

From: [Alcala, Noel](#)
To: [Delev, Edward](#); [Carpenter, Sean](#)
Cc: [Schneider, Erica](#)
Subject: RE: TRU-SR45/SR82 (SE Quadrant) Type II Noise Analysis Report
Date: Thursday, December 19, 2019 12:58:05 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

PID TBD

TRU-SR45/SR82 (SE Quadrant; Stewart Ave community) Type II Noise Analysis Report dated December 2019
 This an ODOT decision document. A copy will be uploaded to EnviroNet.

The purpose of the Noise Analysis prepared by Stantec Consultants for EMH&T was to investigate traffic noise levels associated with the Type II community located in the SE Quadrant of the SR45/SR82 interchange in Warren, Ohio. The Noise Analysis follows FHWA and ODOT guidelines as presented in **23 CFR 772** and **ODOT's Highway Traffic Noise Analysis Manual** dated April 2015. Because the project involves a community that predates the freeway, the project has been designated a Type II Project. A Type II project considers sensitive land uses within 500' of the edge of pavement and focuses on the exterior areas of frequent human use in accordance with FHWA regulations.

The objectives of this noise analysis were to determine if the community would have traffic noise impacts and evaluate traffic noise abatement measures, if impacts were predicted, and if so, if a noise wall meets ODOT criteria for feasibility and reasonableness. The area was predicted to have traffic noise impacts because the Existing Year 2020 noise levels approached or exceeded FHWA NAC noise levels. Because ODOT noise wall criteria for feasibility and reasonableness were met, noise mitigation is recommended for the Stewart Avenue community.

See recommended noise barrier below that meets ODOT criteria. Please follow the Type II noise process flowchart from the link below for next steps. OES accepts the subject Type II noise analysis. Note there is an existing powerline that crosses the noise wall alignment that will need to be dealt with in the design phase.

http://www.dot.state.oh.us/Divisions/Planning/Environment/NEPA_policy_issues/NOISE/Manual/Appendices/Appl.pdf

TABLE 6: Recommended Noise Wall

Length	Minimum Height	Average Height	Maximum Height	Impacted Receptors	Impacted Receptors w/Benefit	% Impacted Receptors w/Benefit	Total Benefited Receptors	Total Cost	Cost Per Benefited Receptor
3,561 feet	15 feet	17.6 feet	20 feet	31	30	96.8%	59	\$1,562,678	\$26,486



If you have any questions or concerns, please do not hesitate to contact me by phone or email.

Noel Alcala, P.E.

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From: Krokono, Michael <mkrokono@emht.com>
Sent: Monday, December 9, 2019 9:06 AM
To: Delev, Edward <Edward.Delev@dot.ohio.gov>; Carpenter, Sean <Sean.Carpenter@dot.ohio.gov>; Alcala, Noel <Noel.Alcala@dot.ohio.gov>
Subject: WO 04-24 (TRU-SR5/82 Noise Analysis) - Report

Hello All -

Attached is a copy of the TRU-SR5/82 Noise Analysis Report provided by Stantec. The report has been finalized per the recommendations discussed during our November 19th conference call. Please let me know if you have any questions or need any additional information.

NOTE: this is a very large file – please confirm receipt.

Thanks,
Mike

Michael A. Krokonko
Senior Environmental Scientist



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