

BRENT SPENCE
BRIDGE CORRIDOR



Brent Spence Bridge Corridor Project: Kentucky Southern Section

Noise Barrier Informational Meeting

April 14, 2025

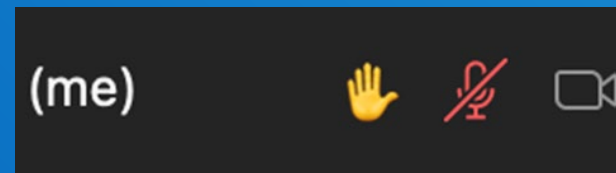
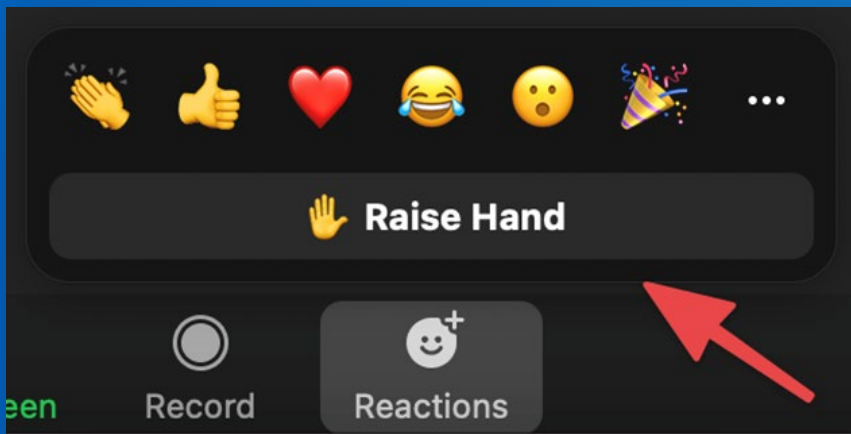
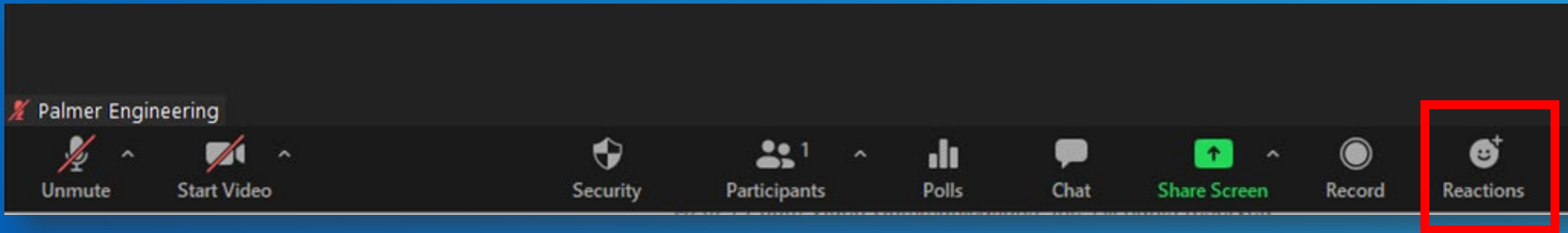
Introductions

- Stacey Hans, KYTC Project Manager
- Gary Valentine, KYTC Project Advisor
- Scott Schurman, KYTC Environmental Project Manager
- Craig Craig, KYTC Noise Specialist
- Jeff Noble, AECOM, Kentucky Design Lead
- David Waldner, Palmer Engineering

How to Participate in the Meeting

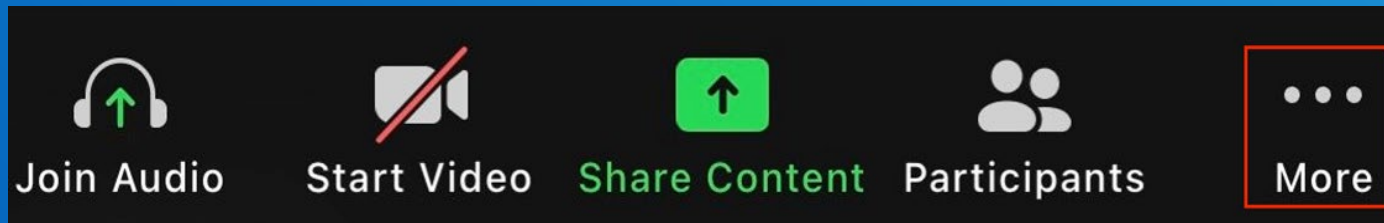


Raise your hand if you want to speak or ask questions on the video.

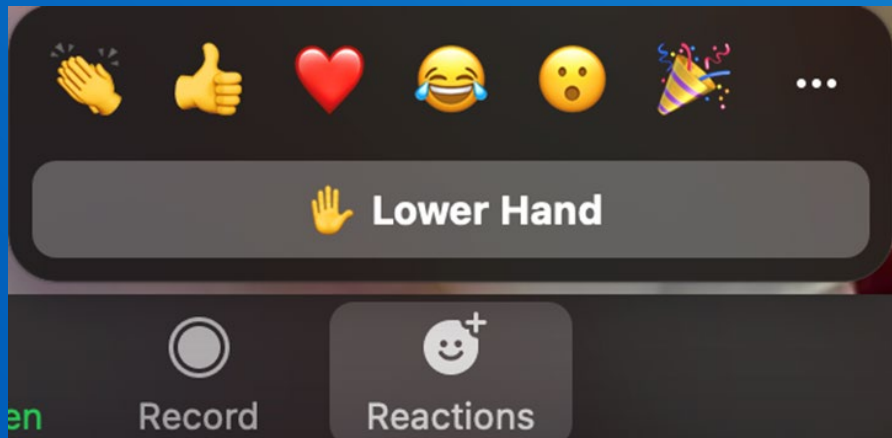


You'll know your hand is raised as a participant when you see an emoji hand on the screen next to your name.

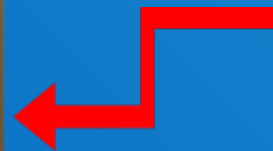
If You Are on a Mobile Device:



Raise hand can be found under 'more'



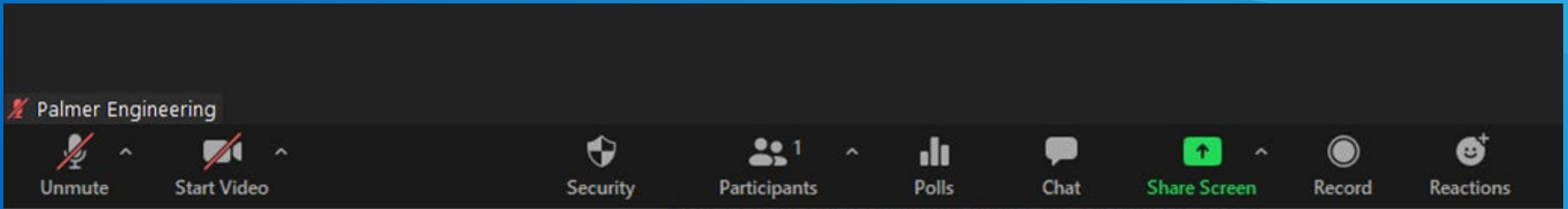
Lower your hand by clicking the same "Raise Hand" button on the screen as before, which now says "Lower Hand."



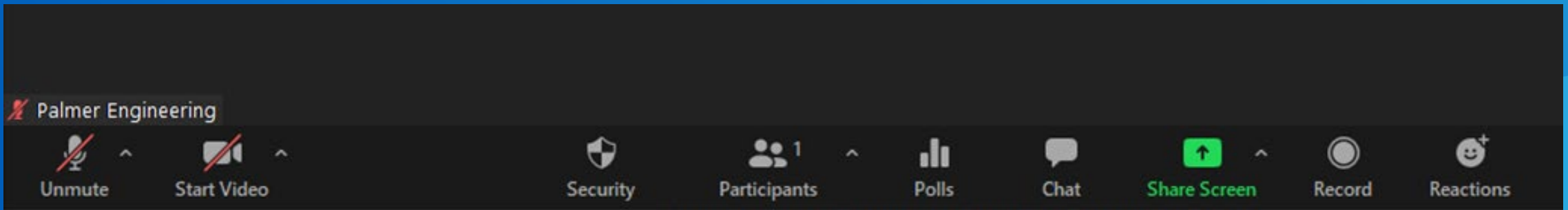
How to Raise Hand in Zoom Dial-In Calls:

Once you join the meeting, dial *9 on your phone's dial pad to raise your hand, and do the same to lower your hand.

Using the chat function during the meeting:



Submit your questions and comments using the chat feature. Click the chat button in your toolbar and type your question or comment in the provided box.



Use the microphone and camera buttons to control your video and audio sharing preferences.

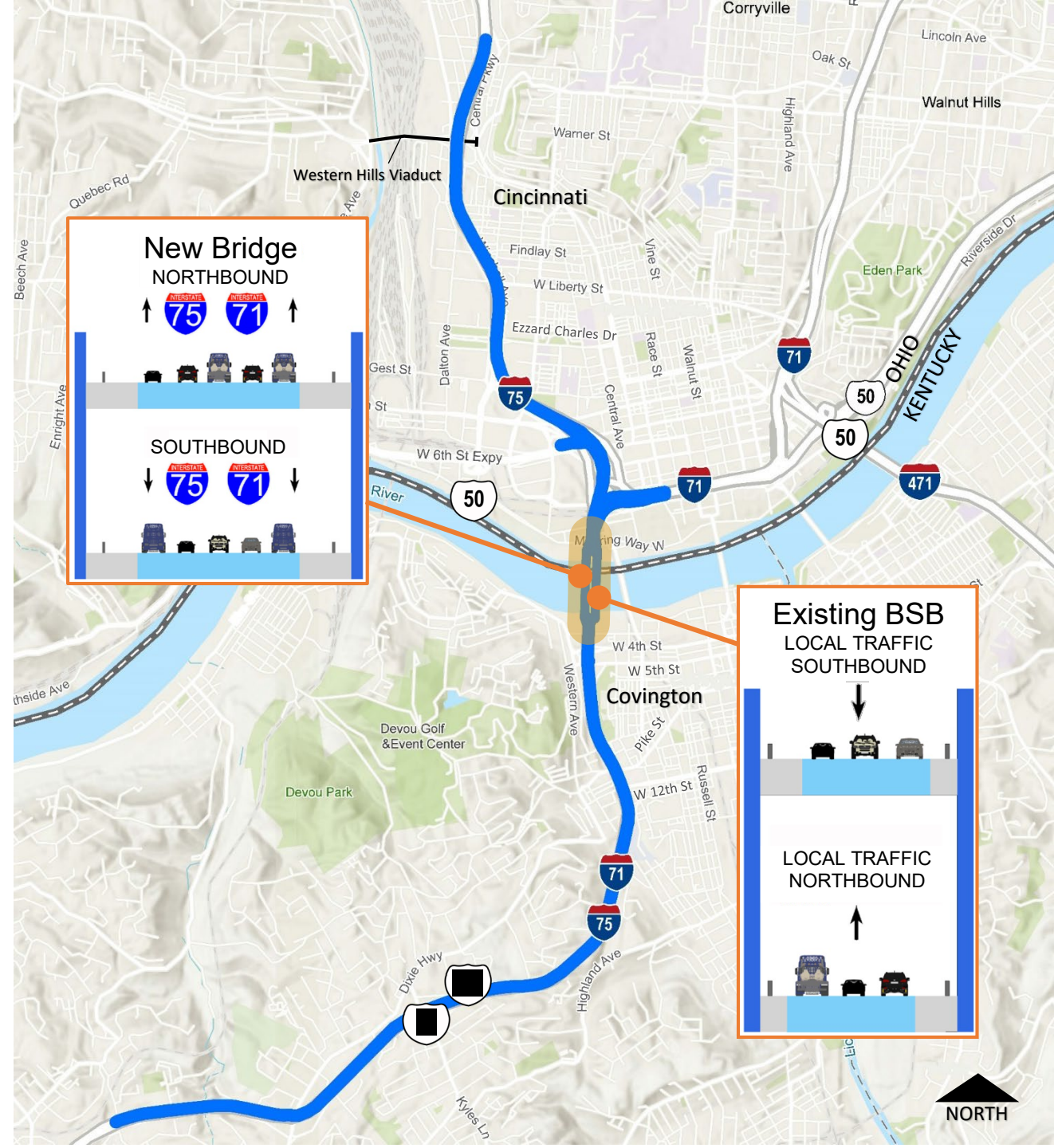
Project Description – Ohio

- Widen I-75
- Rebuild all overpass bridges and interchanges
- Build a collector-distributor system
- Tie into Mill Creek Expressway-Hopple Street Interchange project
- Tie into the Western Hills Viaduct project
- Add a northbound exit to Ezzard Charles Drive
- Connect to I-71 and US-50E



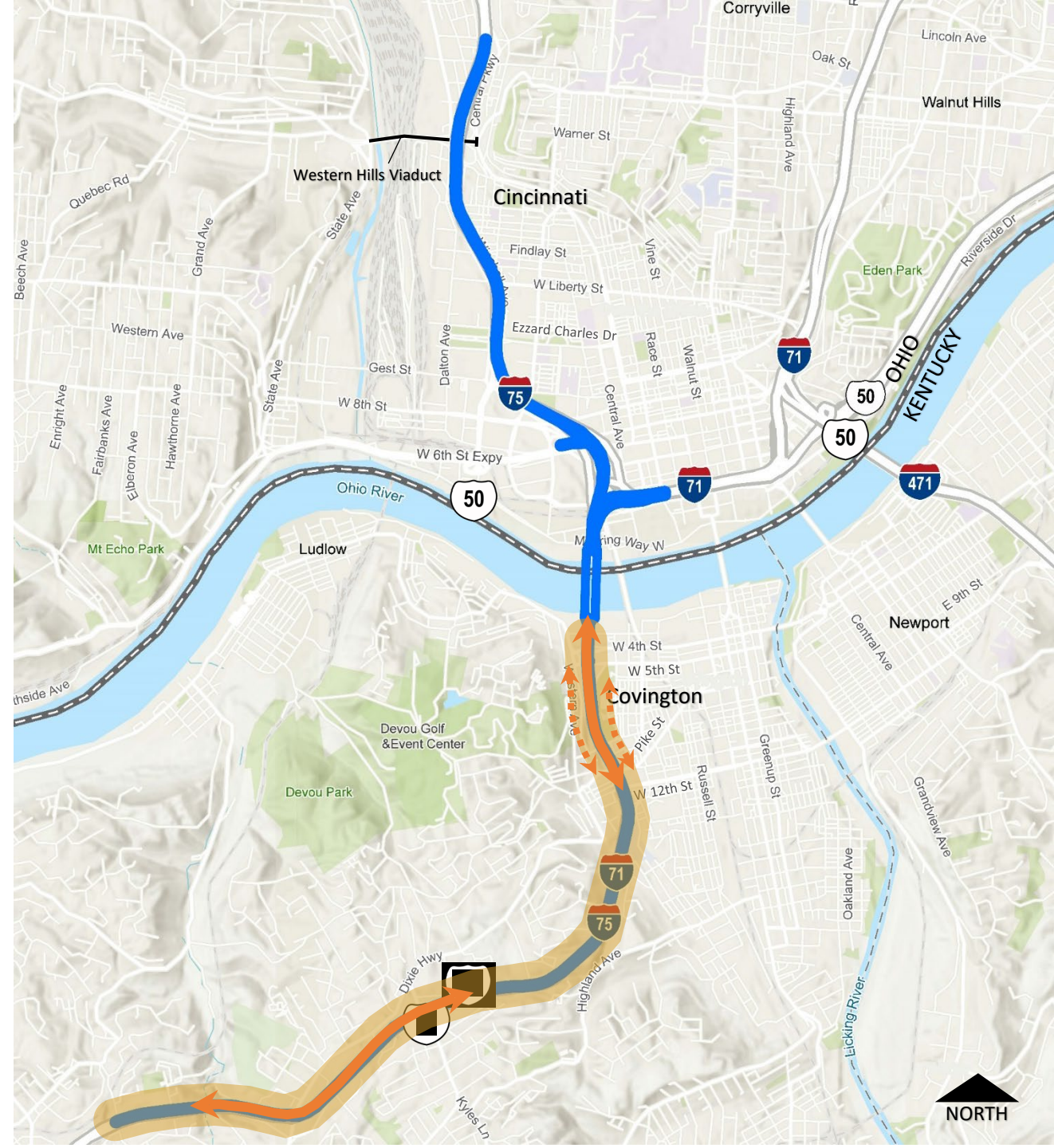
Project Description – Brent Spence Bridge

- New double-decker companion bridge
 - 5 lanes each deck
 - Carry through (interstate) traffic
- Rehabilitate and reconfigure existing bridge
 - Three lanes each deck
 - Increased inside/outside shoulders
 - Carry local traffic

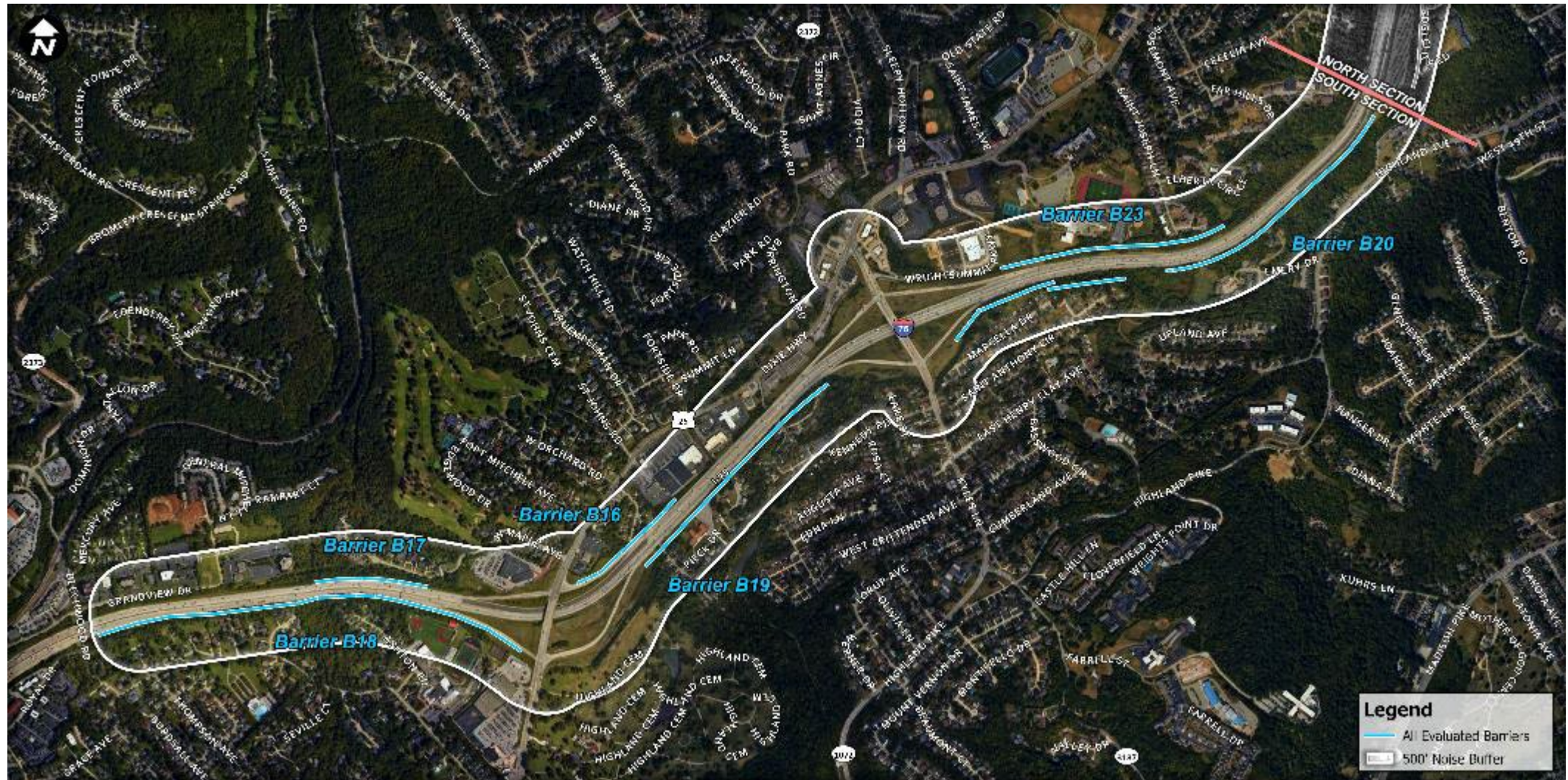


Project Description – Kentucky

- Reconstruct and widen I-71/I-75
- Rebuild all overpass bridges and interchanges
- Extend frontage roads in Covington
- Construct a collector-distributor system from 12th Street north
- Construct collector-distributor systems between Dixie Highway and Kyles Lane



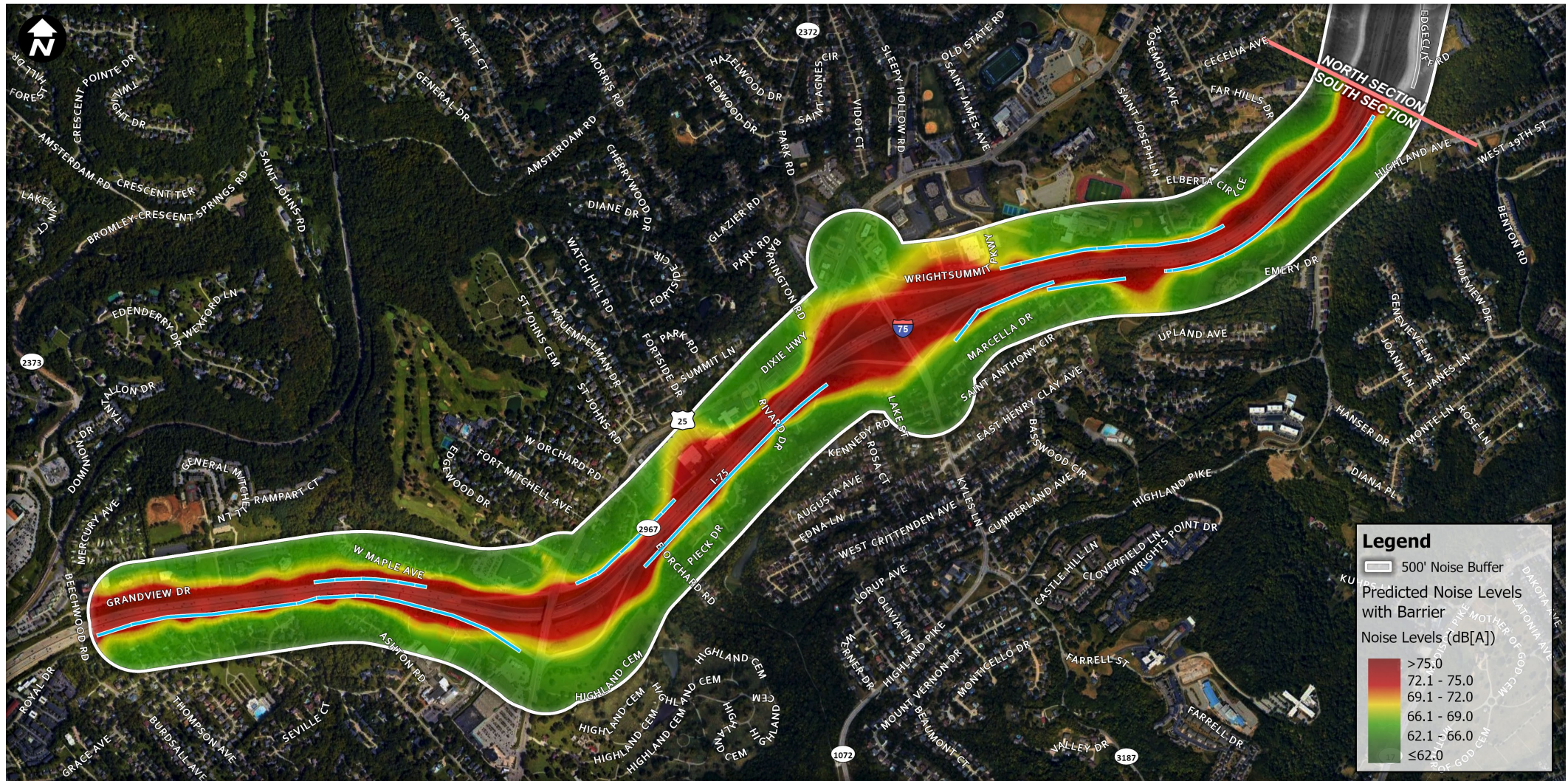
Why Are We Here?



Why Are We Here?



Why Are We Here?





Presentation Overview

- Basics of Noise Analysis
- KYTC Noise Policy
- Results of Project Specific Noise Analysis
- Photos of Barrier Options
- Survey
- Questions and Answers



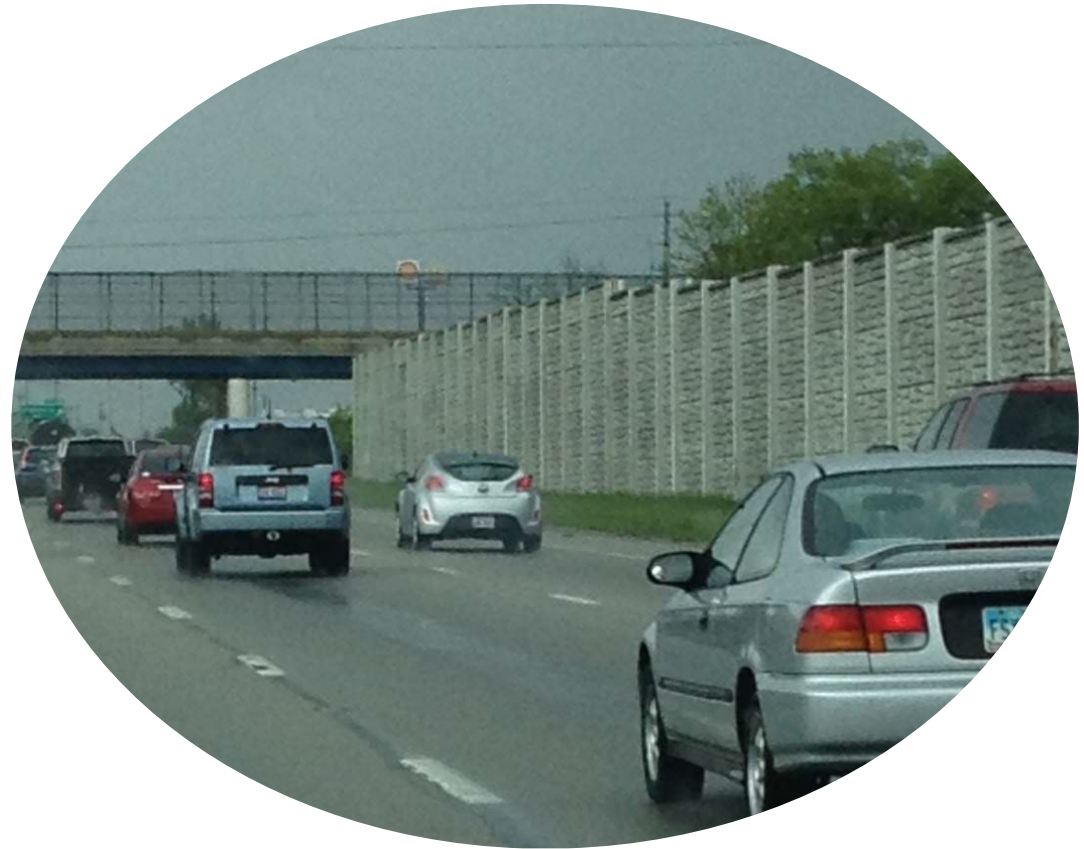
Poll #1

This meeting is for owners and residents of properties adjacent to I-71/I-75 who may benefit from construction of noise barriers when the road is widened. Which of the following describes your circumstances:

- 1. I both own property and live in the area**
- 2. I own property but do not live in the area**
- 3. I live in a rental property in the area**

What Is Noise?

- Unwanted Sound
- Tires
- Engines
- Exhaust

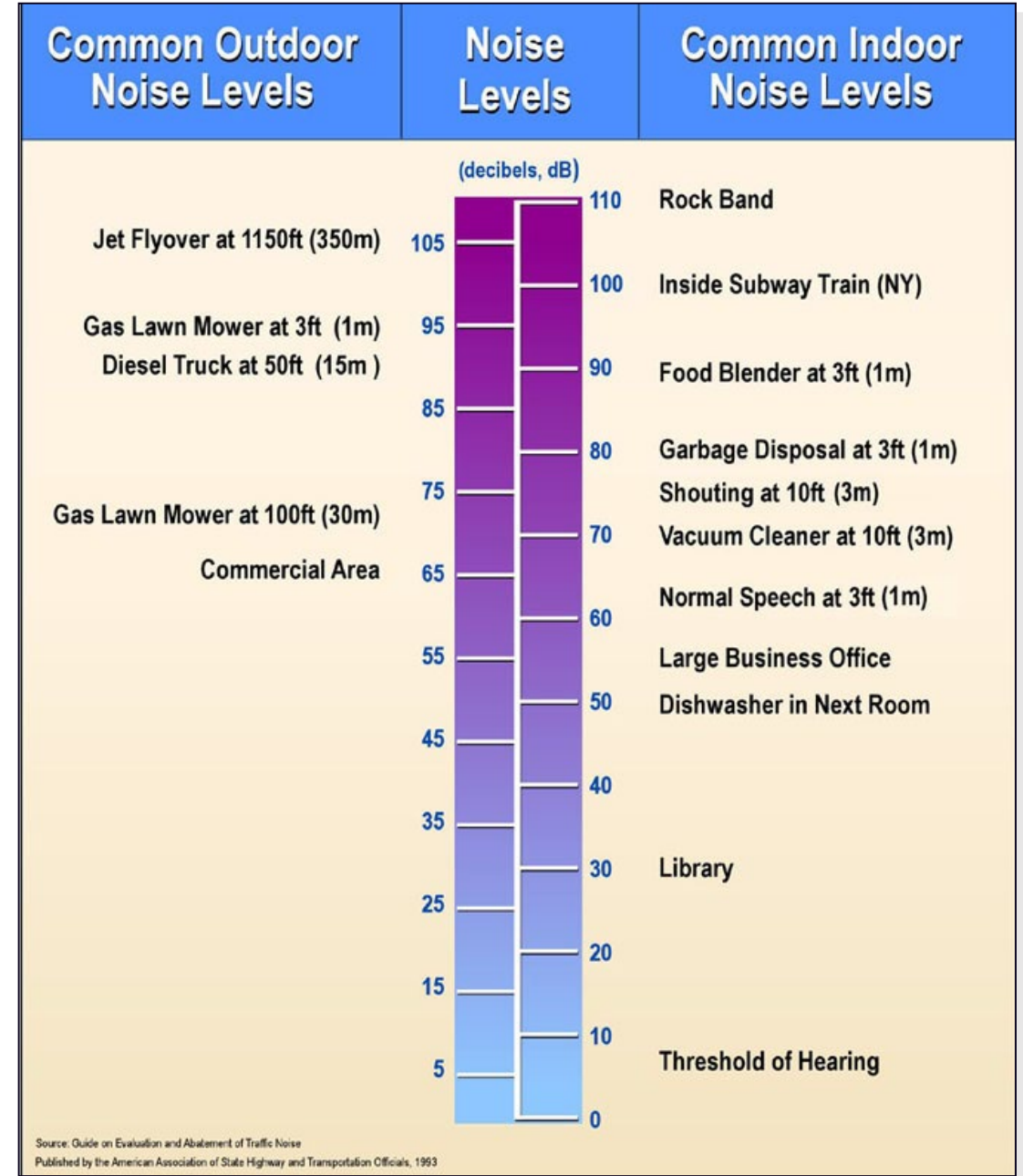
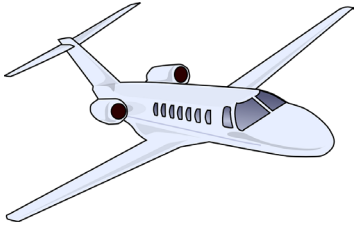


Noise Definitions

- **Decibels (dB)** – unit of noise measurement
- **Sensitive Receptor** – ex. Homes, churches, etc.
- **Benefited Receptor** – receives 5 db noise reduction
- **TNM[®]** – Traffic Noise Model



Common Noise Levels

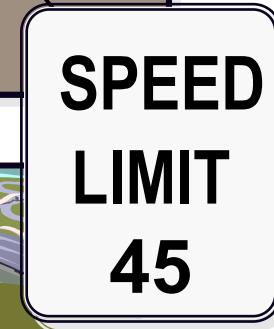
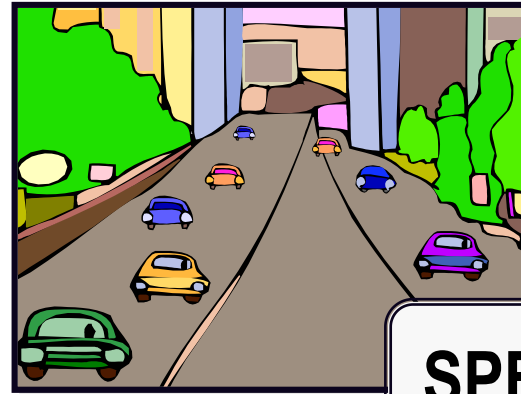


Sound Perception

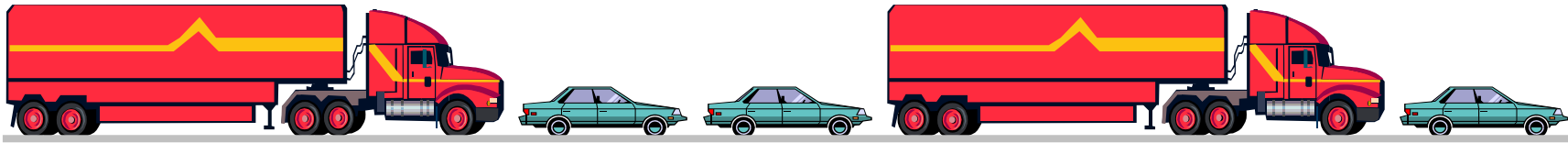
Change In Sound Level	Perception
3 dB	Barely Perceptible
5 dB	Clearly Perceptible
10 dB	Twice as Loud

Level of Highway Noise Depends on Three Things:

- Volume of Traffic
- Speed of Traffic
- Number of Trucks



How Traffic Volume Affects Noise

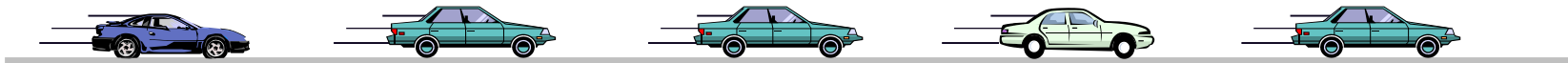


2000 vehicles per hour sound twice as loud (+10 dB) as

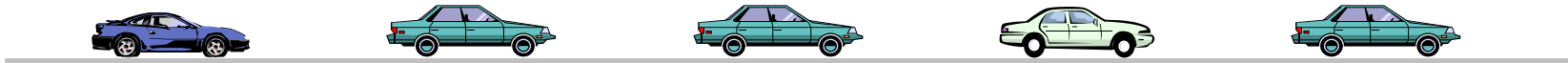


200 vehicles per hour

How Speed Affects Traffic Noise



Cars at 70 miles per hour sounds twice as loud (+10 dB) as

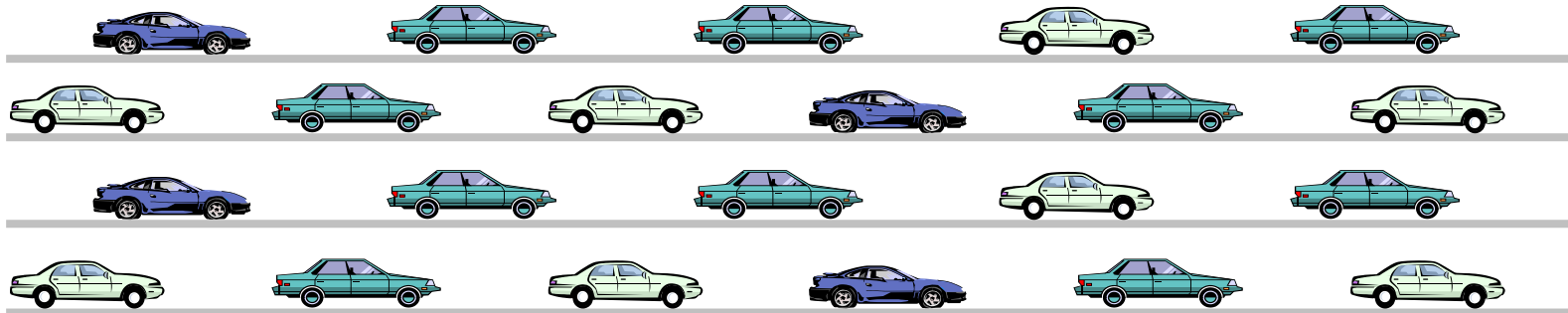


Cars at 35 miles per hour

How Trucks Affect Traffic Noise



One truck at 55 miles per hour sounds as loud as



about 20 cars at 55 miles per hour

Poll #2

Which best describes the Interstate traffic noise outside your residence or building?

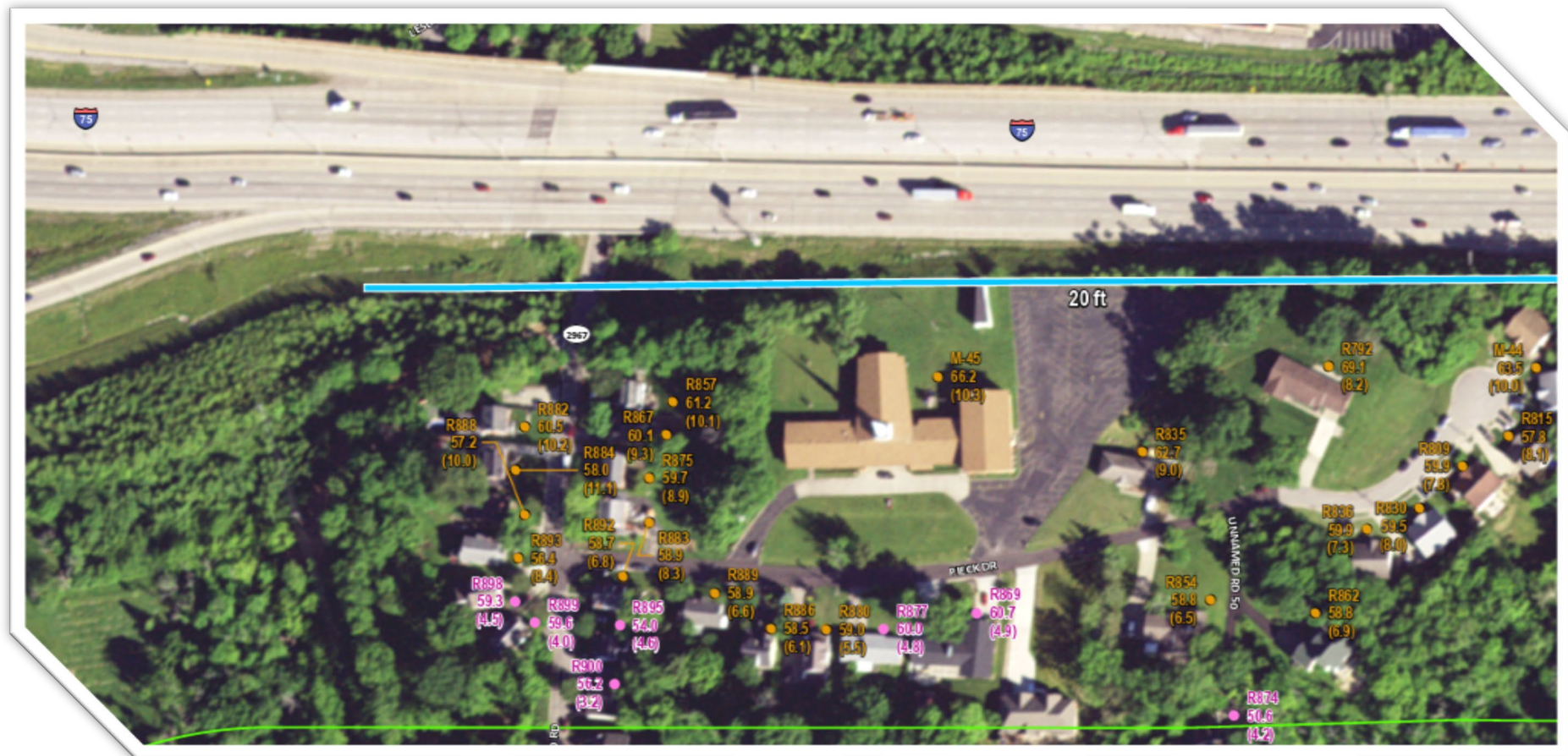
- 1. Not bad**
- 2. Somewhat disruptive**
- 3. Very disruptive**



Questions?

Noise Impact Identification

- FHWA Traffic Noise Model
- Evaluate No Build and Build



What Is a Noise Impact?

Land Use	Noise Level
Residential	67 dBA
Schools, Parks, Institutions	67 dBA
Restaurants & Offices	72 dBA

Source: Federal Highway Administration

Increase dBA	Description
10+	Substantial Increase

KYTC Noise Policy

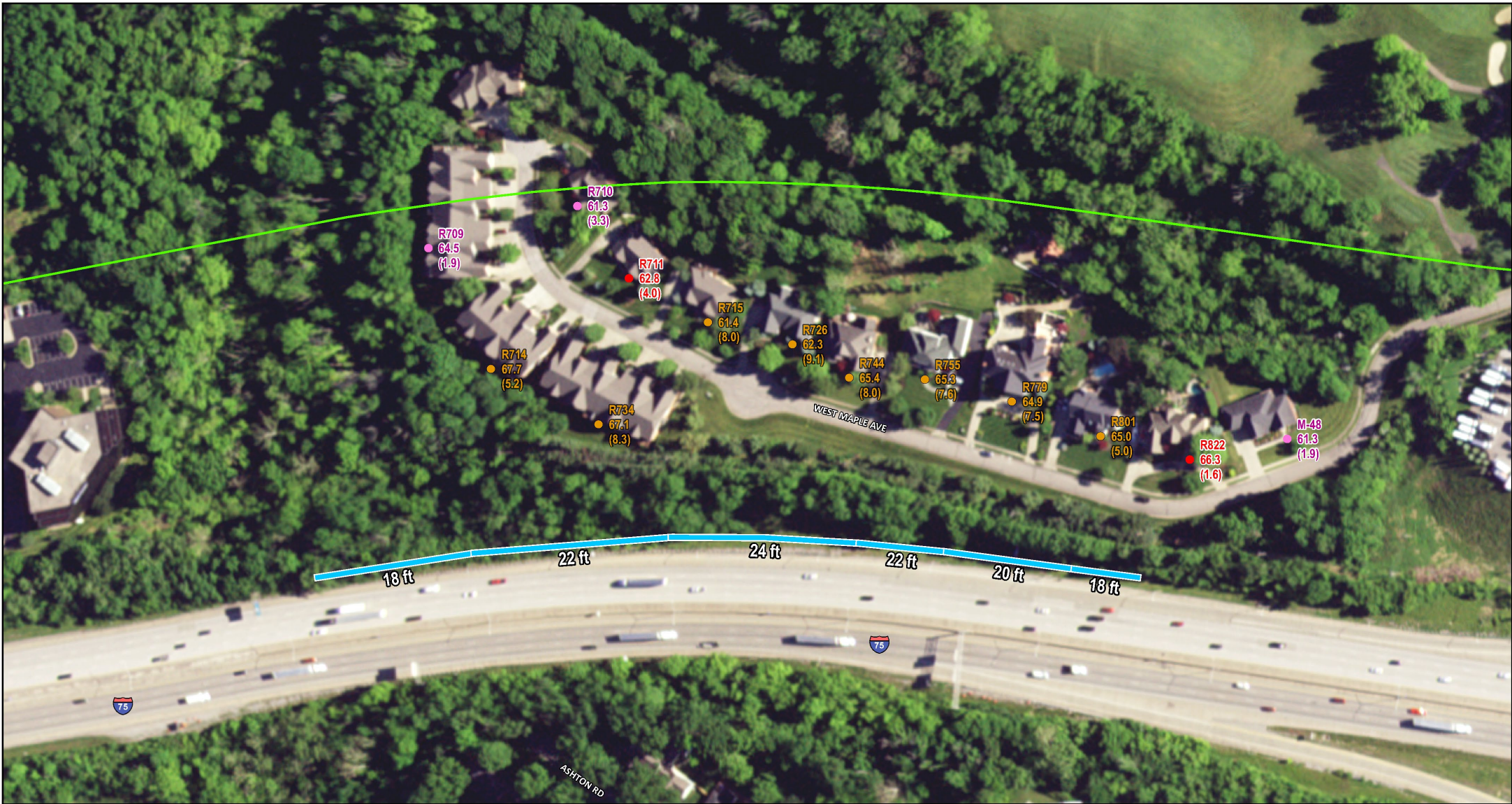
- If Impacts Are Predicted, Then
 - Avoid - Change Line or Grade
 - Minimize - Restrict Trucks or Lower Speed
 - Abate - Earth Berms or Noise Walls
- Evaluate Feasibility and Reasonableness
 - Sight Distance; Entrances
 - Cost per Benefited Receptor
 - Desires of Benefited Receptors



Noise Analysis Results

Barrier B17

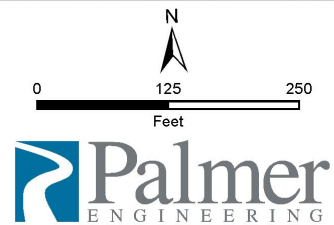




- Legend**
- Receptor #
 - Predicted Abated Noise Level (Noise Reduction [dBA])
 - Not Impacted, Not Benefitted
 - Impacted, Not Benefitted
 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier



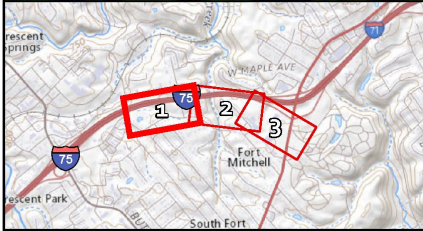
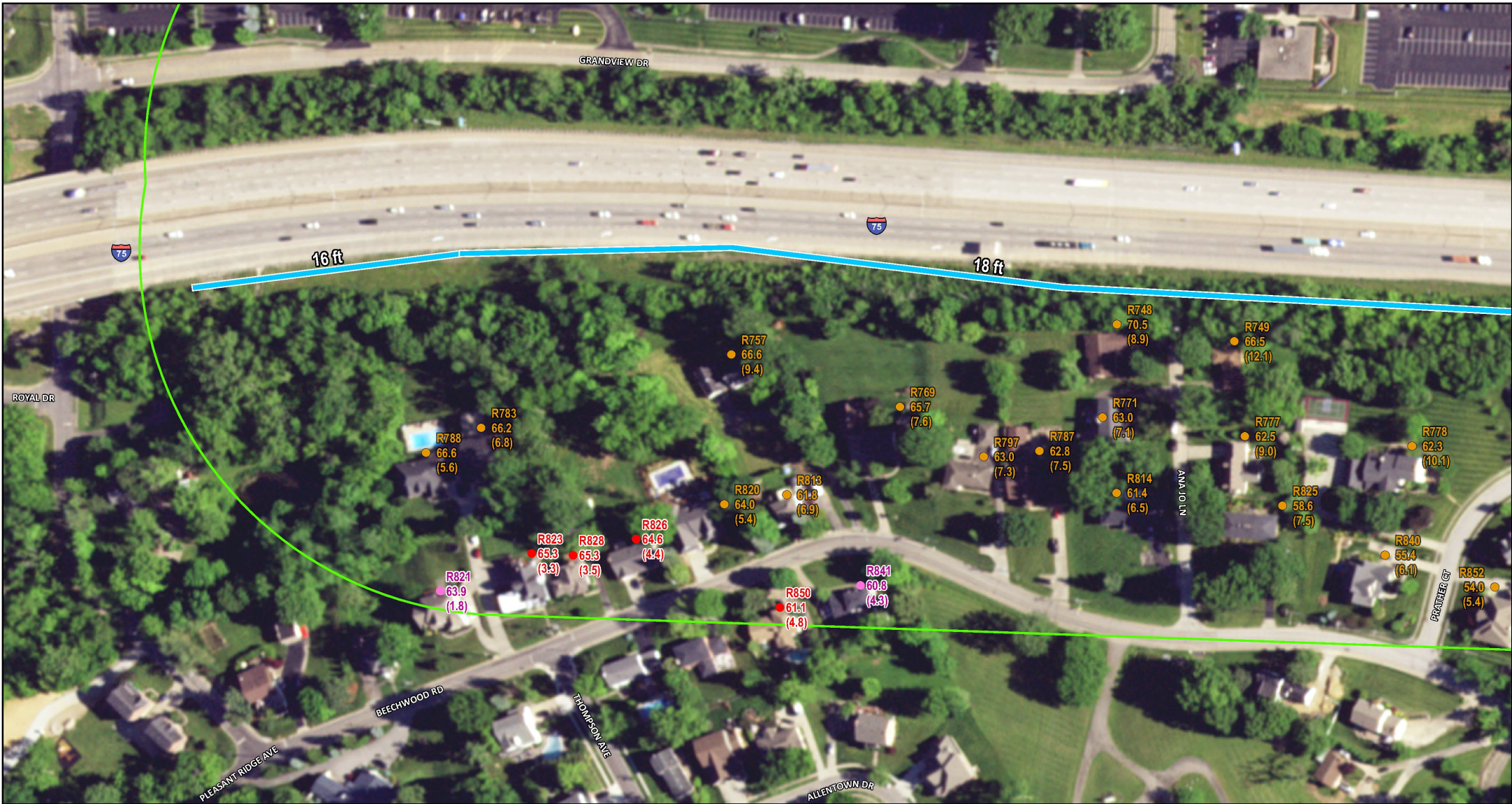
Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17
Concept I-W Barrier B17A (18-24 ft)
Exhibit 5



Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

Barrier B18



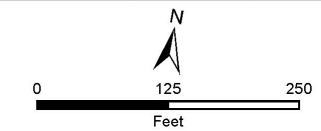


- Legend**
- Receptor #
 - Predicted Abated Noise Level (-Noise Reduction [dBA])
 - Not Impacted, Not Benefitted
 - Impacted, Not Benefitted
 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier

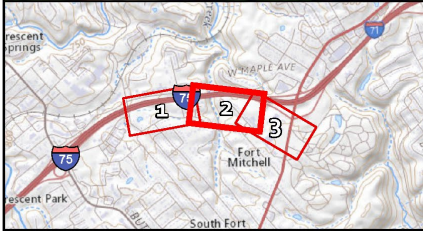


Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17

Concept I-W Barrier B18 (16-24 ft)
Exhibit 7A



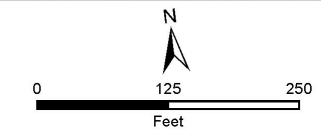
Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet



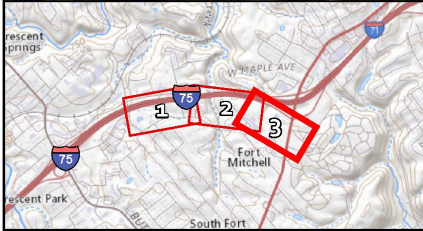
- Legend**
- Receptor #
 - Predicted Abated Noise Level (Noise Reduction [dBA])
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 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier



Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17
Concept I-W Barrier B18 (16-24 ft)
Exhibit 7B



Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

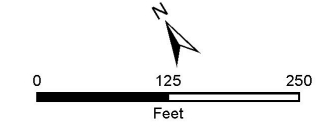


- Legend**
- Receptor #
 - Predicted Abated Noise Level (Noise Reduction [dBA])
 - Not Impacted, Not Benefitted
 - Impacted, Not Benefitted
 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier



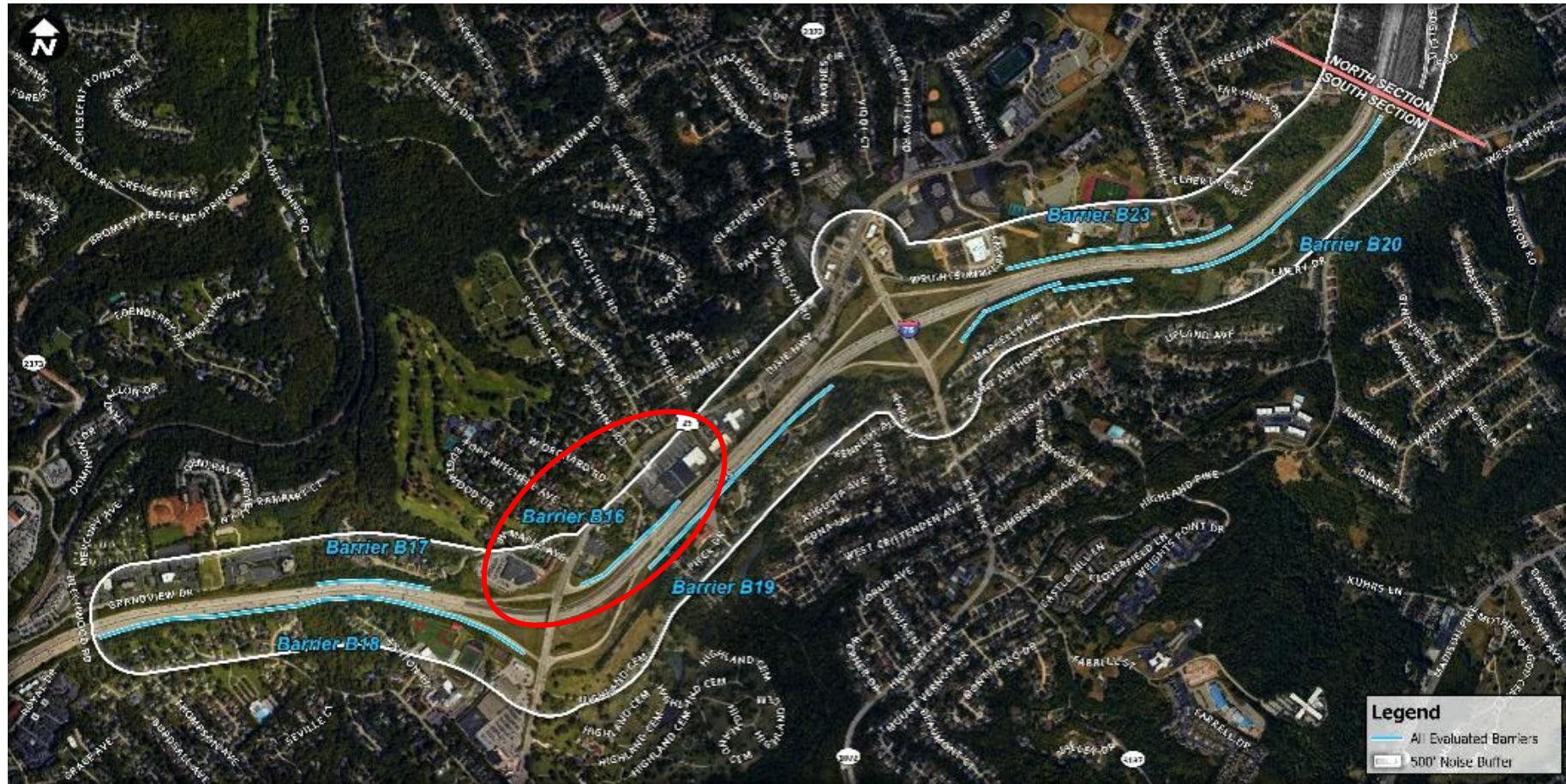
**Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
KYTC Item No. 6-17**

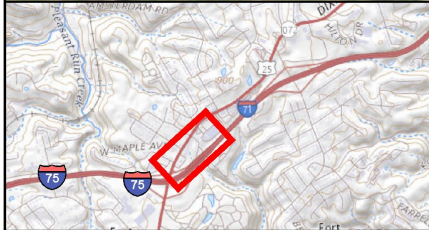
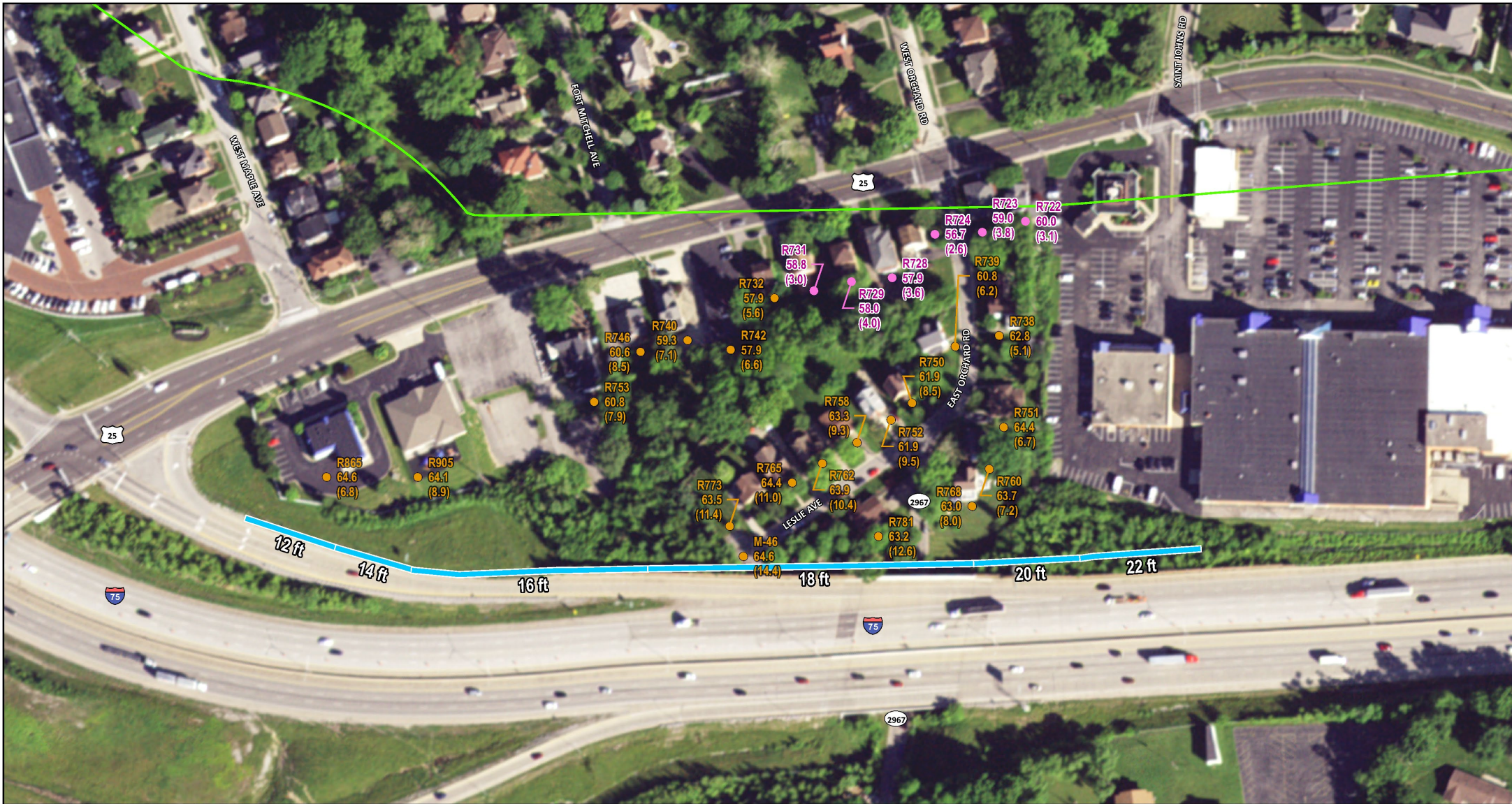
**Concept I-W Barrier B18 (16-24 ft)
Exhibit 7C**



Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

Barrier B16





- Legend**
- Receptor #
 - Predicted Abated Noise Level
-(Noise Reduction [dBA])
 - Not Impacted, Not Benefitted
 - Impacted, Not Benefitted
 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier

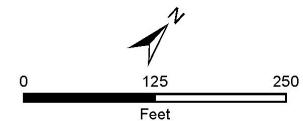


**Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
KYTC Item No. 6-17**

**Concept I-W Barrier B16B (12-22 ft)
Exhibit 4**



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TRANSPORTATION CABINET

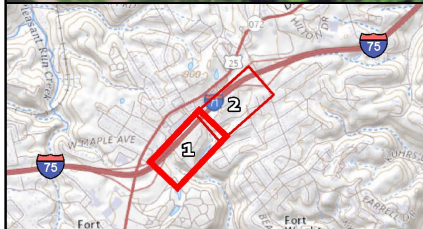


Palmer
ENGINEERING

Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

Barrier B19





Legend

- Receptor #
- Predicted Abated Noise Level (Noise Reduction [dBA])
- Not Impacted, Not Benefitted
- Impacted, Not Benefitted
- Benefitted
- 500' Noise Buffer (Southern Study Area)
- Analyzed Noise Barrier

DEPARTMENT OF TRANSPORTATION
UNITED STATES OF AMERICA

Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17

Concept I-W Barrier B19 (20 ft)
Exhibit 8A

Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

TEAM KENTUCKY
TRANSPORTATION CABINET

0 125 250
Feet

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ENGINEERING

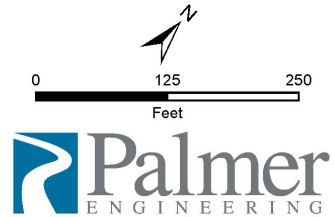


- Legend**
- Receptor #
 - Predicted Abated Noise Level
 - (Noise Reduction [dB(A)])
 - Not Impacted, Not Benefitted
 - Impacted, Not Benefitted
 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier



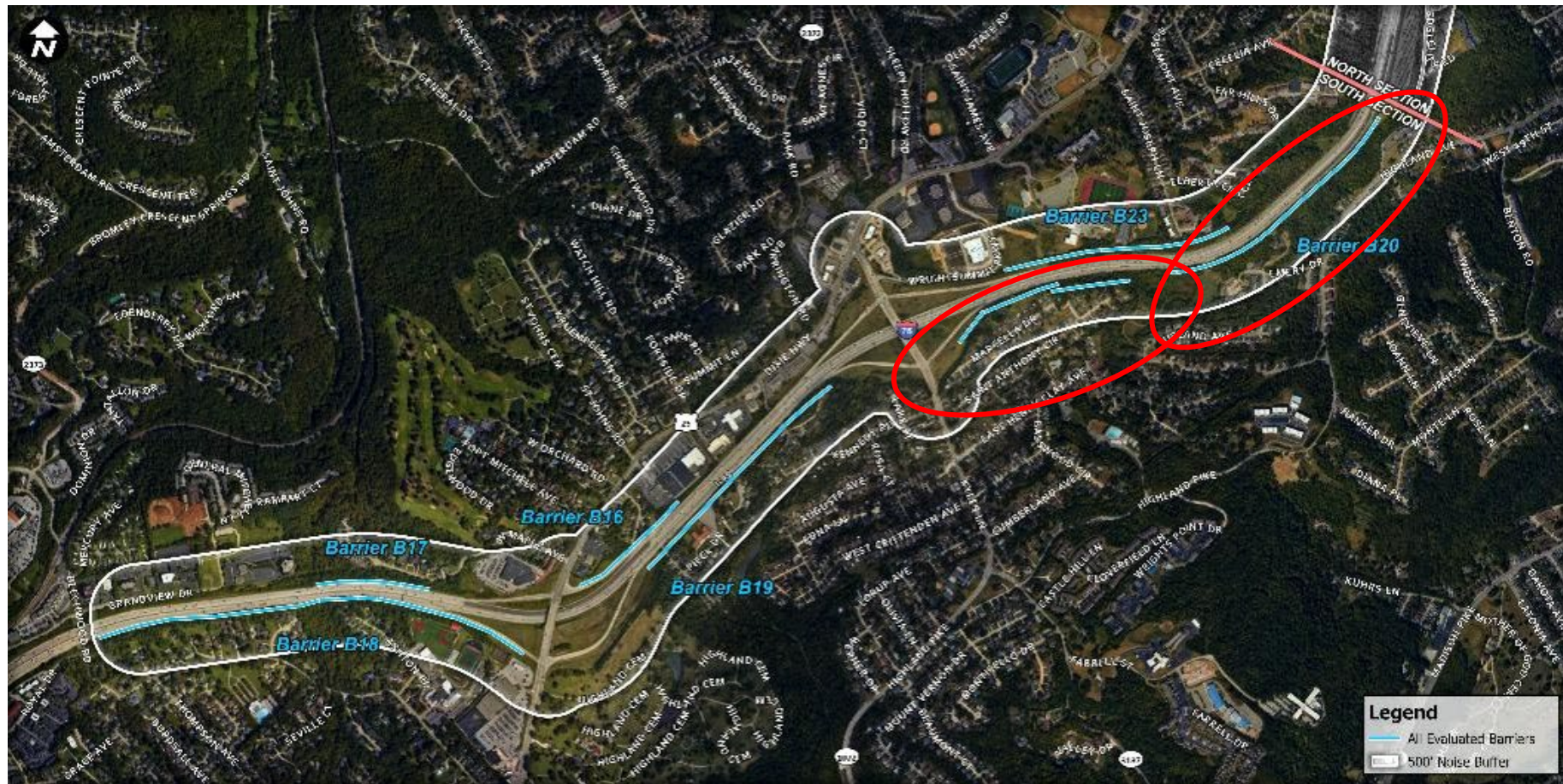
**Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
KYTC Item No. 6-17**

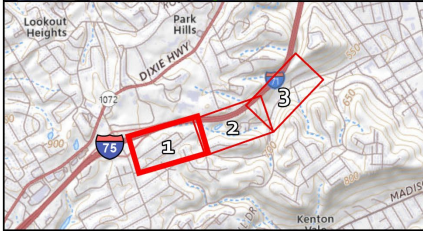
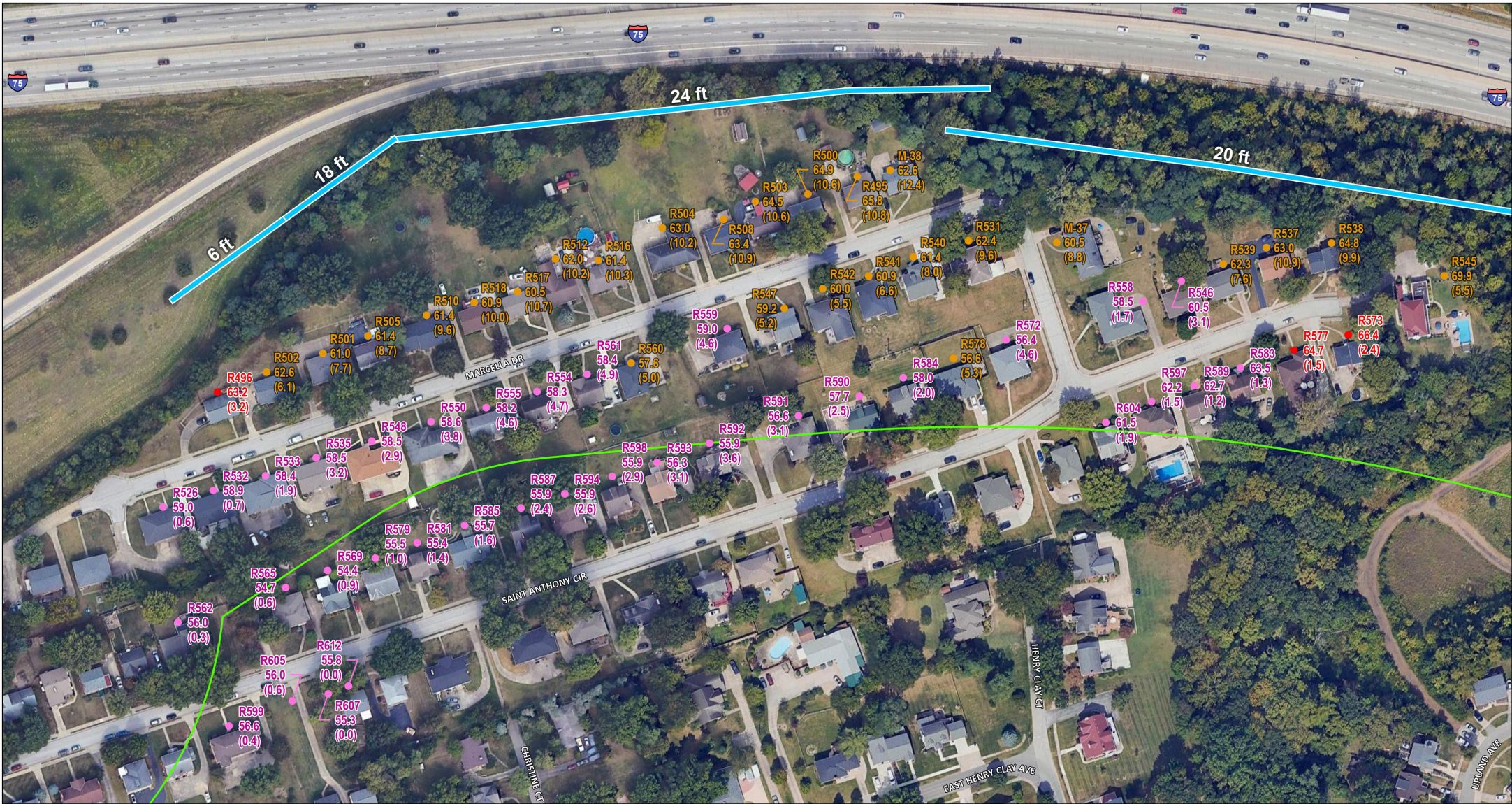
**Concept I-W Barrier B19 (20 ft)
Exhibit 8B**



Credit: KYFromAbove Partners; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

Barrier B20/NSA D








Legend


- Receptor #
- Predicted Abated Noise Level (Noise Reduction [dBA])
- Not Impacted, Not Benefitted
- Impacted, Not Benefitted
- Benefitted
- 500' Noise Buffer (Southern Study Area)
- Analyzed Noise Barrier


Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17
Concept I-W Barrier B20 / NSA D (6 to 24 ft)
Exhibit 9A

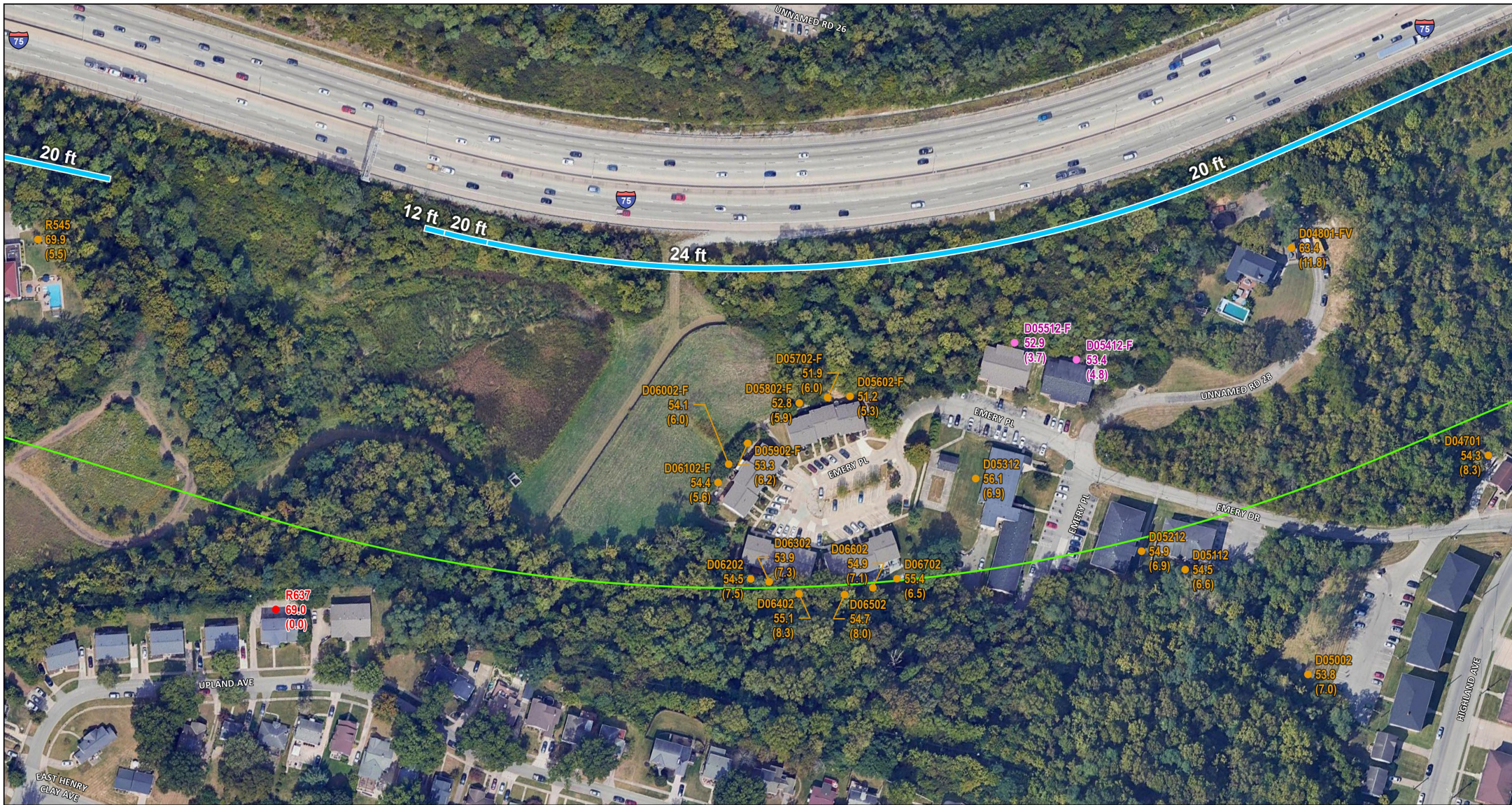




 TRANSPORTATION CABINET

Credit: 2024 Maxar Technologies & Google | © OpenStreetMap & contributors; Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet


 0 125 250
 Feet





Legend

- Receptor #
- Predicted Abated Noise Level -(Noise Reduction [dBA])
- Not Impacted, Not Benefitted
- Impacted, Not Benefitted
- Benefitted
- 500' Noise Buffer (Southern Study Area)
- Analyzed Noise Barrier

Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17

Concept I-W Barrier B20 / NSA D (6 to 24 ft)
Exhibit 9B

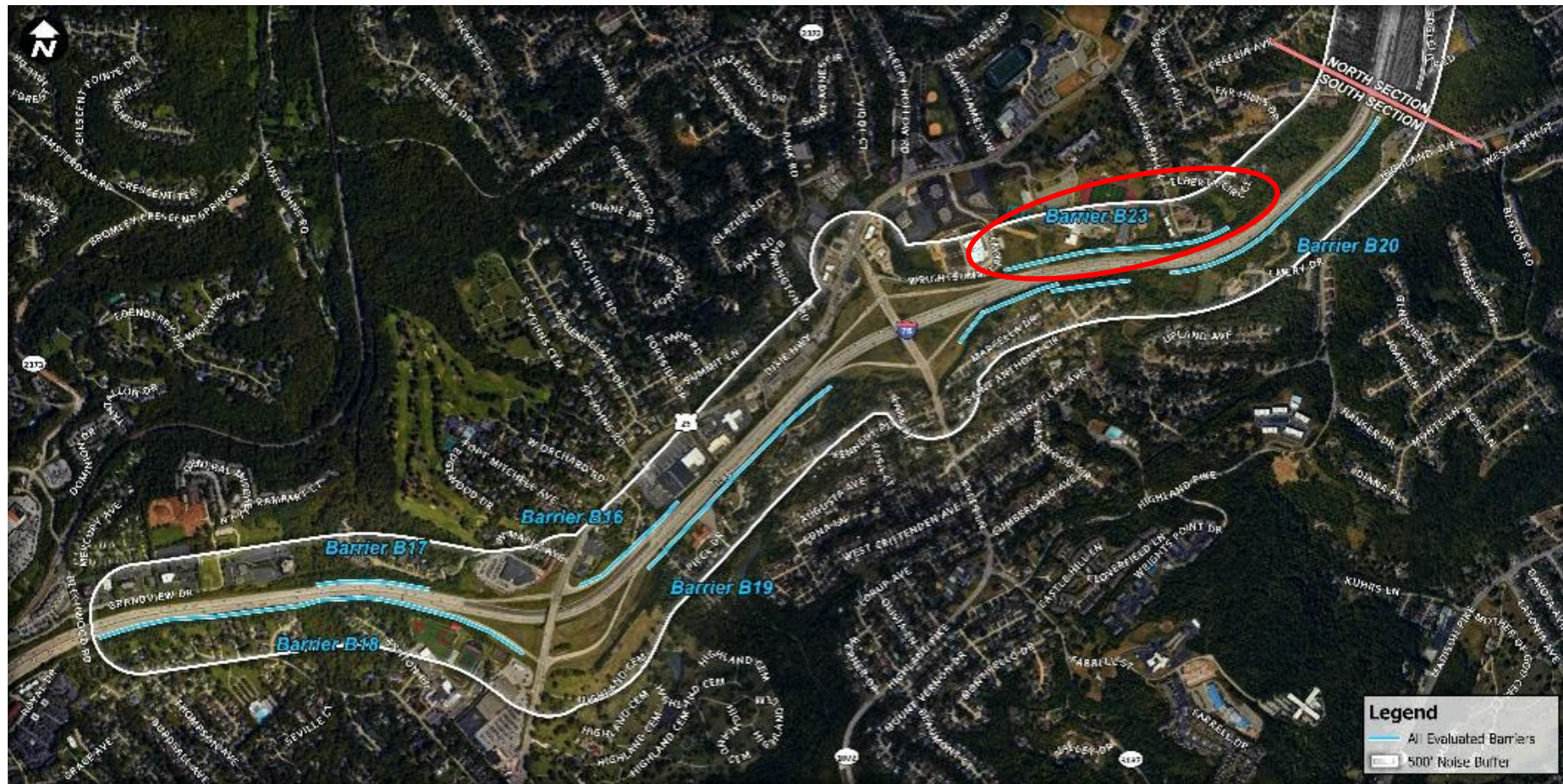
STATE OF KENTUCKY
 DEPARTMENT OF TRANSPORTATION

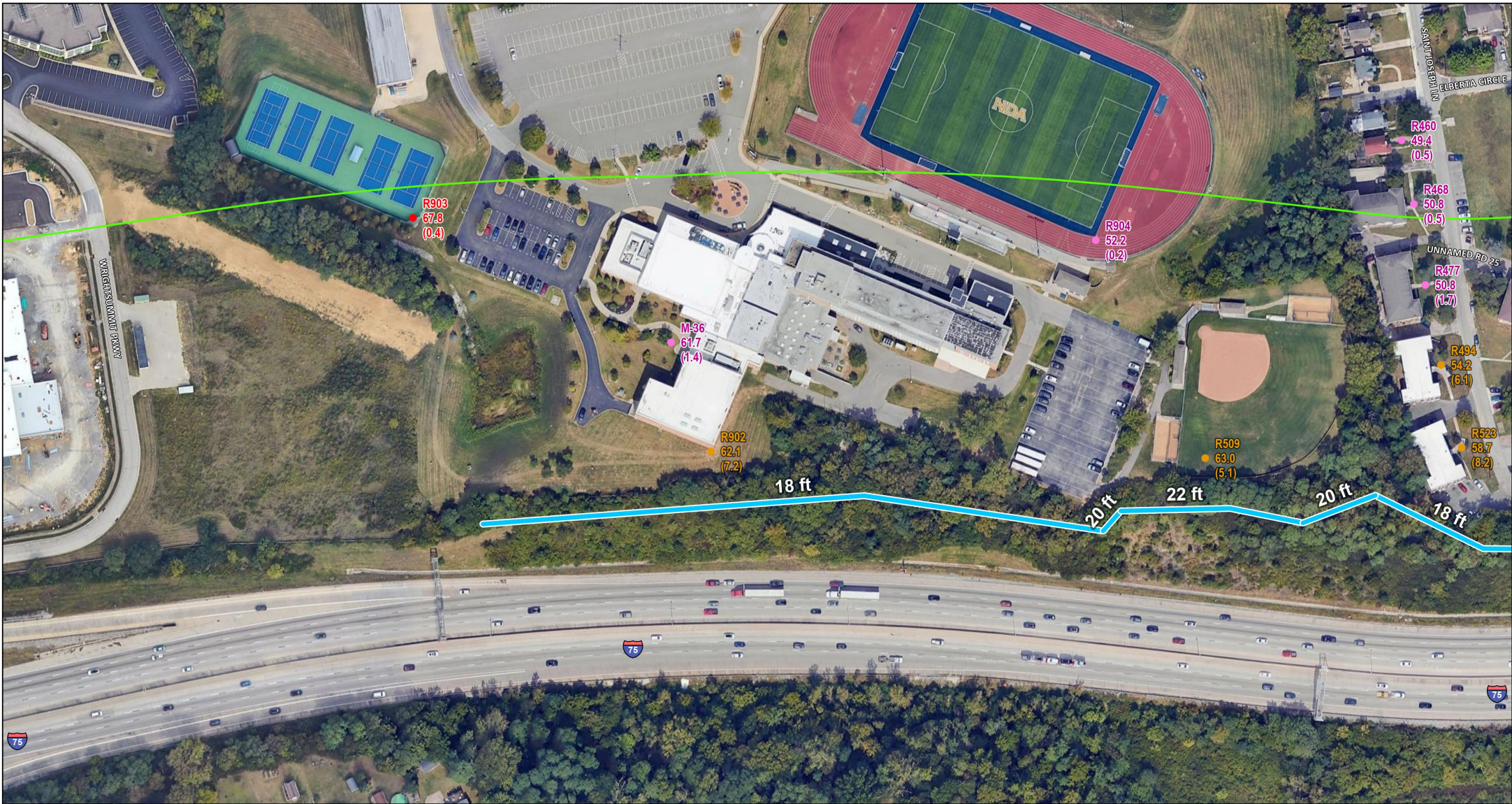
TEAM KENTUCKY
 TRANSPORTATION CABINET

0 125 250
 Feet

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 ENGINEERING

Barrier B23





- Legend**
- Receptor #
 - Predicted Abated Noise Level - (Noise Reduction [dBA])
 - Not Impacted, Not Benefitted
 - Impacted, Not Benefitted
 - Benefitted
 - 500' Noise Buffer (Southern Study Area)
 - Analyzed Noise Barrier

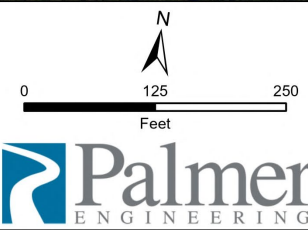


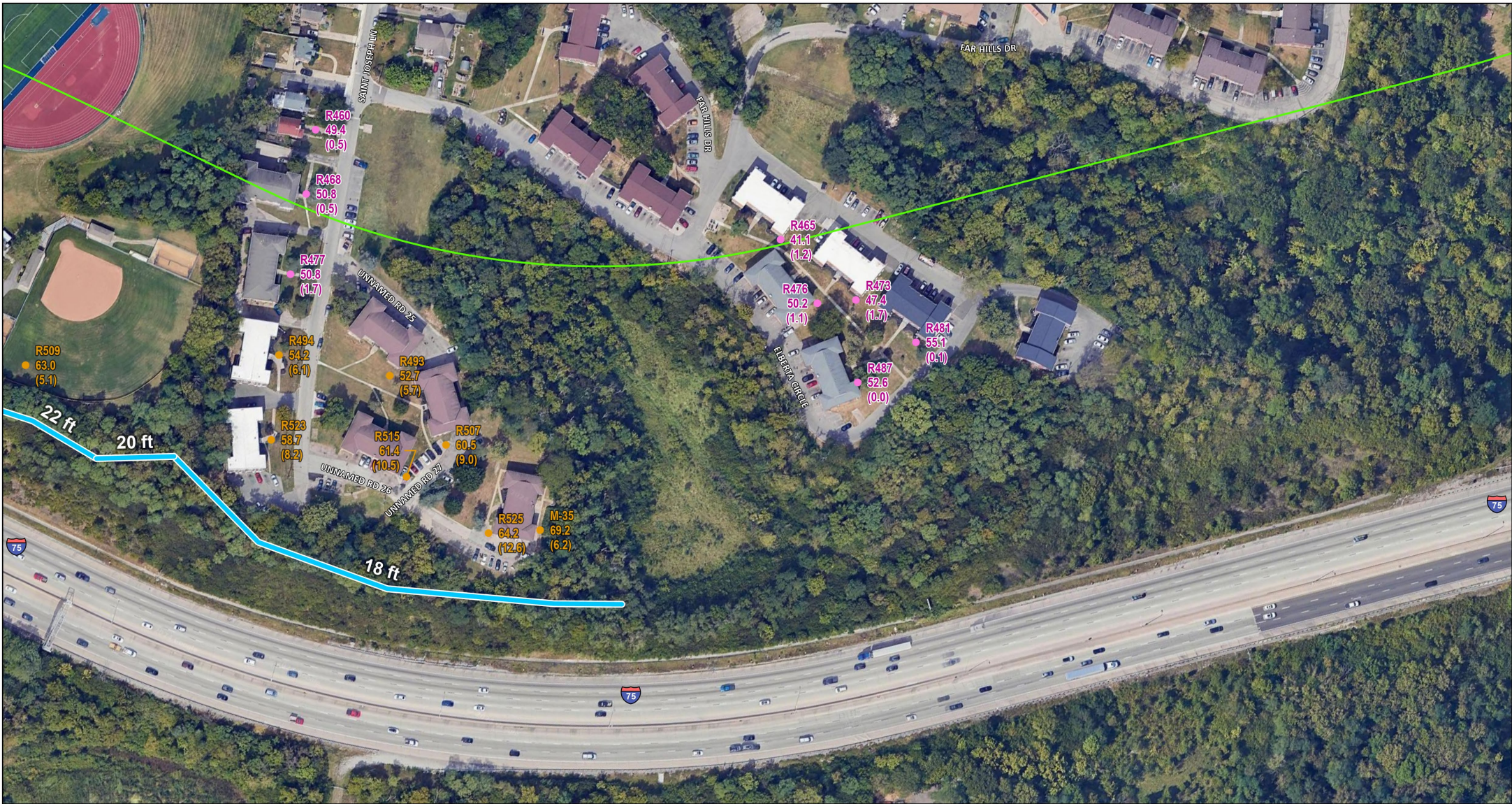
**Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
KYTC Item No. 6-17**

**Concept I-W Barrier B23 (18-22 ft)
Exhibit 10A**



TEAM KENTUCKY
TRANSPORTATION CABINET





Legend

- Receptor #
- Predicted Abated Noise Level (Noise Reduction [dBA])
- Not Impacted, Not Benefitted
- Impacted, Not Benefitted
- Benefitted
- 500' Noise Buffer (Southern Study Area)
- Analyzed Noise Barrier

Brent Spence Bridge Corridor Project
Noise Study: Kentucky - Southern Section
 KYTC Item No. 6-17

Concept I-W Barrier B23 (18-22 ft)
Exhibit 10B



Questions?

Noise Wall Finish: Smooth Finish



Noise Wall Finish: Cut Stone Finish



Voting Process

- Survey instructions mailed to Owners and Residents
- Survey accessible at registration page (brentspencebridge.com/south)
- Owner and Resident may each cast a vote
- Survey questions:
 - Construct barriers (Y/N)
 - Finish and texture (Smooth or Cut Stone)
- Survey results must be submitted by May 5, 2025



Brent Spence Bridge Corridor Project Kenton County, KY

On-Line Noise Barrier Meeting – Kentucky Southern Section
April 14, 2025, 7:00 – 8:30 pm

Registration

Welcome to the Registration Page for the Noise Barrier Meeting – Southern Section for the Brent Spence Bridge Corridor Project. The project is intended to improve the operational characteristics within the I-71/I-75 corridor for both local and through traffic in the Greater Cincinnati/Northern Kentucky region. The I-71/I-75 corridor suffers from congestion and safety-related issues as a result of inadequate capacity to accommodate current traffic demand.

The environmental effects of the project, including potential traffic noise impacts to adjacent properties, have been evaluated. Maps showing the location and heights of proposed evaluated noise barriers are available at the link below. In accordance with the KYTC Noise Analysis and Abatement Policy and as a commitment in the 2024 Revised Supplemental Environmental Analysis, the opinions of owners and residents of properties that would benefit from proposed noise and noise barriers are being solicited. One ballot is available for the property owner and a second ballot is available for the current resident. If the property owner also resides at the property, that vote will be counted twice.

A meeting to discuss the project and answer questions will be held on April 14, 2025, from 7:00 to 8:30 pm. If you plan to attend the Noise Barrier Meeting, you may want to wait until after the meeting before casting your ballot. Ballots must be cast before midnight on May 5, 2025 and can be cast at any time prior to then by clicking the button below. To cast your ballot, you will be asked to enter the PIN Number that was provided on your letter inviting you to join the meeting.

Presumably, you are being invited to the meeting and instructions for voting are included in the letter. If you have any questions or problems registering or voting, please contact David Waldner at (859)744-1218 or dwaldner@palmnet.net.

Survey Ballot

Your opinions are important to us. In accordance with KYTC Noise Policy, you have the opportunity to vote on whether you want a noise barrier to be constructed and to indicate your preference for aesthetic treatment if a wall is constructed. Opinions of the property owner as well as the current resident, if different than the owner, are being solicited. One ballot is available for the property owner and a second ballot is available for the current resident. If the property owner also resides at the property, that vote will be counted twice.

If you plan to attend the Noise Barrier Meeting, you may want to wait until after the meeting before casting your ballot. Ballots must be cast before midnight on May 5, 2025 and can be cast at any time prior to then by clicking the button below. To cast your ballot, you will be asked to enter the PIN Number that was provided on your letter inviting you to join the meeting.

[Register for Meeting – April 14, 2025](#)

[Vote Now](#)

[Noise Barrier Location Maps](#)

If you have any questions or problems registering or voting, please contact David Waldner at (859)744-1218 or dwaldner@palmnet.net.

Project Contact

- If you need assistance with your ballot or its submittal, you may contact:

David Waldner, Palmer Engineering
dwaldner@palmernet.com
(859) 744-1218

Questions?

