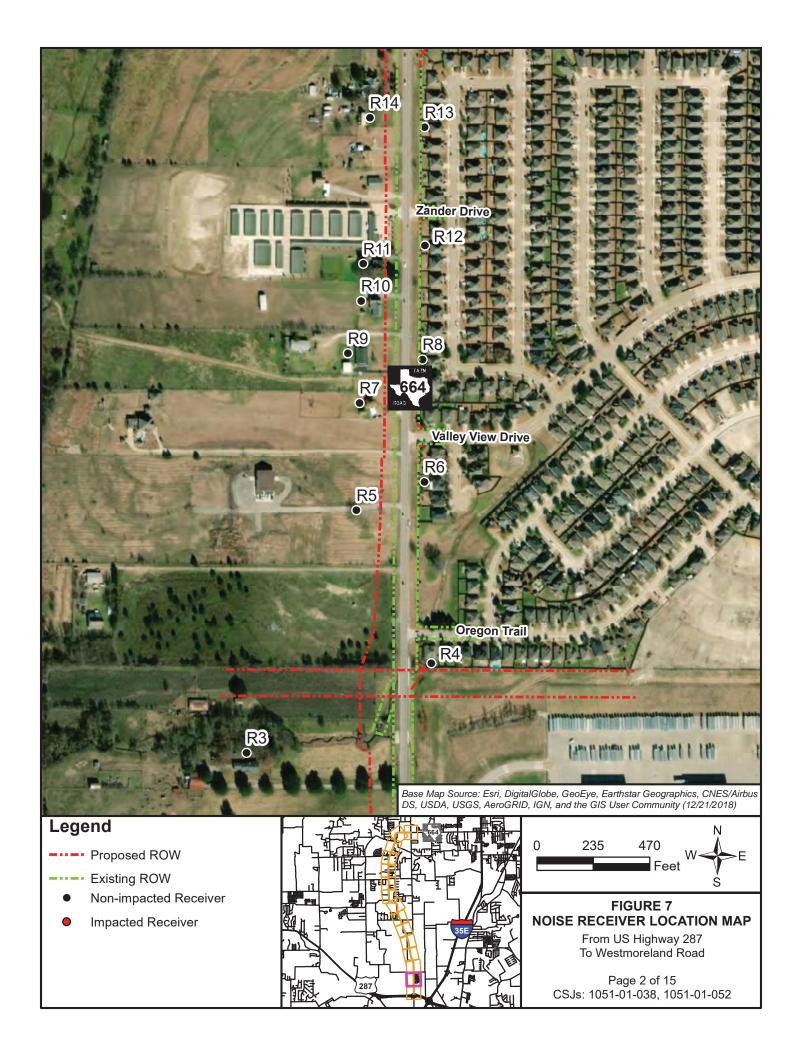


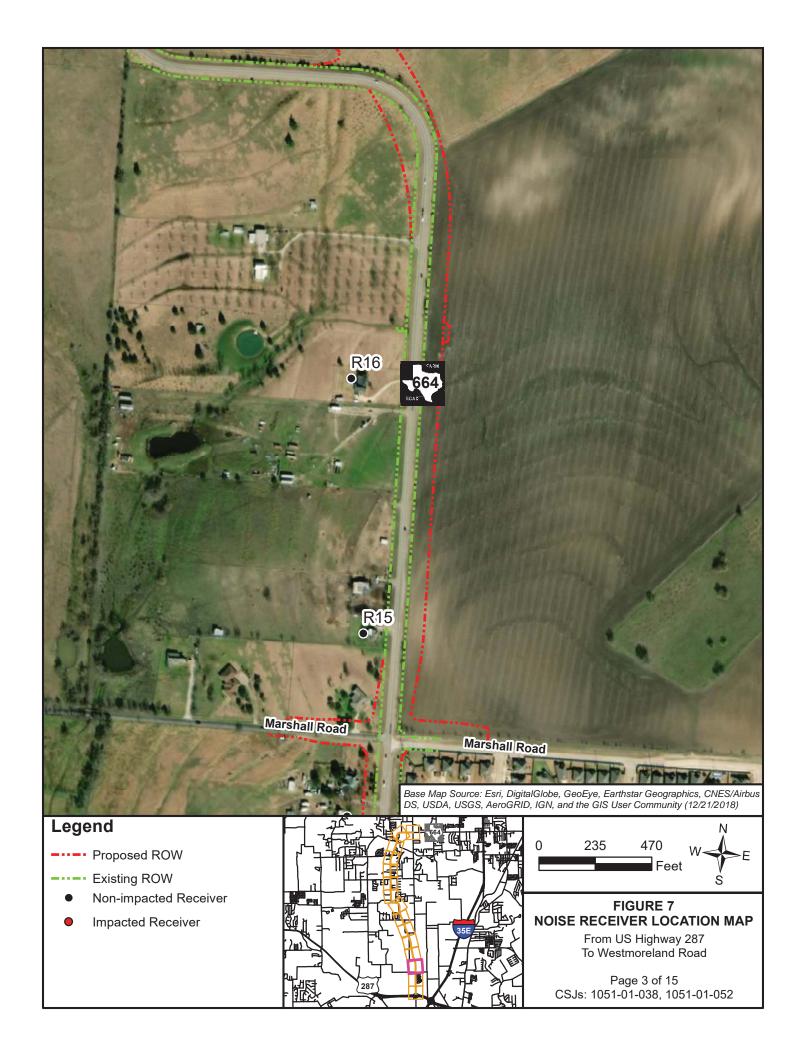


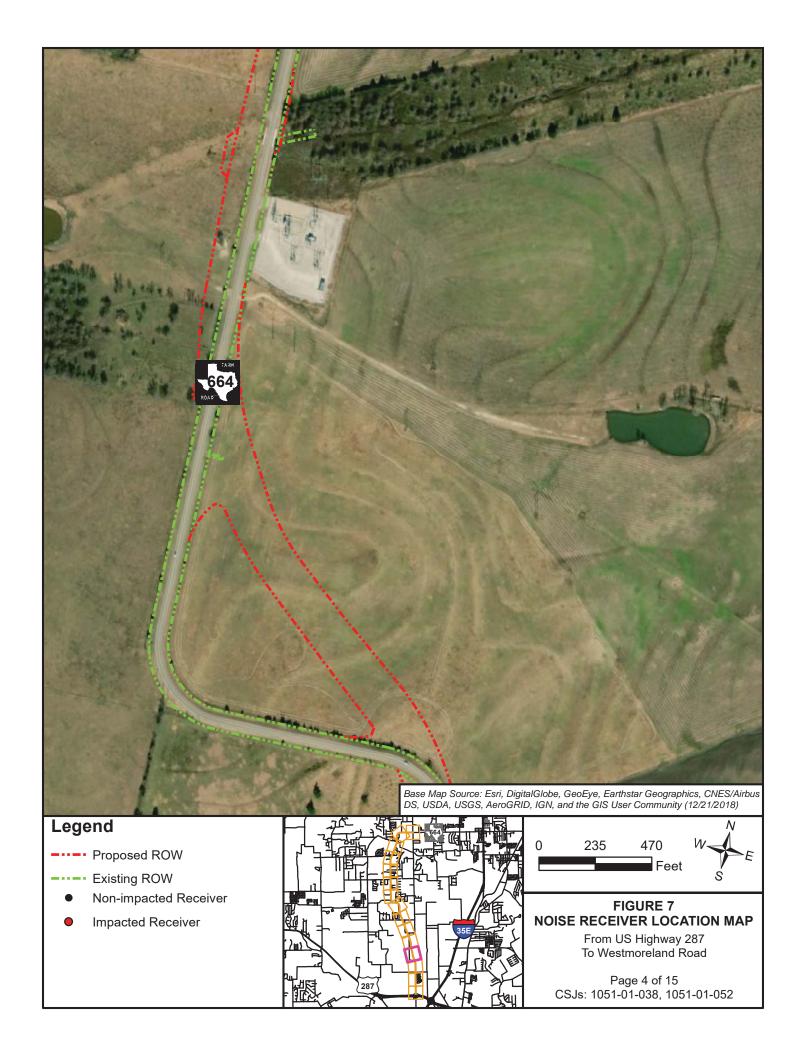


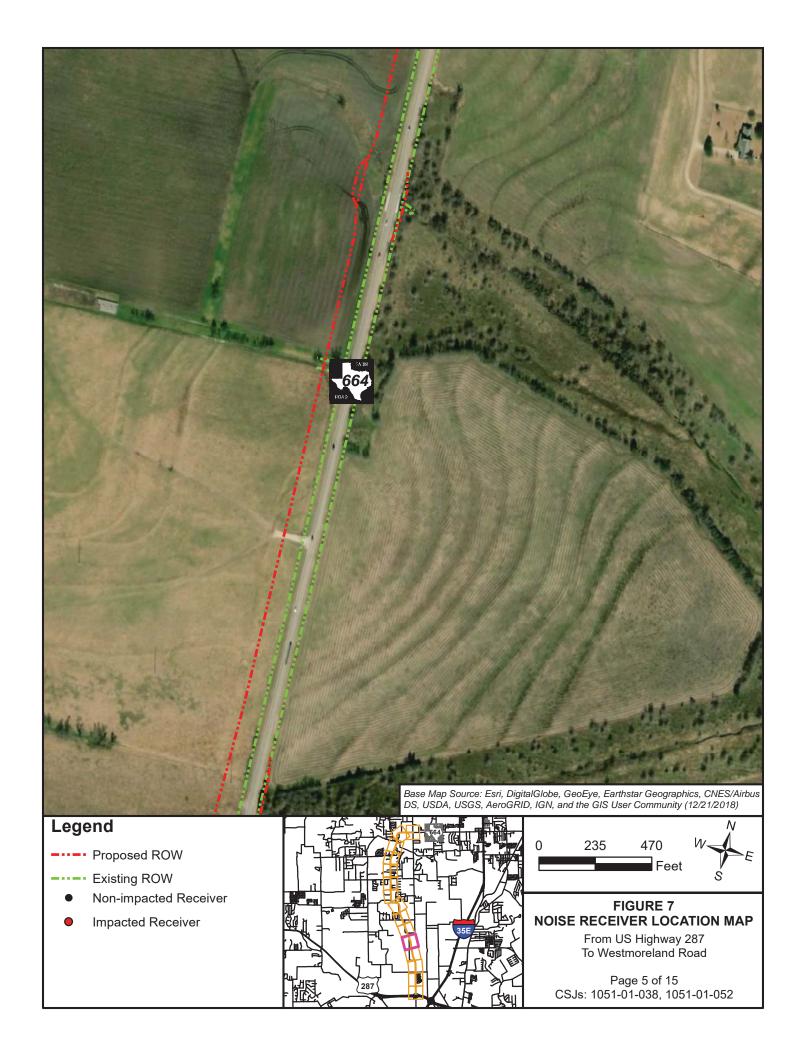


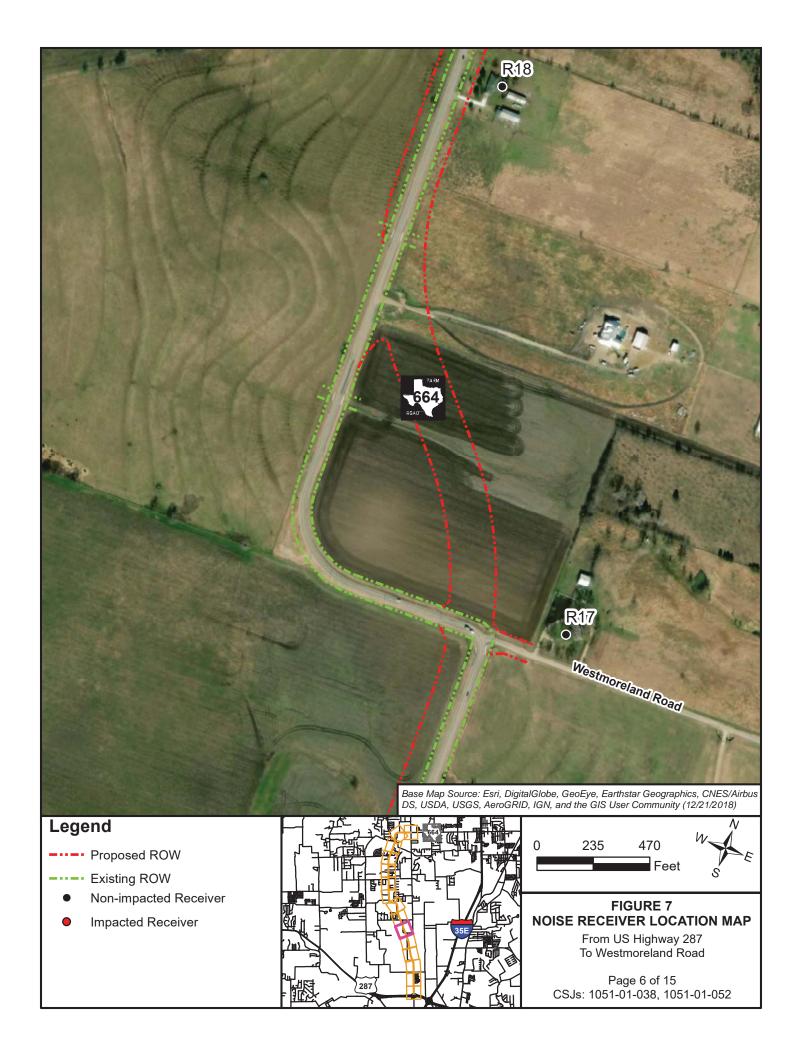


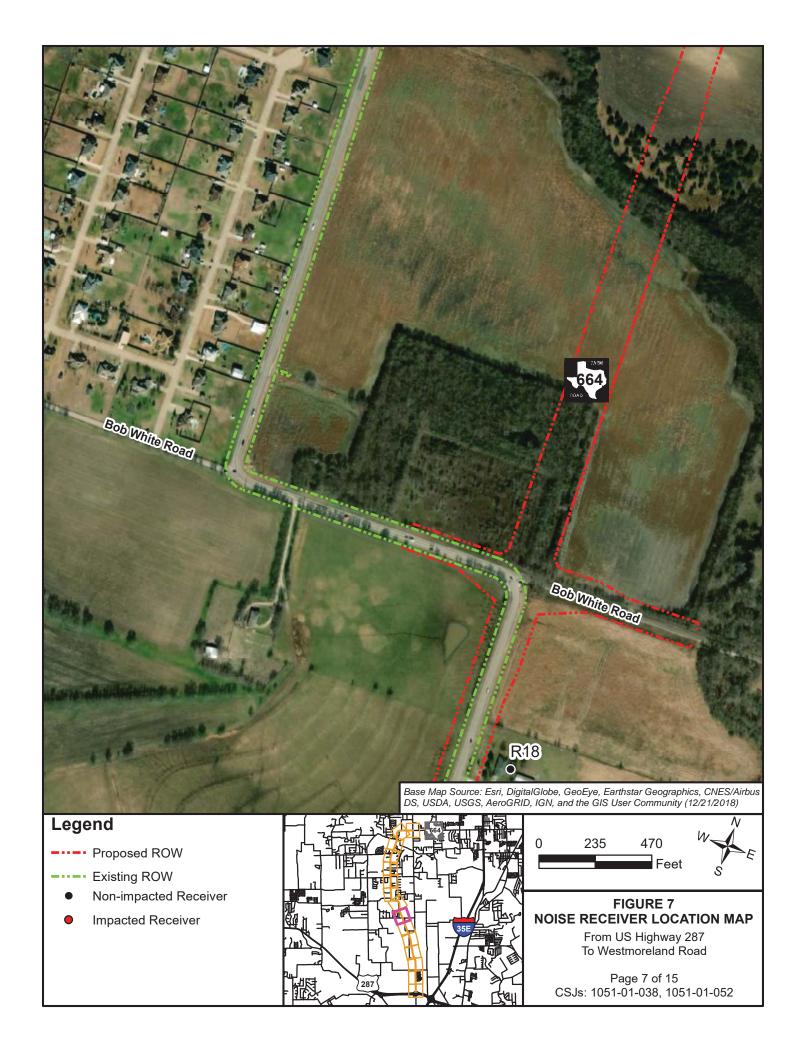


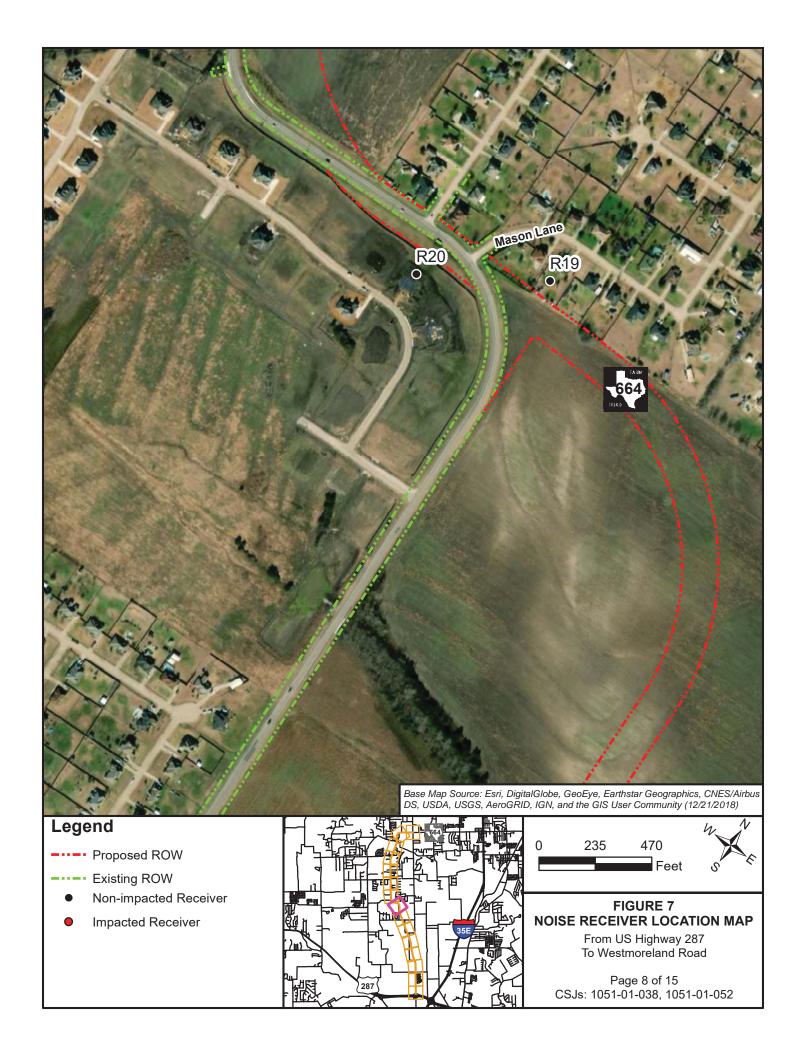


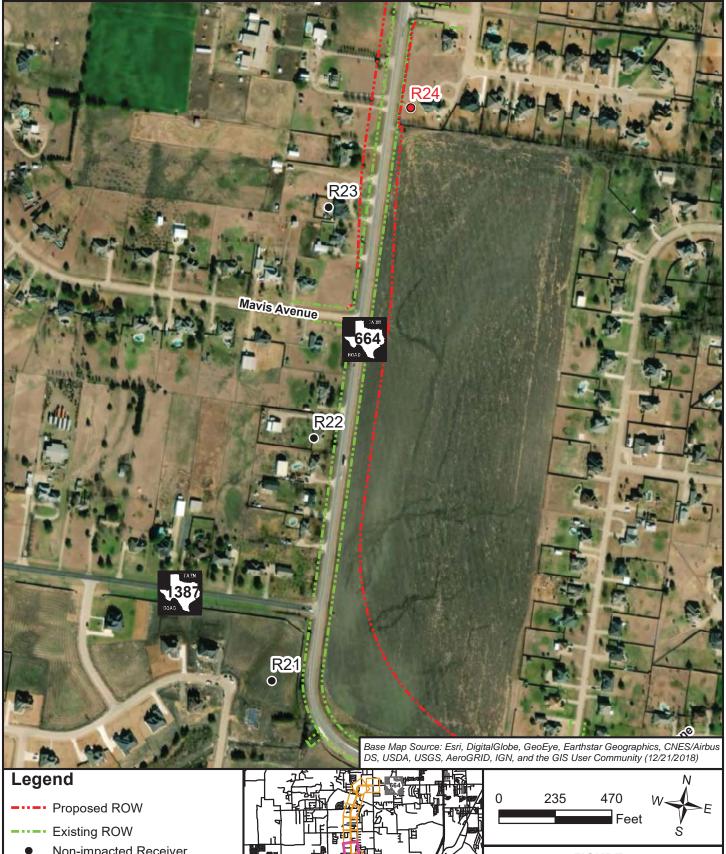












- Non-impacted Receiver
- Impacted Receiver

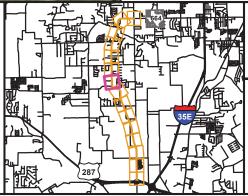
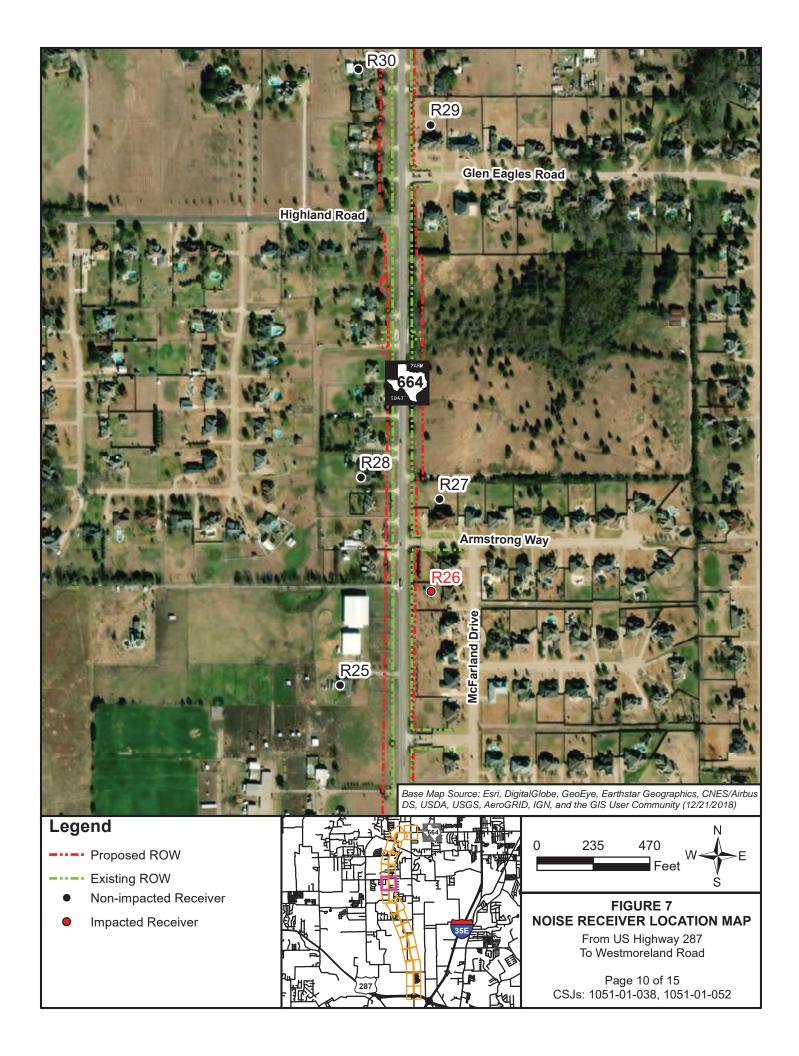
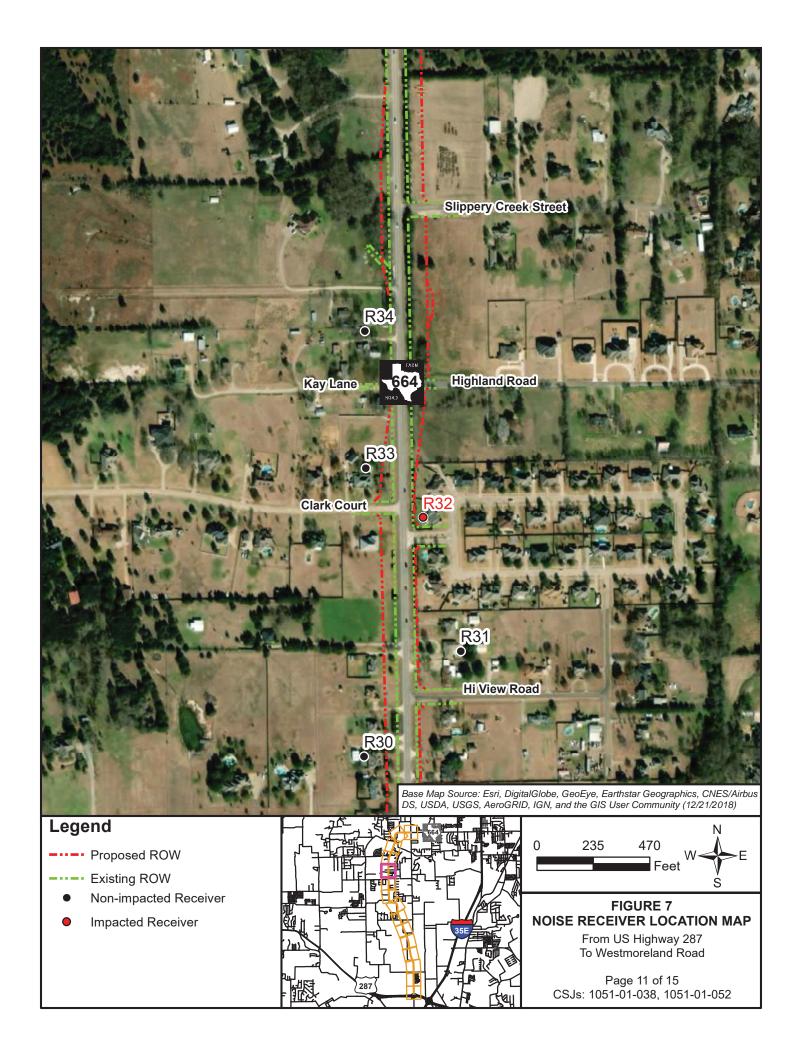


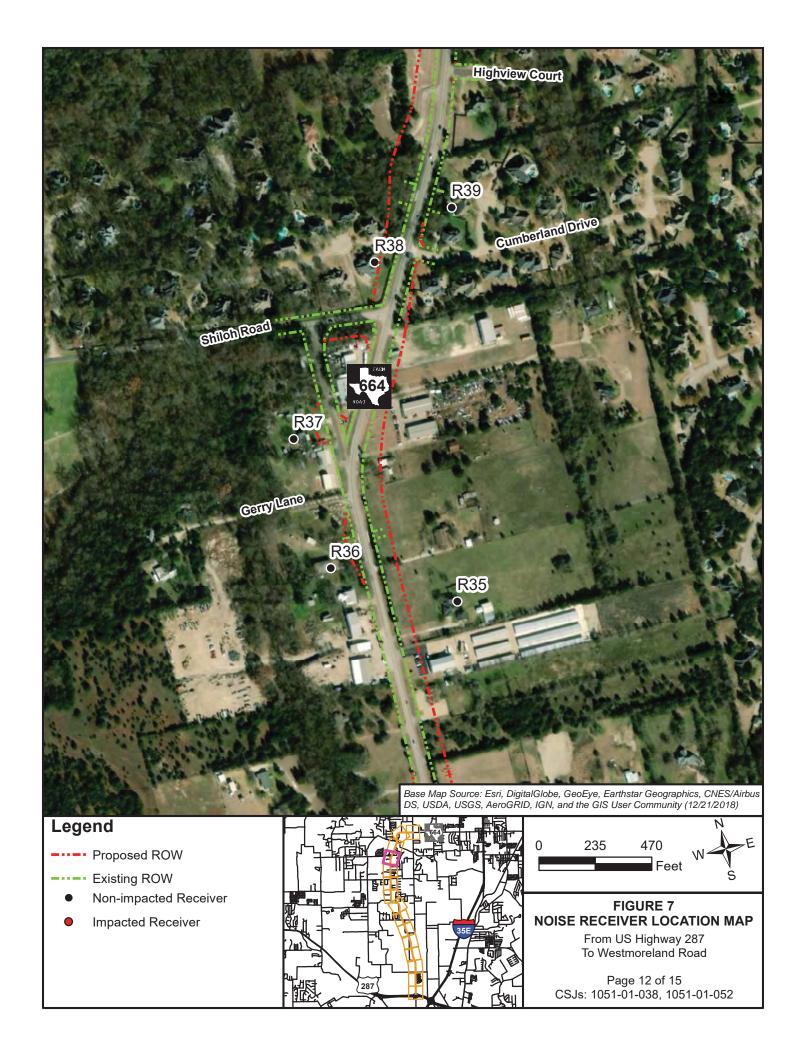
FIGURE 7 **NOISE RECEIVER LOCATION MAP**

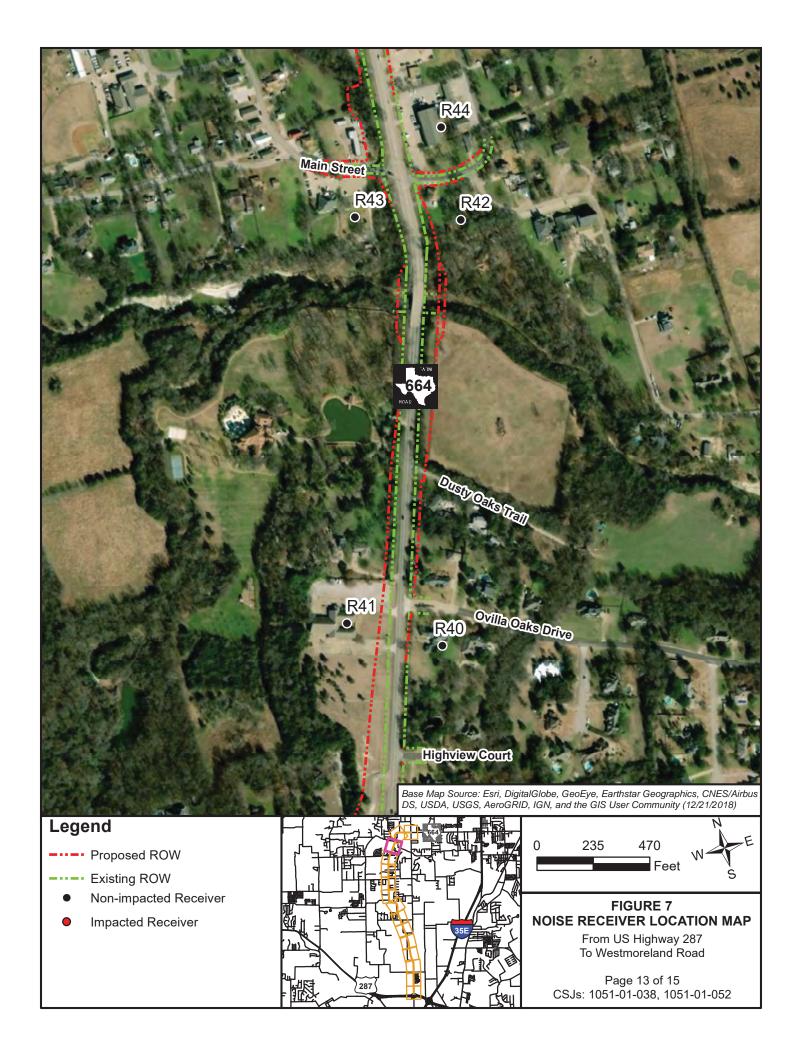
From US Highway 287 To Westmoreland Road

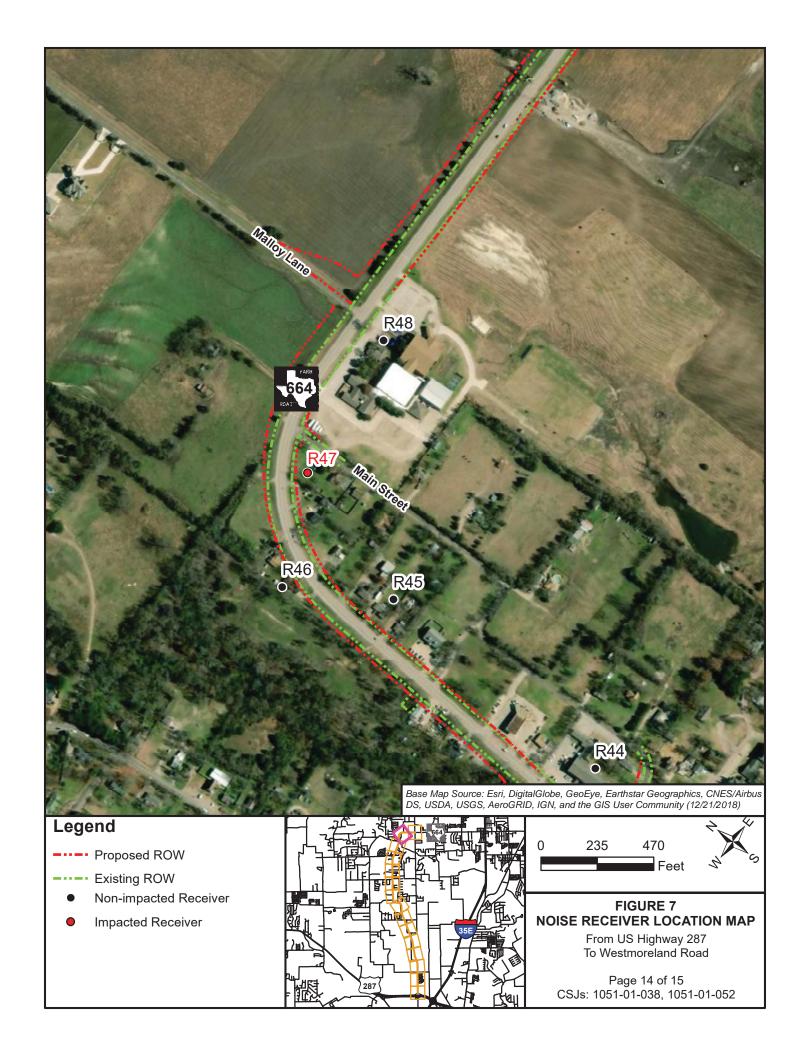
Page 9 of 15 CSJs: 1051-01-038, 1051-01-052

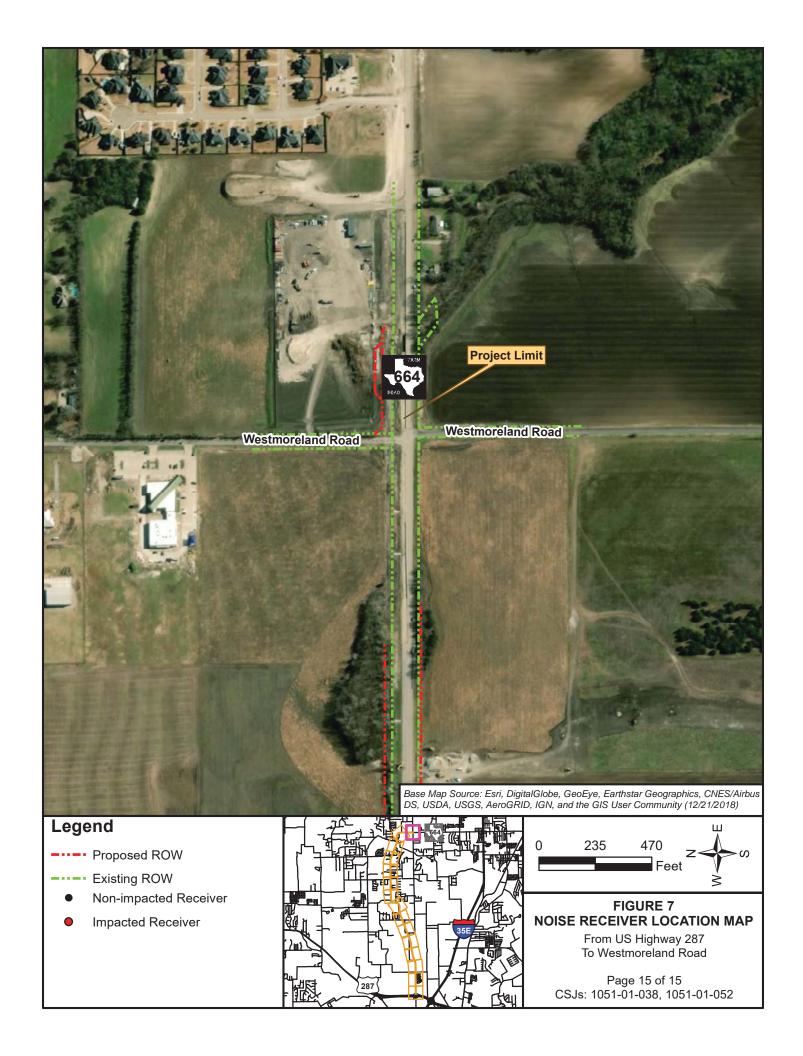


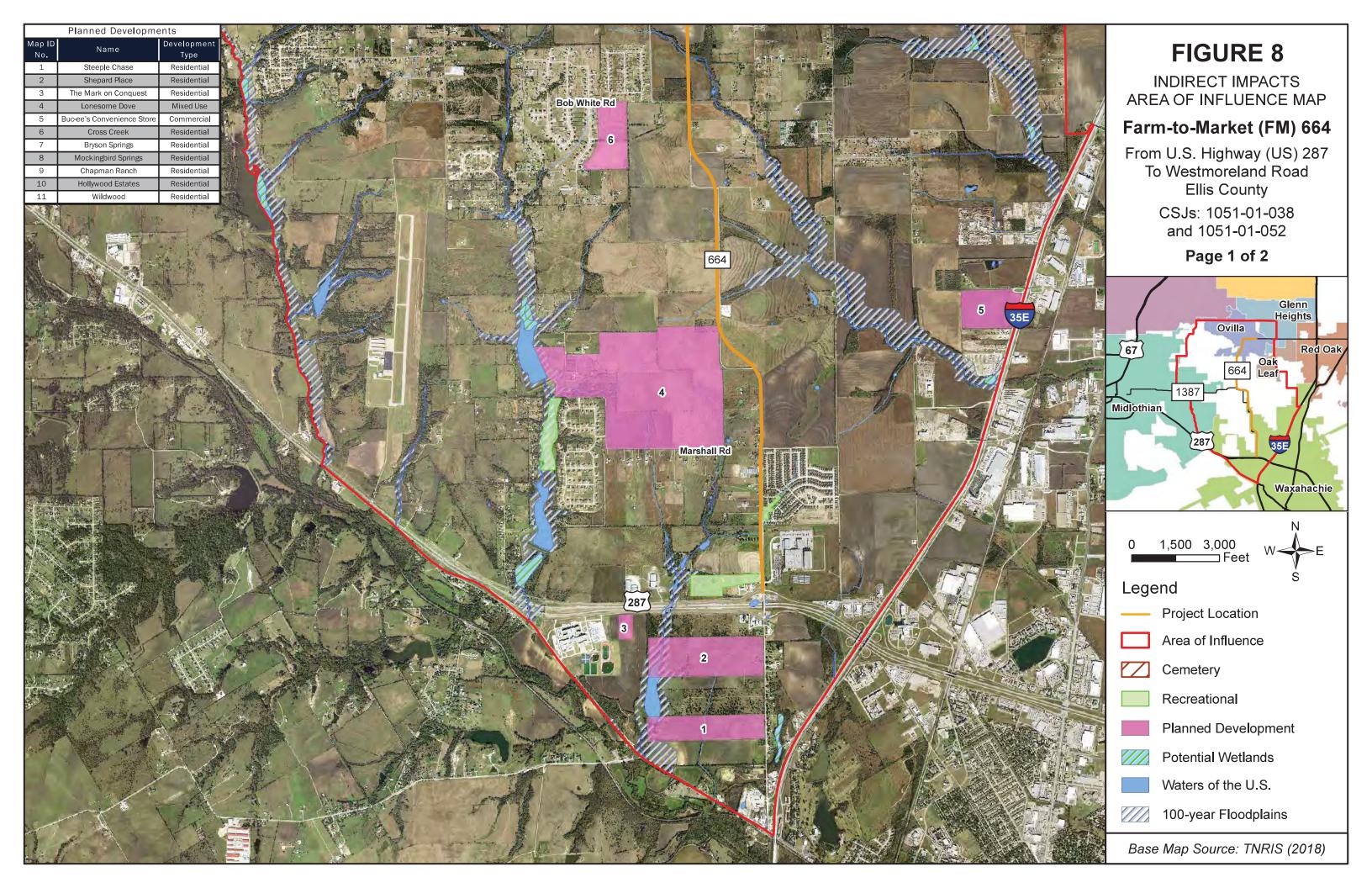


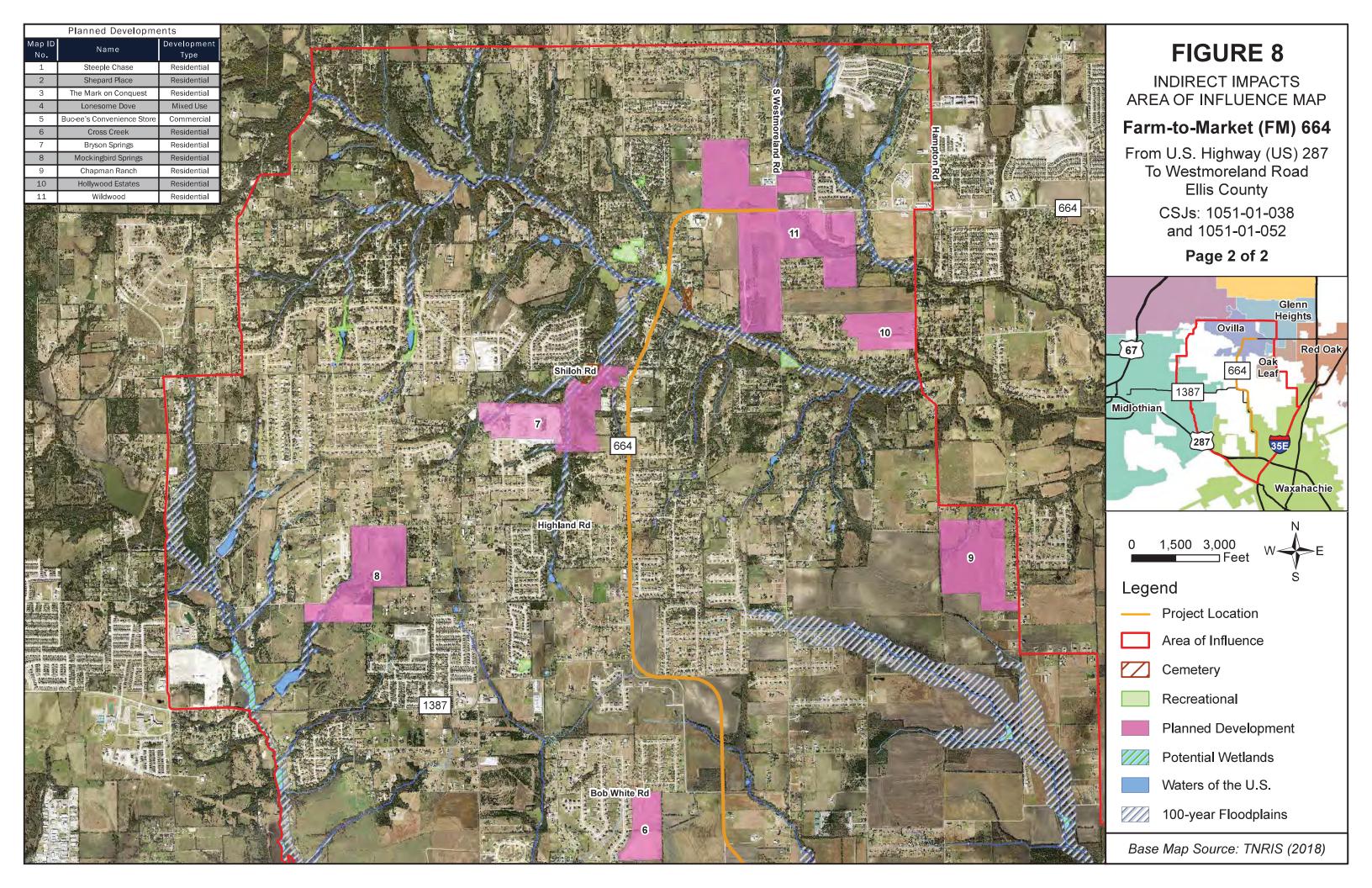


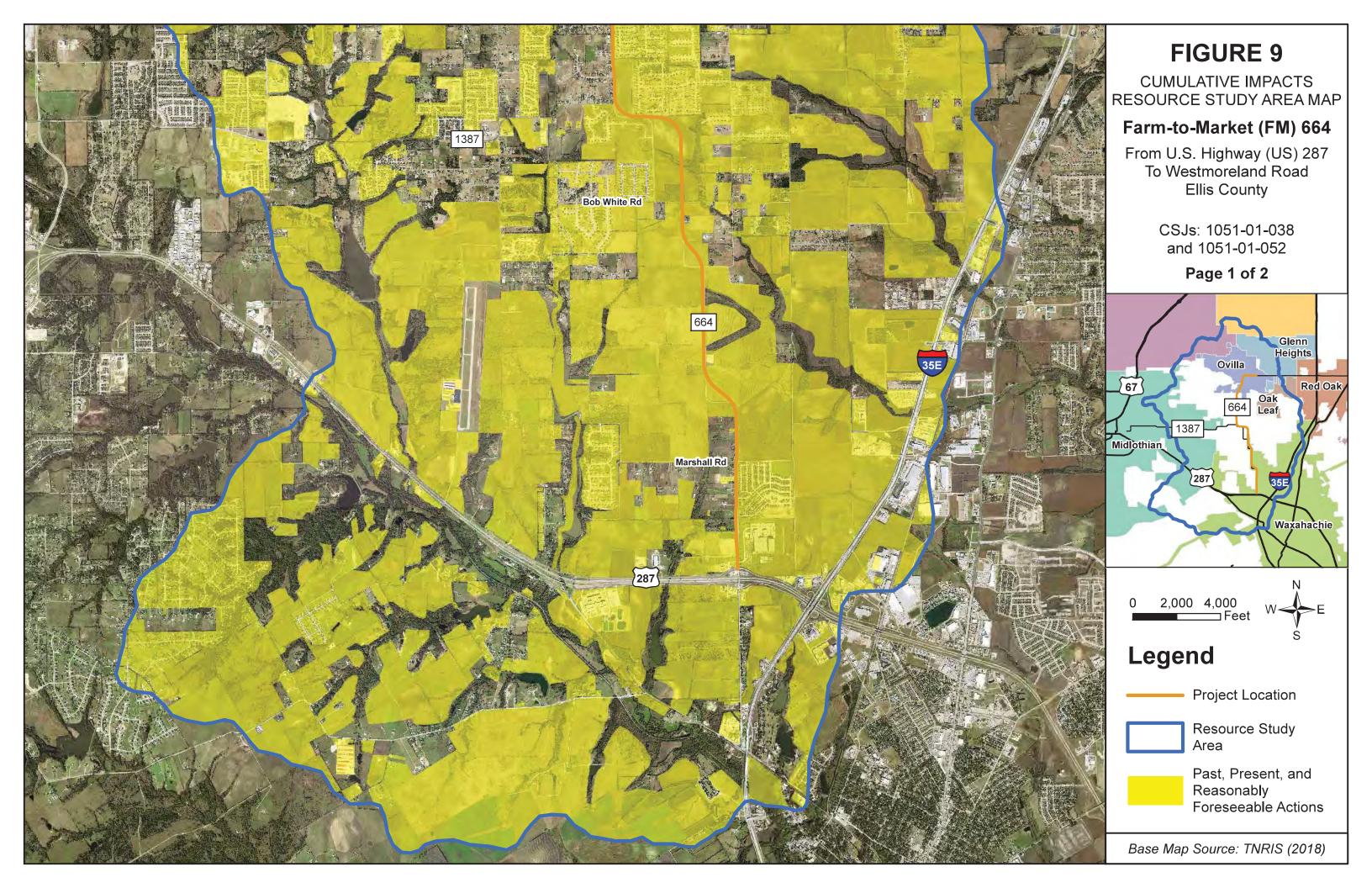


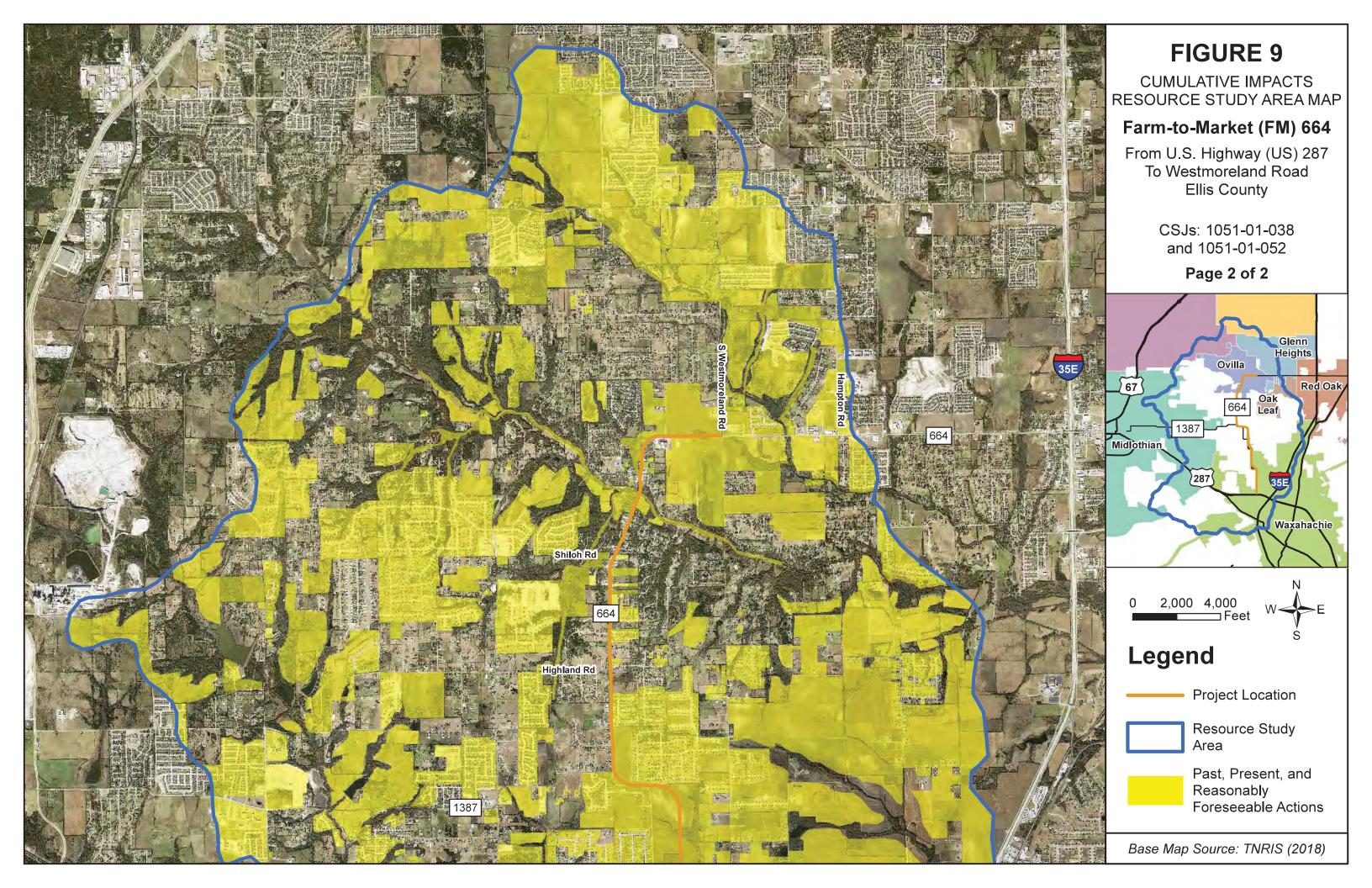












Appendix G – Resource Agency Coordination

Leslie Mirise

From: Suzanne Walsh <Suzanne.Walsh@tpwd.texas.gov>

Sent: Thursday, May 21, 2020 4:53 PM

To: Leslie Mirise

Cc: Mohammed Shaikh; Dan Perge; Christine Polito

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early

Coordination

This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Leslie,

Thank you for submitting the following project for early coordination: FM 664 from US 287 to FM 1387 (CSJ: 1051-01-038). TPWD appreciates TxDOT's commitment to implement the practices listed in the Tier I Site Assessment form submitted on April 13, 2020 and emails below. Based on a review of the documentation, the avoidance and mitigation efforts described, and provided that project plans do not change, TPWD considers coordination to be complete. However, please note it is the responsibility of the project proponent to comply with all federal, state, and local laws that protect plants, fish, and wildlife.

According to §2.204(g) of the 2013 TxDOT-TPWD MOU, TxDOT agreed to provide TXNDD reporting forms for observations of tracked SGCN (which includes federal- and state-listed species) occurrences within TxDOT project areas. Please keep this mind when completing project due diligence tasks. For TXNDD submission guidelines, please visit the following link: http://tpwd.texas.gov/huntwild/wild/wildlife diversity/txndd/submit.phtml

Sincerely,

Suzanne Walsh Transportation Conservation Coordinator (512) 389-4579

From: Leslie Mirise <Leslie.Mirise@txdot.gov> Sent: Thursday, May 21, 2020 12:33 PM

To: Suzanne Walsh <Suzanne.Walsh@tpwd.texas.gov>

Cc: Mohammed Shaikh < Mohammed. Shaikh@txdot.gov>; Dan Perge < Dan. Perge@txdot.gov>; Christine Polito

<Christine.Polito@txdot.gov>

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

ALERT: This email came from an external source. Do not open attachments or click on links in unknown or unexpected emails.

Hi Suzanne,

Yes, I've noticed the same inconsistencies – thank you! The problem started with the Draft EA being completed prior to the Bio Resources documents being approved. The inconsistencies between the Draft EA and the Approved Bio Resources documents are actively being addressed.

<u>TPWD comment #1</u>: Cave myotis bat – species was not included on Tier I form; however, the species analysis spreadsheet for SGCN 4-10-20 stated that the project had suitable habitat, and the draft EA 4-16-20 stated that there was suitable habitat and Bat BMPs from Section 1 of the 2017 BMP PA and Additional Bat BMPs from Section 2 of the 2017 BMP will be implemented for the project. Please confirm whether there is suitable habitat for the cave myotis bat and BMPs will be implemented.

<u>TxDOT Response #1</u>: The draft EA was released prior to the finalization of the Species Analysis Form and the Tier 1 Site Assessment Form. This discrepancy is an artifact of that. The Tier 1 Site Assessment Form and Species Analysis Form are correct. Suitable habitat for cave myotis bat could be present at one bridge as described in the Spp Analysis Spreadsheet; however, it was easily observed that there was no of guano, odor, staining, etc. Therefore, the bridge is presumed unoccupied and BMPs would not be implemented. It should be noted that the bridge includes open beam construction, with no observed cavities. The Approved Tier 1 Site Assessment Form and the Species Analysis Spreadsheet are correct. The EA will be edited to reflect this information.

<u>TPWD comment #2</u>: Southern crawfish frog – species was not included on the Tier I form and species analysis spreadsheet for SGCN 4-10-20 stated that there was no suitable habitat; however, the draft EA 4-16-20 indicated that there was suitable habitat and that the species-specific BMPs from Section 1 of the 2017 BMP PA would be implemented. Please confirm whether there is suitable habitat for the southern crawfish frog and BMPs will be implemented.

<u>TxDOT Response #2</u>: The draft EA was released prior to the finalization of the Species Analysis Form and the Tier 1 Site Assessment Form. This discrepancy is an artifact of that. Suitable habitat was initially considered but then refined to not present in the project area. The reason behind this is based on site observations and that the project area is not in a Post Oak Woodland. Tipton, et al. 2012 indicates the species range does not include Dallas County and that suitable habitat is most commonly seen within the Post Oak Savannah Ecoregion and includes wet woodlands, wooded valleys, prairies, river floodplains, pine forests or meadows. BMPs would not be implemented for this particular species. The EA will be edited to agree with the approved Tier 1 Site Assessment Form and Species Analysis Spreadsheet.

<u>TPWD comment #3</u>: Woodhouse's toad – Tier I form and species analysis spreadsheet for SGCN 4-10-20 stated that there was suitable habitat; however, species was not included in draft EA 4-16-20. Please confirm whether there is suitable habitat for the Woodhouse's toad and BMPs will be implemented.

<u>TxDOT response #3</u>: The draft EA was released prior to the finalization of the Species Analysis Form and the Tier 1 Site Assessment Form. This discrepancy is an artifact of that. Suitable habitat is present in the project area, and BMPs would be implemented. The EA will be edited to reflect this information.

<u>TPWD comment #4</u>: Mink - Tier I form and species analysis spreadsheet for SGCN 4-10-20 stated that there was suitable habitat; however, species was not included in draft EA 4-16-20. Please confirm whether there is suitable habitat for mink and proposed BMP will be implemented for contractors to be advised of potential occurrence in the project area, and to avoid harming the species if encountered.

<u>TxDOT response #4</u>: The draft EA was released prior to the finalization of the Species Analysis Form and the Tier 1 Site Assessment Form. This discrepancy is an artifact of that. Yes, suitable habitat is present in the project area. BMPs would be implemented and include the following, as they are grouped with other mammals: Swamp rabbit, woodland vole, long-tailed weasel, and mink – Contractors will be advised of potential occurrence in the project area, and to avoid harming the species if encountered. The EA will be edited to include this information.

Please let me know if you have any questions or require additional information.

Thanks,

Leslie Mirise

Environmental Specialist
Dallas District – DAL-ENV
Texas Department of Transportation
4777 East Highway 80
Mesquite, Texas 75150
(214) 320-6162 office
(214) 320-4470 FAX

From: Suzanne Walsh [mailto:Suzanne.Walsh@tpwd.texas.gov]

Sent: Wednesday, May 13, 2020 5:43 PM **To:** Leslie Mirise < Leslie. Mirise@txdot.gov>

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

Hi Leslie,

I noticed some inconsistencies in environmental documents for the project regarding species and BMPs planned for implementation:

- Cave myotis bat species was not included on Tier I form; however, the species analysis spreadsheet for SGCN 4-10-20 stated that the project had suitable habitat, and the draft EA 4-16-20 stated that there was suitable habitat and Bat BMPs from Section 1 of the 2017 BMP PA and Additional Bat BMPs from Section 2 of the 2017 BMP will be implemented for the project. Please confirm whether there is suitable habitat for the cave myotis bat and BMPs will be implemented.
- Southern crawfish frog species was not included on the Tier I form and species analysis spreadsheet for SGCN 4-10-20 stated that there was no suitable habitat; however, the draft EA 4-16-20 indicated that there was suitable habitat and that the species-specific BMPs from Section 1 of the 2017 BMP PA would be implemented. Please confirm whether there is suitable habitat for the southern crawfish frog and BMPs will be implemented.
- Woodhouse's toad Tier I form and species analysis spreadsheet for SGCN 4-10-20 stated that there was suitable habitat; however, species was not included in draft EA 4-16-20. Please confirm whether there is suitable habitat for the Woodhouse's toad and BMPs will be implemented.
- Mink Tier I form and species analysis spreadsheet for SGCN 4-10-20 stated that there was suitable habitat; however, species was not included in draft EA 4-16-20. Please confirm whether there is suitable habitat for mink and proposed BMP will be implemented for contractors to be advised of potential occurrence in the project area, and to avoid harming the species if encountered.

If dewatering is needed for the project, please contact our Kast and Spills Team (KAST) to coordinate with them. TPWD KAST Region 2 contact information can be found at the following weblink: https://tpwd.texas.gov/landwater/water/environconcerns/kills and spills/regions/kas r2.phtml.

Please let me know if you need any assistance with USACE mitigation.

Thanks, Suzanne From: Suzanne Walsh

Sent: Tuesday, May 5, 2020 9:39 AM **To:** Leslie Mirise < Leslie.Mirise@txdot.gov>

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

Thanks, Leslie. I will let you know if I have any questions.

Suzanne

From: Leslie Mirise < Leslie.Mirise@txdot.gov >

Sent: Tuesday, May 5, 2020 9:05 AM

To: Suzanne Walsh < Suzanne. Walsh@tpwd.texas.gov >

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

ALERT: This email came from an external source. Do not open attachments or click on links in unknown or unexpected emails.

Hi Suzanne,

The schematic has been uploaded in ECOS in the Documents/Project section with the filename: 1051-01-038etc_FM 664 Schematic 100% Final Submittal F.pdf

Thanks,

Leslie Mirise

Environmental Specialist
Dallas District – DAL-ENV
Texas Department of Transportation
4777 East Highway 80
Mesquite, Texas 75150
(214) 320-6162 office
(214) 320-4470 FAX

From: Suzanne Walsh [mailto:Suzanne.Walsh@tpwd.texas.gov]

Sent: Monday, May 4, 2020 4:04 PM

To: Leslie Mirise <Leslie.Mirise@txdot.gov>

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

Hi Leslie,

Do you have a schematic available for the project? I did not see a file in ECOS.

Thanks, Suzanne

Suzanne Walsh

Transportation Conservation Coordinator (512) 389-4579

From: WHAB_TxDOT < WHAB_TxDOT@tpwd.texas.gov >

Sent: Monday, April 13, 2020 2:05 PM

To: Leslie Mirise < Leslie.Mirise@txdot.gov >; WHAB_TxDOT < WHAB_TxDOT@tpwd.texas.gov >

Cc: Suzanne Walsh <Suzanne.Walsh@tpwd.texas.gov>

Subject: RE: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

The TPWD Wildlife Habitat Assessment Program has received your request and has assigned it project ID # 43649. The Habitat Assessment Biologist who will complete your project review is copied on this email.

Thank you,

John Ney

Administrative Assistant

Texas Parks & Wildlife Department

Wildlife Diversity Program - Habitat Assessment Program

4200 Smith School Road

Austin, TX 78744

Office: (512) 389-4571

From: Leslie Mirise <Leslie.Mirise@txdot.gov>

Sent: Friday, April 10, 2020 5:48 PM

To: WHAB_TxDOT < WHAB_TxDOT@tpwd.texas.gov >

Subject: CSJ 1051-01-038, etc. FM 664 Widening Project, Ellis County - Request for Early Coordination

ALERT: This email came from an external source. Do not open attachments or click on links in unknown or unexpected emails.

Hello,

TxDOT requests early coordination for the FM 664 Widening Project in Ellis County, Texas. Please see ECOS for the project description. The project is classified as an EA. Project documents include the following, and those of appropriate file size are attached:

- 1. Species Analysis Spreadsheet
- 2. Species Analysis Spreadsheet SGCN
- 3. Species Analysis Form
- 4. Tier 1 Site Assessment Form
- 5. USFWS IPaC Resource List

- 6. TPWD RTEST List for Collin County
- 7. NDD figure
- 8. EMST Figures
- 9. Actual Veg Figures
- 10. EMST and Observed Veg Spreadsheet
- 11. Photos (uploaded in ECOS)

These documents, along with other project-related information, are available in ECOS under the CSJ: 1051-01-038.

The letting date is currently September 2025. However, the planned NEPA clearance date for this project is August 2020. Please provide comments or complete coordination on or before May 29, 2020 if possible.

Please feel free to contact me with any questions or if you need any additional information.

Thank you,

Leslie Mirise

Environmental Specialist
Dallas District – DAL-ENV
Texas Department of Transportation
4777 East Highway 80
Mesquite, Texas 75150
(214) 320-6162 office
(214) 320-4470 FAX

A Terras Department of Transportation (TxDOT) message



From: <u>Laura Cruzada</u>

To: holly@mathpo.org/10.2016/j.gary.mcadams@wichitatribe.com; holly@mathpo.org; gary.mcadams@wichitatribe.com; Terri.Parton@wichitatribe.com; dhill@mycaddonation.com; dhill@mycaddonati

caddochair.cn@gmail.com; section106@mcn-nsn.gov; lbrown@tonkawatribe.com; mallen@tonkawatribe.com;

martinac@comanchenation.com; theodorev@comanchenation.com

Cc: Kevin Hanselka

Subject: TxDOT Sec. 106 Consultation - CSJ: 1015-01-038, FM 664, Roadway Widening, Ellis County, Dallas District

Date: Friday, October 4, 2019 2:45:00 PM

Good afternoon,

Please find details for the above project, which will include a survey in the future. If you would like to participate, let me know!

Sec. 106 Consultation

OCTOBER 4, 2019

Contacts:

<u>Laura Cruzada</u> 512-416-2638 We kindly request your comments on historic properties of cultural or religious significance to your Tribe that may be affected by the proposed project. Please see the following summary for project details and information. To access the associated reports, which include a detailed project description, APE definition and identification efforts, use the attached link. After 21 days, the link will expire. We will provide an updated link upon request. This project will also be included during our monthly Sec. 106 conference call every third Wednesday of the month at 2 p.m.

Summary:

Project ID (CSJ), County and TxDOT District	CSJ: 1015-01-038, Ellis County, Dallas District
Project Sponsor:	TxDOT
Consultation Status:	⊠Initial Consultation
	□ Continuation of Consultation
Short Description:	FM 664, Roadway Widening
Lat/Longs:	32.431346, -96.873610 to
	32.531952, -96.872218
New Right of Way:	83.69 acres (new ROW: 82.75 acres; proposed easement: 0.94 acres)
Depth of Impacts:	Typical: four feet (utilities, road grading);
	Maximum: 50 feet (bridge construction at Red Oak
	Creek)
Known Archeological	41EL258 (unspecified Historic, ineligible)

Sites or Properties in project area:	
Identification Efforts:	Background Study
Recommendations:	Archeological survey is recommended, based on potential for buried archeological sites where the APE intersects Red Oak Creek and South Grove Creek floodplains.
Link to detailed report:	https://ftp.dot.state.tx.us/dropbox/dropoff.php

Please provide any comments that you may have on the TxDOT findings and recommendations. Please provide your comments within 30 days of receipt of this letter. Any comments provided after that time will be addressed to the fullest extent possible.

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

Laura Cruzada
Public Involvement Specialist & Tribal Liaison
Environmental Affairs Division
125 E. 11th Street, Austin TX 78701
512-416-2638
laura.cruzada@txdot.gov



MEMO January 22, 2020

TO: Administrative File From: Rebekah Dobrasko

District: Dallas County: Ellis

CSJ#: 1051-01-038, etc.

Highway: FM 664

Project Limits: From US 287 to Westmoreland Road

Let Date: September 2025

SUBJECT: Internal review under the Section 106 Programmatic Agreement (Section 106 PA) among

the Texas Department of Transportation, Texas State Historic Preservation Officer, Advisory

Council on Historic Preservation, and Federal Highway Administration; and the

Memorandum of Understanding (MOU) between the Texas Historical Commission and the

Texas Department of Transportation

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and

executed by FHWA and TxDOT.

Project Description

See the attachment from TxDOT's Environmental Compliance Oversight System (ECOS) that describes the project, setting, and amount of right-of-way (ROW) and easements necessary for the project.

Determination of Eligibility:

TxDOT historians reviewed the National Register of Historic Places (NRHP), the list of State Antiquities Landmarks (SAL), the list of Recorded Texas Historic Landmarks (RTHL), and TxDOT files and found no historically significant resources previously documented within the area of potential effects (APE). The TxDOT Section 106 Programmatic Agreement defines the APE for this project as 150' from the ROW.

TxDOT historians conducted a reconnaissance survey of the APE. As a result of that survey, TxDOT identified 41 historic-age (built prior to 1980) properties. Based on the historic context, TxDOT finds that none of the historic-age properties have any historic significance to the area and therefore are **not eligible** for the NRHP.

Consultation:

TxDOT consulted on the identification efforts of the project with Historic Waxahachie, the Waxahachie Main Street Program, the Ellis County Museum, and the Ellis County Historical Commission. Historic Waxahachie identified four potential historic properties within the project area.

After analysis of the properties, TxDOT found that two of the resources, the row of 1950s residences and a Victorian residence, are outside of the project's APE. The geodesic dome identified was constructed c. 1984 and is outside the period of significance and the survey cut-off date. TxDOT surveyed one Victorian residence (Resource 40) and found it to lack significance and historic integrity.

The Waxahachie Main Street program and the Ellis County Museum did not have any comments for TxDOT. TxDOT did not receive a response from the Ellis County Historical Commission.

Determination of Effects:

Pursuant to Stipulation IX, Appendix 6 "Undertakings with the Potential to Cause Effects per 36 CFR 800.16(i)" of the Section 106 PA and the MOU, TxDOT historians determined that there are no effects to historic, non-archeological properties in the APE. In compliance with the Antiquities Code of Texas and the MOU, TxDOT historians determined project activities have no potential for adverse effects. Individual project coordination with SHPO is not required.

Lead Reviewer	Pocusigned by: RUNCAU POBYASKO	for TxDOT	1/22/2020	
	□ 0F414A49C0E44Rebekah Dobrasko		Date	
Approved by	DocuSigned by:	for TxDOT	1/22/2020	
	7EBA09BEBA8043B		Date	

						Back To List
WPD Section I - Project De	finition	WPD Section II - Tool	WPD S	Section III - Project Work Plan	WPD Section IV - Finding	as
+ -				Topical Italian	Archived WP	_
Project Definition				=		
Project Name: CSJ 1051-01-03	88 - FM 66	4				
CSJ: 1051 - 01 - 03	8			EA	ed Environmental Classific	cation:
No 🔽 Is this an FHW	A project	t that normally requires	an EIS pe	er 23 CFR 771.115(a)?		
Project Association(s)					
DCIS Project Funding	and Loc	ation				
DCIS & P6 Letting Da	tes					
DCIS Project Descript	tion					
- Jurisdiction						
No V Does Pern		ject cross a state bound	lary, or re	quire a new Presidential Permit o	or modification of an exist	ing Presidential
Who	is the le	ead agency responsible f	for the ap	proval of the entire project?		
✓ 1	FHWA - A	Assigned to TxDOT \Box T	xDOT - No	o Federal Funding 🗌 FHWA - No	Assigned to TxDOT	
TXDOT	is the p	roject sponsor as define	ed by 43 T	AC 2.7?		
No ✓ Is a	local gov	vernment's or a private	developer	's own staff or consultant prepar	ing the CE documentation	n, EA or EIS?
		ject require any federal				
		☐ IBWC ☐ USCG ☐ NE ject occur, in part or in		R Other NWP W/O PCN		
Environmental Cleara Project Area Typical Depth of Impacts New ROW Required:		4 (Feet)	(Acres)	Maximum Depth of Impacts:	50 (Feet)	
New Perm. Easement Rec	quired:	1	(Acres)	New Temp. Easement Required	: 0	(Acres)
Project Description						,
Describe Limits of All A	ctivities:	Spell				
664 in Ellis County widened to a four-la	, Texas	. The existing two-1	ane faci: n ultima	s the widening of Farm to Ma lity would ultimately be rec te of six-lanes) from north es	onstructed and	
Describe Project Setting	g: Sp	ell.				



Yes V Would the project add capacity?	
Transportation Planning	
* Environmental Clearance Information	
* Project Contacts	
Last Updated System Admin By:	Last Updated Date: 09/12/2019 07:16:47
⊠ C	

RECEIVED

JAN 2 3 2020

125 EAST 11TH STREET, AUSTIN, TEXAS 78701-2483 | 512.463,8588 | WWW.TXDOT.GOV

January 23, 2020

RE: CSJ: 1051-01-038; FM 664, Widen Non-Freeway, Ellis County, Dallas District; Section 106 Consultation and Antiquities Code Coordination; Texas Antiquities Permit No. 9156

Mr. Mark Wolfe Texas Historical Commission P.O. Box 12276 Austin, Texas 78711

Dear Mr. Wolfe:

As required by the Programmatic Agreement and the Memorandum of Understanding with your agency, we are initiating consultation on this project. Environmental studies are in the process of being conducted for this project. The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019 and executed by FHWA and TxDOT. We have enclosed for your review a draft report of archeological investigations for this undertaking.

Undertaking Description

The proposed project will be undertaken with federal funds and will occur in part or in whole on non-federal public lands. TxDOT is proposing improvements to FM 664 in Ellis County, Texas. The proposed project would widen the existing FM 664 facility from an undivided two-lane road to a divided four-lane road. Additional improvements include eliminating turns between Marshall Road and FM 1387 by realigning and constructing new roadway.

Area of Potential Effects

The project's area of potential effects (APE) comprises the following area.

- The project limits extend from US 287 in Waxahachie to Westmoreland Road in Ovilla along FM 664. The total project length is thus about eight miles, and the APE includes any existing ROW within these limits.
- The existing ROW comprises approximately 60 acres.
- The proposed project would require 82.75 acres of new right of way.
- The proposed project would require 0.94 acres of new easements.

CSJ: 1051-01-038, FM 664, Ellis County, Dallas District Texas Antiquities Permit No. 9156

- The estimated depth of impacts is typically four feet with a maximum depth of impacts of 50 feet.
- The APE is further detailed and illustrated in the attached report.

Identification Efforts

For this project, TxDOT has conducted a survey. The enclosed report of investigations has more details regarding this work. The following bullets summarize the identification efforts.

- The investigations reported here concern portions of the APE that did not warrant survey and portions of the APE that were accessible during survey.
- · Archeologists undertook a survey. For this survey,
 - 42.23 acres were identified as not requiring field survey, due to existing conditions of the setting identified through background research and described in the attached report;
 - o 33.9 acres were surveyed and described in the attached report;
 - o 6.62 acres still require survey due to access issues;
 - o previous investigation within the APE identified 41EL258 (ineligible; no other information available) as overlapping with the APE; and
 - o the current survey identified 41EL281, a historic (early 20th century) farmstead within the APE (recommended not eligible).
- Identified archeological sites that are not eligible for inclusion in the National Register of Historic Places and/or that do not warrant formal designation as State Antiquities Landmarks include: 41EL258 and 41EL281. Previously recorded site 41EL258 is mapped as overlapping with the APE but was not relocated during this survey; it is recommended not eligible due to the lack of intact archeological deposits within the project ROW. Site 41EL281 is an early 20th century farmstead identified by a light artifact scatter detected within 16 out of 28 shovel tests. All artifacts were recovered less than 12 cm below the surface. The site lacks integrity and sufficient data to contribute important information about local history, and is therefore recommended ineligible.

Effects Determination

The proposed project would have direct effects resulting from ground-disturbing construction activities within the APE. Given the results of the identification efforts, TxDOT proposes that the project will have no effect on archeological historic properties as the APE does not contain sites that are eligible for inclusion in the National Register of Historic Places or that warrant formal designation as State Antiquities Landmarks. The next section identifies the steps recommended by TxDOT based on the results of the identification efforts and this effects analysis.

Recommendations

TxDOT seeks your concurrence on the following points:

CSJ: 1051-01-038, FM 664, Ellis County, Dallas District Texas Antiquities Permit No. 9156

- The identification efforts and analysis of effects completed to date are adequate.
- No further work or consultation is required within the evaluated portions of the APE.
 Once access is obtained to areas for which access has been denied, TxDOT will complete required investigations and consultation prior to construction.
- The attached draft report meets the reporting requirements of the Texas Antiquities Permit issued for the investigation.

Thank you for your consideration of this matter. If you have any questions or have need of further information, please contact me at 214-320-4472.

Sincerely,

J. Kevin Hanselka

Archeological Studies Branch Environmental Affairs Division

J. Kevi Hanselka

Cc w/o attachments: ECOS Scan

Concurrence By:

for: Mark Wolfe, Executive Director and SHPO

Texas Historical Commission

DRAFT REPORT ACCEPTABLE

for Mark Wolfe

Executive Director, THC

Date_

Track #



Report for Archeological Survey (Draft)

Proposed Roadway Expansion for Farm to Market Road 664, From US 287 to Westmoreland Road, Ellis County, Dallas District CSJ 1051-01-038

Kevin Hanselka, Principal Investigator; Antiquities Permit No. 9156

December 2019

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

Austin Gibson

From: Austin Gibson

Sent: Thursday, November 14, 2019 1:22 PM

To: carlos.villarreal@tx.usda.gov

Cc: Jonathan Stewart

Subject: NRCS-CPA-106 Form for FM 664

Attachments: Farmland Conversion Impact Rating FM 664.pdf; FM_664_ROW_20191029_Reduced.pdf;

FM664_PROW_20191021.zip

Mr. Villareal,

Attached is a the NRCS-CPA-106 form for your review, for the FM 664 Roadway Project in Ellis County, TX. I have also attached a map of the project and the Proposed ROW and Easements in a zipped folder. Please let me know if you need any additional information.

Thank you, Austin

(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				4. Sheet 1 o	4. Sheet 1 of	
1. Name of Project			5. Federal Agency Involved						
2. Type of Project			6. County and State						
PART II (To be completed by NRCS)			Date Request Received by NRCS			2. Person Completing Form			
3. Does the corridor contain prime, unique statewide or local important farmlan (If no, the FPPA does not apply - Do not complete additional parts of this for			YES I I NO I I			Acres Irrigated Average Farm Size			
				d in Government Jurisdiction			7. Amount of Farmland As Defined in FPPA		
	Acres:			%			Acres: %		
Name Of Land Evaluation System L	Jsed	9. Name of Loca	al Site Asse	ssment System		10. Date Land Evaluation Returned by NRCS			
PART III (To be completed by Federal Agency)				Alternative Corridor For Segment Corridor A Corridor B Corridor C Corr				Corridor D	
A. Total Acres To Be Converted Dire	ectly								
B. Total Acres To Be Converted Indi	rectly, Or To Receive S	Services							
C. Total Acres In Corridor									
PART IV (To be completed by N	RCS) Land Evaluati	ion Information	า						
A. Total Acres Prime And Unique Fa	armland								
B. Total Acres Statewide And Local	Important Farmland								
C. Percentage Of Farmland in Cour	nty Or Local Govt. Uni	t To Be Converte	ed						
D. Percentage Of Farmland in Govt.	Jurisdiction With Same	e Or Higher Relat	tive Value						
PART V (To be completed by NRCS value of Farmland to Be Serviced of	•								
PART VI (To be completed by Fed	'	T T	Maximum						
Assessment Criteria (These criter	• • • • • • • • • • • • • • • • • • • •		Points						
1. Area in Nonurban Use		. , ,	15						
2. Perimeter in Nonurban Use			10						
3. Percent Of Corridor Being Fai	rmed		20						
4. Protection Provided By State	And Local Government	t	20						
5. Size of Present Farm Unit Compared To Average			10						
6. Creation Of Nonfarmable Farm	mland		25						
7. Availablility Of Farm Support	Services		5						
8. On-Farm Investments			20						
9. Effects Of Conversion On Far			25						
10. Compatibility With Existing A	gricultural Use		10						
TOTAL CORRIDOR ASSESSMI	ENT POINTS		160						
PART VII (To be completed by Fe	deral Agency)								
Relative Value Of Farmland (From	<u> </u>		100						
Total Corridor Assessment (From assessment)	Part VI above or a loca	ll site	160						
TOTAL POINTS (Total of above 2 lines)			260						
1. Corridor Selected:	Total Acres of Farm Converted by Proje		3. Date Of	Selection:	4. Was	A Local Si	te Assessment Use	d?	
	, ,					YES [NO 🗌		
5. Reason For Selection:	<u> </u>	<u> </u>			I				
Signature of Person Completing this Part:						DATE			
NOTE: Complete a form for ea	ach coamont with a	mara than an	Altornat	o Corridor					

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?
 More than 90 percent - 15 points
 90 to 20 percent - 14 to 1 point(s)
 Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use? More than 90 percent - 10 points 90 to 20 percent - 9 to 1 point(s) Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points 90 to 20 percent - 19 to 1 point(s) Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County? (Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)
As large or larger - 10 points

Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points

Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)

Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points

Some required services are available - 4 to 1 point(s)

No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points

Moderate amount of on-farm investment - 19 to 1 point(s)

No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area? Substantial reduction in demand for support services if the site is converted - 25 points

Some reduction in demand for support services if the site is converted - 1 to 24 point(s)

No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points

Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)

Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points



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 November 18, 2019

Civil Associates, Inc. *Austin@civilassociates.com*

Attention: Austin Gibson, via email

Subject: LNU-Farmland Protection

Proposed FM 664 Widening and Realignment Project

NEPA/FPPA Evaluation

City of Waxahachie, Ellis County, Texas

We have reviewed the information provided in your correspondence dated November 7, 2019 concerning the proposed roadway improvements project located in the City of Waxahachie, Ellis County, Texas. This review is part of the National Environmental Policy Act (NEPA) evaluation for the Texas Department of Transportation (TXDOT). We have evaluated the proposed site as required by the Farmland Protection Policy Act (FPPA).

The proposed corridor may involve areas of Prime Farmland; however, we consider the location to be "land committed to urban development" due to its location within the city limits/urbanized area of Waxahachie and Dallas/Fort Worth Metroplex, Texas. Additionally, the corridor location is included within an area of land with a density of 30 structures per 40-acre area. Due to these reasons, this project is exempt from provisions of FPPA and no further consideration from protection is necessary. We strongly encourage the use of acceptable erosion control methods during the construction of this project.

If you have further questions, please contact me at 254.742.9836 or by email at Carlos. Villarreal@usda.gov (Preferred).

Sincerely,

Carlos J. Villarreal NRCS Soil Scientist

Attachment: NA

USDA is an Equal Opportunity Provider, Employer, and Lender

Appendix H – Section 4(f) Documentation

Contr	ol Se	ctior	1 Job Number (CSJ): 1051-01-038 & 1051-01-052						
Distri	District and County: Dallas, Ellis								
Prope	Property ID: 187687								
Prope	erty N	ame	: Heritage Park, Ovilla						
use th compl serves attach	is che iance s as the	cklis with e re cum	artment of Transportation (TxDOT) districts and Environmental Affairs Division (ENV) at and supporting documentation to make recommendations and determinations about Chapter 26 of the Parks and Wildlife Code (PWC). Once completed, the checklist cord of the determination of compliance with Chapter 26, and both the checklist and entation are retained in the project file maintained in the Environmental Compliance m (ECOS).						
			following steps and/or items, check the appropriate box in the columns on the left. ONLY (i.e., either "Yes" or "No," not both).						
I. Pro	perty	ту Ту	ре						
Yes	No								
\boxtimes		A.	Is the property publicly owned?						
\boxtimes		В.	Is the property officially designated as a park, recreation area, scientific area, or wildlife refuge?						
		C.	Is the property officially designated a historic site on the federal, state or local level (NRHP, RTHL, SAL, local zoning)?						
\boxtimes		D.	Is the property used for its designated purpose?						
II. Us	e and	l/or	Take						
Yes	No								
\boxtimes		A.	Does the project require an acquisition of acreage from the Chapter 26 property?						
			If so, specify the size of the acquisition: 0.15 acres						
		В.	Does the project require the placement of an easement on the Chapter 26 property?						
	If so, explain those requirements and/or provide a reference to such an explanation in the environmental review document or other written materials retained in the project file: N/A								

III. Public Hearing Notice

Once it is determined there will be a use of or take from a Chapter 26 property, a hearing is required. The Chapter 26 notice can be combined with other types of public notices as long as the other notices also address the Chapter 26 requirements.

Yes	No								
			Was written notice of the public hearing sent to the person, organization, department or agency that has supervision of the land at least 30 days prior to the hearing date?						
			1. Specify the date the notice was sent: Frida, JUne 5 th , 2020						
			2. Specify the name of the person, organization, department or agency that has supervision of the land: City of Ovilla						
\boxtimes		В.	s the letter used to send the notice to the person, organization, department or gency that has supervision of the land attached to this checklist?						
		C.	Was a notice of the hearing published in a newspaper once a week for three consecutive weeks, with the last day of publication no less than one week and no more than two weeks before the hearing?						
			If so, provide publication dates: June 9, 16, and 25, 2020						
		C.	Did the notice of the hearing clearly state the nature of the project and how it is subject to Chapter 26?						
		E.	Is proof that the public notice was published attached to this checklist?						
IV. P	ublic	Hea	ring						
The C	hapte	r 26	hearing may be combined with a hearing held to address other requirements.						
\boxtimes		A.	Was a public hearing held?						
			If so, specify the date the hearing was held: On line July 9^{th} , 2020 and In-Person July 14^{th} , 2020						
		В.	If a hearing was held, did TxDOT receive any comments related to local preferences regarding the Chapter 26 property?						
		C.	If comments related to local preferences regarding the Chapter 26 property were received, are they attached to this checklist?						
		D.	If comments related to local preferences regarding the Chapter 26 property were received, were the local preferences considered?						
			If so, explain what was considered and/or provide a reference to such an explanation in the environmental review document or other written materials in the project file: N/A						

V. Determinations

The determinations in this section are made after the hearing to allow consideration of local preferences.

No		
	A.	Was it determined that there is no feasible and prudent alternative to the use or take of Chapter 26 property?
		Explain the why or why not and/or provide a reference to such an explanation in the environmental review document or other written materials retained in the project file: Please refer to Section 5.9 - Protected Lands of the EA.
	В.	Was it determined that the project includes all reasonable planning to minimize harm to the Chapter 26 property, resulting from the use or take?
		Explain why or why not, describe the included plans, and/or provide a reference to such a description in the environmental review document or other written materials in the project file: Please refer to Section 5.9 - Protected Lands of the EA.
	No	_ A.

V. Required Attachments

- Proof that the public notice was published in accordance with the requirements listed in Section III. Above
- Any comments related to local preferences regarding the Chapter 26 property that were received referenced in Section IV. above



Checklist for Section 4(f) *De Minimis* for Public Parks, Recreation Lands, Wildlife & Waterfowl Refuges, and Historic Properties

		CSJ: 1051-01-038 and 1051-01-052
		t(s): Dallas
	County(i	
		7 ID: 187687
Pr	operty Na	me: Heritage Park, Ovilla
are b	being, or ha	ntal review, consultation, and other actions required by applicable Federal environmental laws for this project ave been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated 119, and executed by FHWA and TxDOT.
		hecklist was developed as a tool to assist in streamlining the Section 4(f) <i>De Minimis</i> process and to ensure that formation is documented in the File of Record (ECOS).
Wh	at Type	e of Property is Being Evaluated?
	⊠ A park	, recreation land, or wildlife/waterfowl refuge
		pric property
Sec	tion 4(f) Defining Criteria for Parks, Recreation, and Refuge Properties
1.	Yes	Is the property publicly owned?
2.	Yes	Is the property open to the public (except in certain cases for refuges)?
3.	Yes	Is the property's major purpose for park, recreation, or refuge activities?
4.	Yes	Is the property significant?
Def	fining tl	he Property's Significance
Note	:: Significar	nce is presumed in the absence of a determination with the official with jurisdiction.
1.	Yes	Does the property play an important role in meeting the park, recreation, or refuge objectives for the official with jurisdiction?
2.	Yes	Is the property's major purpose for park, recreation, or refuge activities?
Est	ablishir	ng Section 4(f) Use of the Property
1.	Yes	Does the project require a use (i.e., new right of way, new easement(s), etc.)?

Establishing Section 4(f) De Minimis Eligibility

1.	Yes	Was it determined that the project will not adversely affect the activities, features, or attributes that make the property eligible for Section 4(f) protection?
2.	Yes	Was a public notice and an opportunity for public review and comment provided? (This requirement can be satisfied in conjunction with other public involvement procedures, such as those for NEPA process)
3.	Yes	Did the Official with Jurisdiction concur that the property was significant and that the proposed project meets ALL conditions of items above?

Section 4(f) Use:

The Texas Department of Transportation (TxDOT) proposes to reconstruct, realign, and widen FM 664 from US 287 to Westmoreland Road for approximately 8.08 miles. Improvements would include the expansion of the current 2-lane rural roadway to a 4-lane urban roadway (ultimate 6-lanes) with a raised median to provide additional capacity and improve safety. Improvements would consist of 12-foot-wide travel lanes, and 14-foot-wide outside shared-use lanes, 6-foot sidewalks with American Disabilities Act curb ramps in both directions. Other improvements would include eliminating 90-degree turns along FM 664 between FM 1387 and Marshall Road. The existing right of way (ROW) width would increase with the proposed project to the typical 150-foot ROW footprint. The proposed project is anticipated to require 87.18 acres of additional ROW and 0.61 acre of easement.

The proposed project would require ROW from Heritage Park. The park parcel is 3.3 acres (Ellis County property ID 187687). Proposed ROW acquisition from this parcel is a total of 0.15 acre. The improvement on FM 664 is proposed to be constructed on the southernmost edge of the Heritage Park parcel. At the particular location in which the 0.15 acre of proposed ROW is required, widening of FM 664 is primarily occurring on the north side of the road. Proposed ROW acquisition at this location would allow adequate space for widening. These improvements would not jeopardize the property's function as a city park. Parking and pedestrian access would not be compromised.

Mitigative actions taken to reach a no adverse effect determination are as follows:

- Added retaining walls along the southbound lanes 500 feet north and south of the Main Street intersection to minimize encroachments to Heritage Park.
- Optimized the minimum horizontal alignment radius to shift impacts away from the area.
- Maintained the existing design speed for the Main Street crossing to limit the fill in the area of Heritage Park.

Documentation

The following **MUST** be attached to this checklist to ensure proper documentation of the Section 4(f) De Minimis:

✓	A detailed map of the Section 4(f) Property including current and proposed ROW; property boundaries; access points for pedestrians and vehicles and existing and planned facilities.
\checkmark	Street level photograph of the property
\checkmark	Concurrence letter from Official with Jurisdiction
√	Copy of WPD I Screen from ECOS.



Photograph 1: Heritage Park looking south from Main Street. Parking lot in foreground.



Photograph 2: Heritage Park looking south. Tributary to Red Oak Creek with pedestrian bridge in background. Picnic area to the right.



4777 E Hwy 80, Mesquite, TEXAS 75150-6643 | (214)-320-6100 | WWW.TXDOT.GOV

07/30/2020

District: Dallas County: Ellis

CSJ#: 1051-01-038 and 1051-01-052

Highway: FM 664

Project Limits: US 287 to Westmoreland Road

Section 4(f) Property: Heritage Park, City of Ovilla Designated Parkland

SUBJECT: NOTIFICATION OF INTENT TO PURSUE DE MINIMIS TO SECTION 4(f)

(23 CRF 774.3(b))

Pam Woodall – City Manager City of Ovilla, Texas 105 Cockrell Hill Ovilla, TX 75154

Dear Ms. Woodall:

In accordance with 23 CRF 774.3(b), we are seeking concurrence for the above referenced project, which will be carried out with Federal funds. This letter requests review and consultation concerning the determinations of significance and findings of no adverse effects within the project's area of potential effects (APE). The Texas Department of Transportation (TxDOT) also intends to pursue a Section 4(f) de minimis.

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried-out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

Introduction

TxDOT proposes to reconstruct, realign, and widen FM 664 from US 287 to Westmoreland Road for approximately 8.08 miles. Improvements would include the expansion of the current 2-lane rural roadway to a 4-lane urban roadway (ultimate 6-lanes) with a raised median to provide additional capacity and improve safety. Improvements would consist of 12-foot-wide travel lanes, and 14-foot-wide outside shared-use lanes, 6-foot sidewalks with American Disabilities Act curb ramps in both directions. Other improvements would include eliminating 90-degree turns along FM 664 between FM 1387 and Marshall Road. The proposed design speed is 40 miles per hour. The existing right of way (ROW) width would increase with the proposed project to the typical 150-foot ROW footprint. The proposed project is anticipated to require 87.18 acres of additional ROW and 0.61 acre of easement.

Mitigative actions taken to reach a no adverse effect determination are as follows:

 Added retaining walls along the southbound lanes 500 feet north and south of the Main Street intersection to minimize encroachments to the park. Maintained the existing design speed for the Main Street crossing to limit the fill in the area of the park.

Determination of No Adverse Effects and Certification of Section 4(f) De Minimis

Survey determined that the Heritage Park on which the **use** will take place has significance under the requirements of 23 CRF 774.3(b). In order to qualify for a Section 4(f) *de minimis*, it was established that the project activities will not adversely affect the activities, features, or attributes that make the property eligible for Section 4(f) protection.

The function of Heritage Park will not be impaired and its function will not cease. Nor will the project impair the function of the property as a whole. Therefore, these minor changes would have no adverse effect. The property would still possess its significance after the project is complete.

If you feel that TxDOT has met the above requirements and have no additional comments about the project, then please endorse this letter and return it to us by August 28, 2020 This endorsement will signify your concurrence that there is no adverse effect to the above property. Additional information about Section 4(f) requirements can be found at the following or you may request additional information from TxDOT:

http://environment.fhwa.dot.gov/(S(1vyep545s3wmhuubnvexkmm2))/4f/index.asp

Conclusion

In accordance with 23 CRF 774.3(b), I hereby request your signed concurrence with the finding of no adverse effects. Furthermore, TxDOT determined that the proposed project activities meet the requirements of a *de minimis* finding under Section 4(f).

Thank you for your assistance with the federal review process. If you need further information, please call me at 214-320-6148.

Sincerely.

Mohammed Shaikh

Mohammed Shaikh Environmental Specialist TXDOT Dallas District

Cc: Nelson Underwood, PE

Howard Gibbs, PE

Enclosures: Exhibit 1 – Heritage Park Aerial Proposed Right-of-Way

CONCUR: NO ADVERSE EFFECT

DETERMINATION OF DE MINIMIS IMPACT UNDER SECTION 4(f) GUIDELINES

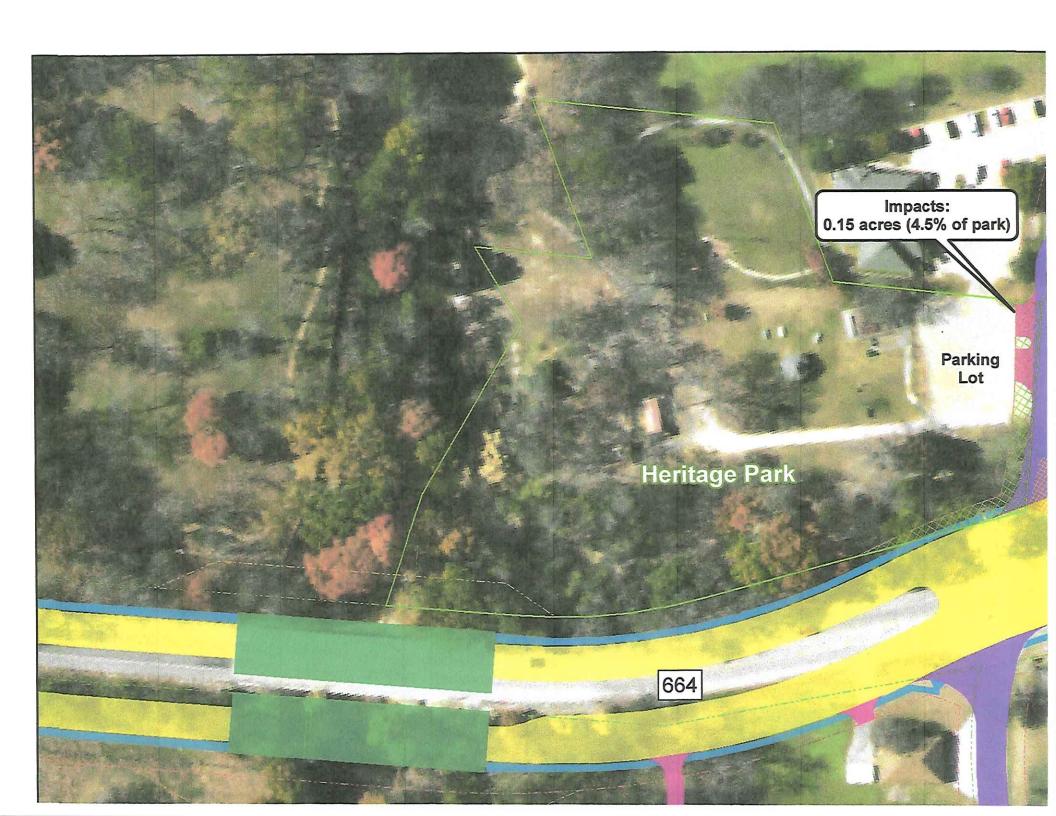
NAME: Sample Levell

Pam Woodall - City Manager

DATE: 8-10-2020

Template

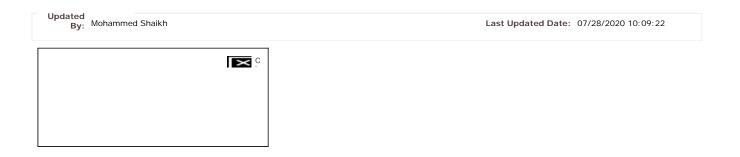
TxDOT Environmental Affairs Division Effective Date: December 2019



Finalize Finalize						Back To List
WPD Section I - Project Defir	nition WPD Section II - 1	Tool WPF) Section III - Project Wor	k Plan WPD Section	n IV - Findings	
+ -	IIIIIII W D Section 11 -	TOOT WITE	Jection III - Froject Wor			Print this Page
Project Definition					Archived WPD I	-Till tills Fage
Project CSJ 1051-01-038 - Name:	FM 664					
csJ: 1051 - 01 - 038				Anticipated Enviro	nmental Classificat	ion:
No ✓ Is this an FHWA	project that normally requi	ires an EIS ¡	per 23 CFR 771.115(a)?			
Project Association(s)						
		Auto A	ssociate CSJ from DCIS			
Manually Associate CSJ:						
CSJ	DCIS Funding	DCIS	Add Env Classification	DCIS Main		Actions
CSJ: 105101052	Federal, State	Number STP ()	EA	Classification Associ WNF Associ		In Actions
DCIS Project Funding a	nd Location					
Funding DCIS Funding Type:						
✓ F	Federal		☑ State	Local	Privat	te
Location						
DCIS Project Number:	STP ()		Ні	ghway: FM 664		
District:	DALLAS		C	County: ELLIS	V	
Project Limit From:	US 287 IN WAXAHACHIE					
Project Limit To:	FM 1387					
Begin Latitude:	+ 32 . 42845924		Begin Longitud	de: - 96 . 8	7362194	
End Latitude:	+ 32 53371665		End Longitude	: - 96	5891647	
DCIS & P6 Letting Dates	e					
DCIS District: 09/25		IS Approved	l:	DCIS	Actual:	
P6 Ready To Let: 06/01/2020	P6 I	Proposed Le	etting:			
DCIS Project Descriptio	in					
Type of Work: Spell						
					\Diamond	
Layman's Description:					_	
CONSTRUCT NEW ROAD						
	assification: WNF - WIDEN			V		
	gn Standard: 4R - New Loc					
Roadway Functional Cl	assification: 4 - Minor arte	rial road or str	reet			
Jurisdiction	ho project areast-t-	aundems -	roquiro o mou Producti	Dormit on me del	on of an eviation	oolde = tie!
No V Does t	the project cross a state bo t?	undary, or i	require a new Presidential	Permit or modification	on of an existing Pro	esidential
Who is	s the lead agency responsil	ble for the a	approval of the entire proj	ect?		
☑ FH	IWA - Assigned to TxDOT	TxDOT - I	No Federal Funding 🗌 FH	WA - Not Assigned to	TxDOT	
TXDOT ✓						

Who is the p	project sponsor as define	d by 43 TAC 2.7?						
Is a local government's or a private developer's own staff or consultant preparing the CE documentation, EA or EIS?								
S ✓ Does the pro	Does the project require any federal permit, license, or approval?							
✓ USACE	✓ USACE ☐ IBWC ☐ USCG ☐ NPS ☐ IAJR ☐ Other NWP W/O PCN							
∨ Does the pro	oject occur, in part or in	total, on federal or tribal lands?						
Environmental Clearance Pro	ject Description							
roject Area								
pical Depth of Impacts:	4 (Feet)	Maximum Depth of Impac	ts: 50 (Fee	et)				
ew ROW Required:	87.18	(Acres)						
w Perm. Easement Required:	0.61	(Acres) New Temp. Easement Requir	red: 0	(Acres)				
roject Description								
Describe Limits of All Activities	Spell_							
664 in Ellis County, Texas	s. The existing two-l vided roadway (with a	proposes the widening of Farm to ane facility would ultimately be n n ultimate of six-lanes) from nort 8.1 miles	reconstructed and	^				
production.								
Describe Existing Facility:	Spell.			~				

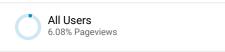
existing right-of-way (ROW) width the bridge over Red Oak Creek, and the surface drainage as well as culver Stormwater runoff within the limit facility is intersected by four mal 1387 in Waxahachie, and Shiloh Road Existing posted speed limits are 30 sections of the corridor.	l-foot (ft) wide lanes and 3-ft that varies between 80 ft and 10 re are ditches along both sides is crossing along the existing is is conveyed through an open digor collectors, including Marshid in Ovilla, and other minor collectors.	00 ft. There is an existing of the roadway to provide roadway at multiple locations. itch drainage system. The all Road, Bob White Road and FM llectors and local roads.	
			V
Describe Proposed Facility: Spell			
The proposed project consists of the 287 to Westmoreland Road for appropriate current 2-lane rural roadway to to provide additional capacity and travel lanes, and 14-foot-wide out. Disabilities Act (ADA) curb ramps: 90-degree turns along FM 664 betweemph. The existing ROW width will infootprint. The proposed project is acre of easement.	ximately 8.08 miles. Improvement of a 4-lane urban roadway (ultime improve safety. Improvements we side shared-use lanes, 6-foot sin both directions. Other improvements and but a side shared with the proposed projections with the proposed projections.	ts would include the expansion of ate 6-lanes) with a raised median ould consist of 12-foot-wide idewalks with American vements would include eliminating ne proposed design speed is 40 ct to the typical 150-foot ROW	\[\rightarrow \]
Yes V Would the project add capacity?			
Transportation Planning Yes V Is the project within an MPO's boun No V Does the project meet the definition The project is located in Non-Attainment/Maint	n for a grouped category for planning	and programming purposes?	
Transportation Planning Yes V Is the project within an MPO's boun Does the project meet the definition	n for a grouped category for planning	and programming purposes?	
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Appendix I – Virtual Public Hearing
Viewer Analytics Page
and
Virtual Public Hearing
Comment and Response Matrix

ALL » PAGE: /FM664

Jul 9, 2020 - Jul 29, 2020



Explorer



Page	Pageviews	Unique Pageviews	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
	630 % of Total: 6.08% (10,368)	458 % of Total: 6.53% (7,010)	00:06:47 Avg for View: 00:01:34 (331.81%)	389 % of Total: 10.74% (3,623)	37.97% Avg for View: 42.58% (-10.81%)	66.98% Avg for View: 34.94% (91.69%)	\$0.00 % of Total: 0.00% (\$0.00)
1. /FM664	630 (100.00%)		00:06:47	389 (100.00%)	37.97%	66.98%	\$0.00 (0.00%)

Rows 1 - 1 of 1

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
1	Mark Richards	July 5, 2020	Comment Form Submitted Online	This is an incredibly needed improvement. This road has 90 degree curves that involve accidents and damage to guardrails weekly. Any improvement needs to include reduction in these 15 mph stretches!	Comment noted.
2	Colleen Julius	July 5, 2020	Comment Form Submitted Online	I drive this section of 664 3-4 times a week. Seems to be getting heavier traffic every year. I have also noticed people hit the guard rails because the drive to fast for the curves.	Comment noted.
3	Carola Scharlach	July 5, 2020	Comment Form Submitted Online	(No comment was left)	Your interest has been noted.
4	Ronda Brubaker	July 5, 2020	Comment Form Submitted Online	My family and I use this road and would appreciate the improvements. For not only safety reasons, but for an easier smoother commute to work and town.	Comment noted.
5	Matt	July 5, 2020	Comment Form Submitted Online	(No comment was left)	Your interest has been noted.
6	William Campbell	July 5, 2020	Comment Form Submitted Online	Not in favor of expanding roadway. It is fine the way it is. Money could be spent better elsewhere.	Comment noted.
7	Mike Moyd	July 5, 2020	Comment Form Submitted Online	(No comment was left)	Your interest has been noted.
8	Brenda	July 5, 2020	Comment Form Submitted Online	(No comment was left)	Your interest has been noted.
9	Susan Paschall	July 5, 2020	Comment Form Submitted Online	This expansion is long overdue, however, the timing is going to present a serious hardship for those of us that have been forced to take this route home from Waxahachie due to the work on	Currently there is a feasibility study for US 287 from Midlothian to east of Waxahachie which will be looking at continuous frontage roads and intersection

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
				Hwy 287 and Walnut Grove. FM 664 has had a significant increase in traffic with all the new housing additions being developed off this road. I certainly hope the plan is to wait until 287 has been alleviated of the horrible traffic - in the afternoons, northbound traffic on 287 is backed up almost to the airport. Many of us take FM 664 to return home from the Waxahachie area, due to so much traffic on 287 - sure could use a right turn lane from northbound 287 to Walnut Grove at that light like we had before - would move traffic through there faster for sure.	improvements. US 287 and FM 664 are part of that study.
10	Howard Daniel	July 6, 2020	Comment Form Submitted Online	(No comment was left)	Your interest has been noted.
11	Jeanne Lucas	July 6, 2020	Comment Form Submitted Online	The road has too many dangerous curves that need to be straightened out. Dangerous road.	As part of the proposed improvements to FM 664, the current proposed design would eliminate the sharp curves within the project limit.
12	Alexander	July 7, 2020	Comment Form Submitted Online	(No comment was left)	Your interest has been noted.
13	Rachel Potter	July 7, 2020	Comment Form Submitted Online	This project is unwarranted, FM 664 between Ovilla and Hwy 287 is a RURAL area. Most people bought homes (myself included) due to the fact that it's rural. This project is a waste of money, and complete overkill for a section of rural farm to market road that does not serve as a major thoroughfare to traffic other than residential commuters living in the area. I can understand trying to soften the sharp curves, but 4 lanes and a sidewalk is overkill. There is no pedestrian traffic on this section of road, as the area is residential. The sidewalk is ridiculous.	The proposed configuration for 4 lanes (ultimate 6 lanes) is for future development based on the calculated traffic projection and level of service with minimal future impacts to safety and mobility. Federal policy dictates that bicycling and walking facilities will be incorporated into all transportation projects unless exceptional circumstances exist. A Public Meeting was held on Tuesday, March 5, 2019 at the Waxahachie Civic Center, 2000 Civic Center Lane Waxahachie, Texas 75168. The abutting property owners

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
				This road expansion will encourage more cutthrough traffic therefore impacting the rural atmosphere for which most residents desire & paid for. Additional cut-through traffic in the area will create noise, pollution, litter, etc. My home is on the corner of Meghann Lane and 664, this proposed plan will increase the right of way to the point that my house will practically sit on top of a 4-lane highway. This is UNACCEPTABLE. I just bought the property in January, and I have not been contacted or consulted on the project until yesterday, July 6th. Had I known this area was part of a plan to widen 664 and take away part of my property making my house even closer to the street - I never would have bought it.	were notified about the previous Public Meeting, along with the proposed project with a mailed notice.
14	Derrick Fannin	July 7, 2020	Comment Form Submitted Online	This would be a great improvement, as their continues to be more homes. built we will need more lanes to safely commute between red oak, through ovilla into waxahahchie	Comment noted.
15	Nikki Fannin	July 7, 2020	Comment Form Submitted Online	As a resident who lives off of 664 between 287 & Westmoreland, I travel on this stretch of road any time I leave my house. I have 2 small children who are in my car most of the time I am traveling on this road. In this stretch of road there are several 90 degree turns. Each time I pass through one of these when there is a vehicle driving the opposing way, I hold my breath and pray for everyone's safety. It is at least a weekly occurrence that I see tire marks, broken guard rails, and/or evidence of an accident at one of these turns. I feel they are dangerous, and the community would benefit by straightening these curves.	As part of the proposed improvements to FM 664, the current proposed design would eliminate the sharp curves within the project limit.
16	Bev Carrick	July 7, 2020	Comment Form	I am against any expansion to Westmoreland Road.	Comment noted.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
			Submitted Online		
17	Candice Dale	July 8, 2020	Comment Form Submitted Online	I'm absolutely against expanding Fm-664. Its a pain every time this road has had work done. People already drive crazy fast and an expansion would only encourage that. No thank you.	There may be temporary delays and congestions during the construction, which are anticipated to be short in duration. During peak hours, all existing lanes are anticipated to remain open to traffic. As part of the proposed improvements to FM 664, the current proposed design would eliminate the sharp curves within the project limit.
18	Bessie Becker	July 8, 2020	Comment Form Submitted Online	How will this affect my property value ? Noise? Traffic increase? Walls to block traffic view? Why a sidewalk? Stop signs or lights? Speed bumps to slow traffic down?	Changes in property values are inevitable with or without roadway improvements; property values are subject to market conditions. Improved accessibility, traffic flow, and safety are all likely benefits to land values. A traffic noise analysis was prepared in accordance with TxDOT's (FHWA-approved) Traffic Noise Policy (2011). The Traffic Noise Analysis Report (2019), which includes details about the analysis, is available for public review at the TxDOT Dallas District office. Build Alternative: Existing and predicted traffic noise levels were modeled at representative land use activity areas (receptors) adjacent to the project that might be impacted by traffic noise and would potentially benefit from feasible and reasonable noise abatement. Noise abatement measures were considered and analyzed for each impacted receptor location. Abatement measures, typically noise barriers, must provide a minimum noise reduction, or benefit, at or above the threshold of 5 dB(A). A barrier is not acoustically feasible unless it reduces noise levels by at least 5 dB(A) at greater than 50% of first-row impacted receptors. To be reasonable, the barrier must not exceed the cost reasonableness allowance of \$25,000 square feet per

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
					benefited receptor and must meet the noise reduction design goal of 7 dB(A) for at least one receptor. Federal policy dictates that bicycling and walking facilities will be incorporated into all transportation projects unless exceptional circumstances exist. In the schematic phase of the project, TxDOT does not analyze intersections for traffic signal. Traffic signal warrants are typically done upon the request of the County of City and either during or after the project has gone through the PS&E (Plans, Specifications & estimates) phase of the project.
19	Jackson Hurst	July 9, 2020	Comment Form Submitted Online	I love and support the FM 664 From US 287 to Westmoreland Road Ellis County Project because it will widen FM 664 from 2 lanes in each direction to 4 lanes in each direction which will reduce congestion and provide passing lanes as well.	Comment noted.
20	Karin Ward	July 11, 2020	Comment Form Submitted Online	The idea of the bypass, and cutting through property is not a good idea. Leave the original curves in the road. It helps to slow people down. If you turn this into a 4 lane road, and take away the curves, it will become a haven for speeding and dangerous drivers.	As part of the proposed improvements to FM 664, the current proposed design would eliminate the sharp curves within the project limit.
21	Chad Berger	July 13, 2020	Comment Form Submitted Online	Please fix the issues, the map provided would have the lease impact on residents	Comment noted.
22	Nicholas Jackson	July 13, 2020	Comment Form Submitted Online	I completely reject and disagree with this. It will completely Change our community in a negative way and takes away from our rural feeling. Which is the whole reason we moved here to begin with.	Comment noted.
23	Jennifer Oberst	July 19, 2020	Comment Form	I am constantly watching the flow of traffic on FM 664 as I live up against it and travel it daily towards both US 287 and Westmoreland Road. I	Comment noted.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
			Submitted Online	truly do not feel that widening FM 664 is necessary and I do not see it needing to be done any time in the foreseeable future.	
24	Anna Jeanotte	July 19, 2020	Comment Form Submitted Online	Not a fan! Leave it as is. There's not near enough traffic for all that. You are taking away from the country feel that people love.	Traffic counts and a Level of Service analysis was performed by professional traffic engineers to determine the number of lanes needed to relieve congestion and improve safety, access and mobility. Planning for 4 lanes (ultimate 6 lanes) road is for future development based on the calculated traffic projection and level of service.
25	William Potter	July 19, 2020	Comment Form Submitted Online	I am not a fan of what we're proposing here. We moved to a little rural community to allow for the country feel, as we live our days throughout city roads and highways. We look for the FM roads, "backroads" to help us relax on our way home each day. As a community we are not showing favor, (from the consensus I've seen) of this upcoming project. My home is going to be directly affected. I live directly off of 664. You will be taking property away from me. Causing a mass disturbance and nightmare of traffic situations through this are for my family, my neighbors and myself. My property value is going to drop significantly due to this factor. Living off of this road I have yet to see 650 wrecks in 3 years that has been advised as data for a necessity of this project. I feel this also does not help the flow of traffic. Maybe if the construction at 287 and 35E would ever get completed. We'd see more significant flow through that are. With this project you are distubing many lives and that is understood by any project this size. I don't agree with this and would love to see this stopped.	Comment noted.
26	Penny Hayes	July 27, 2020	Comment Form Submitted Online	Ovilla Christian School at 3251 Ovilla Road, Ovilla, TX 75154 is a K4-12 school that is a ministry of Ovilla Road Baptist Church. We have approximately 290 students and 45 faculty/staff.	Local access to residences and business may be altered but will be maintained through all phases of construction.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
				Our school hours are 8:00 - 4:00. We have students arriving on campus as early as 7:00 am, after-school care until 6:00 pm, and we have sports and other events on campus many evenings. We ask that you will help us provide safe entrance and exit from our campus as the project is underway in front of our campus. Please let us know if you need additional information: ask for Penny Hayes at 972-617-1177.	
27	Not Provided	July 27, 2020	Comment Form Submitted Online	I am not for this. Will drive my property value down. No no no	Comment noted.
28	Andrea Foster	July 18, 2020	Comment Form	I am "not" in any agreement with widening Ovilla Rd. particularly between 1387 and Bob White. The widening is extreme due to this project would put the street and sidewalk straight thru my backyard. Please consider leaving the curbish of Ovilla Rd as is, but maybe "2 lanes each way only" no median during that stretch between 1387 and Bob White please!!	 Planning for 4 lanes (ultimate 6 lanes) road is for future development based on the calculated traffic projection and level of service. Medians would improve safety by separating vehicles traveling in opposite directions and controlling turning movements, thus reducing conflicts from cross-over movements. Median openings and left turn bays will be provided per the TxDOT Access Management Manual.
29	Carlota Hernandez	July 19, 2020	Email	I have attended 2 previous meetings regarding the widening of road FM 664, and I have submitted my concerns in writing after each of those meetings. I have watched the recording of the virtual meeting, and so here are my concerns again. You mentioned one residential structure that will be affected, very concerned about this, since an	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Hernandez on July 20, 2020 with the following: Thank you for your interest in the FM 664 improvement project. I will answer your concerns and questions below in red. If you have an more questions or concerns you can contact me directly. The one residence that will be impacted is next to the Nichols Service Center. We do not generally give out
				actual address was not given.	address of impacted business or residences, only depict them on the schematic.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
				I am very concerned as to how close the road will be to my home. We moved to the country 10 years ago for the very reason of the quiet and space. Which it is now going to be invaded.	The edge of the proposed roadway will be approximately 85' for the front of the house and the proposed right-ofway will be approximately 50' from the front of the house.
				The right angle corners that are being changed, do not even address the one that has the most accidents. The corner of Bob White Road and FM 664, many cars have landed in the ditch there. I know because I live just down the street.	The current approved schematic shows the alignment of FM 664 continuing north from Bob White and continues until it takes a left turn to get the alignment between Legacy Estates and La Vista Estates. We are smoothing out all of the sharp 90 degree turns into more gentler turns.
				Concerned about how raising the median, will affect my home structurally, and therefore value.	Based upon the schematic, there will be a median opening at your driveway location to give you the option to go north or south. The raised median is to separate the north and southbound traffic, create a safer roadway and with the reduced design speed slow traffic and reduce noise.
				I have enjoyed my privacy in my home, I feel that the expansion will promote more traffic, more noise. So you know now I have been opposed to this change from the beginning.	I understand your opposition however with the growth occurring in this area and throughout the Metropolitan area we are planning for the future growth.
30	Clyde Hargrouf	July 10, 2020	Comment Form	Please make sure the plans reflect a median break and left turn lane into Malloy Road off FM 664.	Median openings were determined in coordination with local government. Final location of median openings will be determined in the PS&E development phase in coordination the local governments.
31	Michael & Ginger Coghlan	July 9, 2020	Email	We just watched the video on the proposal for widening FM 664. If the current plan is followed, we have absolutely no objections. We love the fact that you are moving the highway away from our home and adding sidewalks! Our only concern is speed limit. Will the 45mph speed limit remain or is there a plan to change it?	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. and Mrs. Coghlan on July 10, 2020 with the following: Thank you for comments on the FM 664 project. To answer your question, after the project has been constructed a speed study will be done to determine what the posted speed will be. At this stage in the process, we design it for a specific speed with the given characteristics of the proposed roadway in mind (i.e. curb and gutter, raised center medians, sidewalks etc.).

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
					If you have any further questions I would be glad to answer them. Please fill out a comment form with your comments as well. Thank you.
32	Diane Dynis	June 15, 2020	Email	2 questions – do you have an approximate start date for this widening project?	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Dynis on July 15, 2020 with the following: Thank you for your interest in the FM 664 improvement project. Our RTL (Ready to Let) date is May of 2023 and our current letting date is September 2025. The last date can be moved forward if funding becomes available sooner.
				And which end of FM 664 would it start? I live at 1107 Ovilla Road and will log into the hearing on July 9.	I cannot answer the second question fully at this time. The plan is to construction the entire project at once and not necessarily start at one end of another. Those details will be worked out when the detailed construction plan are developed.
33	Don Hughes	July 13, 2020	Email	Mr. Underwood, For reference our home is located at 101 Ovilla Oaks, Ovilla, TX and is shown on the map as NB88. (Northeast corner of FM664 and Ovilla Oaks) After viewing the virtual road video of the route of the proposed roadway, I have an objection to the proposed route. (see 3.35 seconds into video) It appears heading south from the Red Oak creek bridge in Ovilla, the road goes straight south and at Dusty Oak Trails it purposely veers over west and soon after that the path goes southeast pointing in the direction of my property instead of going straight south. From my best calculation the west side of my home will be 32 ft. to the sidewalk and approximately 38 ft from the roadway. I am having a problem since the west side of FM664 across from my home has no houses that are near the road, only a 8 ft. concrete fence. It appears there is plenty of room to the west and the road would not interfere	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Hughes on July 14, 2020 with the following: Thank you for your interest in the FM 664 project. My responses to your concerns and questions are below in red. If you have any further questions or concerns there will be an in-person meeting by appointment only at the TxDOT Ellis County Area Office between 10:00 am to 2:00 pm and from 4:00 pm to 7:00 pm. The number to call for an appointment is (214) 716-4577.

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				with a private residence if moved over to the west. My wife and I have lived next to FM664 since 1995 and have had no real problem with that until now. Here are our issues:	
				Why is the road coming closer to our home when there is plenty of area to the west?	We will be acquiring right-of-way off of both sides of the existing roadway. The alignment was established based upon minimizing the impacts to the Ovilla Church of Christ and some residents to your south along with getting the alignment of FM 664 set to utilize the existing bridge over Red Oak Creek. We have done everything that we can do to minimize the impacts to your property.
				Our home will have a better chance of being hit by a vehicle leaving the road and colliding into our home. Also, note our bedroom is on the west side of our home.	The existing posted speed in this section of FM 664 is 45 mph and we are proposing a design speed of 40 mph. With adding curb and gutter, sidewalk and lower design speed the likelihood of a car jumping the curb is greatly reduced and a vehicle departing the existing roadway today with no other obstacles in its path.
				The market Value of our property will be reduced due to the location of the roadway.	The additional right-of-way needed from every affected property owner along the entire corridor will be fairly compensated for the value of the property being acquired.
				The traffic noise level will increase.	With the reduction in speed and the building of new pavement will actually have the opposite effect. Lower speeds means lower noise levels and concrete over what is out there today will also work to reduce noise levels.
				We would appreciate someone contacting us to discuss this matter. Thank you.	I will be at the Ellis County Area Office in Waxahachie July 14th between 10:00 am and 7:00 pm to answer any additional questions you might have (by appointment or advanced notice). I will not be able to answer my phone so the at the top of the email will get you an appointment time or at least notify us that you will be coming. All CDC protocols will be followed with temperatures taken and masks required for the in-person portion of the public hearing. I will be glad to contact you after the 14th and talk to you over the phone.

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34	Elsa Espinoza	July 14, 2020	Email	We live at 710 Mason Lane. As it currently stands on the project location map, the road and sidewalk will be right on our fence line and will back up onto our property.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Espinoza on July 16, 2020 with the following: For the improvements to FM 664 to occur and to make the existing roadway safer, TxDOT has eliminated all of the sharp curves along the entire corridor of FM 664. In this particular section we have eliminated the sharp curve at Mason Lane and increased the sight distance for people coming out of Mason Lane to make both left and right turning movements.
				The project will increase traffic, noise and the risk of vehicle accidents that can run into our property.	The project has been designed to accommodate the additional traffic that will be using this road due to the increase in growth that is happening in this region of the metropolitan area. The risk of vehicles running off the road with the current design will be significantly less than the current design with the sharp curve at the end of your back yard. With the design speed beginning reduced to 40 mph, vehicles will be going slower, noise will be lower and the risk of accidents will be reduced. (As a separate note from Mr. Underwood's response, refer to the Traffic Noise Analysis Report available online at http://www.keepitmovingdallas.com/FM664 .)
				For the safety of our family, animals and to prevent disruption of our quality of life in our home, due to noise pollution and vehicle accident risk factors, we require a barrier divider (concrete fence barrier) between the road and our property.	We do not build barriers (concrete fences) for noise reductions or safety when the proposed roadway is sufficiently far enough away from structures that an errant vehicle not impact it or it is not reasonable or feasible to build a noise wall if 1.) the noise levels do not exceed what is required to do noise abatement and 2.) if it is not reasonable financially to build such a wall.
35	Janice Harp	July 24, 2020	Email	I have 5 acres located at 3715 FM 664. Can you tell me how much of that would be required for this project?	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Harp on July 27, 2020 with the following:

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					The approximate right-of-way required for the improvements to FM 664 is 11,425 square feet or approximately 0.26 acres.
				Also I am wondering if this project was the reason my tax appraisal doubled on this property for 2020?	This project has no bearing on your appraisal on the property or its added tax burden.
36	Jose Montoya	July 18, 2020	Comment Form	After viewing the virtual presentation, I want to confirm provisions for a driveway for each property located at 3618 Ovilla Rd. and 3616 Ovilla Rd. In the virtual presentation it looks like the 3618 drive is coming off of FM 664 and for 3616 the drive appears to be coming off the new Cul de sac in the current bypass road. If this is the case, I appreciate your consideration. Please advise.	Driveway access has been provided for both properties.
37a	Leo Wrobel	July 23, Email 2020	Email	First, a quick heads-up about your website Nelson, http://www.keepitmovingdallas.com/FM664 is unavailable. I was hoping to log in and get a recap on the July 9, 2020 public/virtual meeting before submitting these comments. Anyway I thought you would like to know the site is having problems.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Wrobel on July 27, 2020 with the following: The web address is incorrect to go directly to the location that the FM 664 project is located in. the correct address is: https://www.keepitmovingdallas.com/FM664. I have tested this address and it will take you directly to the project location. You can also reach the webpage by going to www.keepitmovingdallas.com, click on the Public Hearings/Meetings at the top of the page, find the third row down on the list and click on that and it will take you to the website that contains all of the information you are looking for concerning the project.
				Last year my wife (Sharon Wrobel) and I expressed concerns about losing a long row of mature trees on the west side of our property at 100 Ovilla Oaks. Those same concerns persist. The loss of those trees will adversely affect our property value by greatly diminishing the curbside appeal of our	During the appraisal process you can bring up the trees, lack of shade, curb appeal, impact to property, noise, etc

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				property from the Ovilla Road side. Moreover, the trees are almost 40' tall now and shade our home to a great extent from the western sun. Their loss would significantly raise our utility bills in the summer. 2. I reaffirm and reassert the concerns I expressed to you in the email string below, as well as in the attached pictures, including but not limited to the inclusion of a noise reduction sound wall. You noted below that such a sound wall could be considered if the cost (per receiver) did not exceed \$25,000. The three houses in Ovilla Oaks (mine included) that will be in closest proximity to FM 664 would clearly benefit, particularly since we cannot imagine how a 6 lane concrete road less than 30 feet from our home would not exceed a 67dB noise level, especially if the speed limit is raised from the present 45Mph. It will be particularly noisy if the same road elevation is maintained since it's several feet above the level of our driveway. A small rise on the other side of the bar ditch was apparently installed by the original developer and at present cuts the noise a little, but this rise could also disappear since sidewalks will be installed in its place.	Although it may seem that it is counter-intuitive, a lower profile to the roadway, lower speed limit and different riding surface will all contribute to a reduction in the noise level. The criteria (\$25,000 per benefited receiver) has been increased to \$50,000, however because you and your other two neighbors are on large lots, the length of your properties are along FM 664 and even with the new criteria a sound wall would still not be feasible (could not build a 8' tall wall for less than \$50,000). (As a separate note from Mr. Underwood's response, refer to the Traffic Noise Analysis Report available online at http://www.keepitmovingdallas.com/FM664 .)
				3. I offer a couple of new suggestion in addition to those already voiced. First choice is to move the road over a few feet to the west on the Church of Christ side of the road. This would not hamper them or their parking lot. Failing that, it seems that part of the right of way you will require from us will be for the sidewalk. It might be possible to integrate the sidewalk with my existing trees, in fact, it	Pushing the roadway alignment further onto the Church of Christ property would further impact their ability to hold services and accommodate their parishioners. There is a financial component to that suggestion which would only compound the issue for them further. There are certain things that we like to stay away from if at all possible (churches, cemeteries, post offices, fire stations, schools, historical site, parks, etc.). With regards to the tree suggestion, that is something that will need to be

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				could be very aesthetically pleasing if done thoughtfully. 4. Finally I am interested in when TXDot will want to begin negotiating with us about the right of way so we can advise our attorney. Please don't take that last comment the wrong way, we are not by nature litigious but the stakes could be high for us and it just is what it is. I could not tell if a date was announced since the website is down. Thanks for your understanding on this point and for not taking offense to it. I sincerely appreciate your consideration and anything you can do Nelson.	coordinated your local elected officials, TxDOT Area office and the design consultant. The project is slated for environmental clearance in Fall 2020. All ROW mapping should be concluded by November of this year and appraisals should start sometime around these two time frames. ROW acquisition should be completed by February 2022. Just bear this in mind, if this heads to eminent domain you will not get less than the state's initial offer and any attorney's or appraisal fees are a burden that you will carry and not the state.
37b	Leo Wrobel	July 27, 2020	Email	Good morning Nelson, and thanks again for the thoughtful answers. Always appreciated. Everything you say makes sense, but I have a question about your reply to #2 below as regards "lower profile to the roadway, lower speed limit, different riding surface." Obviously if the speed limit were lower and the grade of the road were not elevated this would reduce the noise. Are either of these in the plans? It would make a big difference.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Wrobel on July 27, 2020 with the following: The current design speed for this roadway is 40 mph. This could change based upon several factors, the first is the results of a speed study based upon the 85th percentile of the average speed in a 24hour period and the second would be if the City of Ovilla requested a speed limit change to an even lower speed limit entering into town. The profile of the roadway will be several feet lower than the existing roadway today. Any final profile changes will occur when the construction plans are finalized.
				Second, with regard to surface, you are quite correct. The county paved with a textured surface some years back and the noise increased significantly. When they went back to a smooth surface it improved a lot. What kind of surface is planned for this section of road? My assumption is as a more "urban" roadway it would be a surface improvement in favor of reduced noise.	Currently the roadway design has planned for a concrete riding surface however it can change to an asphalt riding surface if the design warrants it.

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				BTW, there is a limit on wall height in Ovilla of 6 feet. My neighbor in that big estate across the street had to get a variance to go to 7 feet, I was remotely involved in that process. Would this make a difference if it were 6' and not 8? It may not matter much though depending on the other factors - profile, speed limit and surface - as you point out.	It is shown that a 6' tall wall has little to no effect on noise reduction.
39	Mark Stanfill	July 18, 2020	Comment Form	As FM 644 curves south towards Main St., this is considered a business corridor. There needs to be a median cut at just south of 3357 Ovilla Rd. with puts a midway road back to Main St. to the east. Not putting at median cut (turn lane) will kill economic growth in Ovilla Business Park. On road maps (old) there was/is an established road at his point. This connects Main St. to Ovilla Rd. and will allow development both east and west of this section of road.	Median openings were determined in coordination with local government. Final location of median openings will be determined in the PS&E development phase in coordination the local governments.
40	Marvin Wilkins	July 14, 2020	Email	I live at 1150 Westmoreland Rd. near cross street Mattie Ln. I have approximately 40 acres here with road frontage. My home sits close to existing road so of course I am worried about losing any of my yard. If Westmoreland is widened. Can you give me any proposal maps that might alter my property. And any up to date reports on 664 project I can study. I had planned to build 2 properties on my land on Westmoreland and would like to ASAP of an possible set backs that might happen.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Wilkins on July 14, 2020 with the following: Thank you for your interest in the FM 664 project. Westmoreland Road is an off-system roadway and is either controlled by the County of the City of Ovilla. TxDOT has no plans to do anything with Westmoreland Road other than make the proper connections where Westmoreland Road intersects FM 664. Information on FM 664 can be found on the following website: http://www.keepitmovingdallas.com/FM664 .
41	Mel Hornung	July 17, 2020	Email	Greetings. I am writing today to express my opposition to the expansion of Ovilla Road. I live at 3814 Ovilla Road. I drive to Waxahachie many times a week and I disagree that it needs to be expanded. I will say that the section from Westmoreland to Shiloh could be expanded but not between Shiloh and 287. There is just not	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mel Hornung on July 17, 2020 with the following: Thank you for your comments on the FM 664 improvement project. I will see to it that your comments are made a part of the environmental record.

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				enough traffic on that section of Ovilla Road to warrant the investment of expanding the road. Besides, there was just a complete re-do a couple of years ago that added width to the road. Another reason I oppose this project is because it would require removing my very old and beautiful trees. My mother planted those trees 45 or so years ago. It would be a tragedy to remove them. One problem that needs to be resolved is the barricades that were placed on the roads at the curves. I suspect that trailers are damaging those barricades requiring them to be replaced every couple of months leading to a waste of money. Perhaps widening the road and moving the barricades farther out at those curves would resolve the problem for people that can't drive. Thank you for allowing me to express my opposition and suggestions. I hope you will drop	
42	Otis Hinson	July 10, 2020	Comment Form	this project at this time. Was happy with the first proposed map that at Waxahachie Civic Center because it was going to take our house at 3309 Ovilla Rd. the new proposed map has traffic at my front door. So what we liked about the house was sitting on the porch watching kids play "grandkids" and now we will worry about traffic hitting the house, there has been 2 accidents in in front of our house. 1 had a death the other severe injury. One was 2 trucks, other single car. I understand progress, but I hate it was going to cost us such a price.	The existing posted speed in this section of FM 664 is 45 mph and we are proposing a design speed of 40 mph. With adding curb and gutter, sidewalk and lower design speed the likelihood of a car jumping the curb is greatly reduced and a vehicle departing the existing roadway today with no other obstacles in its path.

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43	Pamilee Koval	June 15, 2020	Email	Hi Nelson, we spoke several months ago after one of your meetings in Ovilla. My name is Pamilee Koval a longtime resident in Ovilla. I am the owner of 839 E. Main Street (Edward Jones) office. Wanted to remind you of situation and praying you can help us. My family has plans to open a coffee shop in that building. We have rented it to Edward Jones for several years and their contract is ending in November. My oldest son just moved back home 2 months ago to start the planning for our new family business. I am not interest in any amount of money for my land. I am a single mother and this has been our dream for several years. We are finally in a situation where both the boys can take the project on. The name of the shop is "Cast Iron Coffee". We have already completed most of our prep work. God has opened the doors for us and working in his timing is our goal. I was raised on a farm in Michigan, my mother who is gone shared much wisdom. She always told me to "Buy Land". I did, I saved, I've been committed for years to be a diligent worker and help my children start their own business. As a mother this means that both my boys will live in the area and raise their children here. Like I said I am from Michigan, I'm single and have NO family here except my children. I am asking for Grace of sparing our land and building for the future of my kids. No amount of money can mend a dream we have been working on for the past 3 years.	I understand your and concerns. However, in this particular area, we significantly reduced the need for ROW from the 60% schematic and the final approved schematic by reducing the roadway footprint. The approximate right-of-way required for the improvements to FM 664 in your property is 3,445 square feet or approximately 0.08 acres. This was reduced approximately 60% from the previous submittal in the March 2019 Public Meeting. The additional right-of-way needed from every affected property owner along the entire corridor will be fairly compensated for the value of the property being acquired. During the ROW acquisition, your property will be appraised using fair market value of similar properties and any amenities that would be affected by this improvement project will be part of the appraisal. You will have an opportunity to present your proposal for compensation when the ROW acquisition begins. During the appraisal process you can bring up the impacts to property that you have expressed here for consideration.

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		June 19, 2020		Mr. Underwood, is it possible for you to send me a copy of the new plans. We are trying to work out parking spaces and possible drive-thru window. Also will there be a light at the corner of Main and Ovilla Road?	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Koval on July 19, 2020 with the following: Thank you for your interest in the FM 664 project. I have attached a link to the website which has the current schematic which will be the same one displayed for the public hearing. With regards to a traffic signal at Main and FM 664, we (TxDOT) do not look at the need in the preliminary engineering (Schematic and Environmental) for traffic signals, that is looked at in greater detail in the development of the construction plans. There will also have to be a request from the local government to TxDOT for a signal warrant study. http://www.keepitmovingdallas.com/FM664
44	Ray Rogowicz	July 15, 2020	Email	I am writing you concerning my property located at 3324 Ovilla Rd/ FM 664 of which I am the owner along with my wife Tamara, of the property. I am also the President and majority owner of the business EXHIBITTRADER.COM, Inc. which is currently long term leasing said property. I am requesting a conversation regarding further clarification of the property as I was under the assumption based on my original meeting in Waxahachie that the property was falling under eminent domain, leaving me helpless to see or move since that date over a year ago. In the virtual presentation proposal of July 9th delivered on http://www.keepitmovingdallas.com/FM664 , the new plan, as I understand it, now shows the property remaining but EXTREMELY compromised as to its roadside visual esthetics, resale value and curbside retail appeal and logistical business	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Rogowicz on July 16, 2020 with the following: Thank you for your interest in this project and your comments. I would first encourage you, if you have not done so already, to fill out a comment form or write a letter detailing all of your concerns including the ones in this email. I attempted to contact you yesterday and will attempt to contact you tomorrow.

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				usefulness due to door ingress/egress, safe delivery access, sufficient parking, space allocation, not to mention a massive retaining wall dissecting through the front of the entire property and incredible drainage challenges to come just to name a few hardly a working solution. I left you a phone message earlier, please call me to further discuss your plans for my property and business as it is my understanding that this is the final presentation prior to funding and letting the bid. In the letter and presentation it stated all concerns, which I have many, needed to be addressed to you directly prior July 24th 2020.	
		July 29, 2020		Sir, I am enclosing this email by the deadline of March 29th 11:59pm in lieu of the PDF form provided as it was not large enough online for this discussion addressing concerns regarding my commercial front property: EXHIBITTRADER.COM, Inc. 3324 Ovilla Rd. Ovilla, TX 75154 I was originally and shockingly shown via illustrated maps and by TxDOT employees at the earlier meeting in Waxahachie, that my commercial property was "diagonally green lined" out, designating total state purchase along with another small older residence in town. In my specific case, I was told there was no way to	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Rogowicz on August 3, 2020 with the following: Thank you for your comments on the FM 664 proposed roadway improvement project through Ovilla. I have attempted to contact you several times to discuss the improvements. I will respond to your comments below. If you have any further questions or concerns I can be contacted via the contact information below. One more thing after I have answered your concerns below is that the schematic and environmental clearance process is to identify constraints, minimize those constraints, set the preliminary horizontal and vertical alignments and setting the ROW footprint to make sure that we can acquire all the ROW needed to construct the

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				rationally deal with the drastic changes in elevation, comply with city codes and provide safe and logistically feasible ingress/egress to and from the property for my employees or for deliveries and also address drainage issues as it is designed to today. This was due to the proposed massive retaining wall going down and through the entire front of my property; a wall marginalizing my entire parking functionality, retail appeal, not providing my business with even adequate fire lanes for safety, which I abide by today. This earlier determination left me as the property owner and my company directive of further expansion in a total lurch, unable to sell a property being condemned for all to see on record, unable to expand my building for growth while still paying very high property taxes and now I get this proposal, leaving me with some ridicules alternative dreamed up as a some designer as an answer for which I completely contest as any kind of feasible solution. I'll explain:	project. This is preliminary engineering and is not set in stone at this point. It is still subject to change with regards to certain elements of the design (median openings, vertical alignment, etc.). I strongly recommend that you work with your local elected officials and the TxDOT Area Office during the further development of the project.
				1) The blatant visual and retail impact to my overall property and building exposure compared to as it stands today will be devastated by a giant concrete wall, leaving little to no public view from the building or from the road or leaving signage visibility due to codes. The cost to overcome such exposure is not feasibly possible by some randomly narrow right of way purchase or illogical design in an effort to overcome the cost of a fair and complete purchase out of the property. 2) Parking, usability for employees, both during and after construction of such a wall would be beyond hindering to the business and unsafe for employees, clients and vendors during the entire construction process, completely restrictive in	What we have done with the roadway improvements is to lower the roadway profile by from where it is today, narrow the overall roadway footprint to lessen the impact to your property and slope the pavement to help with the difference with grade for your property and the Shell station across the street. The concrete wall would replace the rail road tie wall that exists today and will serve the same function as the existing wall does. Your concern about visibility for signage should not be affected. As I stated above the proposed retaining wall would replace the existing rail road tie wall that exists today. With this proposed wall you will have more room for your parking lot movements which you do not have today. Your concern about access during construction is an issue that

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				nature should it be even survivable during the complete construction effort. The space required just for equipment and materials will be all consuming of the property and dangerous; liabilities from all directions.	will be handled during the development of the final construction plans. During construction, it will be phased so that access to your business will remain in place.
			3) Safe ingress/egress in and out of the property, via entering some makeshift retaining wall/tunneling method? Dangerous sight lines, two vehicles or trucks trying to enter and exit simultaneously on and off a now very busy roadway with no suicide lanes for turning in and nowhere to go but in reverse getting out of the retaining wall maze to give access in from a busy roadway Dangerous is not even a word to describe the liabilities and safety concerns at hand.	The location of the median openings are not final and can be adjusted during the PS&E process in coordination with your local government officials, the TxDOT Ellis County Area Office and the TxDOT Project Manager. With the lower design speed and median openings which allow safe refuge to turning traffic this will help with the ingress and egress issues that you have identified. With setting the roadway improvements for a interim 4-lane with wide medians to an ultimate 6-lane with medians, it is not conducive for implementing a continuous left turn lane (which in itself is a dangerous configuration). The purpose of the wide medians is so that when traffic demand/roadway capacity gets to the point where the interim 4-lane section cannot handle the additional traffic demand we can expand to the ultimate 6-lane section without have to acquire any more ROW in the future.	
				4) Dangerous and destructive drainage, water running down 664 in a heavy gully washer will find the first opening to the creek, in this design, that opening will be that curved maze of driveway that will also be adjusting to elevation downward. severe property erosion and flooding is inevitable to my property.	With the proposed roadway typical section going from a 2-lane undivided roadway with no curb and gutter to a concrete roadway with curb and gutter section, curb inlets will be located along the roadway to collect storm water runoff from the roadway and collected in a storm sewer system which will then be routed to an outfall at Red Oak Creek. Where curb inlet locations will be determined during the development of the detailed construction plans.
				5) Lastly, God forbid a horrible automobile or truck accident occurring above my building on the elevated highway; hurling vehicles, trailers or towed product over the retaining wall straight down onto my physically occupied building or parking lot while in use.	One of the purposes of reducing the design speed is to help prevent/reduce accidents, making for a safer roadway and add capacity for the expected growth in the region. Part of the design is the curb and gutter system. The concrete curb acts as a barrier that helps with directing/keeping vehicles within the roadway paved surface. During the construction plan development there

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				I get progress, I understand planning and sacrifices for growth, however I'm not interested in it being solely at my family, my businesses and my employees expense for the sake of 664. This is my families long term rental income, my national business location and my investment into the incredible appreciation currently be realized within this thriving community, Red Oak and all it's surrounds; the exact reason for your expansion in the first place. I humbly, yet reasonably, venture to say, the overall direct impact and potential loss to my family and my business with regards to this project is greater than "anyone along your entire corridor." I feel this proposal to be both irrational in concept and unmanageable in reality as proposed in order for me to prosper as it is slated currently by the State.	is the possibility that a barrier rail (concrete or metal beam guard fence) can be used to prevent such an occurrence from happening.
				I get progress, I understand planning and sacrifices for growth, however I'm not interested in it being solely at my family, my businesses and my employees expense for the sake of 664. This is my families long term rental income, my national business location and my investment into the incredible appreciation currently be realized within this thriving community, Red Oak and all it's surrounds; the exact reason for your expansion in the first place. I humbly, yet reasonably, venture to say, the overall direct impact and potential loss to my family and my business with regards to this project is greater than "anyone along your entire corridor." I feel this proposal to be both irrational in concept and unmanageable in reality as proposed in order for me to prosper as it is slated currently by the State.	The goal when developing future improvements from an existing 2-lane roadway to an interim 4-lane/6-lane ultimate roadway is to minimize row impacts as much as possible and to not impact one side more than another. With the Shell station across from your business it created a constraint upon where ROW could be acquire. In this particular area, as I have described in answers above, we significantly reduced the need for ROW from the 60% schematic and the final approved schematic by reducing the roadway footprint.

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				I feel the State has an obligation to make my family and my business monetarily whole as to our future based on its Keeping Dallas Moving Agenda.	During the ROW acquisition, your property will be appraised using fair market value of similar properties and any amenities that would be affected by this improvement project will be part of the appraisal. You will have an opportunity to present your proposal for compensation when the ROW acquisition begins.
				I strongly suggest TXDot rethink its project plan proposal for 3324 Ovilla Rd. in an effort that your future may easily, and most of all, safely be realized as well.	Comment noted.
45	Robert Aday	July 10, 2020	Email	I and members of our church in Waxahachie being First Christian church 1109 brown st were on the Virtual Public hearing last night and had some questions. We own 47 + acres on Fm664 and would like to know how much of our acreage you will take and how much per acre you will pay the church?	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Aday on July 10, 2020 with the following: It looks like approximately 8 acres will be acquired for ROW purposes.
				When will you start acquiring ROW?	ROW acquisition will start sometime the first of 2021 and scheduled to be completed by February, 2022.
				We have a farm exemption and have a lessee using the acreage now and need to know.	The ag exemption would be something that the appraiser could take into account when the property is being appraised.
				We were unable to determine any of these issues last night in listening to the Public hearing.	Issues such as ag exemptions, zoning, etc., are looked at during the appraisal process and is not a function of the schematic or environmental process.
				We heard unfunded now and mention of 2023. Does this mean you will not start ROW purchases until then?	Currently the project does not have any construction funding however right-of-way acquisition should be completed by February 2022 and ready to let for construction by May of 2023 depending upon funding.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
46	Sheryle Wolf (Wolf's Den Ranch)	June 14, 2020	Email	I live at 1001 Ovilla Rd Waxahachie. Approximately 4 or 5 years ago Texas DOT spent hundreds of thousands of dollars putting in new culverts and re-asphalting the road. You are now asking for us to go through all the crap again. There is NO REASON to widen the road. My suggestion is put in a center turn lane. Leave the S-curves alone, they give Ovilla Rd character and slows down the speeding traffic. I STRONGLY OPPOSE this construction. I was told at a meeting years ago at the Red Oak Community Ctr that this was being done to make a straight line driving road. Excuse me but Hwy 287 starts in Corpus and goes to Canada. I-45 starts in Houston and goes through Dallas. I-35 starts at Laredo and goes all way up to Canada, what more of a straight line do you people want. This construction is a COMPLETE waste of Tax Payer money. You would be taking approx. 60 feet of my property to widen the road which I DO NOT agree to. The people at Settlers Glen paid a lot of money and widening this road would be right up against the stone fence. The noise, dust, and inconvenience to get into our driveway/properties is unacceptable. The inconvenience and DANGER to get to our mail boxes is also unacceptable. When the road was re-asphalted years ago my mail box was destroyed by your construction equipment and I made TXDOT replace my mail box. It ended up that TXDOT had to replace many mail boxes. We consider this area rural and want to keep it that way. Widening the road would create more noise, more traffic, and worst of all more speeding cars. There is a lot of livestock in this area and speeding cars hit livestock it would be a killing field for the animals and people. In other words DO NOT WIDEN OVILLA ROAD. Like I mentioned	As part of the proposed improvements to FM 664, the current proposed design would eliminate the sharp curves within the project limit. With the reduction in speed and the building of new pavement will actually have the opposite effect. Lower speeds means lower noise levels and concrete over what is out there today will also work to reduce noise levels. The existing posted speed in this section of FM 664 is 45 mph and we are proposing a design speed of 40 mph. With adding curb and gutter, sidewalk and lower design speed the likelihood of a car jumping the curb is greatly reduced and a vehicle departing the existing roadway today with no other obstacles in its path.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
				above - just put in a center turn lane, that is all that is needed for this rural area.	
		July 10, 2020	Comment Form	Several years ago went thru re asphalting, culverts and bridges. Put up with the dust, noise and torn up mailboxes. If your doing this now that back then was a waste of tax \$. Leave Ovilla Rd. alone. This is farm land and animals could get killed as well as people hitting those animals. The 5 curves help keep the speeders down. I strongly oppose this. Just put in a turn lane. That is all that is needed. LEAVE OVILLA RD ALONE!! This project sucks.	As part of the proposed improvements to FM 664, the current proposed design would eliminate the sharp curves within the project limit. With the reduction in speed and the building of new pavement will have the opposite effect. Lower speeds means lower noise levels and concrete over what is out there today will also work to reduce noise levels. The existing posted speed in this section of FM 664 is 45 mph and we are proposing a design speed of 40 mph. With adding curb and gutter, sidewalk and lower design speed the likelihood of a car jumping the curb is greatly reduced and a vehicle departing the existing roadway today with no other obstacles in its path.

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47	Veronica Lebron	July 10, 2020	Email	My family will be affected by the road expansion of FM 664 because of noise levels, inconvenience, and property value decrease. I am against this road expansion. My daughter is special needs and cannot tolerate too much noise or she becomes extremely stressed. We will not be able to escape the noise because of where our house is near FM 664. My home faces FM 664 and our property value will be negatively affected by this expansion. Will we be offered compensation?	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Lebron on July 10, 2020 with the following: Thank your interest in the FM 664 improvement project. Only properties that are directly adjacent to and impacted by the proposed right-of-way acquisitions along the project corridor will have any type of compensation. The roadway improvements are needed for safety and mobility reasons and how we provide greater safety is by lowering the speed limit, placing median openings in to help protect turning traffic and using a urban style (curb and gutter) roadway section to help calm traffic. With the lower speed limits and a more improved roadway traffic noise will actually be reduced. Thank you again for your comments and If you have not filled out a comment form I would recommend you do so
48	William Gravely	July 22, 2020	Email	Your proposed highway map for referenced project shows a drainage easement onto my property between East Highland Road, and Slippery Creek Street. I can find nothing in my records to confirm this easement exists. Ellis County Assessor's office records indicate no easement exists. Storm water run-off from FM 664 causes significant damage, both physical and environmental. It causes considerable erosion and damages to my north fence requiring constant vigilance and repair. The environmental problem is time consuming and hazardous to livestock. In policing my pasture, I find metal, plastic and glass drink containers, fertilizer bags, shopping bags and golf balls to name a few items.	that we can have a record of your comment. There will be proposed drainage easement and the additional easement/ROW needed. All affected property owners along the entire corridor will be fairly compensated for the value of the property being acquired. All ROW mapping should be concluded by Fall/Winter of 2020 and appraisals should start sometime around these two time-frames. ROW acquisition should be completed by Winter of 2022. A separate drainage study has been conducted for FM 664 to ensure that the proposed improvements do not result in adverse impact to property owners beyond the limits of the TxDOT ROW. The proposed drainage structures are sized based on current hydraulic design frequencies.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
		July 13, 2020	Verbal Comment	On more than one occasion I have had to corral a cow to remove a plastic bag they could not expel. Last year (2019) I had a prime young bull die from what I attribute to eating something washing into the pasture. You propose to enlarge the culvert under FM 664, located between Highland Rd., and Slippery Creek St. by one third. This can result in me getting more water flow and trash, and causing more problem for me. I request an appointment in person or by phone to discuss these problems and may be contacted at the above address or my listed phone number. My name and address is William E Gravely, 3720 Ovilla Road or FM 664 Ovilla, Texas 75154. My comment is your state highway map of the new construction project shows a drainage easement onto my property that I do not believe exists. There is no record of it on my survey nor in my deed. However, there is a drainage or there is an easement the state highway has an easement further north past Slippery Creek Road on the adjacent property, but for mine, it does not show any. Also on this thing, before you did the last project improvement I didn't get quite as much water and junk as I'm getting now. Actually I'm getting all kind of environmental junk and if you Increase the size of the Culvert that you're showing on this map, then you're going to increase the water flow onto my property by another 3rd. And this is tearing the fence out on the north end of my property at the end of that drain. My fence has to be replaced. I have to do it at least once a year and sometimes twice with	There will be proposed drainage easement and the additional easement/ROW needed. All affected property owners along the entire corridor will be fairly compensated for the value of the property being acquired. All ROW mapping should be concluded by November of this year and appraisals should start sometime around these two time-frames. ROW acquisition should be completed by February 2022. A separate drainage study has been conducted for FM 664 to ensure that the proposed improvements do not result in adverse impact to property owners beyond the limits of the TxDOT ROW. The proposed drainage structures are sized based on current hydraulic design frequencies.

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				this water washes everything out. I feel I should get some assistance in getting this thing fixed, but I also feel that you guys are wrong in showing your drainage. If you would, please have someone return my call at 972-576-8751. I thank you.	
49	No Name	June 11, 2020	Verbal Comment	115 South Westmoreland Road, Waxahachie, Texas.	Comment noted.
50	Jenny Wade	June 23, Verb	Verbal Comment	Hi, my name is Jenny Wade. I live at 606 Creekview Court. 75154, Ovilla, Texas. I have a complaint that your people are putting in the road on Ovilla mostly at my property at 2525 Ovilla Road. They have busted a water meter that cost 300. I had a circular drive, they were only putting one drive way in. I've talked to the man, at the construction, several times. And his attitude is did I say to do it, no, and neither did you. I have complained before and nothing has been done. And then if you come into Ovilla, I have more property that you're going to interfere. So if you would please call be back at 214-546-9532. That is my cell. Thank you.	The construction in the 2525 Ovilla Rd area is being managed by the TxDOT Ellis County Area Office. Please contact your local area office for assistance regarding complaints during construction.
		June 30, 2020		Hi Jenny Wade. My address is in Ovilla, Texas. I'm calling about my property on Ovilla Road at 2525 Ovilla Road. It seems like no matter what I do, they take advantage of me. If you would please call me back, I'll explain it. 214-546-9532. Thank you.	Comment noted.
		July 7, 2020		Hi this is Jenny Wade. I own the property in Ovilla on 664 Farm Market Road. You will be coming this way from 287 to Ovilla. I would like to talk to somebody. I just saw a map about my land. You can reach me at 214-546-9532. Thank you.	Contact information regarding TxDOT point of contacts along FM 664 can be found on the following website: http://www.keepitmovingdallas.com/FM664

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51	Rick Greenberg	July 20, 2020	Verbal Comment	Name is Rick Greenberg. Address 3401 Ovilla Road. That virtual meeting didn't provide where the boundaries are and I think that I'm going to be adversely affected about as much as anybody. Going to take, I'm not sure how much land they are going to take. What they are going to do with the water where it's going to go. So I called for an in person meeting, but no body is answering. I need like maps or something. Cuz how much land is going to be taken from my property and what's going to happen. Because I live right on Red Oak Creek and it looks like you are going to take quite a bit. It's going to adversely affect my domicile. So telephone number is 214-716-9321 or Richard Greenberg@gmail.com. Or gmail 150.com.	The approximate right-of-way required for the improvements to FM 664 is 13,720 square feet or approximately 0.32 acres. You can reach the maps webpage by going to http://www.keepitmovingdallas.com/FM664.
52	Michael W Thompson	August 10, 2020	Verbal Comment	Michael W Thompson 8250 Slippery Creek Street in Ellis County. I live adjacent to a proposed high-density apartment complex that is planned to be built at the intersection of 664 and Slippery Creek Street. Now there's the apartment complex has proposed to be constructed immediately prior to the widening 664. It's a very dangerous situation right now. It will be even ten times more dangerous by increasing the number of vehicles turning off on this ridiculous two-lane road right here that is apartment complex. Now, there will be fatalities, who is responsible for this? I cannot believe that this apartment complex is going to be built prior to the widening of 664. There will be traffic accidents. Who is responsible for this? Mike Thompson 8250 Slippery Creek Street. My phone number is 972-921-6293. I'm going to get a letter to all the parties responsible for this disaster immediately today. Thank you, call me, please. If you can. I think Nelson Underwood may be in charge of this. I don't know. Thank you.	Comment noted.

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53	Coray Bell	July 29, 2020	Email	I'm writting regarding the widening of FM664. I understand that the city of Waxahachie among other surrounding cities are growing. However there is some cause for concern regarding this project. The project with 35E was awarded to OHL USA Inc, in August of 2015. The project started in March of 2016 and is supposed to finally end in March 2021. As you know this project is to add two additional lanes to 35E, from 4 lanes to 6 lanes. This project was said to be needed due to additional traffic.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Ms. Bell on August 3, 2020 with the following: The State Transportation Commission mandated that the IH 35 corridor be improved from the Rio Grande to the Red River because it is a major freight corridor and that is why 35 is being widened in Waxahachie.
				With this in mind, 35E runs parallel to portions of FM664 from 287 to Red Oak. I question the need of widening that portion of FM664 without fully understanding what impact of the additional lanes of 35E will have with the completion of that project.	FM 664 is a regionally significant arterial that connects US 287 to IH 35E and will provide an alternate route from US 287 to IH 35E.
				With that said, as a resident who lives along FM664, I can testify traffic along FM664 not congested. At times it is busy, but I have taken this road several times and am able to travel at the posted speed limit until reaching a stop sign. I have recorded videos day and night that can testify to those accounts of no bumper to bumper type congestion.	The purpose of the proposed project is to provide infrastructure options to reduce traffic congestion on the existing roadways; to improve operations of the roadway; to increase mobility (including pedestrian and bicycle accommodations); and, to provide improved connectivity to the area.
				My other concern is high speed traffic and noise. As a prior law enforcement officer, I know the dangers of high speed crashes. I have also seen what vehicles can do to residential houses at high speeds.	With the lowering of the design speed and the posted speed, this will create a safer roadway. The only way to reduce the speeding along FM 664 is to enforce the current and future speed limits.
				Throughout the day like many highways there are numerous vehicles speeding on FM664. In some case motorcycles and vehicles are driving in excess of 100 mph. I can testify to that based on	

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			Source	Comment Topic my training and experience as a law enforcement officer. One would say call these complaints in when you see them. As a law enforcement officer I know how that pans out. The officer will be dispatched to the area regarding the vehicle who is now long gone. I could file a report, wasting the officers time and frankly mine. A request for extra patrol could be made and likely granted, given the occasion break ins in this area. Speed enforcement would catch some speeder but in the end officers can not babysit one section of road when numerous other crimes are taking place.	Response
				I believe the widening and straightening of FM664 will allow for a higher amount of high speed fatality wrecks and in some cases crashes into private property possibly even houses, along the highway. I just hope and pray my house is not one of them. In your presentation you mention 4 modeled cases of noise receivers but have will not do anything for them because it is not cost effective. Where are these cases? And if your residence was near one of them would you push for the issue to be corrected?	A traffic noise analysis was prepared in accordance with TxDOT's (FHWA-approved) <i>Traffic Noise Policy</i> (2011). The <i>Traffic Noise Analysis Report</i> (2019), which includes details about the analysis, is available for public review at the TxDOT Dallas District office. Build Alternative: Existing and predicted traffic noise levels were modeled at
					representative land use activity areas (receptors) adjacent to the project that might be impacted by traffic noise and would potentially benefit from feasible and reasonable noise abatement. Modeled noise-sensitive locations were primarily residential, but also included a charter school and its associated baseball field, church, a church playground, and a medical facility gazebo area. The traffic noise

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					analysis determined that out of 48 representative receptors, four were predicted to have noise levels that approach or exceed the FHWA noise abatement criteria or that substantially exceed the existing noise levels; therefore, the proposed project would result in traffic noise impacts (see Figure 7 in Appendix F).
					Noise abatement measures were considered and analyzed for each impacted receptor location. Abatement measures, typically noise barriers, must provide a minimum noise reduction, or benefit, at or above the threshold of 5 dB(A). A barrier is not acoustically feasible unless it reduces noise levels by at least 5 dB(A) at greater than 50% of first-row impacted receptors and benefits a minimum of two impacted receptors. To be reasonable, the barrier must not exceed the cost reasonableness allowance of \$25,000 square feet per benefited receptor and must meet the noise reduction design goal of 7 dB(A) for at least one receptor.
					Noise barriers were not reasonable and feasible for the impacted representative receivers, and abatement is not proposed for those locations. Additional details regarding the barrier analysis can be found in the <i>Traffic Noise Analysis Report</i> (2020). Any subsequent project design changes may require a reevaluation of this preliminary noise barrier proposal. The final decision to construct the proposed noise barrier will not be made until completion of the project design, utility evaluation, and polling of all benefited and adjacent property owners and residents.
					The above text came out of the Environmental Assessment document for this project. There were four receivers located along FM 664 in your subdivision.
				In addition to these concerns, I observed that there is no plans for the intersection of 287 and FM664. Meaning you are widening FM664 but	Currently there is a feasibility study for US 287 from Midlothian to east of Waxahachie which will be looking at continuous frontage roads and intersection

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				still feeding the same traffic flow through a two lane intersection. This area does infact have issues! These issues arise when employees are leaving the Walgreens Distribution Center, students are being picked up or dropped off at the Faith Family Academy. When combining the extra traffic flow from those areas on top of commute traffic this area become a mess at the intersection due to the traffic control devices. Adding additional lanes outside of the area is not going to decrease bottle neck issue at this intersection.	improvements. US 287 and FM 664 are part of that study.
				As a resident of Waxahachie I hate to see money being spent on areas that do not need immediate attention. One area I believe alot of people can agree that needs attention is highway 77 from 287 to 35E. That area is very congested on pretty much any given day. Secondly Patrick Road and Marshal Road is in need of major repair due to potholes.	The US 77 from US 287 to IH 35E is not part of this schematic and will be addressed in a future project. Roadway repairs along Marshal Road and Patrick Road are going to be either a City responsibility or a County responsibility. Both of those roadways are not on the State roadway system.
				In closing I feel as if other important projects are being overlooked. Such as places that need desperate repair or altered to allow for congestion such as highway 77. I feel the widening of FM664 will cause a high volume of noise that will not be corrected and lower property values along FM664. In addition there will be an increase of high speed fatality crashes and damage to property along this stretch of highway. And without any mitigation for traffic flow at 287 and FM664, traffic issues will arise with the additional lanes if traffic were to increase in volume. As stated there is a factual issue at certain times of the day due to the school and Walgreen's traffic. I believe the project should be re-examined after the completion of 35E.	Comment noted.

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
54	Brian Treadaway	July 30, 2020	Email	Thank you very much for the opportunity to provide feedback regarding the upcoming changes to Ovilla Road especially as it impacts Vertical Church and its renter, Firehouse Kids Daycare. We have enjoyed the opportunity in our last meetings to discuss with you this project. You have been gracious, helpful, and understanding. Thursday, November 8, 2018, I was invited to a meeting with TxDot representatives and the officials of the city of Ovilla to discuss initial plans for the widening of Ovilla Road and the resulting implications for our property. In that meeting, I quickly recognized and expressed three concerns: 1. A large amount of the church's front parking area was being taken by the road widening. We already severely limited in parking spaces. Losing the planned amount would severely hinder our ability to function as a church and daycare. 2. The placement of a concrete/grass median with no opening at the entrance of our property would cause the church and daycare to lose the ability for southbound traffic to enter the property. 3. The placement of a concrete/grass median without an opening in front of the property would also create a dangerous traffic condition for busses and vehicles leaving the property wishing to travel southbound, they would be forced to travel northbound, then u-turn.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Treadaway on August 3, 2020 with the following: Thank you for expressing your concerns again. The schematic process is no the final say as to whether a raised median or no raised median is finally built. In the schematic process we show the ultimate conditions based upon our design criteria, directives from Design Division in Austin and in some cases FHWA. I would encourage you to work with your local elected officials and the TxDOT Area Office as the process progress further. When you brought up the beginning configuration of FM 664 with US 287. I said then that US 287 is under a feasibility study and that the intersection will not remain as shown on the current FM 664 schematic. A solution will have to be worked out for them as well and most likely a raised median would be going across their current driveway. As always I am available to discuss the project and explain the decisions made to date.

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				One of the concerns (#1) was addressed by moving the road expansion to the west. For that, we are grateful. At the public hearing held March 5, 2019 at the Waxahachie Civic Center, we were once again made privilege to seeing the upcoming plans. The concrete / grass median remained in place without an opening in front of our property. We appealed the decision, citing the loss of revenue it would create as well as the safety issues that were being created by the fixed median. We suggested a painted median be put in place. We were told that because of the proximity of the church's entrance to the intersection that a fixed median was required. We expressed our appeal in writing through the many that attended that event. As we were made aware of the latest plans, this virtual public hearing, and the virtual flyover plan, it is apparent that our appeal has been denied. The fixed median still exists in the plans, thus creating a loss of access, loss of revenue, safety issues for trucks, busses, and fire trucks entering the property, and the resulting safety issues of vehicles forced to u-turn at the intersection or north on Ovilla Road. Some have suggested: Creating entrance to our property from the Main Street side. The only road access from the Main Street side of the property on the west to the Ovilla Road side of the property on the north is a one lane access road that does not allow for the amount and kind of traffic that would be necessary.	

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
Number	Name	Received		 Creating an entrance/exit on the south side of the property onto Main Street. This creates two problems: There is not enough space between Main Street and the physical buildings on the property to create a road large enough for primary access, the required two 90 degree turns needed for busses, trucks, and fire trucks. There is not enough distance between that proposed access and Ovilla Road thus creating a traffic problem for those waiting at the light. We come to make our appeal again for a painted median in place of a fixed median. We would cite the circumstances that exist in almost identical plans for the Walgreen Distribution Center located at the intersection of Ovilla Road and Highway 287. Their entrance, like ours is fixed with truck and vehicle traffic. Their volume of traffic is daily like ours. Their access is dependent on their viability. Their entrance is the same proximity as ours is to the intersection. See: https://www.youtube.com/watch?v=bUziyfWe XO at the 19 second mark We would ask that you consider a painted median for our application as well. We see that it can serve our situation in much the same way as the Walgreen Distribution Center and school that is located across from it. Losing access from Ovilla Road to our property makes our existence at this location irrelevant, unsafe, and financially unfeasible. 	

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				We appreciate your work and look forward to your response.	
55	Brian Poss and the Glen Highlands HOA Board	July 24, 2020	Email	We represent the HOA for the Glen Highlands subdivision and have comments and questions in regards to the FM 664 road widening project. We have attached a Word document and a PDF version of it for your review (both contain the same information). We look forward to receiving your answers and any additional information you can provide. Attached Letter: After reviewing the July 9th presentation, the HOA Board for the Glen Highlands subdivision has some topics and questions which will help us determine the impacts to our community. Issue #1: Impacts to the Glen Highlands community gates and the walls/fences along FM 664. The FM 664 road build-out appears to encroach into property owners' lots from the southernmost boundary of the Glen Highlands gated community to the northernmost boundary of the subdivision. Due to this encroachment, our current fence, gates and gate operational electronics would be affected.	Mr. Nelson Underwood, P.E., the FM 664 TxDOT project manager, responded back to Mr. Treadaway on August 3, 2020 with the following: Thank you for your comments and concerns. I have reviewed your letter and have addressed your question in red. I apologize for the length of time it has taken to respond to your email but I wanted to make sure that what I was relaying was accurate information. If you have any further questions or concerns please contact me via the information below.
				Questions / Info Requests: 1) We would like to know the proposed solution for ensuring the privacy of the community.	The privacy of the community will be something that will be considered when the detailed construction plans are being developed. It could be as simple as one entrance is blocked off while it is being reconstructed while the other entrance is being used for ingress and egress.
				We need to know the restructure of ingress and egress points in and out of the subdivision. Our considerations are for fire department, police, delivery	Again, that is something that will be considered during the development of the detailed construction plans. This will also entail coordination with your local elected officials

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				services, homeowners, guests and any other entity needing to enter to this subdivision. Changing the depth of the entrances to this development most certainly will cause safety issues.	and TxDOT to make sure that all your concerns are addressed before construction begins.
				3) For the South Gate Dr. entrance gate (Images #1 & #2) and the Armstrong Way entrance gate (Images #3 & #4), what is being impacted? For instance, will the project include replacing the current walls, subdivision signs, light poles and landscaping; the guard shack; or the gates themselves?	The replacement of the sidewalks and pavement along South Gate Drive and Armstrong Way will be replaced inkind by TxDOT. The walls and fences, lights, guard shack and subdivision sign will be a reimbursement to the HOA and the HOA's responsibility to rebuild. The landscaping is potentially eligible for reimbursement.
				Additional Questions / Info Requests: Which of the available maps TxDOT has published is the most accurate as to proposed property lines and ROW?	The most accurate map at this time is the schematic, which was posted for the virtual public hearing. While this schematic establishes the basis of the final design, the proposed ROW could be adjusted in the final design phase.
				In the image below (Image #5), where is the wall/fence line? Is it the dark gray line next to the sidewalk or is it the Proposed ROW in dashed red?	It appears that the dark grey line is the edge of the sidewalk and the existing brick and wood fence. The red dashed line represents the proposed right-of-way line.
				Will the project be replacing all, some or any of the current walls/fences? If so, what kind of fencing/walls would be used?	This depends on who owns the current walls and fences. If the HOA owns and maintains the walls, fences, guard shack, landscaping etc. then the HOA would be compensated directly for those amenities. If the walls or fences are on private property, the property owner will be compensated. It will be the property owner's responsibility to compensate the HOA for the value of the walls/fences. If the property owner does not want to deal with the transfer of funds from their compensation to the HOA for the wall/fence replacement, then the property owner signs what is called a "Payment Assignment" which will automatically send the portion of the settlement for the walls/fences to the HOA directly. The walls and fencing along FM 664 would be compensated for in like kind of materials.

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				Additionally, what will be used to act as a temporary barrier during the construction period to protect homeowners' properties and to prevent construction noise and debris from getting into their properties?	This decision will be made when detailed construction plans are being developed.
				When FM 664 was resurfaced a few years ago, it created layers of dust up to the homeowners' homes. What will be done to mitigate this since construction will take years?	That will be a detail that will be worked out in the detailed construction plan development.
				Issue #2: Traffic Noise Report and Noise Barriers. Per the Traffic Noise Analysis Technical Report as part of the FM 664 Technical Reports, there are no noise abatement measures being proposed for this project. As can be seen in the tables and maps included in the report, receivers R24 and R26 represent the southern and northern ends (respectively) of the Glen Highlands subdivision along FM 664. These are two of the four receivers indicated in the report which will have a significant noise increase due to the project. (see Images #6 thru #9) The current privacy fence and columns adjacent to FM 664 were built to provide privacy and minimize noise of a farm to market road which experienced a low traffic volume weekly. The expansion project will significantly increase the traffic volumes of this thoroughfare. It also places this traffic closer to the boundaries of our communities' backyards. There is no doubt, as your studies show, the result will be more noise for the homeowners parallel to FM 664. There are 9 homes in the Glen Highlands	The estimated cost for each section is based upon the length x height x the average cost per square foot. That cost is then applied/divided by benefitted receivers to get the cost per benefited receiver. I have included a table for each section of wall and broken the cost down per benefited receiver on the far right of the table. The cost per square foot comes out of our "Average Low Bid Unit Cost" tables. Length Height Cost Total Number Cost per generated Cost Cost Description Cost Description Cost Description Cost Description Description Cost Description De
				subdivision along FM 664 that will negatively experience the increased noise volume. The Glen Highlands subdivision is the only area in the	benefits a minimum of two impacted receptors. To be reasonable, the barrier must not exceed the cost reasonableness allowance of \$25,000 square feet per

Comment Number	Commenter Name	Date Received	Source	Comment Topic	Response
				project that has so many homeowners that will be impacted. We don't believe the project has taken adequate steps to ensure the tranquility the developers maintained for this subdivision in their original project and sold to homeowners. We believe additional consideration needs to be taken in regards to the use of noise barriers or other mitigating options to reduce noise levels for the Glen Highlands subdivision considering its uniqueness compared to other areas included in this project. Questions / Info Requests: What was the estimated cost of installing the three 10-foot tall noise barriers (238, 769, and 444 feet in length)? What other options are available to mitigate the increased noise levels not mentioned in the report which could be used specifically for Glen Highlands? Will the elevation of the proposed roadway be higher or lower than the current roadway along	benefited receptor and must meet the noise reduction design goal of 7 dB(A) for at least one receptor. Noise barriers were not reasonable and feasible for the impacted representative receivers, and abatement is not proposed for those locations. Additional details regarding the barrier analysis can be found in the <i>Traffic Noise Analysis Report</i> (2020). Any subsequent project design changes may require a reevaluation of this preliminary noise barrier proposal. The final decision to construct the proposed noise barrier will not be made until completion of the project design, utility evaluation, and polling of all benefited and adjacent property owners and residents." You will find the above text on page 26 of the "FM 664 Approved Draft EA 5/2020" document. I have underlined the appropriate sections that apply to this question. As described below, the lowering of the proposed roadway profile will have a beneficial effect on the existing and future noise levels. Another factor is that a different driving surface and lower speed will have a beneficial effect on the noise levels. The elevation of the roadway at your location will be approximately 2.5' lower than the existing roadway
				the Glen Highlands subdivision? Issue #3: Safety The safety of this gated community is important as well. The developers built this country subdivision with covenants to protect homeowner safety and the architectural investments of their properties. This project creates environmental concerns for all. 1) Due to several collisions into the current fenced property, we believe that with the moderate traffic we have today, no one has made a significant study on to the	surface today. The lowering of the proposed roadway profile will have a beneficial effect on traffic noise levels. Safety lighting is not considered during the schematic and environmental process of a project and is not required one these kinds of projects. Safety lighting can be requested be the local governmental agency and would be paid for and maintained by the local governmental agency.

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				harm this expansion project will cause our subdivision. 2) With the added median, encroachment to the backyards where children play and pools are located, there is no doubt significant safety concerns that could not only put homeowners in harm's way, but will also diminish property values. 3) Having a barrier/sound wall erected to provide greater protection and privacy to these residences, can improve these location variables that appear to cause concern for home values. Questions / Info Requests Will there be additional lighting/light poles along FM 664? Issue #4: Compensation for homeowners who may lose some of their current property to the project. Questions / Info Requests: What map shows the property of homeowners to be acquired by the project? How will homeowners be notified if they will lose property to the project?	The approved schematic on the following website will show the proposed right-of-way lines. All the property owners that right-of-way acquisition will be occurring on their property will be notified by letter that an
					independent appraiser will be coming out to appraise of the property. Once all the appraisals have been completed, a certified letter will be sent to the homeowner with the State's appraisal and offer.
				How is the compensation amount determined?	All appraisals are based upon fair market values and comparable properties in the area.
				When and how will homeowners be compensated?	If the property owner accepts the State's offer then compensation will usually take several weeks for the check to be mailed to you. If the process goes to eminent domain, the property owner will not receive any compensation less than what the State's initial offer. The property owner is responsible for attorney's fees and all

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					other expenses. Additional information on the ROW acquisition process can be found on the project website (www.keepitmovingdallas.com/FM664).
				Issue #5: Other impacts to homeowners. Questions / Info Requests: Will the project reimburse homeowners for trees or landscaping they may lose to the project?	Items like tree and landscaping are considered in the appraisal process.
				Will the project move or replace any existing structures on the homeowners' property that may be affected?	Any structures that are within the right-of-way acquisition will either have compensation to move the structure or to rebuild it elsewhere. That is based upon fair market values and considers depreciation of the structure.
				Will the project re-route sprinkler and aerobic septic lines and sprayer heads impacted by the project?	The property owner will be compensated for the impacts to their septic systems however it will be the responsibility of the property owner to have the systems components (sprinklers, aerobic septic lines, sprayer heads and anything else associated with the septic system) moved before construction begins.
				What other items will the project compensate or reimburse homeowners for?	That will be something that the appraiser will be able to identify when they are out doing their appraisal of the property.
				Issue #6: Lastly, will the project managers be working with the HOAs to ensure the concerns of the communities are addressed?	Work with your local elected officials and the TxDOT Area Office to address concerns and questions that might come up after the project has been environmentally cleared.