

Welcome to the Fort Bend County and Texas Department of Transportation Houston District's public meeting for the proposed Farm-to-Market (FM) 521 widening project with limits from County Road (CR) 56 to State Highway (SH) 6. This is a pre-recorded presentation. My name is Peter Clay representing the Fort Bend County Project team, and I would like to welcome you and thank you for participating in this public meeting. From this point forward in the presentation the project will be referred to verbally as the "FM 521 widening project".

This is the second public meeting being conducted for the FM 521 widening project. The presentation is available for viewing starting on September 27, 2022.

During the virtual meeting, you may pause the presentation and navigate forward or backward using your video player.

FM 521 Public Meeting Questions and Concerns

Please phone Mr. Kevin Mineo, Project Manager, Binkley & Barfield, Inc., at (713) 869-3433 if you have:

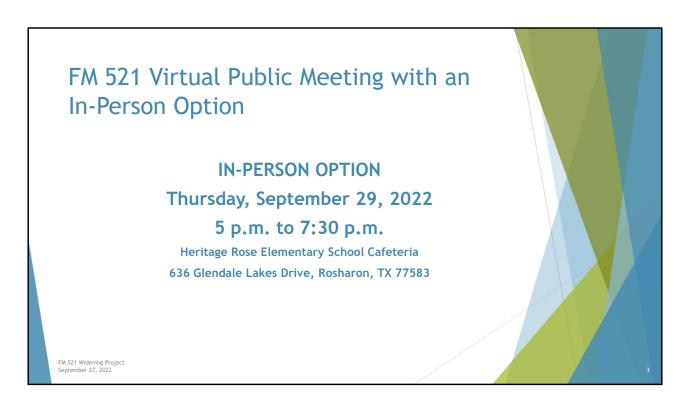
- ▶ Problems accessing public meeting information online
- ▶ Requests for special accommodations
- Language or interpretation needs other than English and Spanish

Details on how to submit an official comment will be provided further in the presentation.

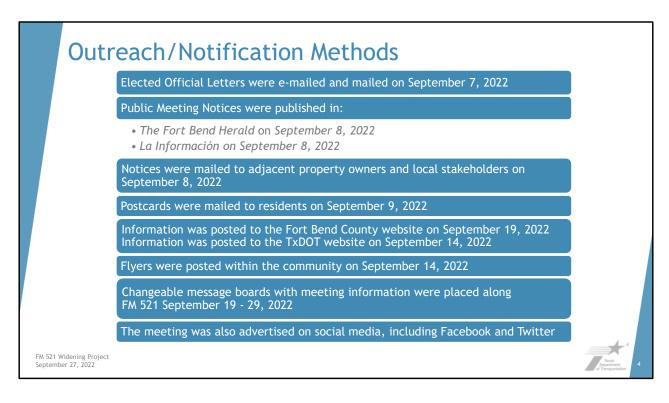
FM 521 Widening Project September 27, 2022

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If you experience technical difficulties with the virtual public meeting, please call Mr. Kevin Mineo, the Project Manager, at 713-869-3433. You may also request special accommodation assistance accessing public meeting information and materials and language interpretation needs other than English and Spanish. For general questions, contact information will be shown again toward the end of this public meeting. If members of the public wish to to submit a comment to be part of the official record of this public meeting, they may do so in the ways outlined at the end of this presentation.



This virtual public meeting is being held in conjunction with an in-person public meeting, which will be held on Thursday, September 29, 2022, from 5 p.m. to 7:30 p.m. at the Heritage Rose Elementary School Cafeteria. The information presented in the virtual public meeting and the in-person public meeting is identical, and the opportunities to comment do not differ.



Elected Official Letters were e-mailed and mailed on September 7, 2022.

Notices for this public meeting were published in The Fort Bend Herald and in La Información on September 8, 2022.

Notices were mailed to adjacent property owners and local stakeholders on September 8, 2022.

Postcards were mailed to area residents on September 9, 2022.

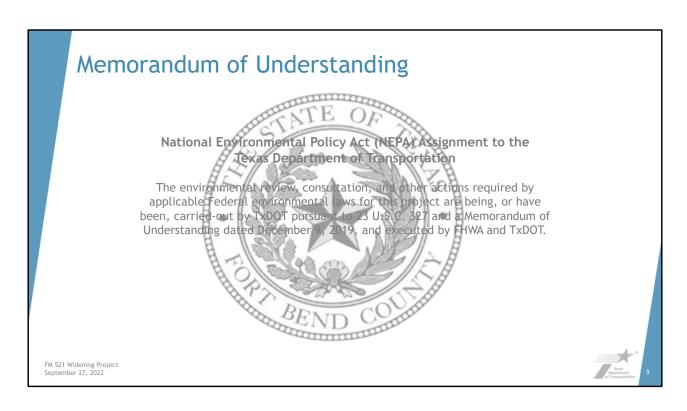
Information was posted to the Fort Bend County website on September 19, 2022.

Information was posted to the TxDOT website on September 14, 2022.

Flyers were posted at local businesses and community centers on September 14, 2022.

Changeable message boards with meeting information were also placed along FM 521 from September 19 to September 29, 2022.

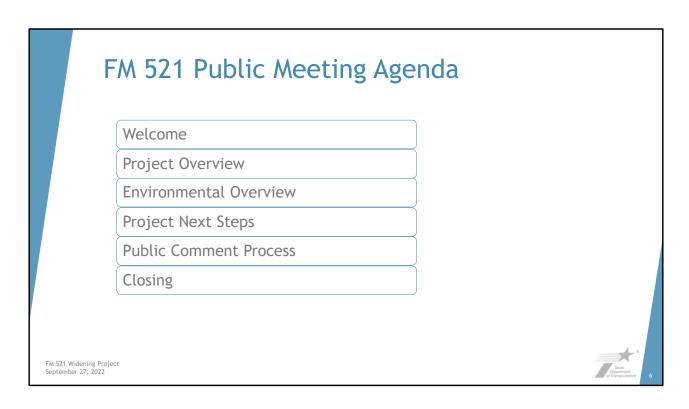
The meeting was also advertised on social media, including Facebook and Twitter.



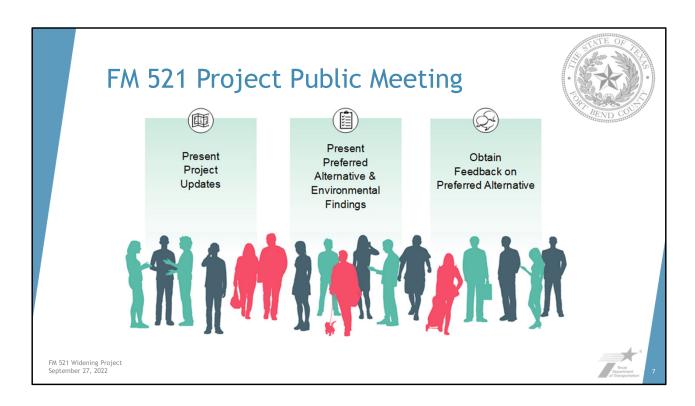
The proposed FM 521 widening project may receive federal funds and due to the federal component, the County is required to assess the potential environmental effects of the proposed project in accordance with Federal standards. The process that is followed is called the National Environmental Policy Act process, otherwise known as NEPA. The NEPA process provides analyses of the potential impacts to the natural and manmade environment and helps the decision maker to make an informed decision on whether or not to proceed with the project.

On December 9, 2019, TxDOT received a signed Memorandum of Understanding from the Federal Highway Administration that permits TxDOT to assume responsibility from the Federal Highway Administration for reviewing and approving certain assigned NEPA projects.

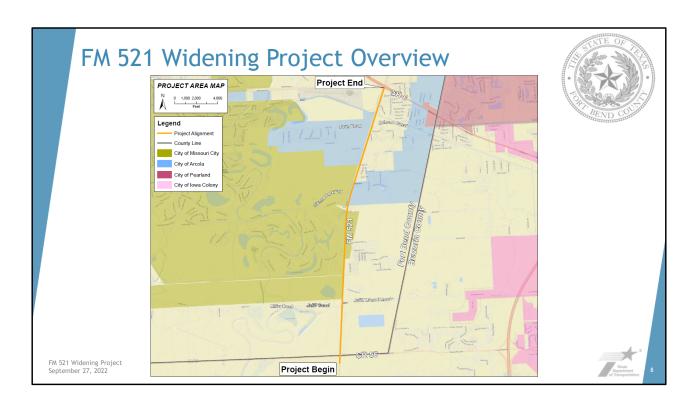
This review and approval process applies to this project.



In this presentation I will describe the proposed FM 521 widening project, provide an overview of the environmental studies being performed, explain the next steps in the project development process, and outline the methods for submitting comments.



This public meeting is being held to engage with the public on the preferred project alternative based on prior public feedback and gather additional public input. You are encouraged to submit comments after reviewing the meeting materials and listening to this presentation.



The FM 521 project extends from County Road 56 to State Highway 6 in Fort Bend County. The proposed project is approximately 5 miles long. Land use in the general area is primarily agricultural and residential, with limited commercial development.

Project Description

The proposed FM 521 improvements include:

- Widening FM 521 between CR 56 and SH 6 from a two-lane roadway to a four-lane curb-and-gutter roadway
- Constructing a 16-foot-wide, noncontinuous, raised grassy median
- Constructing a 10-foot-wide side path along the east side of FM 521
- Adding five new traffic signals and replacing two existing signals
- Adding turn lanes at intersections and other designated locations
- · Replacing the Briscoe Canal and Juliff Canal bridges
- Constructing a grade-separated railroad bridge crossing
- Constructing detention ponds

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The project proposes to reconstruct and widen the existing roadway from a two-lane roadway to a four-lane, curb-and-gutter roadway with a 16-foot-wide, noncontinuous, raised grassy median. A 10-foot-wide side path would be constructed along the east side of FM 521 for pedestrian and bicycle use. Traffic signals and left and right turn lanes would be added at intersections and other designated locations. Please refer to the schematic that is included in the public meeting materials for specific locations.

The project includes replacing the Briscoe Canal and Juliff Canal bridges and constructing a grade-separated bridge at the BNSF railroad crossing.

The project would also include the construction of new detention ponds.

Project Purpose and Need

PURPOSE

- Improve mobility
- Reduce regional congestion
- Bring the facility up to current design and safety standards

NEED

- Limited mobility in the corridor
- Population growth increases traffic and congestion
- Two-lane undivided roadway does not meet current design or safety standards



Looking south along FM 521 towards Masterson St.



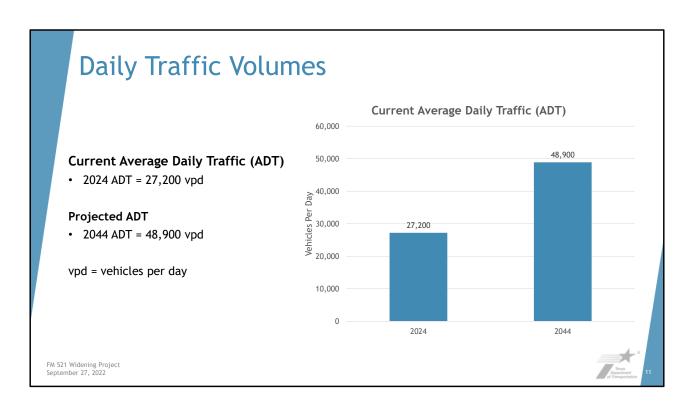
Looking south along FM 521 towards the BNSF railroad tracks.



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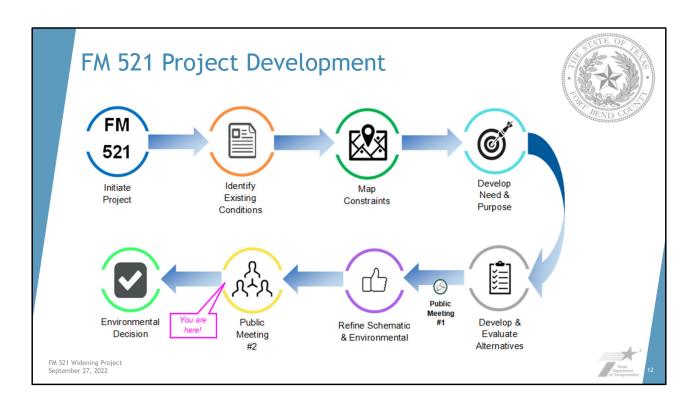
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The project is needed because of limited mobility in the corridor, anticipated future population growth and increases in traffic. In addition, the current two-lane undivided roadway does not meet design or safety standards. The purpose of the FM 521 widening project is to improve mobility, reduce regional congestion, and bring the facility up to current design and safety standards.



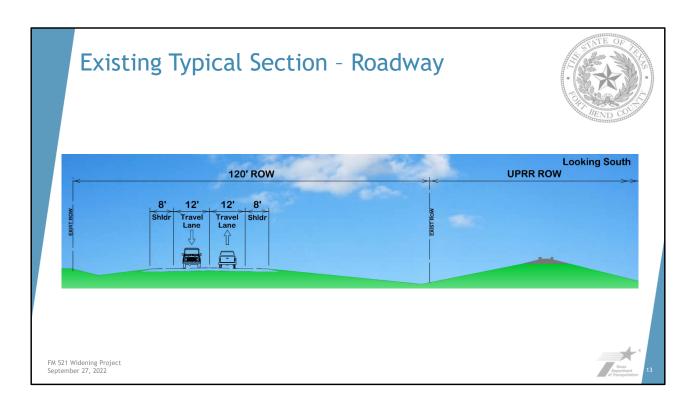
Let's talk about daily traffic volumes along FM 521, what it is today and what is projected for the future. Average daily traffic, or ADT, represents the traffic volume that results from dividing a traffic count obtained during a given time period by the number of days in that time period, or the average traffic volume per day. Based on preliminary traffic data, the 2024 ADT along FM 521 within the project limits is 27,200 vehicles per day, or VPD.

By the year 2044, traffic volumes on FM 521 are projected to be 48,900 vehicles per day, which is an 80-percent increase from 2024. With no improvements, the current capacity of FM 521 would not be adequate to accommodate projected traffic volumes in 2044, and traffic congestion would increase.



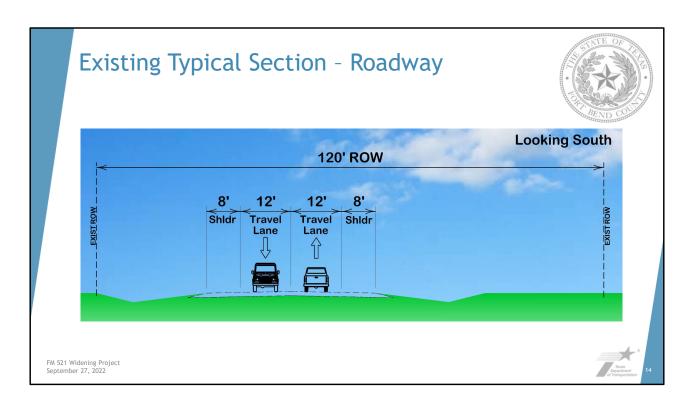
Fort Bend County initiated a Feasibility Study for FM 521 in March of 2019 due to the increased number of planned developments along the corridor. The study included data collection and stakeholder coordination to help determine what improvements were needed within the project limits. The feasibility study concluded that the corridor is rapidly developing, and the need for additional capacity is becoming critical.

The project team has evaluated environmental constraints and analyzed potential environmental impacts. Constraints such as waterbodies, potential wetlands, floodplains, gas stations, and railroads are shown on the environmental constraints map included with the public meeting materials. As previously mentioned, the need and purpose of the project and preliminary schematic have been developed. This brings us to today's public meeting. Input from the virtual public meeting held in June 2021 was used to determine a preferred alternative and further develop the project. Development of the schematic and environmental documentation will continue followed by an environmental decision by TxDOT.

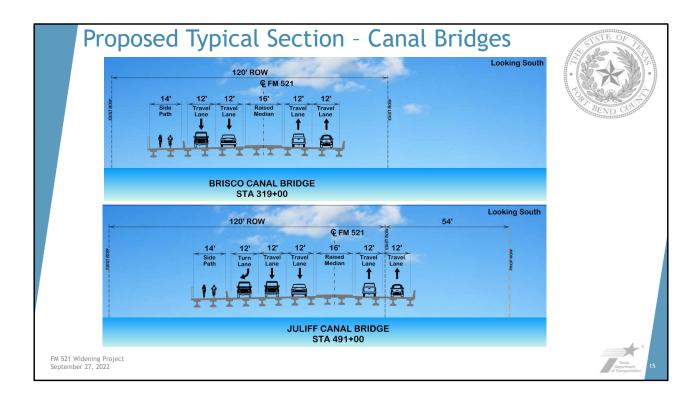


A typical section is a technical term for the roadway design. The existing FM 521 from County Road 56 to State Highway 6 includes one 12-foot-wide travel lane in each direction and 8-foot-wide outside shoulders. Along the west side of FM 521, between State Highway 6 and Fenn Road, there is a Union Pacific Railroad track that diverts away from FM 521 at Fenn Road.

The typical existing right-of-way width is approximately 120 feet.

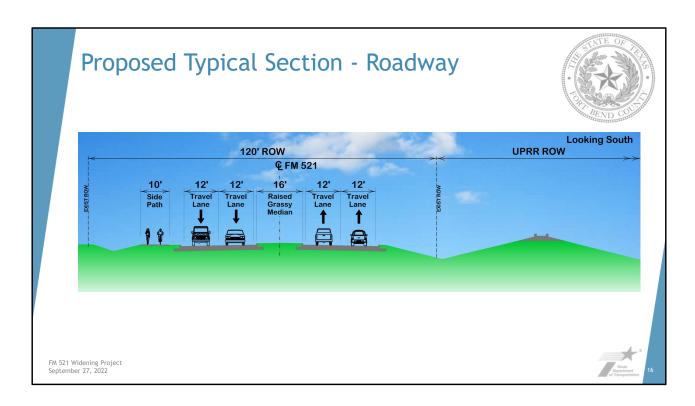


The remainder of the existing FM 521 roadway includes one 12-foot-wide travel lane in each direction and 8-foot-wide outside shoulders. The typical existing right-of-way width is approximately 120 feet.

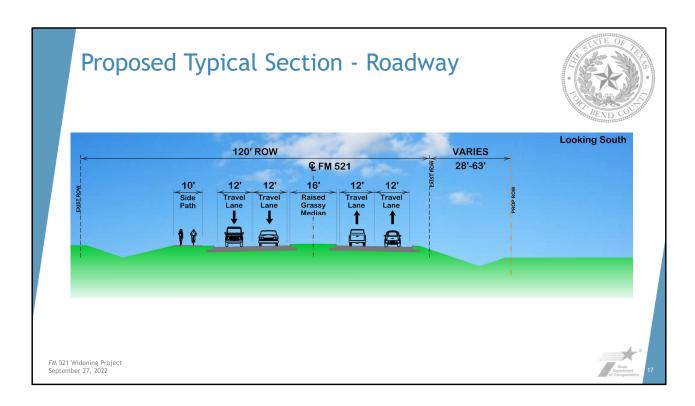


The proposed project would include two new canal bridges. These typical sections would have two 12-foot-wide travel lanes in each direction, a 16-foot-wide continuous raised concrete median, and a 14-foot-wide side path, separated from traffic by a concrete traffic rail. The Briscoe Canal bridge would not require additional right of way. The Juliff Canal bridge would require an additional 54 feet of right of way as shown in the proposed typical section.

The proposed railroad bridge typical section will be discussed a few slides later.

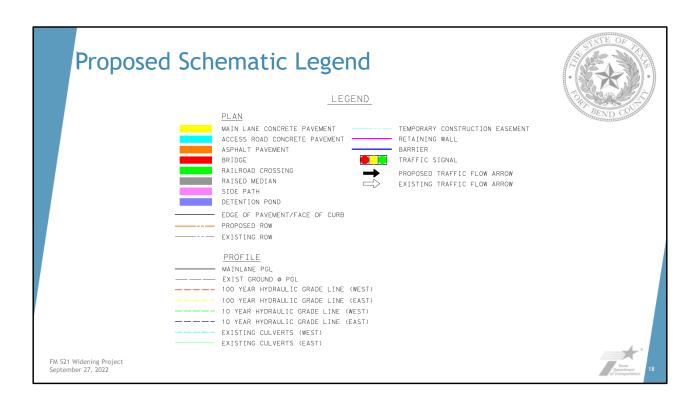


The project team does not anticipate needing additional right of way in the area between State Highway 6 and Masterson Street. As shown on the slide, the typical section in this area includes two 12-foot-wide travel lanes in each direction, a 16-foot-wide noncontinuous raised grassy median, and a 10-foot-wide side path to accommodate pedestrians and bicyclists. Left and right turn lanes would be provided at designated locations. Again, please refer to the schematic, which is included in the public meeting materials, for specific locations.



For the remainder of the project length, the typical section generally includes two 12-foot-wide travel lanes in each direction, a 16-foot-wide noncontinuous raised grassy median, and a 10-foot-wide side path to accommodate pedestrians and bicyclists. Left and right turn lanes would be provided at designated locations.

The proposed roadway right of way width would range between 148 feet and 183 feet. This would require an additional 28 to 63 feet of proposed new right-of-way on the west side of FM 521.

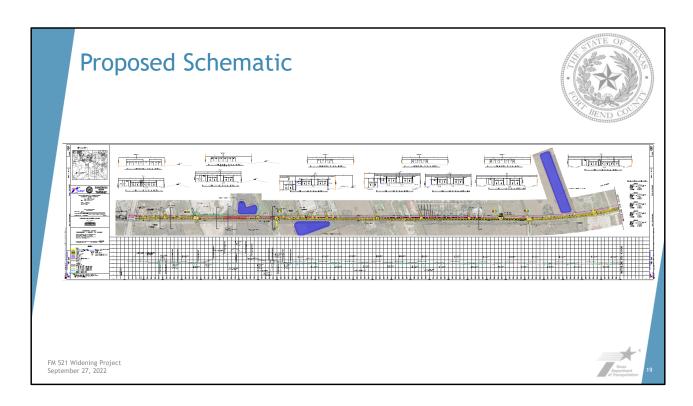


Here is a screenshot of the legend for the schematics found on the website. These legends are included on each page of the schematics so you may reference it as you review them. The screenshot shows the colors that fill the proposed design. These colors identify the limits and major aspects of the project. Let's walk through them.

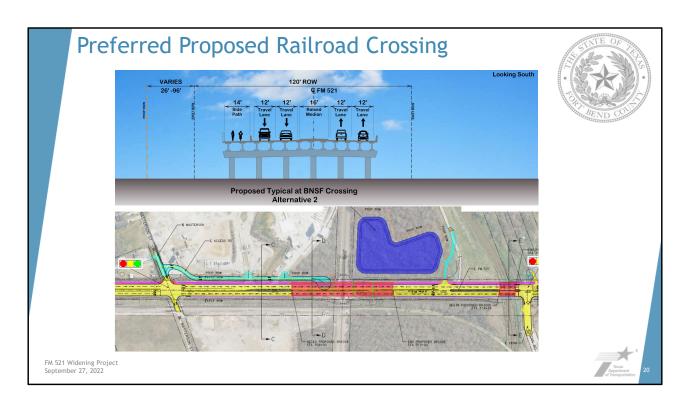
The yellow color identifies the proposed concrete pavement on FM 521, including main travel lanes, intersections, and driveways. Turquoise blue indicates the proposed access road locations. Bridge structures are shown in red, while the atgrade railroad crossing is shown in green. The gray colors identify proposed raised medians, and pink indicates the location of the side path. New traffic signal locations are designated by small traffic signal icons. Arrows indicate the direction of traffic flow.

Note that black solid lines outline the proposed edge of pavement, thin black dashed lines show existing right of way, and orange dashed lines indicate the proposed right of way. Thick pink lines denote locations of proposed retaining walls.

Lastly, the schematics also show proposed detention pond locations as solid blue features.



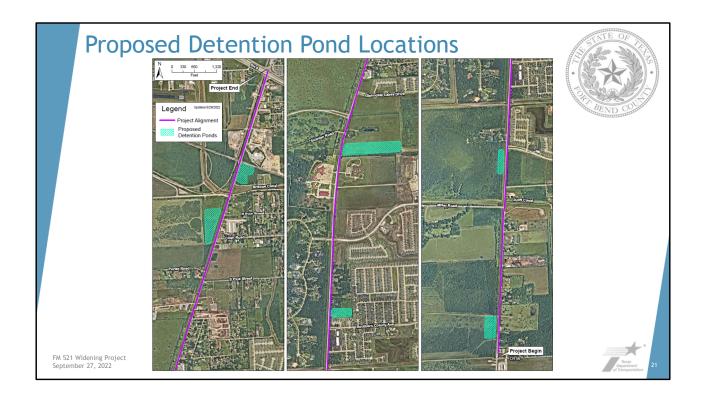
This graphic shows a portion of the schematic for the proposed project. A full version of the schematic is available on the project web page.



The June 2021 Public Meeting presented four alternatives at the railroad crossing. Alternative 2 was selected as the preferred alternative based on public input. This alternative would construct a bridge over the railroad with the side path located on the bridge structure, providing a safer crossing for vehicles, bicycles and pedestrians.

On average, trains cross the roadway 27 times a day causing traffic delays, not only for commuting vehicles but also for emergency response vehicles. With the ongoing growth of population, schools and businesses, the delays caused by train crossings would only increase. The preferred alternative includes a four-lane divided roadway bridge that would replace the existing at-grade roadway. The bridge would cross the existing railroad with two 12-foot-wide travel lanes in each direction and a 16-foot-wide raised concrete median. The side path would be separated from the traffic lanes by a concrete traffic rail.

In order to maintain access to the businesses and property owners on the east side, a proposed at-grade access road parallel to FM 521 is shown in turquoise blue; the access road would terminate with a cul-de-sac under the bridge. The City of Arcola wastewater treatment plant driveway, shown to the right of the detention pond, would also be realigned as part of this preferred alternative.

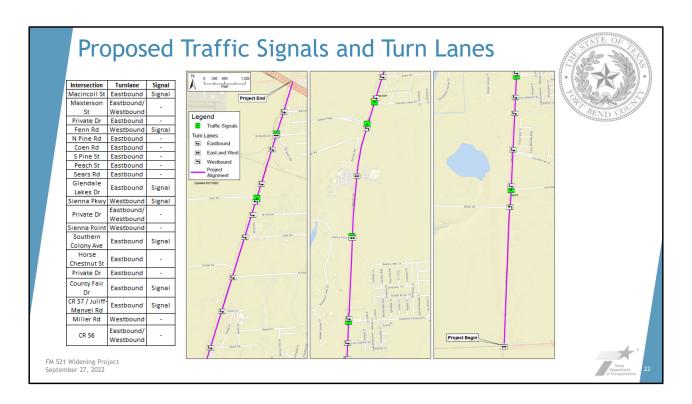


The proposed FM 521 project would include six new detention ponds. A drainage study was completed to determine the number, size, and locations of the detention ponds to be used for increased roadway runoff.

Proposed detention ponds, shown on the map, include:

- Two ponds located on either side of the roadway near the Briscoe Canal
- One pond located south of Scanlan Road, on the east side of FM 521
- One pond located north of Southern Colony Avenue on the east side of FM 521
- One pond located north of Miller Road on the west side of FM 521
- One pond located north of County Road 56 on the west side of FM 521

Approximately 43 acres would be required for the proposed detention ponds.



A warrant study is required to determine locations for new traffic signals. The warrant study completed for this project proposes adding five new traffic signals within the project limits. Proposed locations for these signals are Masterson Street, Glendale Lakes Drive, Sienna Point/Caldwell Ranch, Southern Colony Road, and Juliff-Manvel Road. The existing signals at Fenn Road and Sienna Parkway would be replaced. Turn lanes would be constructed at each signalized intersection.

Environmental Analysis Resource Areas



- ► Community Impacts and Environmental Justice
- Water Resources and Wetlands
- ▶ Historic Resources
- Archeological Resources
- ► Hazardous Materials
- Biological Resources
- Air Quality

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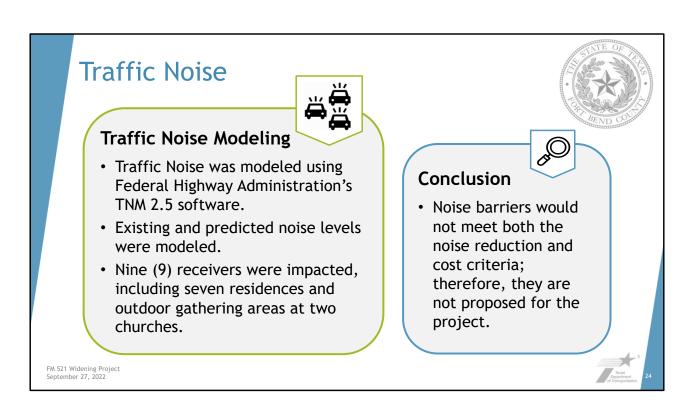


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The project team has identified and evaluated potential environmental impacts that could occur as a result of constructing the proposed improvements.

Resources that are under review include community impacts, environmental justice, water resources, historic resources, archaeological resources, hazardous materials, biological resources, and air quality.

The project would be designed to avoid or minimize impacts to the greatest extent practicable. Once completed, technical reports documenting the analysis and conclusions of these studies will be available for review upon request.

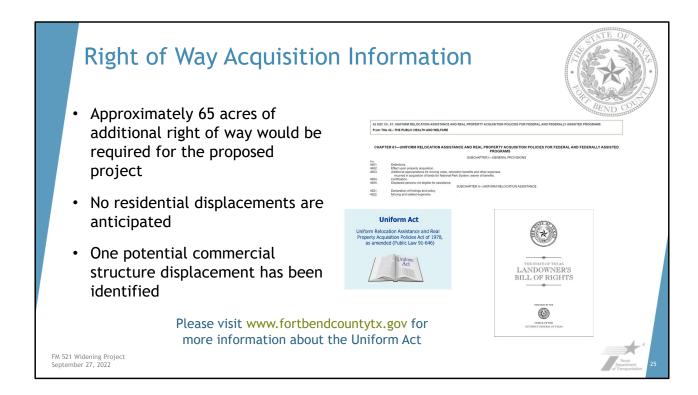


Existing and predicted traffic noise levels were modeled using the approved Federal Highway Administration, or FHWA, traffic noise modeling software to determine if any of the modeled receivers could have noise impacts above FHWA's actionable levels. Based on the modeling conducted, predicted noise levels at nine of the 17 modeled receivers were identified as impacted, including seven residences and outdoor gathering areas at two churches.

Noise abatement measures were considered for each location with predicted actionable noise impacts. As per policy, the following noise abatement measures were considered: traffic management, alteration of horizontal and/or vertical alignments, acquisition of undeveloped property to act as a buffer zone, and the construction of noise barriers. Potential construction of and modeling of noise barriers was the only noise abatement measure found to be practicable for this project.

In order to include noise barriers for a proposed project, noise modeling needs to show, per federal regulations, that noise barriers meet both noise reduction and cost criteria.

The **draft** traffic noise technical report concluded that noise barriers would not meet both the noise reduction and cost criteria and are not recommended to be included in the project.



A total of approximately 65 acres of additional right of way would be required for the proposed project.

No residential displacements are anticipated. One potential displacement of a commercial structure associated with Campbell Concrete and Materials has been identified.

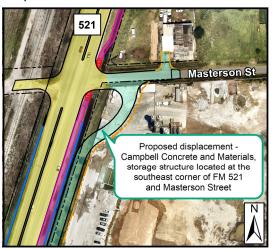
Fort Bend County offers relocation counseling and financial assistance to residences and businesses that are displaced by the acquisition of highway right of way in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970.

Please feel free to contact Mr. Guy Matula, Special Projects Coordinator – Right of Way, Fort Bend County Engineering, at 281-633-7529 or by email at FBCProject-FM521South@binkleybarfield.com with any right-of-way acquisition questions.

Right of Way - Structure Displacement



One commercial structure associated with Campbell Concrete and Materials would potentially be displaced



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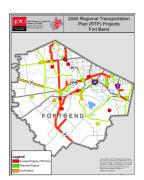
This slide shows the location of the commercial structure potentially impacted by the new right of way for the proposed FM 521 Widening.

The structure appears to be used for storage and is associated with Campbell Concrete and Materials located at the southeast corner of FM 521 and Masterson Street.

Project Planning and Funding

- The proposed project is consistent with Houston-Galveston Area Council's 2045 Regional Transportation Plan (RTP)
- Total Project Estimated Cost: approximately \$76 million
- Project is not currently funded



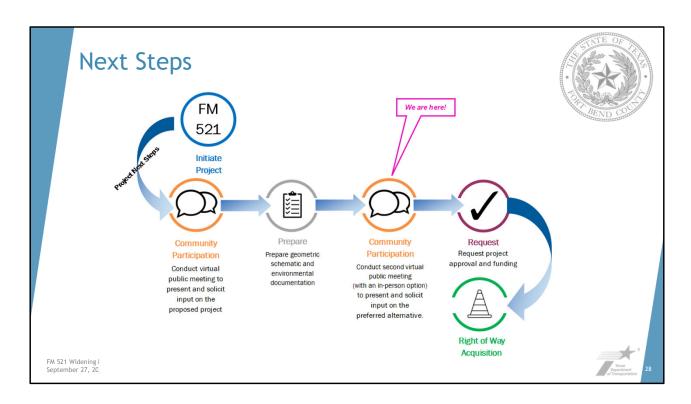


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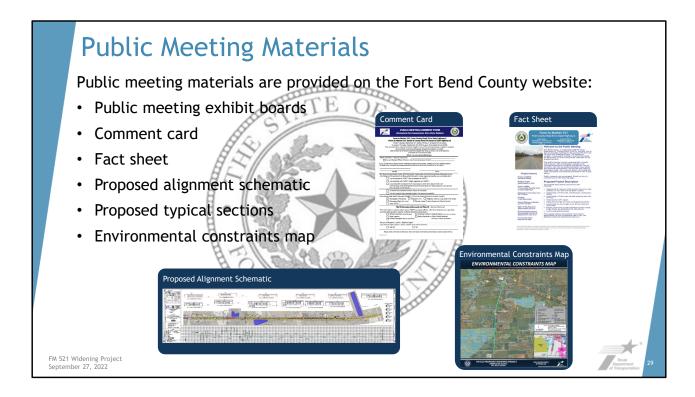
The Houston-Galveston Area Council's Regional Transportation Plan, or RTP, identifies the region's transportation needs, goals, and policies over the next 25 years. The Regional Transportation Plan sets the framework for a balanced and forward-thinking system with the identification of major investment strategies supporting traditional modes, such as roadway improvements, and alternative modes, such as mass transit, bicycle and pedestrian facilities. With the assistance of transportation planners, engineers, elected officials and the public, the Regional Transportation Plan helps identify transportation facilities and services needed to support the region's anticipated growth using available resources.

The proposed project is anticipated to cost approximately 76 million dollars, but is currently not funded. The project is programmed to begin construction in 2028, however, could be moved forward if funding is identified.



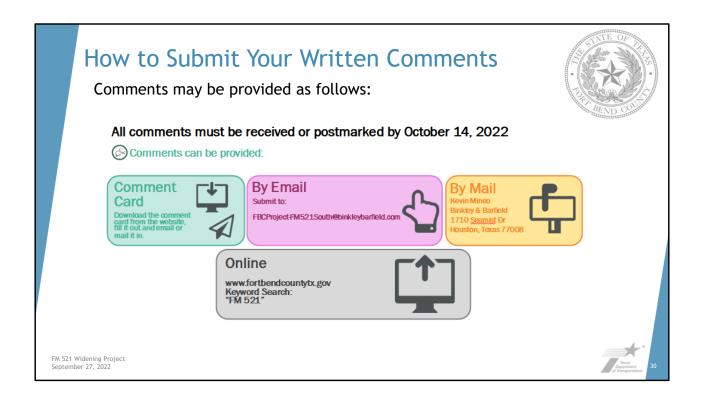
We want to highlight the estimated project timeline. Look for the pink "We are here" arrow at the top of the slide. This public meeting is being held to present the preferred alternative and gather public and stakeholder input. After the comment period closes, Fort Bend County and TxDOT will review the comments received and prepare a public meeting summary report, including responses to all comments received during the comment period. The summary report will be posted to the project website approximately three months after the close of the comment period. The next steps include refining the schematic and completing environmental studies. Provided the environmental documents and process are approved, the project would then move into detailed design, and right-of-way acquisition could begin once funding is identified.

Construction is anticipated to begin in the fall of 2028 if funding is secured. The project team anticipates that construction would take approximately 2 years.



The project website contains all materials presented in this public meeting including this presentation in both English and Spanish, exhibit boards, a comment card, a project fact sheet, schematic layout for the proposed alignment, proposed typical sections, and the Environmental Constraints Map. The schematic layout provides a more in-depth look at details such as existing and proposed right of way, side path, bridges, medians, and turn lanes.

These files are large and may require more time to download than the other project materials.



Fort Bend County and TxDOT encourage you to review the materials posted on the public meeting website and to provide written comments.

The comment form is located on the website. Comments must be received by email or mailed and postmarked by Friday, October 14, 2022, to be included in the official Public Meeting Summary Report.

You may submit written comments in the following ways:

At the in-person meeting: Fill out the comment card and drop in the comment box By email to FBCProject-FM521South@binkleybarfield.com
By mail to Kevin Mineo, Project Manager, Binkley & Barfield, 1710 Seamist Drive, Houston, Texas 77008

Again, responses to comments received during the comment period will be included in the Public Meeting Summary Report that will be posted on the project website approximately three months after the end of the comment period. The project website is www.fortbendcountytx.gov; keyword search "FM 521".



Secondly, don't hesitate to contact us with any questions.

Please feel free to contact the design consultant, Mr. Kevin Mineo, Project Manager, Binkley & Barfield, Inc. at 713-869-3433 or by email at FBCProject-FM521South@binkleybarfield.com with any questions or comments.

And don't forget to click on these links and follow us on the Fort Bend County Twitter page for ongoing road closures and construction updates. You can also keep up with Fort Bend County news on our Facebook page.



November 7, 2000, was the last deathless day on roadways in Texas. That means for nearly 22 years, at least one person has died every single day. We all have a part to play to change that. This message is that reminder – to End the Streak of deaths on Texas highways. We need drivers and passengers to act more responsibly and help us reach our goal of zero deaths by 2050.

Texans can play a major role in ending fatal crashes with a few simple driving habits: wear seatbelts, drive the speed limit, put away the phone and other distractions, and never drive under the influence of alcohol or drugs. So please do your part and share this message with your friends and family.

Thank you for participating in this public meeting

Please remember to submit comments by Friday, October 14, 2022

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Thank you for participating in this public meeting. Please remember to submit your comments no later than Friday, October 14, 2022, to be included in the official public meeting documentation.