





Noise Abatement



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Why is it Required



Regulations:

- Clean Air Act (amended 1990)
- 40 CFR Parts 51 & 93

Project-Level Guidance:

- Particulate Matter (PM) & Carbon Monoxide Hot-spot Analyses
- Mobile Source Air Toxics (MSAT)

CONFORMITY

Project Information

- 1. Is the project area in a nonattainment or attainment/maintenance for any criteria pollutants?
- 2. Is the project included in the transportation improvement program (TIP) or State transportation improvement program (STIP)?
- 3. Is this a project of local air quality concern?

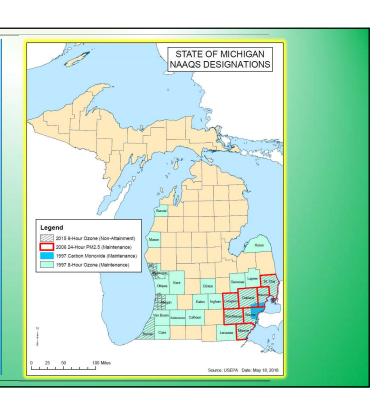


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EPA National Ambient Air Quality Standards (NAAQS) Designations

Criteria Pollutants:

- Carbon Monoxide CO
- Ozone O₃
- Particulate Matter –
 PM_{2.5} & PM₁₀
- Nitrogen Dioxide NO₂
- Sulfur Dioxide SO₂
- · Lead Pb



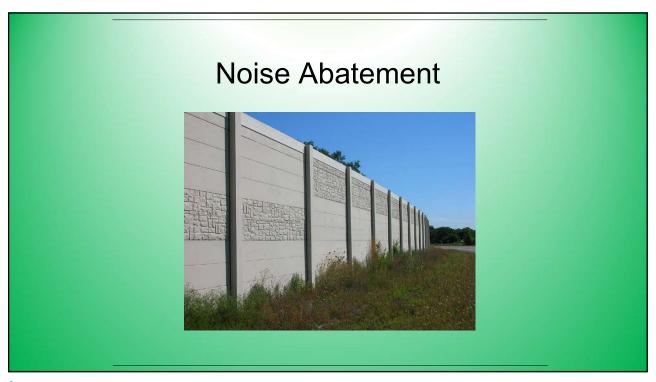
Project Conformity

- Incorporated through the Transportation Strategic Planning process
- Project Level:
 Transportation Improvement Program (TIP) / State
 Transportation Improvement Program (STIP)
- Primarily Capacity Change Projects

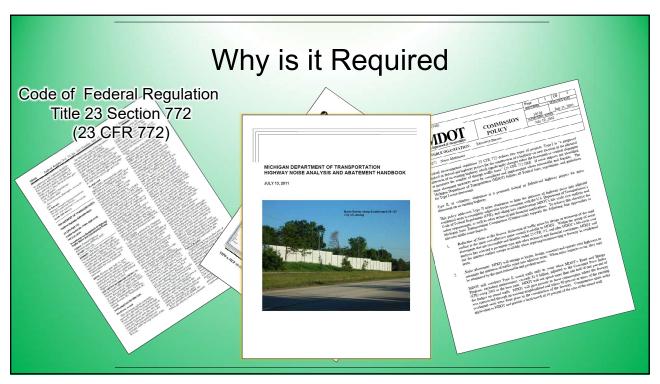
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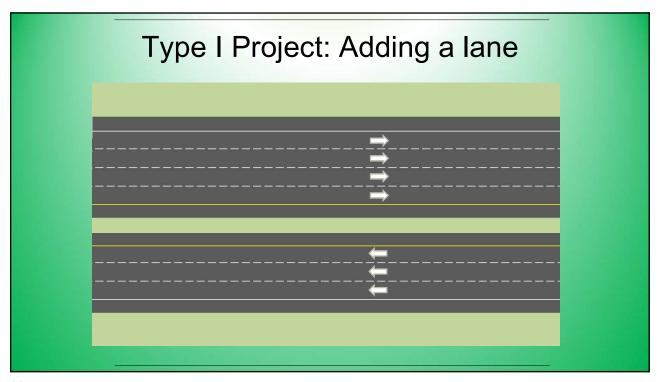
Project of Local Air Quality Concern

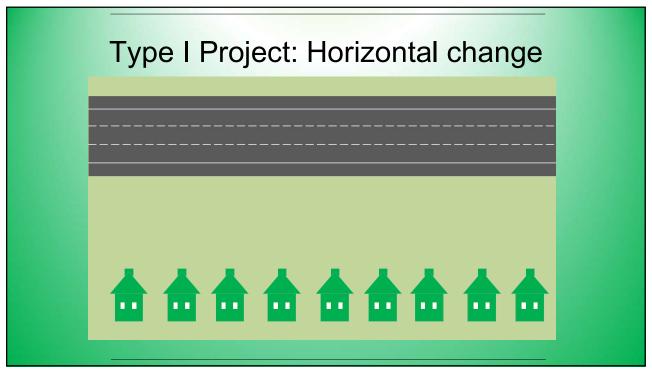


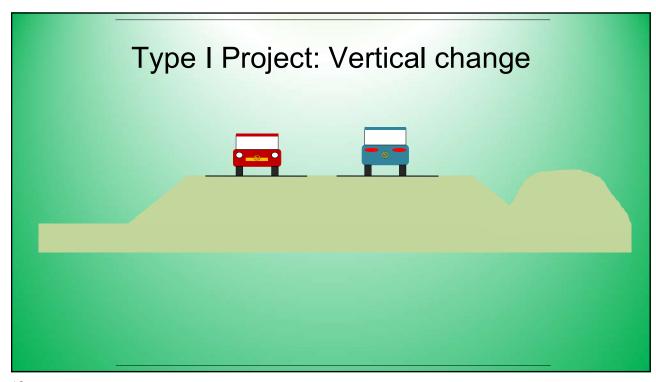


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other Type I Projects

- Addition or relocation of interchange ramps added of a quadrant to complete an existing partial interchange; or
- Adding a new or substantially altering a weigh station, rest area, ride-share lot, or toll plaza.
- If part of a project is defined as a Type I project then a noise analysis must be conducted for the whole project as defined in the environmental document.



Noise Analysis Requirements

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- Notification e-mail to PM with data needs
 - Traffic Traffic Analysis Request (Form #1730)
 - Design plans (alignment and elevations; existing and proposed)
 - Survey out to about 300' 500' depending on project area characteristics
- PM hires a consultant
- Analysis will take 4 to 6 months depending on the project characteristics, need for abatement, and the weather

Noise Analysis Process

- Land use identification
- Impact analysis
- Abatement analysis
- Documentation and public involvement
- Noise contours report for local officials



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Noise Abatement

- Walls Concrete post and panel
- Earth berms
- Earth berm/wall combinations



Things You Should Know

- After the CE Classification, no additional noise abatement will be considered unless there are substantial changes affecting abatement during design
- No sound insulation for residential buildings
- Cannot accept third party funds to make abatement reasonable
- Vegetation must be deep, dense, and tall to provide noise reduction.

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I-75 over Goddard Road, City of Allen Park

