



Burton Planning Services

# NOISE & AIR QUALITY ANALYSES

DORR STREET INTERCHANGE JUSTIFICATION STUDY

## LUCAS COUNTY TRANSPORTATION IMPROVEMENT DISTRICT



### LOCATION

Toledo, Ohio

### TASKS

Noise Analysis & Barrier Design

Noise Public Involvement

Air Quality Analysis

### HIGHLIGHTS

Performed noise readings

Modeled study area noise levels

Conducted noise barrier analysis

Assisted with noise public involvement

Conducted qualitative MSAT air quality analysis

### PROJECT DESCRIPTION

BPS served as a subconsultant for the Dorr Street Interchange Justification Study (LUC-475-7.53) in Toledo, Ohio, which involved designing a new interchange in the proximity of the Dorr Street overpass of I-475 and associated improvements to Dorr Street from McCord Road to Holland-Sylvania Road. BPS' tasks included the noise and air quality analyses.

For traffic noise, BPS integrated a previous noise study for the I-475 widening project into the expanded study area for this interchange project and performed noise readings, noise modeling, barrier analyses, and noise public involvement activities. A total of 950 noise sensitive dwelling units were modeled, three barriers were analyzed, and all three barriers were found to be feasible and reasonable. BPS also assisted with the noise public involvement.

For the air quality analysis, BPS staff prepared a Qualitative MSAT analysis. BPS's qualitative assessment compared, in narrative form, the expected effect of the project on traffic volumes, vehicle mix, routing of traffic and the associated changes in MSAT for the project alternatives, including no-build, based on VMT, vehicle mix, and speed. The report also included a discussion of information that is incomplete or unavailable for a project-specific assessment of MSAT impacts and information regarding the health impacts of MSAT.

