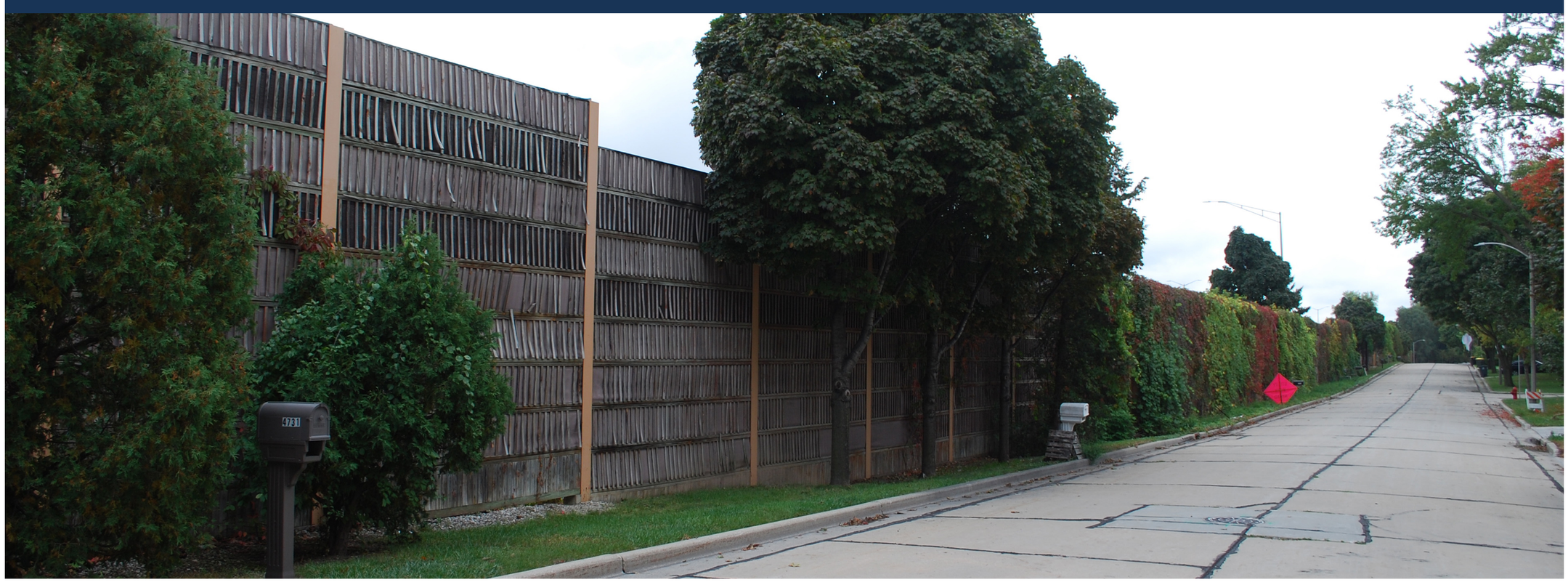
**I-41 Zoo Freeway** BURLEIGH STREET to SILVER SPRING DRIVE

# Noise Barrier Replacement

The existing noise barrier along the **west side of I-41 at the Hampton Avenue southbound entrance ramp** is at the end of its lifespan and will be replaced as part of the project.

## EXISTING NOISE BARRIER AT HAMPTON AVENUE




## RENDERING OF REPLACEMENT NOISE BARRIER


## WHY ARE NOISE BARRIERS NEEDED?

Noise barriers are designed to reduce the average background traffic noise for the majority of residences located directly behind the barrier.

## WHAT WILL THE NEW BARRIER LOOK LIKE?

The new barrier will be made of pre-cast, composite, sound-absorptive panels. It will be about 1,740 feet long and 20 feet high (see rendering).

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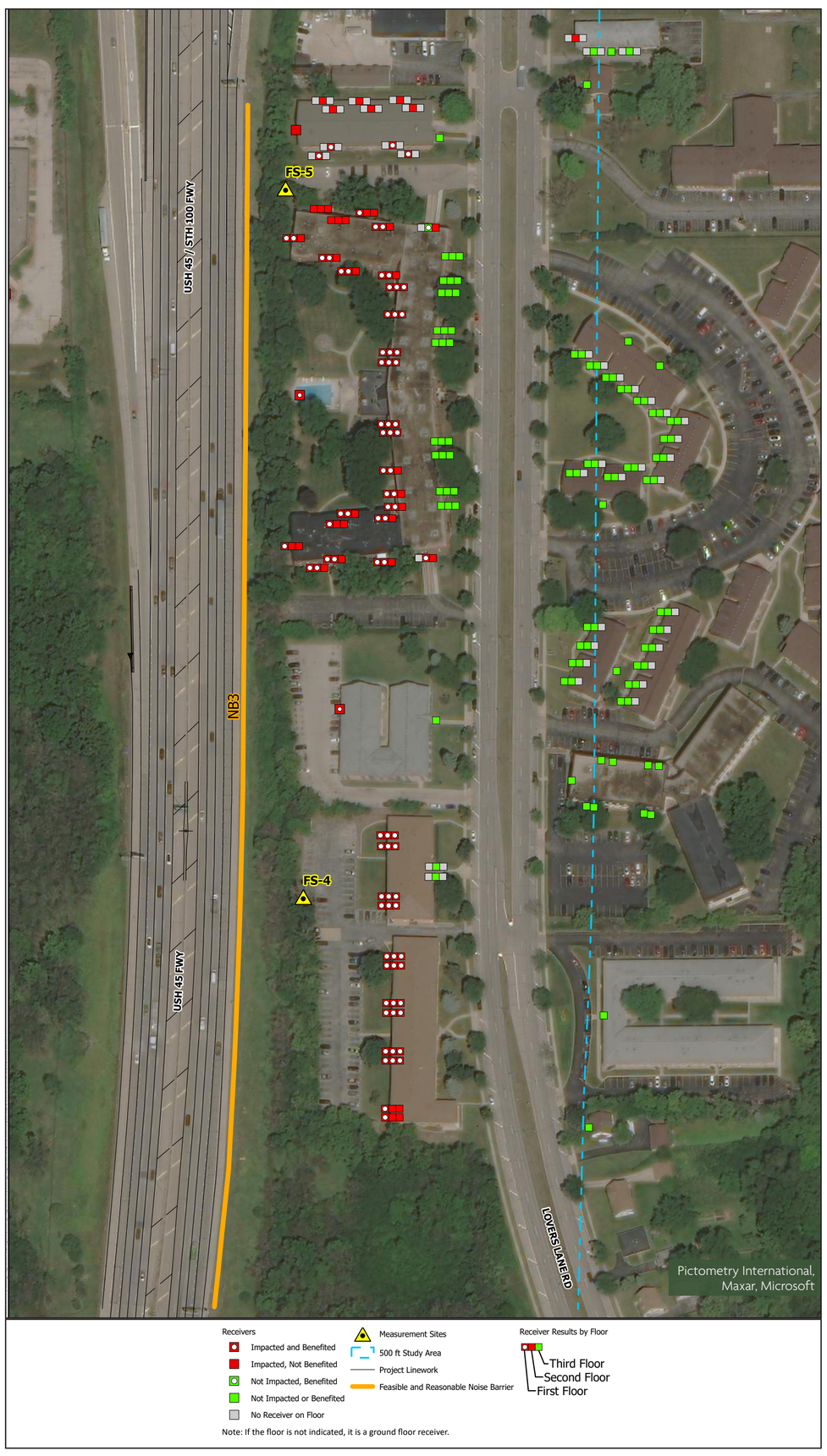
# Proposed Noise Barrier

Based on the project's noise analysis, a new noise barrier is proposed on the east side of I-41 between the Menomonee River and the northbound I-41 Silver Spring Drive off-ramp.




## NOISE BARRIER DETERMINATION

WisDOT used a Traffic Noise Model to analyze impacted locations along the corridor and evaluate noise abatement measures. The proposed barrier was determined to be reasonable and feasible.

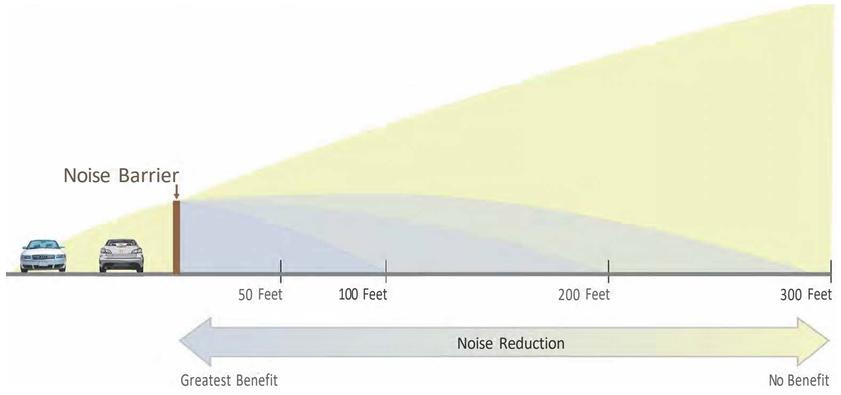
## VOTING PROCESS

Noise barriers must receive a vote of support from a simple majority of all votes cast by the adjacent landowners and residents of the benefited areas. Benefited receptors are locations that receive a minimum of eight (8) dB noise reduction.

## PUBLIC INVOLVEMENT MEETING

WisDOT will conduct a noise barrier specific public involvement meeting at a later time to provide adjacent landowners and residents of the benefited areas an opportunity to ask questions and discuss the noise barrier voting process.

## NOISE BARRIER EFFECTIVENESS




Noise barrier effectiveness depends on the distance between the impacted receptor and the barrier. For areas located directly behind a barrier, providing an eight (8) dB reduction, the noise level will be cut in half. This benefit decreases as a listener moves farther away from the barrier and is negligible at distances greater than 500 feet.